

APPENDIX A - NELHA Ocean Transect Data Tables and Graphs

Ocean Transect 1

2018 – 2020 Summary Data Table & Graphs.....	Appendix A-T1-FYXX-1
Station 1 Historical Data Table & Graphs.....	Appendix A-T1-S1-1
Station 2 Historical Data Table & Graphs.....	Appendix A-T1-S2-1
Station 3 Historical Data Table & Graphs.....	Appendix A-T1-S3-1
Station 4 Historical Data Table & Graphs.....	Appendix A-T1-S4-1
Station 5 Historical Data Table & Graphs.....	Appendix A-T1-S5-1

Ocean Transect 2

2018 – 2020 Summary Data Table & Graphs.....	Appendix A-T2- FYXX-1
Station 1 Historical Data Table & Graphs.....	Appendix A-T2-S1-1
Station 2 Historical Data Table & Graphs.....	Appendix A-T2-S2-1
Station 3 Historical Data Table & Graphs.....	Appendix A-T2-S3-1
Station 4 Historical Data Table & Graphs.....	Appendix A-T2-S4-1
Station 5 Historical Data Table & Graphs.....	Appendix A-T2-S5-1

Ocean Transect 3

2018 – 2020 Summary Data Table & Graphs.....	Appendix A-T3-FYXX-1
Station 1 Historical Data Table & Graphs.....	Appendix A-T3-S1-1
Station 2 Historical Data Table & Graphs.....	Appendix A-T3-S2-1
Station 3 Historical Data Table & Graphs.....	Appendix A-T3-S3-1
Station 4 Historical Data Table & Graphs.....	Appendix A-T3-S4-1
Station 5 Historical Data Table & Graphs.....	Appendix A-T3-S5-1

Ocean Transect 4

2018 – 2020 Summary Data Table & Graphs.....	Appendix A-T4-FYXX-1
Station 1 Historical Data Table & Graphs.....	Appendix A-T4-S1-1
Station 2 Historical Data Table & Graphs.....	Appendix A-T4-S2-1
Station 3 Historical Data Table & Graphs.....	Appendix A-T4-S3-1
Station 4 Historical Data Table & Graphs.....	Appendix A-T4-S4-1
Station 5 Historical Data Table & Graphs.....	Appendix A-T4-S5-1

Ocean Transect 5

2018 – 2020 Summary Data Table & Graphs.....	Appendix A-T5-FYXX-1
Station 1 Historical Data Table & Graphs.....	Appendix A-T5-S1-1
Station 2 Historical Data Table & Graphs.....	Appendix A-T5-S2-1
Station 3 Historical Data Table & Graphs.....	Appendix A-T5-S3-1
Station 4 Historical Data Table & Graphs.....	Appendix A-T5-S4-1
Station 5 Historical Data Table & Graphs.....	Appendix A-T5-S5-1

Ocean Transect 6

2018 – 2020 Summary Data Table & Graphs.....	Appendix A-T6-FYXX-1
Station 1 Historical Data Table & Graphs.....	Appendix A-T6-S1-1
Station 2 Historical Data Table & Graphs.....	Appendix A-T6-S2-1
Station 3 Historical Data Table & Graphs.....	Appendix A-T6-S3-1
Station 4 Historical Data Table & Graphs.....	Appendix A-T6-S4-1
Station 5 Historical Data Table & Graphs.....	Appendix A-T6-S5-1

NELHA Water Quality Laboratory

Transect 1

July 2018 - June 2019

SITE ID	DATE	TIME	Tide		PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		Turbidity	Salinity	Temp.	pH	DO	Chl a
	M/D/Y	(2400)	(ft)	(cycle)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg N/L)	(μM)	(μg Si/L)	(μM)	(μg P/L)	(μM)	(μg N/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(μg/L)
DOH LIMIT					0.16	5	0.32	4.5	0.18	2.5			0.40	12.5	7.1	100	0.10					0.30
T1-1m	9/24/18	927	0.1	Low	0.10	3.0	0.16	2.3	0.28	3.9	4.2	119	0.39	12.1	5.13	72	0.12	34.52	27.7	8.19	5.33	0.15
T1-1m	11/13/18	1021	1.6	Ebb	0.13	4.1	1.32	18.5	0.29	4.1	5.1	143	0.54	16.7	5.75	81	0.12	34.86	27.3	8.22	5.06	0.24
T1-1m	1/22/19	1009	0.5	Ebb	0.17	5.3	0.86	12.0	0.16	2.3	6.8	191	0.44	13.5	3.72	52	0.10	34.81	24.9	8.24	5.97	0.22
T1-1m	4/16/19	959	0.3	Flood	0.15	4.7	0.37	5.2	0.24	3.3	2.9	83	0.49	15.2	3.34	47	0.05	35.61	25.7	8.11	7.56	0.13
Geomean FY '19					0.14	4.2	0.51	7.1	0.2	3.3			0.5	14.3	4.4	61	0.09					0.18
T1-10m	9/24/18	936	0.1	Low	0.07	2.1	0.16	2.3	0.32	4.5	3.2	91	0.38	11.8	3.17	44	0.10	34.64	27.7	8.18	5.29	0.16
T1-10m	11/13/18	1024	1.6	Ebb	0.04	1.2	0.38	5.3	0.36	5.0	0.3	9	0.36	11.2	4.04	57	0.09	35.00	27.3	8.19	4.67	0.20
T1-10m	1/22/19	1013	0.5	Ebb	0.16	4.9	0.91	12.8	0.08	1.1	6.2	175	0.43	13.4	3.36	47	0.08	34.78	24.9	8.23	5.88	0.26
T1-10m	4/16/19	1006	0.3	Flood	0.14	4.2	0.27	3.8	0.25	3.5	2.1	58	0.40	12.3	4.44	62	0.05	35.65	25.7	8.10	7.27	0.09
Geomean FY '19					0.09	2.7	0.35	4.9	0.22	3.1			0.39	12.1	3.7	52	0.08					0.17
T1-50m	9/24/18	943	0.1	Low	0.10	3.1	0.16	2.3	0.33	4.6	6.6	187	0.44	13.5	4.68	66	0.11	34.61	27.7	8.18	5.29	0.21
T1-50m	11/13/18	1029	1.6	Ebb	0.05	1.5	0.41	5.7	0.25	3.5	1.7	49	0.35	10.7	3.91	55	0.10	34.98	27.3	8.20	4.65	0.20
T1-50m	1/22/19	1016	0.5	Ebb	0.10	3.1	0.19	2.6	0.04	0.5	1.6	44	0.38	11.7	2.16	30	0.06	34.80	25.0	8.22	5.70	0.36
T1-50m	4/16/19	1012	0.3	Flood	0.14	4.3	0.38	5.3	0.38	5.3	4.6	130	0.41	12.6	2.92	41	0.04	35.59	25.6	8.11	7.20	0.12
Geomean FY '19					0.09	2.8	0.26	3.6	0.18	2.6			0.39	12.1	3.3	46	0.07					0.21
T1-100m	9/24/18	952	0.1	Low	0.07	2.2	0.16	2.3	0.29	4.1	6.5	184	0.48	14.8	6.07	85	0.08	34.60	27.7	8.16	5.10	0.17
T1-100m	11/13/18	1033	1.6	Ebb	0.02	0.6	0.19	2.6	0.24	3.4	0.3	9	0.35	10.8	5.64	79	0.08	35.01	27.2	8.20	4.60	0.21
T1-100m	1/22/19	1021	0.5	Ebb	0.10	3.2	0.34	4.8	0.02	0.3	2.6	73	0.39	12.0	2.58	36	0.07	34.87	25.0	8.23	5.71	0.36
T1-100m	4/16/19	1018	0.3	Flood	0.12	3.8	0.21	2.9	0.39	5.5	1.9	53	0.40	12.4	2.10	29	0.04	35.66	25.7	8.12	7.22	0.09
Geomean FY '19					0.06	2.0	0.21	3.0	0.16	2.2			0.40	12.4	3.7	52	0.07					0.18
T1-500m	9/24/18	1004	0.1	Low	0.02	0.5	0.16	2.3	0.19	2.6	0.0	1	0.36	11.3	3.18	45	0.08	34.78	27.9	8.17	5.17	0.37
T1-500m	11/13/18	1040	1.6	Ebb	0.02	0.7	0.14	2.0	0.24	3.4	0.1	4	0.38	11.7	3.49	49	0.07	35.02	27.3	8.21	4.59	0.18
T1-500m	1/22/19	1028	0.5	Ebb	0.08	2.5	0.09	1.3	0.12	1.7	0.2	6	0.39	12.2	2.33	33	0.05	34.96	25.0	8.22	5.70	0.18
T1-500m	4/16/19	1027	0.3	Flood	0.11	3.4	0.04	0.5	0.44	6.2	1.1	31	0.38	11.8	2.62	37	0.03	35.65	25.8	8.13	7.09	0.09
Geomean FY '19					0.04	1.3	0.09	1.3	0.22	3.1			0.38	11.7	2.9	40	0.05					0.18

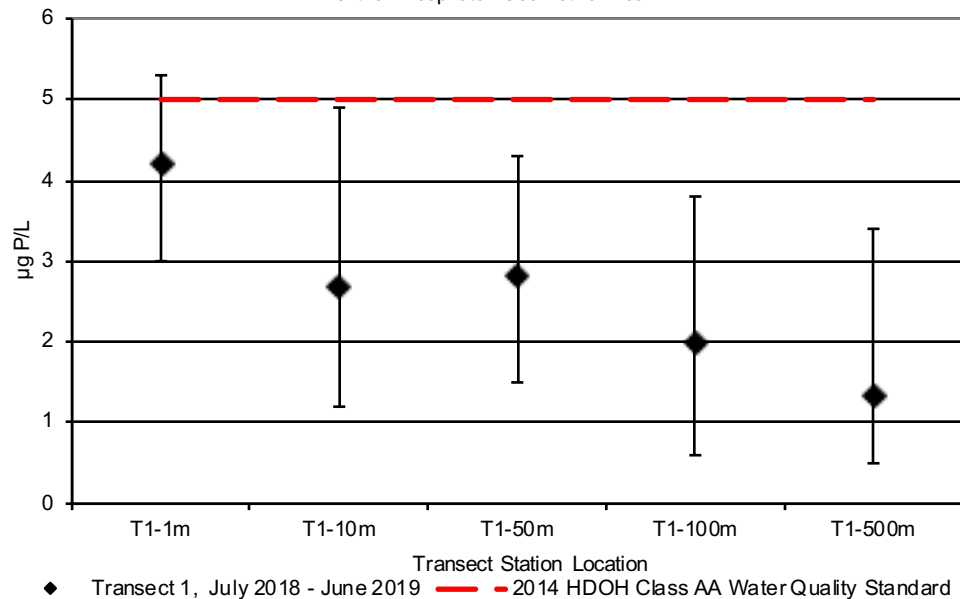
NELHA Water Quality Laboratory

Transect 1

July 2018 - June 2019

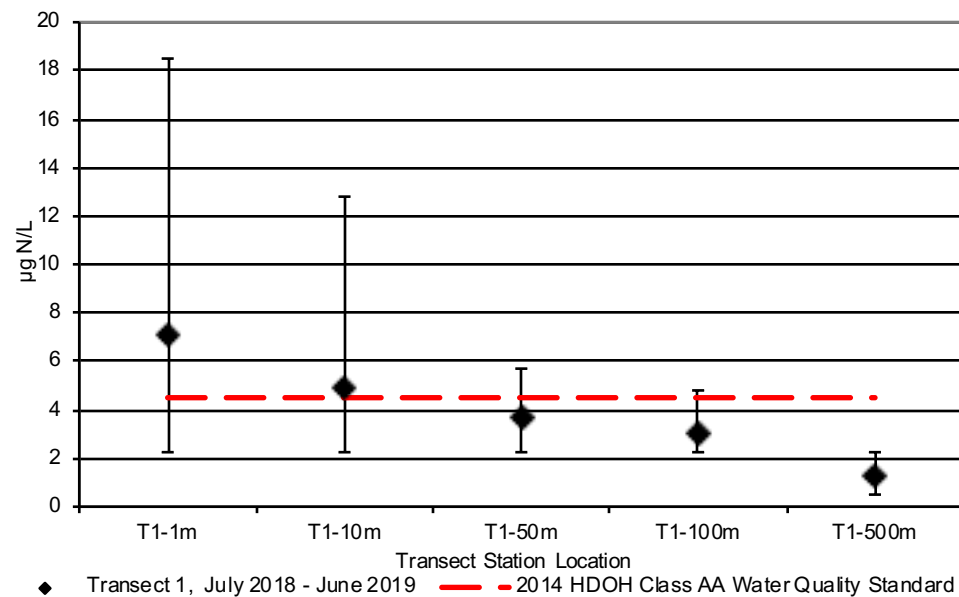
Transect 1 Station Summary

Ortho-Phosphate Geometric Mean



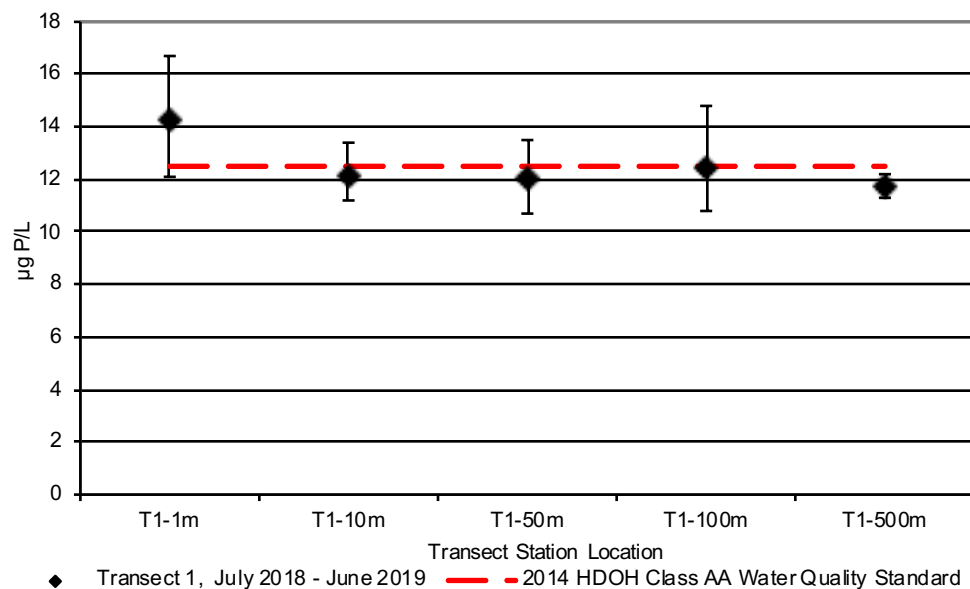
Transect 1 Station Summary

Nitrate + Nitrite Geometric Mean



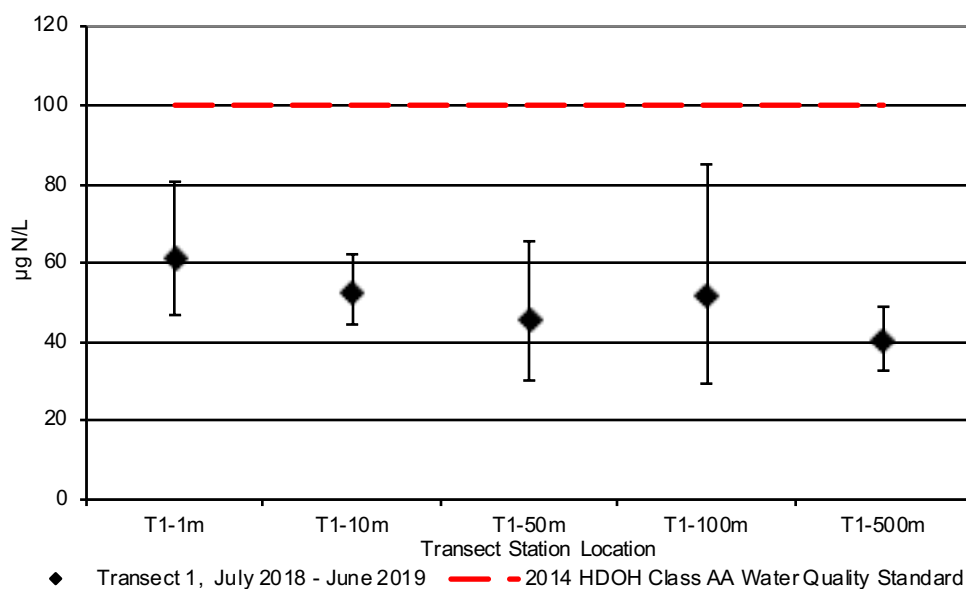
Transect 1 Station Summary

Total Dissolved Phosphorous Geometric Mean



Transect 1 Station Summary

Total Dissolved Nitrogen Geometric Mean



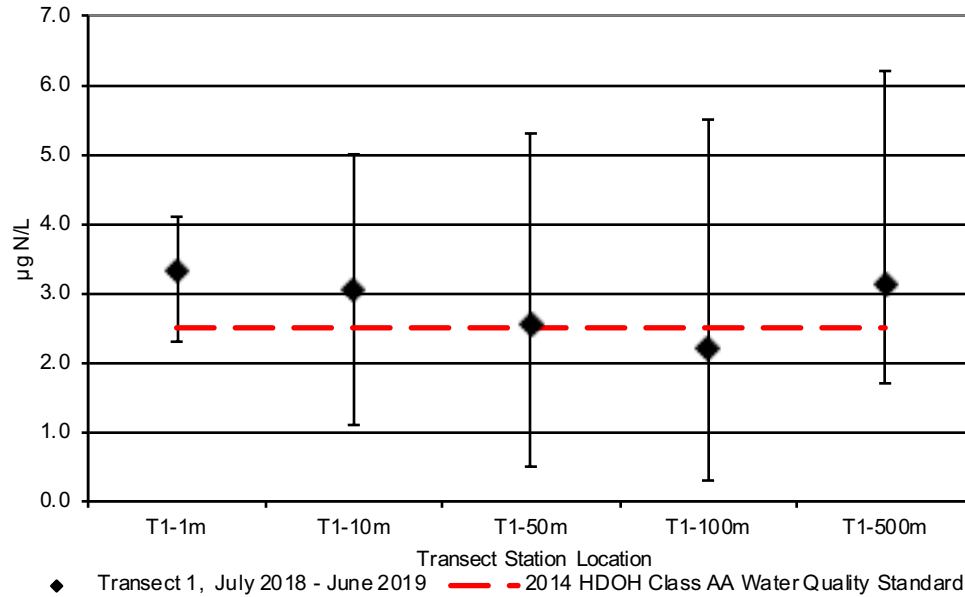
NELHA Water Quality Laboratory

Transect 1

July 2018 - June 2019

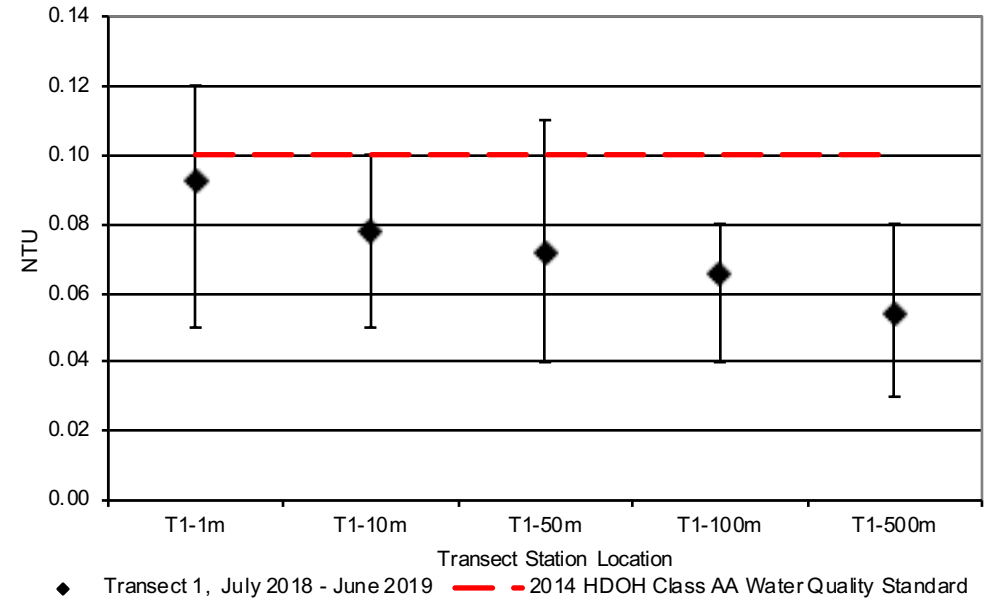
Transect 1 Station Summary

Total Ammonia Geometric Mean



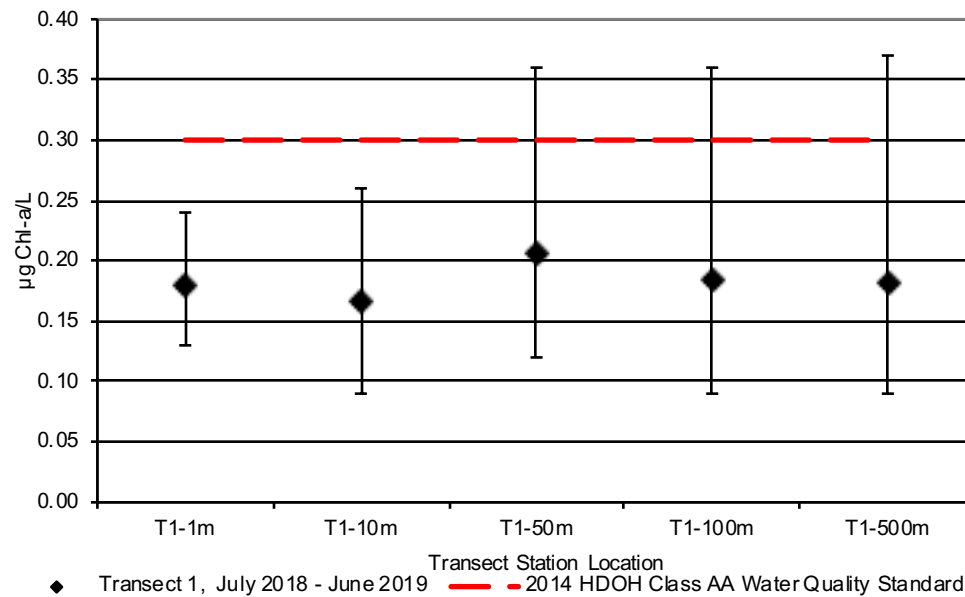
Transect 1 Station Summary

Turbidity Geometric Mean



Transect 1 Station Summary

Chlorophyll-a Geometric Mean



NELHA Water Quality Laboratory

Transect 1

July 2019 - June 2020

SITE ID	DATE	TIME	Tide		PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		Turbidity	Salinity	Temp.	pH	DO	Chl a
	M/D/Y	(2400)	(ft)	(cycle)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg N/L)	(μM)	(μg Si/L)	(μM)	(μg P/L)	(μM)	(μg N/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(μg/L)
DOH LIMIT					0.16	5	0.32	4.5	0.18	2.5			0.40	12.5	7.1	100	0.10					0.30
T1-1m	8/13/19	1140	1.0	Flood	0.04	1.2	0.16	2.3	0.35	4.9	1.1	32	0.25	7.8	2.63	37	0.09	35.69	28.4	8.20	6.81	0.24
T1-1m	11/19/19	1139	1.8	High	0.12	3.8	0.16	2.3	0.21	3.0	0.8	23	0.37	11.4	2.67	37	0.11	34.80	27.5	8.23	6.57	0.16
T1-1m	1/22/20	932	0.4	Low	0.16	5.1	0.41	5.7	0.09	1.3	3.9	108	0.45	14.0	3.98	56	0.04	34.94	25.0	8.21	6.84	0.15
T1-1m	6/24/10	1010	-0.1	Low	0.14	4.2	0.80	11.2	0.21	2.9	7.3	206	0.34	10.5	4.24	59	0.08	35.32	25.8	8.14	7.02	0.36
Geomean	FY '20				0.10	3.1	0.30	4.3	0.2	2.7			0.3	10.7	3.3	46	0.08					0.21
T1-10m	8/13/19	1144	1.0	Flood	0.03	0.9	0.16	2.3	0.30	4.2	1.1	31	0.28	8.8	1.87	26	0.09	35.70	28.3	8.21	6.52	0.22
T1-10m	11/19/19	1143	1.8	High	0.12	3.7	0.17	2.4	0.49	6.8	0.9	25	0.38	11.8	2.58	36	0.13	34.84	27.6	8.24	6.70	0.16
T1-10m	1/22/20	937	0.4	Low	0.13	3.9	0.16	2.3	0.09	1.3	1.8	52	0.39	12.0	2.86	40	0.09	34.92	25.1	8.22	6.65	0.14
T1-10m	6/24/10	1014	-0.1	Low	0.07	2.3	0.16	2.3	0.14	1.9	1.3	37	0.34	10.5	2.13	30	0.06	35.33	25.8	8.16	6.97	0.29
Geomean	FY '20				0.07548	2.3	0.16	2.3	0.20	2.9			0.35	10.7	2.3	33	0.09					0.19
T1-50m	8/13/19	1148	1.0	Flood	0.04	1.3	0.16	2.3	0.09	1.3	3.1	88	0.29	8.9	2.16	30	0.1	35.68	28.3	8.22	6.54	0.12
T1-50m	11/19/19	1146	1.8	High	0.11	3.5	0.29	4.1	0.60	8.4	1.8	50	0.38	11.7	2.59	36	0.10	34.81	27.6	8.24	6.70	0.17
T1-50m	1/22/20	943	0.4	Low	0.11	3.5	0.16	2.3	0.09	1.3	0.5	15	0.39	12.1	2.55	36	0.04	34.92	25.0	8.22	6.68	0.19
T1-50m	6/24/10	1019	-0.1	Low	0.08	2.4	0.16	2.3	0.09	1.3	1.9	55	0.36	11.0	2.43	34	0.07	35.34	25.8	8.16	6.88	0.33
Geomean	FY '20				0.08	2.5	0.19	2.6	0.15	2.0			0.35	10.9	2.4	34	0.07					0.19
T1-100m	8/13/19	1152	1.0	Flood	0.04	1.1	0.09	1.2	0.18	2.5	4.6	129	0.30	9.2	2.69	38	0.10	35.58	28.4	8.22	6.71	0.23
T1-100m	11/19/19	1151	1.8	High	0.11	3.4	0.17	2.4	0.60	8.4	0.6	16	0.40	12.5	2.27	32	0.09	34.78	27.6	8.23	6.65	0.19
T1-100m	1/22/20	949	0.4	Low	0.10	3.1	0.16	2.3	0.09	1.3	-0.2	-5	0.38	11.9	2.27	32	0.06	34.91	25.1	8.22	6.66	0.25
T1-100m	6/24/10	1023	-0.1	Low	0.08	2.4	0.16	2.3	0.09	1.3	2.4	67	0.33	10.3	2.21	31	0.07	35.28	25.8	8.16	6.84	0.32
Geomean	FY '20				0.07	2.3	0.14	2.0	0.17	2.4			0.35	10.9	2.4	33	0.08					0.24
T1-500m	8/13/19	1159	1.0	Flood	0.03	0.8	0.16	2.3	0.09	1.3	1.4	39	0.28	8.7	2.05	29	0.1	35.70	28.5	8.22	6.50	0.11
T1-500m	11/19/19	1157	1.8	High	0.09	2.8	0.06	0.8	0.74	10.3	0.3	9	0.43	13.3	2.52	35	0.08	34.87	27.7	8.24	6.39	0.14
T1-500m	1/22/20	957	0.4	Low	0.12	3.7	0.16	2.3	0.09	1.3	0.5	14	0.41	12.6	2.57	36	0.03	34.92	25.0	8.21	6.60	0.12
T1-500m	6/24/10	1030	-0.1	Low	0.08	2.5	0.16	2.3	0.04	0.6	3.4	95	0.26	8.2	2.66	37	0.06	35.26	35.9	8.15	6.74	0.39
Geomean	FY '20				0.07	2.1	0.12	1.7	0.13	1.8			0.34	10.5	2.4	34	0.06					0.16

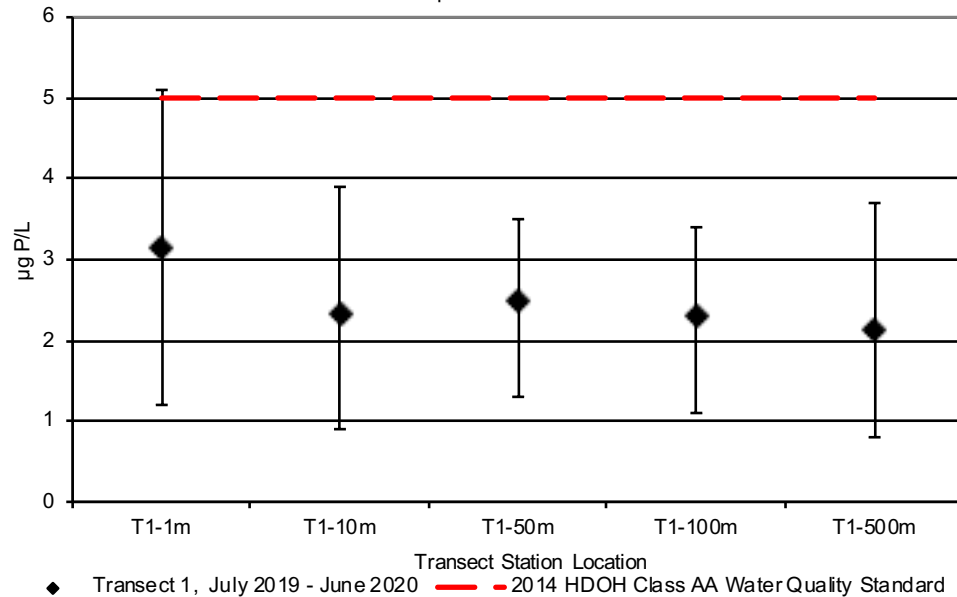
NELHA Water Quality Laboratory

Transect 1

July 2019 - June 2020

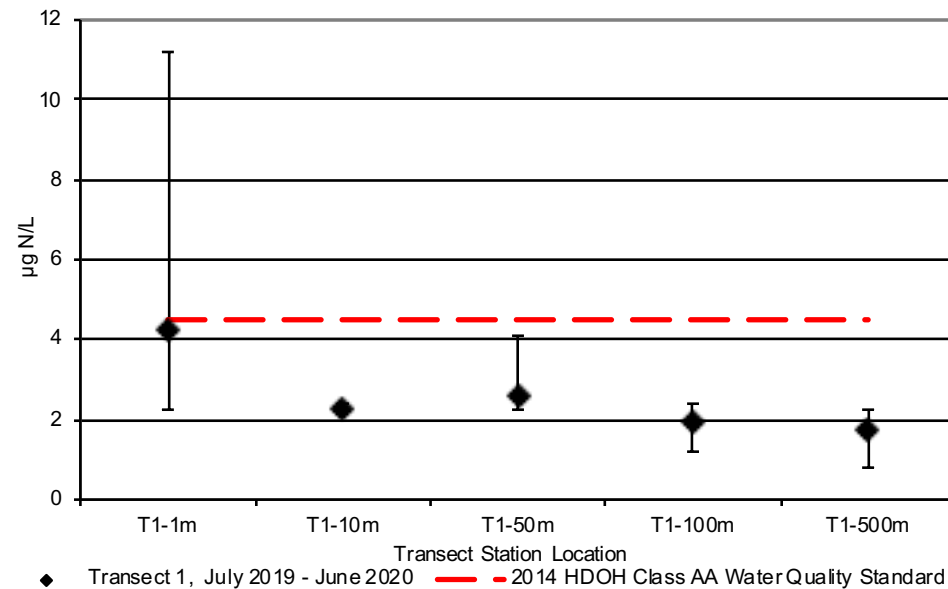
Transect 1 Station Summary

Ortho-Phosphate Geometric Mean



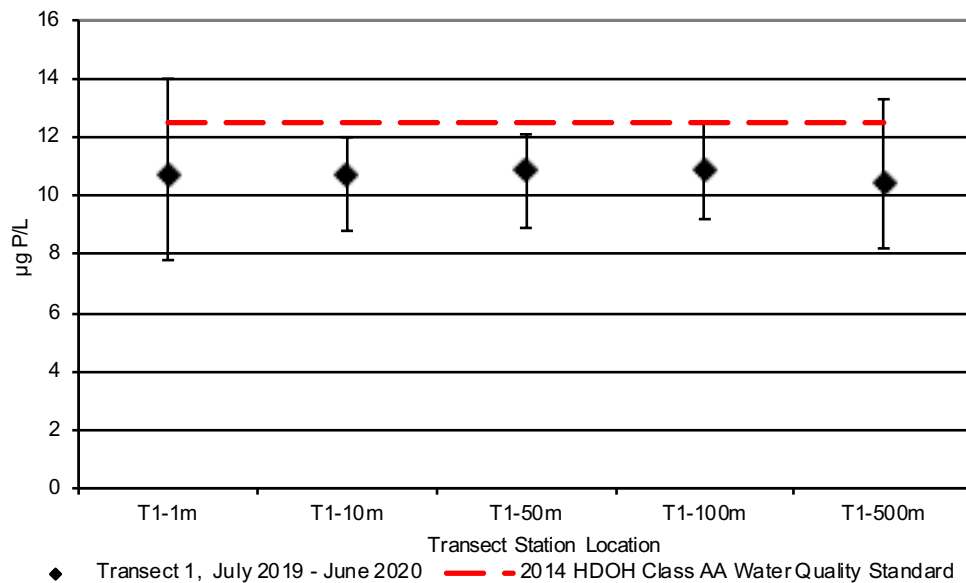
Transect 1 Station Summary

Nitrate + Nitrite Geometric Mean



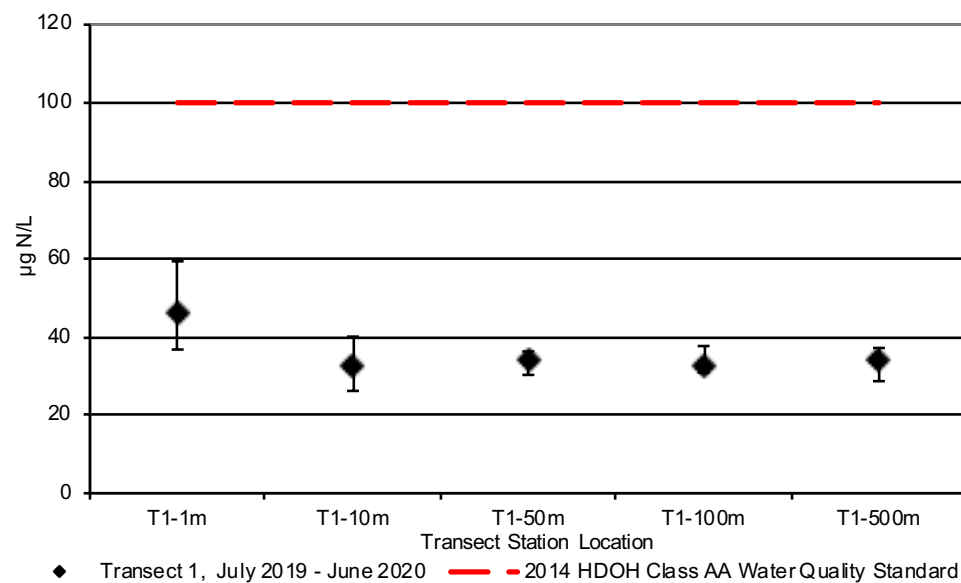
Transect 1 Station Summary

Total Dissolved Phosphorous Geometric Mean



Transect 1 Station Summary

Total Dissolved Nitrogen Geometric Mean



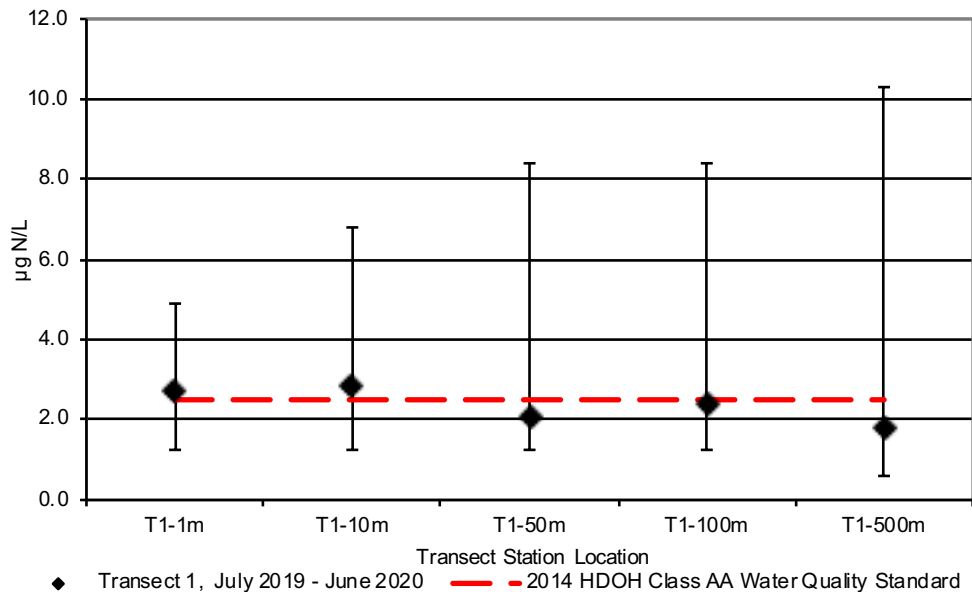
NELHA Water Quality Laboratory

Transect 1

July 2019 - June 2020

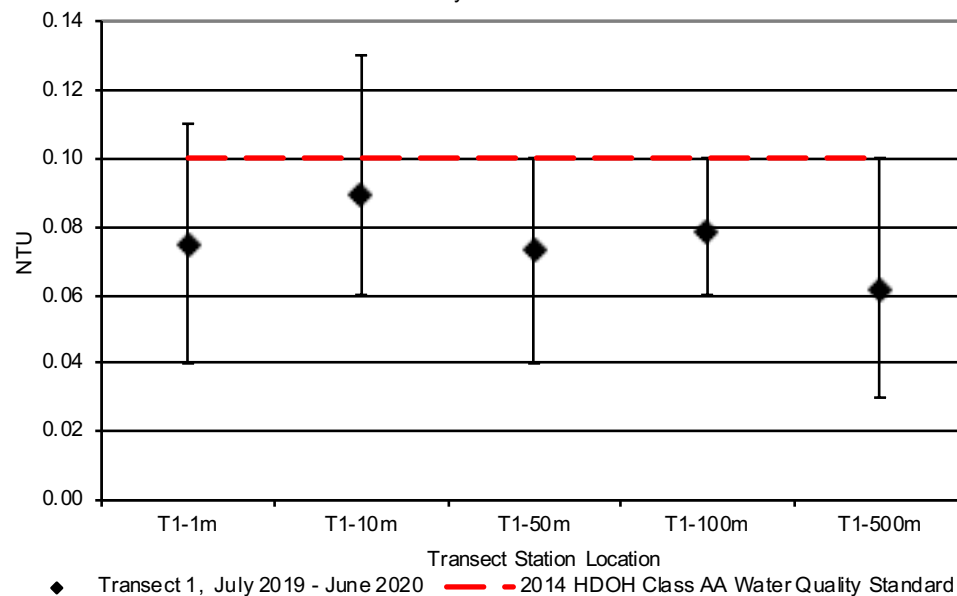
Transect 1 Station Summary

Total Ammonia Geometric Mean



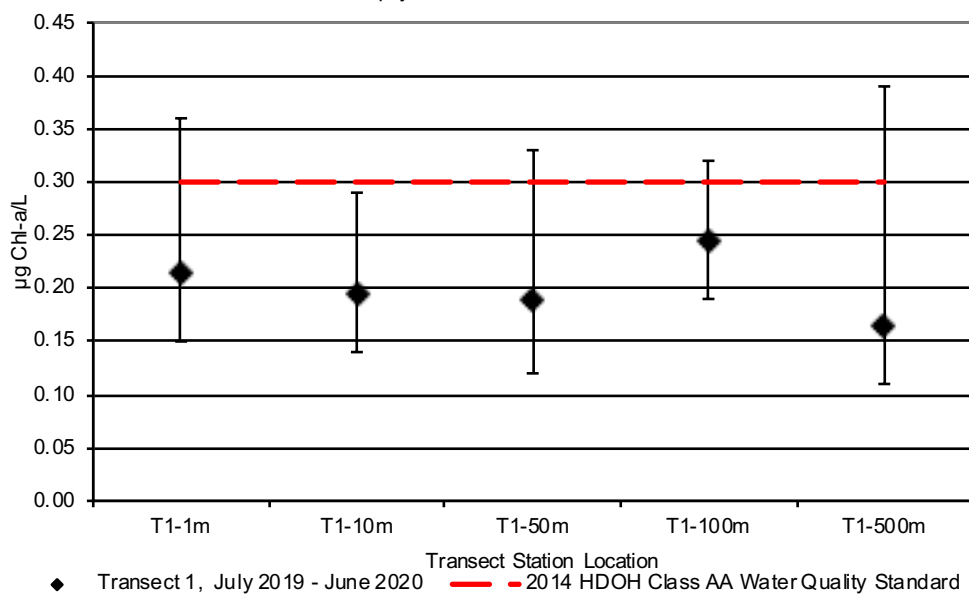
Transect 1 Station Summary

Turbidity Geometric Mean



Transect 1 Station Summary

Chlorophyll-a Geometric Mean



NELHA Water Quality Laboratory

Transect 1, Station 1

7/27/93 - 7/14/20

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		TP		TOC	Turbidity	Salinity	Temp.	pH	DO	Chl a	Fecal Coli.	Enter.
	M/D/Y	(2400)	(µM)	(µg P/L)	(µM)	(µg N/L)	(µM)	(µg N/L)	(µM)	(µg Si/L)	(µM)	(µg P/L)	(µM)	(µg N/L)	(µM)	(µg P/L)	(mgC/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(µg/L)	(Bact/100 ml)	(Bact/100 ml)
DOH LIMIT			5		4.5		2.5				12.5		100					0.10					0.30		
O1-1S-8m	7/27/93	1213	0.03	0.9	0.03	0.4	0.14	2.0	2.5	70	0.28	8.7	7.2	101	0.28	8.67	1.18	0.09	34.508	26.6	8.27	7.03	0.06	no sample	no sample
O1-1S-8m	12/7/93	1113	0.06	1.9	0.20	2.8	0.15	2.1	4.5	125	0.23	7.1	5.2	72	0.23	7.12	1.13	0.11	34.789	25.9	8.26	6.90	0.09	no sample	no sample
O1-1S-8m	3/16/94	1041	0.21	6.5	0.77	10.8	0.20	2.8	10.5	295	0.34	10.5	4.1	57	0.34	10.53	1.14	0.11	34.269	24.7	8.25	7.11	0.09	<1	<1
O1-1S-8m	6/14/94	1032	0.13	4.0	0.14	2.0	0.03	0.4	2.7	77	0.30	9.3	6.4	90	0.30	9.29	1.12	0.11	34.564	25.4	8.25	7.05	0.03	<1	<1
Geomean FY '94			2.6		2.2		1.5				8.8		78					0.10					0.06		
O1-1S-8m	9/15/94	1050	0.10	3.1	0.09	1.3	0.14	2.0	3.0	83	0.28	8.7	5.2	72	0.30	9.29	1.20	0.12	34.630	27.8	8.29	6.99	0.09	<1	<1
O1-1S-8m	11/16/94	947	0.16	5.0	0.49	6.9	0.50	7.0	6.4	180	0.36	11.2	5.3	75	0.38	11.77	1.06	0.07	34.473	26.1	8.25	6.87	0.17	1	<1
O1-1S-8m	3/21/95	1214	0.19	5.9	0.26	3.6	0.09	1.3	4.8	135	0.35	10.8	4.9	68	0.35	10.84	0.94	0.10	34.165	25.0	8.25	7.11	0.14	<1	<1
O1-1S-8m	6/26/95	959	0.13	4.0	0.33	4.6	0.45	6.3	4.7	131	0.32	9.9	6.1	85	0.32	9.91	0.98	0.07	34.492	26.7	8.23	6.94	0.12	<1	<1
Geomean FY '95			4.4		3.5		3.2				10.1		75					0.09					0.13		
O1-1S-8m	9/25/95	907	0.12	3.7	0.44	6.2	0.15	2.1	7.2	202	0.31	9.6	6.0	83	0.31	9.60	1.16	0.12	34.408	27.1	8.26	6.72	0.17	<1	<1
O1-1S-8m	11/13/95	1153	0.16	5.0	0.40	5.6	0.50	7.0	7.0	197	0.31	9.6	5.8	81	0.31	9.60	1.02	0.06	34.248	27.0	8.30	8.75	0.05	<1	<1
O1-1S-8m	3/11/96	937	0.14	4.3	0.42	5.9	0.33	4.6	3.7	103	0.35	10.8	4.8	67	0.35	10.84	1.07	0.06	34.181	25.1	8.24	7.06	0.01	<1	<1
O1-1S-8m	5/13/96	903	0.13	4.0	0.48	6.7	0.19	2.7	7.6	213	0.30	9.3	7.6	107	0.30	9.29	1.24	0.07	34.165	26.6	8.21	7.06	0.11	<1	<1
Geomean FY '96			4.2		6.1		3.7				9.8		83					0.07					0.06		
O1-1S-8m	7/30/96	815	0.14	4.3	0.86	12.0	0.16	2.2	9.4	263	0.28	8.7	5.1	72	0.28	8.67	1.00	0.13	34.289	27.9	8.23	6.59	0.08	<1	1
O1-1S-8m	10/1/96	1208	0.08	2.5	0.21	2.9	0.54	7.6	3.4	95	0.28	8.7	4.9	68	0.28	8.67	0.99	0.10	34.692	27.9	8.22	6.84	0.02	<1	<1
O1-1S-8m	1/6/97	1215	0.09	2.8	0.07	1.0	0.14	2.0	2.6	74	0.30	9.3	4.6	65	0.32	9.91	1.03	0.10	34.703	25.5	8.27	6.97	0.07	1	<1
O1-1S-8m	4/21/97	1206	0.12	3.7	0.50	7.0	0.22	3.1	2.0	56	0.36	11.2	6.0	85	0.37	11.46	1.12	0.14	34.560	26.6	8.27	6.76	0.01	<1	<1
Geomean FY '97			3.2		3.9		3.2				9.4		72					0.12					0.03		
O1-1S-8m	8/18/97	1143	0.10	3.1	0.16	2.2	0.25	3.5	4.1	116	0.34	10.5	4.3	60	0.35	10.84	1.16	0.10	34.627	27.0	8.40	6.45	0.06	<1	<1
O1-1S-8m	10/6/97	1205	0.11	3.4	0.20	2.8	0.34	4.8	31.8	892	0.36	11.2	4.5	63	0.36	11.15	1.00	0.12	34.667	27.4	8.47	6.77	0.10	<1	<1
O1-1S-8m	3/3/98	1205	0.10	3.1	0.46	6.4	0.24	3.4	4.9	136	0.34	10.5	4.8	67	0.34	10.53	0.99	0.09	34.959	25.1	8.23	7.04	0.05	<1	<1
O1-1S-8m	5/4/98	1118	0.15	4.6	1.24	17.4	0.16	2.2	13.2	371	0.43	13.3	5.6	78	0.44	13.63	0.87	0.20	34.720	23.8	8.24	7.24	0.11	<1	<1
Geomean FY '98			3.5		5.1		3.3				11.3		67					0.12					0.08		
O1-1S-8m	7/6/98	1220	0.10	3.1	0.14	2.0	0.10	1.4	3.5	99	0.36	11.2	5.3	75	0.37	11.46	1.07	0.08	35.020	26.4	8.24	7.17	0.17	<1	<1
O1-1S-8m	10/5/98	1149	0.10	3.1	0.50	7.0	0.14	2.0	6.6	184	0.40	12.4	6.7	94	0.40	12.39	1.10	0.08	35.020	27.4	8.23	7.28	0.07	<1	<1
O1-1S-8m	1/13/99	1157	0.11	3.4	0.45	6.3	0.10	1.4	4.8	135	0.35	10.8	5.4	75	0.36	11.15	1.13	0.10	35.027	25.2	8.24	7.11	0.06	<1	<1
O1-1S-8m	4/12/99	927	0.14	4.3	0.52	7.3	0.11	1.5	6.9	194	0.39	12.1	6.0	84	0.40	12.39	1.11	0.12	34.606	24.1	8.21	7.09	0.12	<1	<1
Geomean FY '99			3.5		5.0		1.6				11.6		81					0.09					0.10		

NELHA Water Quality Laboratory

Transect 1, Station 1

7/27/93 - 7/14/20

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		TP		TOC	Turbidity	Salinity	Temp.	pH	DO	Chl a	Fecal Coli.	Enter.
	M/D/Y	(2400)	(µM)	(µg P/L)	(µM)	(µg N/L)	(µM)	(µg N/L)	(µM)	(µg Si/L)	(µM)	(µg P/L)	(µM)	(µg N/L)	(µM)	(µg P/L)	(mgC/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(µg/L)	(Bact/100 ml)	(Bact/100 ml)
DOH LIMIT			5		4.5		2.5				12.5		100					0.10					0.30		
O1-1S-8m	7/6/99	930	0.11	3.4	0.13	1.8	0.06	0.8	2.6	72	0.34	10.5	4.7	66	0.34	10.53	1.00	0.08	34.942	25.6	8.20	6.77	0.17	29	<1
O1-1S-8m	10/4/99	1021	0.17	5.3	0.61	8.5	0.16	2.2	8.5	239	0.35	10.8	5.1	72	0.35	10.84	0.99	0.12	34.794	25.9	8.26	7.00	0.06	<1	<1
O1-1S-8m	1/4/00	1213	0.11	3.4	0.60	8.4	0.37	5.2	13.2	371	0.35	10.8	5.6	79	0.35	10.84	0.98	0.08	35.050	24.7	8.23	7.11	0.13	<1	<1
O1-1S-8m	4/17/00	1004	0.15	4.6	0.28	3.9	0.02	0.3	4.8	134	0.35	10.8	7.1	99	0.36	11.15	1.02	0.10	34.592	24.3	8.26	7.05	0.11	<1	<1
Geomean FY '00			4.1		4.8		1.3				10.8		78					0.09					0.11		
O1-1S-8m	7/24/00	1234	0.12	3.7	0.10	1.4	0.01	0.1	6.4	180	0.35	10.8	5.8	81	0.36	11.15	1.02	0.08	34.770	27.2	8.28	6.95	0.11	<1	<1
O1-1S-8m	10/30/00	1256	0.14	4.3	0.28	3.9	0.31	4.3	6.1	172	0.34	10.5	5.1	71	0.35	10.84	1.13	0.08	34.907	27.3	8.24	6.64	0.24	<1	<1
O1-1S-8m	2/26/01	1233	0.19	5.9	0.84	11.8	0.16	2.2	12.2	343	0.38	11.8	5.9	82	0.39	12.08	1.04	0.09	34.476	24.9	8.22	6.83	0.09	<1	<1
O1-1S-8m	5/7/01	1019	0.17	5.3	1.04	14.6	0.35	4.9	10.9	306	0.40	12.4	5.4	76	0.41	12.70	0.99	0.12	34.698	24.6	8.20	7.29	0.10	<1	<1
Geomean FY '01			4.7		5.5		1.6				11.4		77					0.09					0.12		
O1-1S-8m	8/21/01	1201	0.17	5.3	0.63	8.8	0.03	0.4	6.2	174	0.35	10.8	5.9	82	0.35	10.84	1.05	0.12	34.688	26.8	8.23	7.18	0.12	<1	<1
O1-1S-8m	10/8/01	950	0.12	3.7	0.09	1.3	0.05	0.7	2.5	70	0.37	11.5	6.0	84	0.37	11.46	1.10	0.12	34.938	27.2	8.21	6.72	0.09	<1	<1
O1-1S-8m	3/5/02	1108	0.17	5.3	0.71	9.9	0.09	1.3	8.5	238	0.38	11.8	6.9	96	0.39	12.08	0.95	0.16	34.630	24.3	8.23	6.88	0.16	<1	1
O1-1S-8m	4/17/02	1126	0.12	3.7	0.69	9.7	0.24	3.4	6.4	180	0.40	12.4	6.0	84	0.42	13.01	1.00	0.08	34.372	25.7	8.21	6.75	0.14	<1	<1
Geomean FY '02			4.4		5.7		1.1				11.6		87					0.12					0.12		
O1-1S-8m	7/8/02	1020	0.15	4.6	0.05	0.7	0.11	1.5	3.5	99	0.44	13.6	6.5	91	0.44	13.63	1.06	0.08	34.645	26.5	8.22	6.81	0.18	1	<1
O1-1S-8m	10/9/02	1109	0.08	2.5	0.66	9.2	0.09	1.3	6.0	168	0.31	9.6	6.1	86	0.31	9.60	0.95	0.12	34.876	27.0	8.26	6.82	0.10	<1	<1
O1-1S-8m	3/11/03	1004	0.12	3.7	0.64	9.0	0.04	0.6	5.0	139	0.34	10.5	6.2	87	0.36	11.15	0.99	0.22	34.880	24.5	8.24	7.04	0.17	<1	1
O1-1S-8m	4/22/03	1100	0.10	3.1	0.32	4.5	0.07	1.0	2.9	81	0.33	10.2	5.2	73	0.36	11.15	1.03	0.06	35.018	25.1	8.26	7.06	0.08	<1	<1
Geomean FY '03			3.4		4.0		1.0				10.9		84					0.11					0.13		
O1-1S-8m	8/18/03	1300	0.07	2.2	0.34	4.8	0.30	4.2	6.2	173	0.38	11.8	7.5	105	0.38	11.77	n/a	0.10	34.869	28.1	8.24	6.82	0.05	<1	<1
O1-1S-8m	10/29/03	1048	0.09	2.8	0.07	1.0	0.18	2.5	3.1	86	0.36	11.2	4.2	58	0.39	12.08	n/a	0.11	34.836	27.6	8.21	n/a	0.16	<1	<1
O1-1S-8m	3/11/04	950	0.16	5.0	0.41	5.7	0.20	2.8	2.9	81	0.41	12.7	5.2	72	0.40	12.39	n/a	n/a	34.291	25.6	8.25	6.24	0.17	<1	<1
O1-1S-8m	5/20/04	930	0.12	3.7	0.08	1.1	0.18	2.5	4.2	118	0.34	10.5	5.6	78	0.36	11.15	n/a	n/a	33.51	26.5	8.23	6.82	0.01	<1	<1
Geomean FY '04			3.2		2.3		2.9				11.5		77					0.10					0.06		
O1-1S-8m	9/20/04	935	0.09	2.8	0.05	0.7	0.19	2.7	3.1	86	0.34	10.5	5.9	82	0.34	10.53	n/a	0.18	33.72	27.7	8.24	6.60	0.11	<1	<1
O1-1S-8m	11/17/04	906	0.11	3.4	0.17	2.4	0.26	3.6	2.3	65	0.36	11.2	5.8	81	0.35	10.84	n/a	0.08	33.60	27.1	8.27	6.59	0.03	<1	<1
O1-1S-8m	1/13/05	1030	0.07	2.2	0.21	2.9	0.08	1.1	3.6	102	0.27	8.4	4.1	57	0.28	8.67	n/a	0.06	35.852	25.2	8.33	6.78	0.09	<1	<1
O1-1S-8m	4/11/05	1026	0.24	7.4	1.54	21.6	0.28	3.9	11.2	315	0.41	12.7	6.3	88	0.42	13.01	n/a	0.12	34.232	25.2	8.30	7.08	0.08	<1	1
Geomean FY '05			3.5		3.2		2.6				10.6		76					0.10					0.07		

NELHA Water Quality Laboratory

Transect 1, Station 1

7/27/93 - 7/14/20

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		TP		TOC	Turbidity	Salinity	Temp.	pH	DO	Chl a	Fecal Coli.	Enteroc.
	M/D/Y	(2400)	(µM)	(µg P/L)	(µM)	(µg N/L)	(µM)	(µg N/L)	(µM)	(µg Si/L)	(µM)	(µg P/L)	(µM)	(µg N/L)	(µM)	(µg P/L)	(mgC/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(µg/L)	(Bact/100 ml)	(Bact/100 ml)
DOH LIMIT			5		4.5		2.5				12.5		100					0.10					0.30		
O1-1S-8m	7/20/05	1012	0.06	1.9	0.02	0.3	0.32	4.5	1.4	39	0.35	10.8	4.4	61	0.35	10.84	n/a	0.08	34.756	26.6	8.25	6.67	0.01	<1	<1
O1-1S-8m	10/11/05	900	0.06	1.9	0.07	1.0	0.08	1.1	4.0	113	0.31	9.6	3.6	51	0.31	9.60	1.26	0.17	34.938	26.5	8.28	6.64	0.12	<1	1
O1-1S-8m	3/13/06	944	0.26	8.1	3.20	44.8	0.28	3.9	20.3	571	0.55	17.0	8.7	122	0.54	16.73	n/a	0.19	34.266	24.4	8.28	7.23	0.12	<1	<1
O1-1S-8m	5/15/06	943	0.42	13.0	5.14	72.0	0.67	9.4	39.3	1103	0.76	23.5	10.2	143	0.89	27.57	1.12	0.24	33.529	25.0	8.26	7.12	0.84	<1	<1
Geomean FY '06			4.4		5.5		3.7				14.3		86					0.16					0.10		
O1-1S-8m	8/14/06	937	0.15	4.6	0.40	5.6	0.32	4.5	4.5	125	0.44	13.6	5.8	81	0.41	12.70	1.10	0.13	34.545	26.5	8.26	7.19	0.08	<1	<1
O1-1S-8m	11/1/06	943	0.17	5.3	0.99	13.9	0.88	12.3	9.9	279	0.37	11.5	7.1	99	0.43	13.32	1.30	0.22	34.598	26.8	8.27	7.12	0.23	<1	<1
O1-1S-8m	2/12/07	1005	0.17	5.3	0.97	13.6	0.46	6.4	7.3	205	0.41	12.7	6.3	88	0.41	12.70	1.13	0.44	34.414	24.5	8.23	6.81	0.19	<1	<1
O1-1S-8m	4/9/07	938	0.13	4.0	0.15	2.1	0.39	5.5	5.2	145	0.36	11.2	4.8	67	0.54	16.73	0.98	0.49	34.658	25.1	8.21	6.62	0.02	<1	<1
Geomean FY '07			4.8		6.9		6.6				12.2		83					0.28					0.09		
T1-1m	9/26/07	855	0.19	6.0	0.81	11.3	0.34	4.7	9.3	260	0.43	13.4	7.0	98				0.08	34.750	26.8	8.10	6.12	0.12		
T1-1m	12/13/07	1030	0.06	1.9	0.61	8.6			6.8	190	0.43	13.4	7.0	99				0.19	34.672	25.7	8.36	6.43	0.23		
T1-1m	3/10/08	930	0.02	0.7	0.26	3.7			3.4	96	0.41	12.6	7.9	111				0.09	34.893	24.9	8.09	6.51	0.24		
T1-1m	6/5/08	941	0.12	3.8	0.19	2.7			12.6	354	0.30	9.3	11.9	167				0.1	34.817	24.9	8.09	6.81	0.21		
Geomean FY '08			2.3		5.6		2.0				12.0		115					0.11					0.19		
T1-1m	9/22/08	1037	0.07	2.1	0.09	1.3	0.41	5.8	2.1	59	0.32	9.9	5.4	76				0.10	34.750	26.6	7.95	6.68	0.02		
T1-1m	11/17/08	916	0.13	4.1	0.23	3.2	0.28	3.9	2.7	75	0.29	8.9	4.1	58				0.15	34.950	25.7	8.10	5.39	0.02		
T1-1m	2/9/09	913	0.19	6	0.30	4.2	0.12	1.7	2.1	60	0.32	9.8	4.6	65				0.27	34.961	24.9	8.06	6.28	0.01		
T1-1m	4/13/09	907	0.29	9	0.36	5.1	0.33	4.6	3.7	105	0.60	18.7	5.7	80				0.20	34.958	23.9	8.05	6.06	0.05		
Geomean FY '09			4.6		3.1		3.6				11.3		69					0.17					0.02		
T1-1m	9/9/09	856	0.35	10.7	0.36	5.1	0.16	2.2	9.8	276	0.65	20	7.2	101				0.11	35.08	26.8	8.22	6.01	0.06		
T1-1m	11/23/09	928	0.02	0.76	0.33	4.6	0.04	0.6	33.5	940	0.31	9.7	6.4	90				0.08	35.17	25.3	8.25	6.13	0.18		
T1-1m	2/23/10	928	0.16	5.1	0.44	6.1	0.39	5.5	42.7	1199	0.35	10.8	5.1	71				0.10	35.03	24.6	8.21	6.23	0.32		
T1-1m	5/25/10	1056	0.05	1.5	0.12	1.7	0.12	1.7	10.3	290	0.58	18.1	6.2	87				0.08	34.96	25.1	8.25	7.01	0.09		
Geomean FY '10			2.8		3.9		1.9				14.0		87					0.09					0.13		
T1-1m	8/10/10	937	0.03	0.9	0.49	6.8	0.26	3.7	5.8	164	0.29	8.9	3.3	46				0.08	34.84	25.96	8.24	6.45	0.07		
T1-1m	11/8/10	927	0.02	0.76	0.29	4	0.16	2.2	5.3	149	0.38	11.7	4.7	65				0.18	35.25	26.42	8.24	6.18	0.04		
T1-1m	1/11/11	935	0.13	4.1	0.21	2.9	0.03	0.4	3.3	93	0.44	13.5	3.9	55				0.09	35.01	24.98	8.21	6.42	0.08		
T1-1m	4/26/11	935	0.18	5.5	0.35	4.9	0.14	1.9	6.8	192	0.48	14.9	3.5	49				0.08	34.95	25.06	8.23	6.46	0.14		
Geomean FY '11			2.0		4.4		1.6				12.0		53					0.10					0.07		

NELHA Water Quality Laboratory

Transect 1, Station 1

7/27/93 - 7/14/20

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		TP		TOC	Turbidity	Salinity	Temp.	pH	DO	Chl a	Fecal Coli.	Entero.
	M/D/Y	(2400)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg N/L)	(μM)	(μg Si/L)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg P/L)	(mgC/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(μg/L)	(Bact/100 ml)	(Bact/100 ml)
DOH LIMIT			5		4.5		2.5				12.5		100					0.10					0.30		
T1-1m	7/26/11	944	0.21	6.4	0.38	5.3	0.10	1.4	2.8	80	0.52	16.1	4.1	58				0.05	34.76	25.86	8.25	6.36	0.09		
T1-1m	10/18/11	927	0.04	1.1	0.29	4.1	0.26	3.7	2.3	64	0.30	9.4	5.6	79				0.09	35.04	26.51	8.19	6.45	0.11		
T1-1m	1/25/12	949	0.11	3.4	0.26	3.6	0.08	1.1	3.1	86	0.42	13.1	4.7	66				0.10	35.00	24.65	8.18	6.72	0.11		
T1-1m	4/24/12	1014	0.14	4.3	0.24	3.4	0.29	4.1	2.6	73	0.43	13.2	3.5	50				0.11	35.10	24.71	8.20	6.56	0.13		
Geomean FY '12			3.2		4.0		2.2				12.7		62					0.08					0.11		
T1-1m	7/24/12	929	0.04	1.1	0.24	3.3	0.19	2.6	1.1	32	0.67	20.8	7.3	103				0.08	35.08	26.33	8.22	6.87	0.04		
T1-1m	11/27/12	931	0.12	3.7	1.05	14.7	0.37	5.2	7.9	221	0.45	13.9	5.7	80				0.07	35.04	25.00	8.20	6.83	0.30		
T1-1m	1/24/13	938	0.10	3.1	0.24	3.3	0.31	4.3	2.0	55	0.43	13.4	7.2	101				0.08	35.02	24.65	8.21	6.40	0.09		
T1-1m	4/16/13	939	0.17	5.3	0.40	5.6	0.08	1.1	1.0	27	0.50	15.4	6.3	89				0.07	35.15	24.87	8.21	7.04	0.08		
Geomean FY '13			2.9		5.5		2.8				15.6		93					0.07					0.10		
T1-1m	8/1/13	850	0.08	2.4	0.29	4.1	0.24	3.3	5.0	142	0.43	13.3	5.1	71				0.10	35.08	26.1	8.23	6.76	0.13		
T1-1m	10/29/13	928	0.10	3.1	0.35	4.9	0.36	5.0	2.5	70	0.55	16.9	9.3	130				0.04	35.28	27.0	8.25	6.21	0.17		
T1-1m	2/4/14	928	0.13	4.1	0.47	6.6	1.09	15.2	3.5	97	0.44	13.5	8.9	125				0.02	34.91	25.2	8.22	6.33	0.15		
T1-1m	5/6/14	923	0.17	5.4	0.50	7.0	0.39	5.5	3.7	105	0.51	15.7	9.2	129				0.09	34.69	25.8	8.21	6.59	0.16		
Geomean FY '14			3.6		5.5		6.1				14.8		110					0.05					0.15		
T1-1m	8/5/14	942	0.21	6.5	0.26	3.6	0.51	7.2	1.4	39	0.42	13.0	9.3	130				0.10	34.98	26.8	8.20	6.28	0.17		
T1-1m	11/17/14	1120	0.17	5.2	0.19	2.7	0.31	4.3	0.1	3	0.55	16.9	9.3	130				0.14	35.02	27.0	8.21	7.00	0.10		
T1-1m	3/3/15	931	0.08	2.5	0.86	12.1	0.31	4.3	4.1	116	0.36	11.2	7.7	108				0.09	34.78	25.5	8.15	6.85	0.18		
T1-1m	6/16/15	1037	0.17	5.4	1.32	18.5	0.65	9.1	8.0	226	0.29	9.1	7.6	106				0.08	33.88	26.4	8.21	6.33	0.20		
Geomean FY '15			4.6		6.8		5.9				12.2		118					0.10					0.16		
T1-1m	8/26/15	1138	0.16	4.9	0.24	3.4	0.31	4.3	7.1	200	0.27	8.5	5.4	75				0.05	34.48	28.4	8.20	6.06	0.35		
T1-1m	11/17/15	938	0.18	5.6	0.42	5.9	0.16	2.3	6.2	174	0.54	16.8	5.5	77				0.07	33.81	27.4	8.21	6.53	0.20		
T1-1m	3/1/16	938	0.13	4.1	0.12	1.7	0.39	5.4	0.6	18	0.52	16.2	7.1	100				0.08	34.75	25.4	8.27	5.82	0.07		
T1-1m	5/3/16	914	0.15	4.7	0.64	8.9	0.24	3.4	4.6	129	0.40	12.3	9.9	138				0.08	34.52	25.5	8.34	6.38	0.22		
Geomean FY '16			4.8		4.2		3.7				13.0		94					0.07					0		
T1-1m	7/6/16	942	0.15	4.7	0.29	4.0	0.34	4.7	5.1	143	0.56	17.2	7.2	101				0.12	34.54	26.8	8.28	6.68	0.24		
T1-1m	12/20/16	935	0.04	1.2	0.28	3.9	0.05	0.7	2.2	62	0.34	10.6	3.5	49				0.06	34.69	25.6	8.22	5.78	0.33		
T1-1m	2/28/17	847	0.01	0.4	0.19	2.7	0.04	0.6	0.5	15	0.32	9.9	4.5	63				0.11	34.64	24.7	8.21	8.74	0.11		
T1-1m	5/9/17	1004	0.01	0.2	0.66	9.3	0.16	2.2	3.2	91	0.27	8.3	3.8	54				0.15	34.60	25.8	8.19	4.82	0.10		
Geomean FY '17			0.8		4.4		1.4				11.1		64					0.10					0		

NELHA Water Quality Laboratory

Transect 1, Station 1

7/27/93 - 7/14/20

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		TP		TOC	Turbidity	Salinity	Temp.	pH	DO	Chl a	Fecal Coli.	Entero.
	M/D/Y	(2400)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg N/L)	(μM)	(μg Si/L)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg P/L)	(mgC/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(μg/L)	(Bact/100 ml)	(Bact/100 ml)
DOH LIMIT			5		4.5		2.5				12.5		100					0.10					0.30		
T1-1m	9/27/17	939	0.16	4.9	0.29	4.1	0.26	3.7	1.0	28	0.41	12.8	3.3	47				0.10	34.74	27.8	8.25	4.67	0.13		
T1-1m	11/28/17	1026	0.13	4.0	0.44	6.1	0.56	7.8	3.4	96	0.42	12.9	5.5	77				0.11	35.05	26.1	8.16	5.09	0.21		
T1-1m	1/30/18	1008	0.11	3.3	0.24	3.3	0.17	2.4	2.4	66	0.36	11.3	3.7	52				0.10	34.81	24.6	8.16	5.58	0.27		
T1-1m	5/16/18	1011	0.14	4.4	0.72	10.1	0.14	2.0	7.4	207	0.40	12.4	4.0	56				0.02	34.70	25.5	8.14	6.21	0.14		
Geomean	FY '18		4.1		5.4		3.4				12.3		57					0.07					0		
T1-1m	9/24/18	927	0.10	3.0	0.16	2.3	0.28	3.9	4.2	119	0.39	12.1	5.1	72				0.12	34.52	27.7	8.19	5.33	0.15		
T1-1m	11/13/18	1021	0.13	4.1	1.32	18.5	0.29	4.1	5.1	143	0.54	16.7	5.8	81				0.12	34.86	27.3	8.22	5.06	0.24		
T1-1m	1/22/19	1009	0.17	5.3	0.86	12.0	0.16	2.3	6.8	191	0.44	13.5	3.7	52				0.10	34.81	24.9	8.24	5.97	0.22		
T1-1m	4/16/19	959	0.15	4.7	0.37	5.2	0.24	3.3	2.9	83	0.49	15.2	3.3	47				0.05	35.61	25.7	8.11	7.56	0.13		
Geomean	FY '19		4.2		7.1		3.3				14.3		61					0.09					0		
T1-1m	8/13/19	1140	0.04	1.2	0.16	2.3	0.35	4.9	1.1	32	0.25	7.8	2.6	37				0.09	35.69	28.4	8.20	6.81	0.24		
T1-1m	11/19/19	1139	0.12	3.8	0.16	2.3	0.21	3.0	0.8	23	0.37	11.4	2.7	37				0.11	34.80	27.5	8.23	6.57	0.16		
T1-1m	1/22/20	932	0.16	5.1	0.41	5.7	0.09	1.3	3.9	108	0.45	14.0	4.0	56				0.04	34.94	25.0	8.21	6.84	0.15		
T1-1m	6/24/20	1010	0.14	4.2	0.80	11.2	0.21	2.9	7.3	206	0.34	10.5	4.2	59				0.08	35.32	25.8	8.14	7.02	0.36		
Geomean	FY '20		3.1		4.3		2.7				10.7		46					0.08					0		

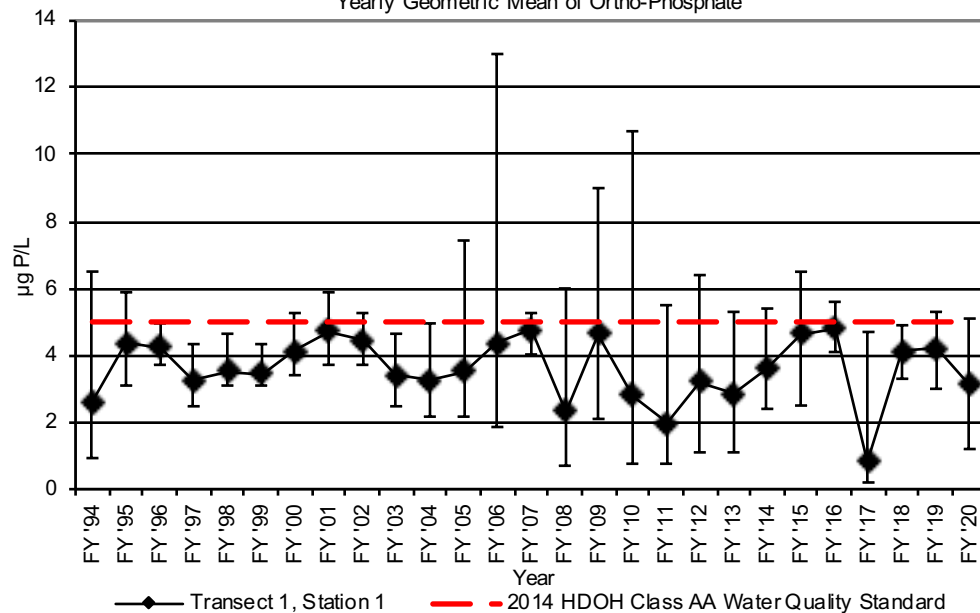
NELHA Water Quality Laboratory

Transect 1, Station 1

7/27/93 - 7/14/20

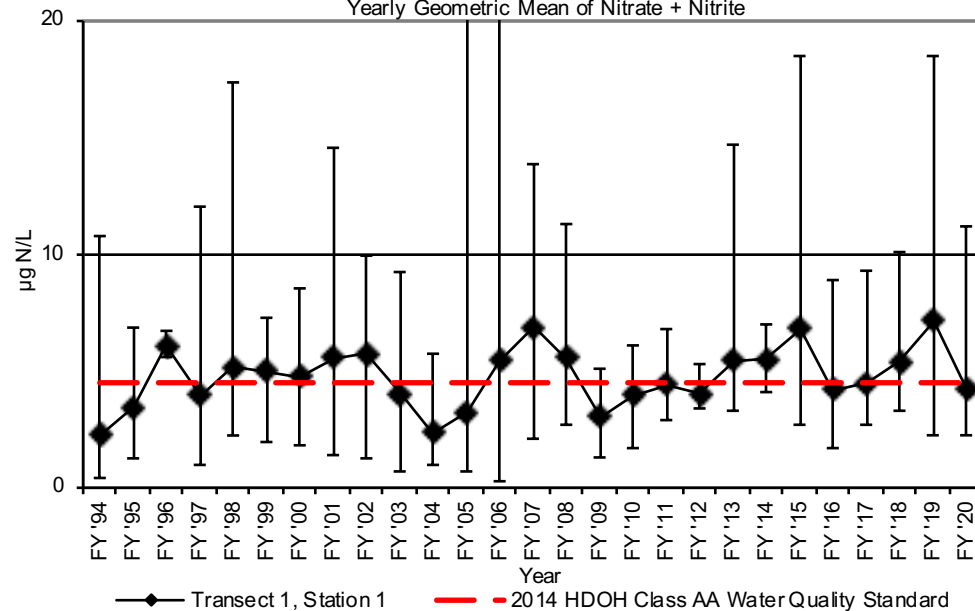
NELHA Offshore Transect 1, Station 1

Yearly Geometric Mean of Ortho-Phosphate



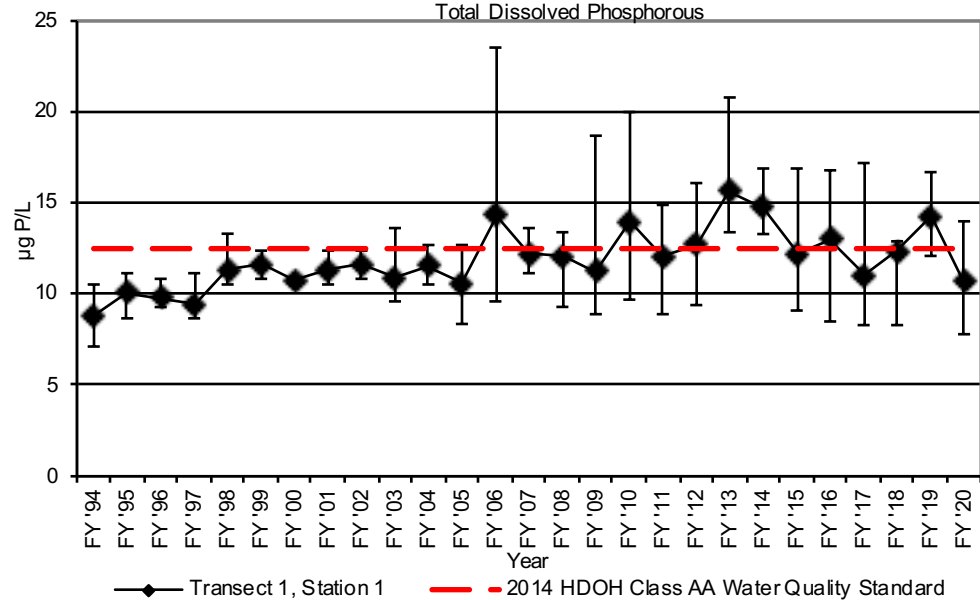
NELHA Offshore Transect 1, Station 1

Yearly Geometric Mean of Nitrate + Nitrite



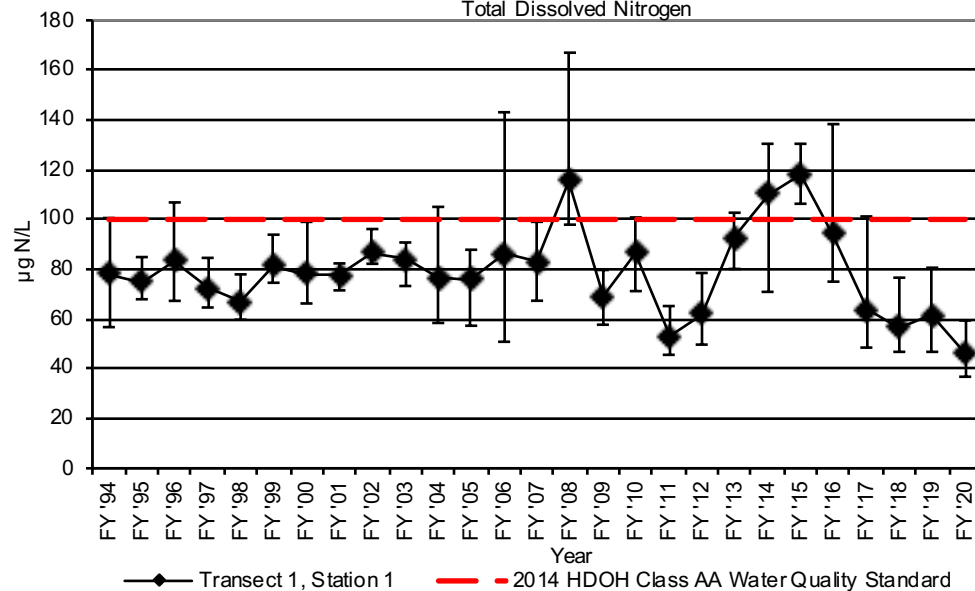
NELHA Offshore Transect 1, Station 1

Yearly Geometric Mean of
Total Dissolved Phosphorous



NELHA Offshore Transect 1, Station 1

Yearly Geometric Mean of
Total Dissolved Nitrogen



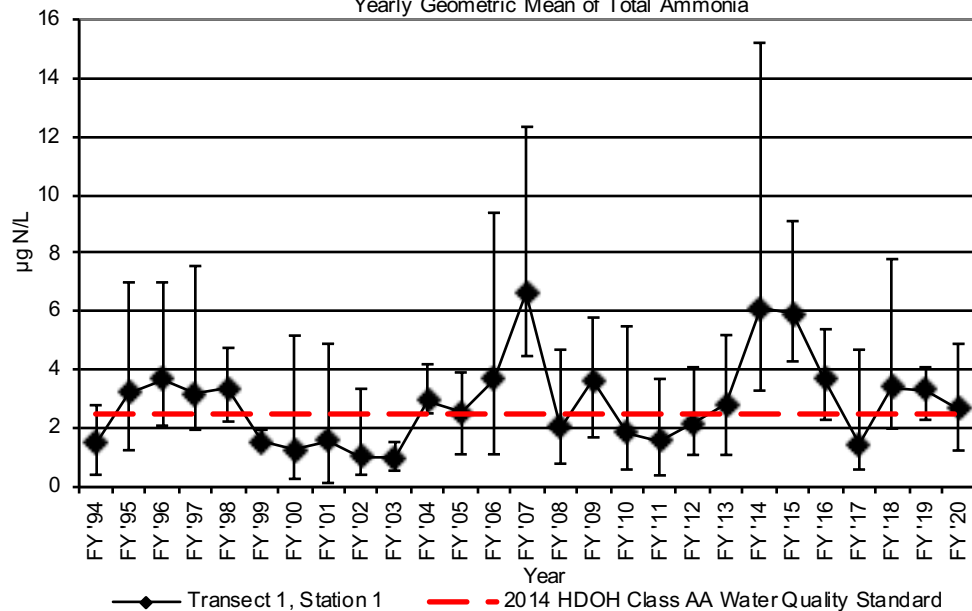
NELHA Water Quality Laboratory

Transect 1, Station 1

7/27/93 - 7/14/20

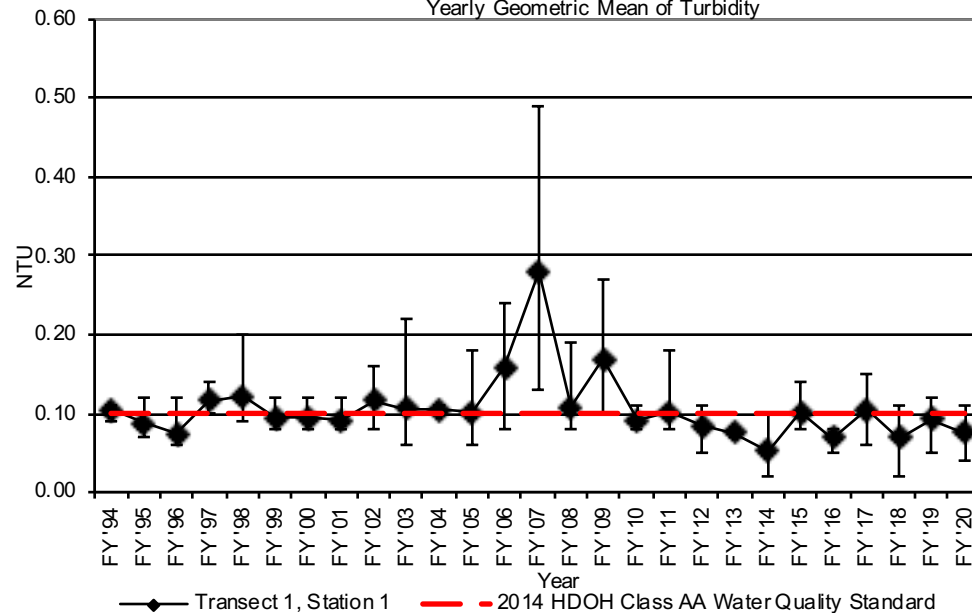
NELHA Offshore Transect 1, Station 1

Yearly Geometric Mean of Total Ammonia



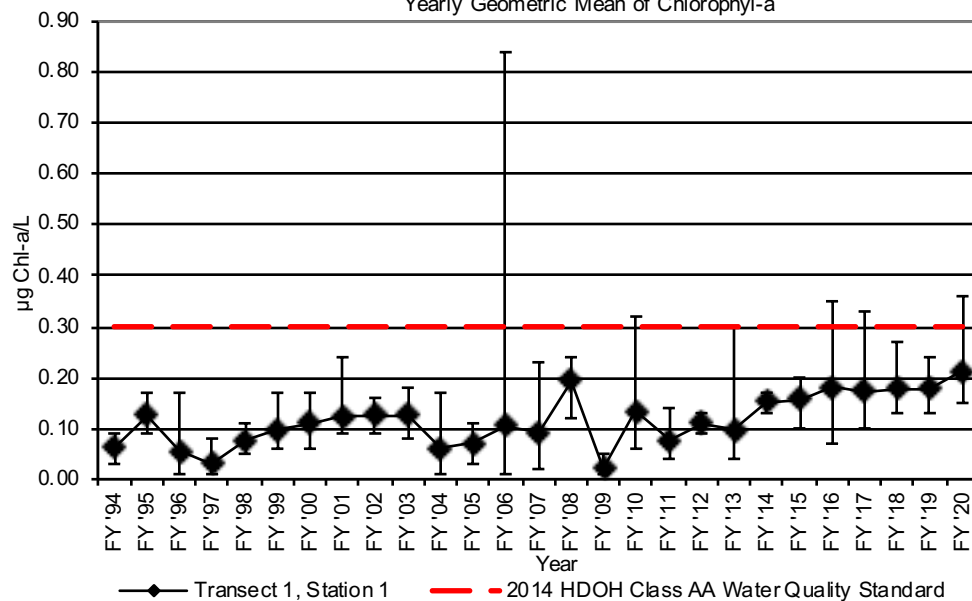
NELHA Offshore Transect 1, Station 1

Yearly Geometric Mean of Turbidity



NELHA Offshore Transect 1, Station 1

Yearly Geometric Mean of Chlorophyll-a



NELHA Water Quality Laboratory

Transect 1, Station 2

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		7/27/93 - 7/14/20 TDP		TDN		Turbidity	Salinity	Temp.	pH	DO	Chl a		
	M/D/Y	(2400)	(µM)	(µg P/L)	(µM)	(µg N/L)	(µM)	(µg N/L)	(µM)	(µg Si/L)	(µM)	(µg P/L)	(µM)	(µg N/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O1-2S-23m	7/27/93	1201	0.10	3.1	0.09	1.3	0.27	3.8	2.0	55	3.81	53.37	0.10	34.502	26.6					
O1-2S-23m	12/7/93	1058	0.06	1.9	0.15	2.1	0.11	1.5	3.5	99			0.11	34.805	25.9					
O1-2S-23m	3/16/94	1032	0.19	5.9	0.63	8.8	0.22	3.1	8.8	248			0.12	34.330	24.7					
O1-2S-23m	6/14/94	1021	0.12	3.7	0.10	1.4	0.01	0.1	2.7	75			0.08	34.575	25.4					
Geomean	FY '94		3.3		2.4		1.3						0.10							
O1-2S-23m	9/15/94	1036	0.10	3.1	0.14	2.0	0.14	2.0	3.8	106			0.12	34.596	27.7					
O1-2S-23m	11/16/94	932	0.16	5.0	0.50	7.0	0.52	7.3	6.1	170			0.07	34.490	26.1					
O1-2S-23m	3/21/95	1203	0.27	8.4	0.13	1.8	0.16	2.2	3.4	94			0.09	34.210	25.0					
O1-2S-23m	6/26/95	948	0.14	4.3	0.98	13.7	0.58	8.1	8.5	239			0.07	34.384	26.7					
Geomean	FY '95		4.9		4.3		4.0						0.09							
O1-2S-23m	9/25/95	900	0.12	3.7	0.54	7.6	0.22	3.1	7.5	210			0.14	34.373	27.1					
O1-2S-23m	11/13/95	1147	0.17	5.3	0.92	12.9	0.53	7.4	13.3	373			0.07	34.039	27.0					
O1-2S-23m	3/11/96	932	0.13	4.0	0.28	3.9	0.31	4.3	2.4	69			0.07	34.210	25.0					
O1-2S-23m	5/13/96	856	0.12	3.7	0.42	5.9	0.19	2.7	6.9	193			0.07	34.162	26.5					
Geomean	FY '96		4.1		6.9		4.0						0.08							
O1-2S-23m	7/30/96	850	0.09	2.8	0.38	5.3	0.11	1.5	4.8	135			0.08	34.420	27.8					
O1-2S-23m	10/1/96	1203	0.08	2.5	0.26	3.6	0.53	7.4	3.9	109			0.09	34.659	28.0					
O1-2S-23m	1/6/97	1211	0.08	2.5	0.08	1.1	0.13	1.8	2.5	70			0.17	34.711	25.5					
O1-2S-23m	4/21/97	1200	0.10	3.1	0.44	6.2	0.23	3.2	2.0	55			0.10	34.556	26.5					
Geomean	FY '97		2.7		3.4		2.9						0.11							
O1-2S-23m	8/18/97	1140	0.10	3.1	0.15	2.1	0.21	2.9	4.4	122			0.09	34.608	26.9					
O1-2S-23m	10/6/97	1159	0.10	3.1	0.16	2.2	0.33	4.6	10.8	304			0.09	34.673	27.4					
O1-2S-23m	3/3/98	1201	0.10	3.1	0.45	6.3	0.23	3.2	5.3	149			0.07	34.955	25.1					
O1-2S-23m	5/4/98	1113	0.18	5.6	1.74	24.4	0.16	2.2	19.0	534			0.09	34.508	23.8					
Geomean	FY '98		3.6		5.2		3.1						0.08							
O1-2S-23m	7/6/98	1214	0.10	3.1	0.16	2.2	0.10	1.4	3.9	110			0.10	35.009	26.5					
O1-2S-23m	10/5/98	1144	0.12	3.7	0.69	9.7	0.15	2.1	6.1	172			0.08	34.977	27.4					
O1-2S-23m	1/13/99	1153	0.10	3.1	0.20	2.8	0.14	2.0	4.5	128			0.08	35.038	25.2					
O1-2S-23m	4/12/99	922	0.15	4.6	0.65	9.1	0.08	1.1	8.8	248			0.07	34.553	24.0					
Geomean	FY '99		3.6		4.8		1.6						0.08							

NELHA Water Quality Laboratory

Transect 1, Station 2

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		7/27/03 - 7/14/20 TDP		TDN		Turbidity	Salinity	Temp.	pH	DO	Chl a		
	M/D/Y	(2400)	(µM)	(µg P/L)	(µM)	(µg N/L)	(µM)	(µg N/L)	(µM)	(µg Si/L)	(µM)	(µg P/L)	(µM)	(µg N/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O1-2S-23m	7/6/99	926	0.10	3.1	0.21	2.9	0.08	1.1	2.6	72					0.10	34.940	25.6			
O1-2S-23m	10/4/99	1016	0.15	4.6	0.63	8.8	0.13	1.8	8.0	225					0.08	34.803	25.9			
O1-2S-23m	1/4/00	1208	0.13	4.0	1.23	17.2	0.38	5.3	11.2	316					0.08	34.866	24.6			
O1-2S-23m	4/17/00	1000	0.14	4.3	0.13	1.8	0.02	0.3	6.4	179					0.06	34.648	24.2			
Geomean	FY '00		4.0		5.3		1.3								0.08					
O1-2S-23m	7/24/00	1230	0.12	3.7	0.55	7.7	0.06	0.8	8.0	224					0.08	34.730	27.3			
O1-2S-23m	10/30/00	1247	0.14	4.3	0.29	4.1	0.28	3.9	8.5	239					0.07	34.902	27.2			
O1-2S-23m	2/26/01	1228	0.19	5.9	0.97	13.6	0.19	2.7	13.8	386					0.11	34.425	24.9			
O1-2S-23m	5/7/01	1017	0.13	4.0	0.49	6.9	0.30	4.2	5.2	145					0.07	34.805	24.6			
Geomean	FY '01		4.4		7.3		2.5								0.08					
O1-2S-23m	8/21/01	1151	0.15	4.6	0.50	7.0	0.07	1.0	5.1	143					0.09	34.717	26.7			
O1-2S-23m	10/8/01	947	0.11	3.4	0.20	2.8	0.05	0.7	4.6	128					0.07	34.941	27.2			
O1-2S-23m	3/5/02	1101	0.14	4.3	0.42	5.9	0.05	0.7	4.3	121					0.12	34.669	24.3			
O1-2S-23m	4/17/02	1121	0.10	3.1	0.22	3.1	0.24	3.4	4.7	131					0.09	34.457	25.6			
Geomean	FY '02		3.8		4.3		1.1								0.09					
O1-2S-23m	7/8/02	1016	0.17	5.3	0.16	2.2	0.17	2.4	4.9	138					0.06	34.613	26.5			
O1-2S-23m	10/9/02	1104	0.07	2.2	0.22	3.1	0.08	1.1	2.7	76					0.06	34.941	27.0			
O1-2S-23m	3/11/03	956	0.11	3.4	1.46	20.4	0.03	0.4	7.7	217					0.09	34.788	24.5			
O1-2S-23m	4/22/03	1056	0.08	2.5	0.45	6.3	0.07	1.0	3.6	101					0.07	34.991	25.2			
Geomean	FY '03		3.1		5.5		1.0								0.07					
O1-2S-23m	8/18/03	1116	0.05	1.5	0.10	1.4	0.30	4.2	1.9	53					0.11	34.875	28.0			
O1-2S-23m	10/29/03	1033	0.09	2.8	0.03	0.4	0.18	2.5	2.8	78					0.10	34.85	27.4			
O1-2S-23m	3/11/04	944	0.15	4.6	0.66	9.2	0.15	2.1	3.5	98					n/a	34.275	25.5			
O1-2S-23m	5/20/04	936	0.11	3.4	0.13	1.8	0.21	2.9	2.6	72					n/a	33.54	26.5			
Geomean	FY '04		2.9		1.8		2.8								0.10					
O1-2S-23m	9/20/04	931	0.08	2.5	0.08	1.1	0.25	3.5	1.8	49					0.08	33.71	27.7			
O1-2S-23m	11/17/04	902	0.11	3.4	0.45	6.3	0.24	3.4	4.3	122					0.10	33.63	27.1			
O1-2S-23m	1/13/05	1025	0.07	2.2	0.35	4.9	0.06	0.8	3.7	103					0.08	34.840	25.1			
O1-2S-23m	4/11/05	1018	0.21	6.5	2.49	34.9	0.24	3.4	16.9	474					0.08	34.821	25.2			
Geomean	FY '05		3.3		5.9		2.4								0.08					

NELHA Water Quality Laboratory

Transect 1, Station 2

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		7/27/03 - 7/14/20 TDP		TDN		Turbidity	Salinity	Temp.	pH	DO	Chl a		
	M/D/Y	(2400)	(µM)	(µg P/L)	(µM)	(µg N/L)	(µM)	(µg N/L)	(µM)	(µg Si/L)	(µM)	(µg P/L)	(µM)	(µg N/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O1-2S-23m	7/20/05	1005	0.05	1.5	0.02	0.3	0.12	1.7	1.3	37			0.09	34.739	26.2					
O1-2S-23m	10/11/05	853	0.05	1.5	0.02	0.3	0.14	2.0	2.3	64			0.15	34.919	26.5					
O1-2S-23m	3/13/06	937	0.16	5.0	1.43	20.0	0.28	3.9	9.8	274			0.12	34.620	24.4					
O1-2S-23m	5/15/06	937	0.21	6.5	2.83	39.6	0.33	4.6	25.7	722			0.20	33.990	24.9					
Geomean	FY '06		3.0		2.8		2.8						0.13							
O1-2S-23m	8/14/06	930	0.27	8.4	0.65	9.1	0.33	4.6	6.5	182			0.12	34.504	26.5					
O1-2S-23m	11/1/06	934	0.13	4.0	0.75	10.5	0.58	8.1	8.2	231			0.18	34.660	26.7					
O1-2S-23m	2/12/07	958	0.19	5.9	1.53	21.4	0.46	6.4	10.8	303			0.17	34.230	24.5					
O1-2S-23m	4/9/07	932	0.12	3.7	0.32	4.5	0.23	3.2	4.7	131			0.20	34.649	25.0					
Geomean	FY '07		5.2		9.8		5.3						0.16							
T1-10m	9/26/07	907	0.29	9.0	2.71	37.9	0.34	4.7	22.0	619	0.60	18.6	9.5	133	0.12	33.972	26.8	8.10	6.39	0.32
T1-10m	12/13/07	1032	0.07	2.1	0.39	5.5			13.2	370	0.37	11.6	7.0	99	0.19	34.638	25.7	8.32	6.33	0.21
T1-10m	3/10/08	932	0.02	0.7	0.64	8.9	0.06	0.8	12.8	360	0.42	13.1	10.2	143	0.15	34.867	25.0	8.1	6.57	0.25
T1-10m	6/5/08	943	0.10	3.2	0.35	4.9	0.16	2.2	10.3	290	0.28	8.8	9.2	129	0.11	34.8026	25.0	8.08	6.73	0.22
Geomean	FY '08		2.6		9.8		2.0				12.6		125		0.14					0.25
T1-10m	9/22/08	1041	0.06	1.9	0.12	1.7	0.04	0.6	2.5	70	0.25	7.7	5.0	70	0.12	34.832	26.6	7.99	6.53	0.06
T1-10m	11/17/08	923	0.17	5.3	0.23	3.2	0.14	1.9	3.3	93	0.36	11.3	4.7	66	0.08	34.951	25.6	8.16	5.30	0.07
T1-10m	2/9/09	918	0.10	3.1	0.10	1.4	0.12	1.7	1.6	46	0.22	6.8	4.9	69	0.18	34.984	24.9	8.06	6.23	0.01
T1-10m	4/13/09	912	0.17	5.2	0.21	2.9	1.25	17.5	2.7	75	0.40	12.5	6.7	94	0.10	34.985	23.9	8.10	6.01	0.04
Geomean	FY '09		3.6		2.2		2.4				9.3		74		0.11					0.04
T1-10m	9/9/09	911	0.30	9.3	0.27	3.8	0.10	1.4	13.3	375	0.54	16.7	7.4	104	0.14	35.20	26.6	8.23	5.76	0.04
T1-10m	11/23/09	934	0.03	0.8	0.24	3.4	0.14	1.9	19.1	536	0.34	10.4	6.8	95	0.08	35.19	25.3	8.27	6.13	0.2
T1-10m	2/23/10	942	0.17	5.4	0.43	6	0.40	5.6	31.5	886	0.35	10.9	4.9	69	0.09	35.04	24.6	8.21	6.23	0.32
T1-10m	5/25/10	1100	0.04	1.2	0.12	1.7	0.12	1.7	14.6	411	0.36	11.2	5.2	73	0.07	34.97	25.1	8.23	7.02	0.09
Geomean	FY '10		2.6		3.4		2.2				12.1		84		0.09					0.12
T1-10m	8/10/10	942	0.04	1.2	0.58	8.1	0.06	0.9	4.8	135	0.29	9	3.3	46	0.08	34.84	25.97	8.25	6.41	0.07
T1-10m	11/8/10	931	0.01	0.3	0.17	2.4	0.14	2.0	2.3	65	0.35	10.7	3.4	48	0.04	35.26	26.42	8.25	6.15	0.05
T1-10m	1/11/11	940	0.13	3.9	0.22	3.1	0.01	0.1	4.4	123	0.42	12.9	3.6	51	0.09	35.01	24.98	8.21	6.41	0.09
T1-10m	4/26/11	940	0.14	4.4	0.44	6.2	0.07	1.0	8.3	234	0.45	14	3.9	55	0.09	34.94	25.03	8.21	6.53	0.12
Geomean	FY '11		1.6		4.4		0.7				11.5		50		0.07					0.08

NELHA Water Quality Laboratory

Transect 1, Station 2

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		7/27/03 - 7/14/20 TDP		TDN		Turbidity	Salinity	Temp.	pH	DO	Chl a		
	M/D/Y	(2400)	(µM)	(µg P/L)	(µM)	(µg N/L)	(µM)	(µg N/L)	(µM)	(µg Si/L)	(µM)	(µg P/L)	(µM)	(µg N/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
T1-10m	7/26/11	952	0.19	5.9	0.35	4.9	0.12	1.7	2.3	66	0.47	14.6	5.0	70	0.08	34.78	25.87	8.24	6.46	0.10
T1-10m	10/18/11	930	0.04	1.2	0.29	4.1	0.29	4	2.7	76	0.30	9.3	5.1	72	0.07	35.04	26.50	8.20	6.59	0.10
T1-10m	1/25/12	953	0.11	3.4	0.36	5.1	0.16	2.2	4.4	124	0.43	13.3	5.6	79	0.10	34.95	24.64	8.19	6.84	0.06
T1-10m	4/24/12	1019	0.15	4.5	0.45	6.3	0.24	3.4	4.4	122	0.41	12.8	4.2	59	0.08	35.06	24.70	8.23	6.63	0.20
Geomean	FY '12		3.2		5.0		2.7				12.3		70		0.08					0.10
T1-10m	7/24/12	935	0.04	1.1	0.64	9	0.48	6.7	1.5	41	0.36	11	11.0	155	0.06	35.00	26.33	8.23	6.86	0.03
T1-10m	11/27/12	936	0.12	3.6	1.20	16.8	0.32	4.5	8.6	242	0.44	13.5	6.2	87	0.08	35.04	25.03	8.20	6.82	0.30
T1-10m	1/24/13	942	0.08	2.5	0.18	2.5	0.17	2.4	1.5	43	0.44	13.5	6.5	91	0.07	35.02	24.65	8.20	6.27	0.13
T1-10m	4/16/13	944	0.15	4.6	0.38	5.3	0.17	2.4	1.0	28	0.48	15	6.9	97	0.03	35.16	24.85	8.21	7.00	0.06
Geomean	FY '13		2.6		6.7		3.6				13.2		104		0.06					0.09
T1-10m	8/1/13	854	0.04	1.3	0.24	3.3	0.06	0.9	4.6	129	0.39	12.2	5.6	79	0.07	35.00	26.1	8.26	6.79	0.11
T1-10m	10/29/13	931	0.14	4.3	0.34	4.8	0.35	4.9	2.5	69	0.43	13.2	6.0	84	0.07	35.28	27.0	8.24	6.19	0.16
T1-10m	2/4/14	932	0.13	4.0	0.41	5.8	0.64	8.9	3.0	83	0.39	12.1	5.7	80	0.02	34.92	25.2	8.22	6.35	0.16
T1-10m	5/6/14	929	0.16	5.0	0.50	7.0	0.47	6.6	3.6	103	0.46	14.1	5.9	83	0.05	34.69	25.8	8.21	6.54	0.07
Geomean	FY '14		3.3		5.0		4.0				12.9		81		0.05					0.12
T1-10m	8/5/14	946	0.21	6.5	0.26	3.7	0.37	5.2	2.1	59	0.55	17.0	5.3	74	0.14	34.96	26.8	8.21	5.99	0.16
T1-10m	11/17/14	1123	0.17	5.2	0.16	2.2	0.32	4.5	0.1	2	0.43	13.2	6.0	84	0.04	35.02	27.1	8.21	7.02	0.19
T1-10m	3/3/15	935	0.05	1.4	0.56	7.8	0.19	2.7	2.7	76	0.32	9.8	7.6	106	0.04	34.80	25.5	8.16	6.78	0.18
T1-10m	6/16/15	1041	0.13	4.1	1.09	15.2	0.13	1.8	6.9	193	0.41	12.7	5.9	82	0.06	33.97	26.5	8.21	6.07	0.25
Geomean	FY '15		3.7		5.6		3.3				12.9		86		0.06					0.19
T1-10m	8/26/15	1144	0.13	3.9	0.26	3.7	0.31	4.4	7.3	205	0.13	4.1	5.4	76	0.04	34.49	28.4	8.21	6.08	0.32
T1-10m	11/17/15	943	0.15	4.5	0.43	6.0	0.07	1.0	5.8	162	0.56	17.3	6.3	89	0.06	33.86	27.4	8.22	6.17	0.15
T1-10m	3/1/16	944	0.15	4.5	0.13	1.8	0.33	4.6	0.1	2	0.48	14.9	5.6	79	0.07	34.77	25.4	8.24	5.71	0.08
T1-10m	5/3/16	921	0.15	4.7	0.80	11.2	0.21	2.9	4.1	115	0.34	10.6	5.8	81	0.08	34.56	25.5	8.27	6.22	0.25
Geomean	FY '16		4.4		4.6		2.8				10.3		81		0.06					0.18
T1-10m	7/6/16	953	0.13	3.9	0.14	2.0	0.39	5.4	3.1	87	0.57	17.7	5.3	74	0.09	34.49	26.8	8.25	6.78	0.23
T1-10m	12/20/16	948	0.08	2.4	0.39	5.4	0.05	0.7	1.9	54	0.33	10.3	3.3	47	0.04	34.69	25.6	8.23	5.47	0.21
T1-10m	2/28/17	853	0.00	0.1	0.06	0.9	0.04	0.5	0.0	0	0.28	8.6	3.5	49	0.12	34.69	24.7	8.21	9.04	0.08
T1-10m	5/9/17	1009	0.01	0.2	0.64	9.0	0.08	1.1	3.8	106	0.25	7.8	3.5	49	0.15	34.58	25.8	8.20	4.83	0.08
Geomean	FY '17		0.7		3.1		1.2				10.5		54		0.09					0.13

NELHA Water Quality Laboratory

Transect 1, Station 2

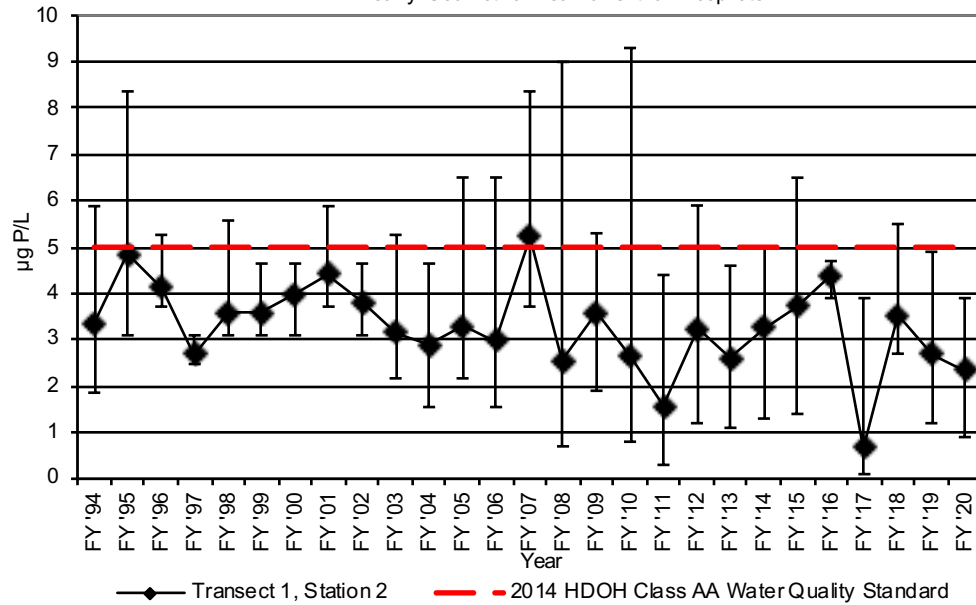
SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		7/27/93 - 7/14/20		TDP		TDN		Turbidity	Salinity	Temp.	pH	DO	Chl a
	M/D/Y	(2400)	(µM)	(µg P/L)	(µM)	(µg N/L)	(µM)	(µg N/L)	(µM)	(µg Si/L)	(µM)	(µg P/L)	(µM)	(µg N/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
T1-10m	9/27/17	944	0.18	5.5	0.30	4.2	0.27	3.8	1.4	39	0.44	13.7	3.5	50	0.09	34.75	27.8	8.20	4.46	0.22
T1-10m	11/28/17	1033	0.12	3.8	0.56	7.8	0.36	5.1	3.9	109	0.41	12.6	5.2	72	0.10	35.01	26.1	8.16	4.90	0.20
T1-10m	1/30/18	1014	0.09	2.7	0.10	1.4	0.15	2.1	1.7	47	0.33	10.1	2.1	30	0.09	34.83	24.6	8.16	5.42	0.21
T1-10m	5/16/18	1016	0.09	2.7	0.18	2.5	0.19	2.7	3.2	90	0.36	11.0	3.3	46	0.02	34.75	25.5	8.16	6.05	0.17
Geomean	FY '18		3.5		3.3		3.2				11.8		47		0.06					0.20
T1-10m	9/24/18	936	0.07	2.1	0.16	2.3	0.32	4.5	3.2	91	0.38	11.8	3.2	44	0.10	34.64	27.7	8.18	5.29	0.16
T1-10m	11/13/18	1024	0.04	1.2	0.38	5.3	0.36	5.0	0.3	9	0.36	11.2	4.0	57	0.09	35.00	27.3	8.19	4.67	0.20
T1-10m	1/22/19	1013	0.16	4.9	0.91	12.8	0.08	1.1	6.2	175	0.43	13.4	3.4	47	0.08	34.78	24.9	8.23	5.88	0.26
T1-10m	4/16/19	1006	0.14	4.2	0.27	3.8	0.25	3.5	2.1	58	0.40	12.3	4.4	62	0.05	35.65	25.7	8.10	7.27	0.09
Geomean	FY '19		2.7		4.9		3.1				12.1		52		0.08					0.17
T1-10m	8/13/19	1144	0.03	0.9	0.16	2.3	0.30	4.2	1.1	31	0.28	8.8	1.9	26	0.09	35.70	28.3	8.21	6.52	0.22
T1-10m	11/19/19	1143	0.12	3.7	0.17	2.4	0.49	6.8	0.9	25	0.38	11.8	2.6	36	0.13	34.84	27.6	8.24	6.70	0.16
T1-10m	1/22/20	937	0.13	3.9	0.16	2.3	0.09	1.3	1.8	52	0.39	12.0	2.9	40	0.09	34.92	25.1	8.22	6.65	0.14
T1-10m	6/24/10	1014	0.07	2.3	0.16	2.3	0.14	1.9	1.3	37	0.34	10.5	2.1	30	0.06	35.33	25.8	8.16	6.97	0.29
Geomean	FY '20		2.3		2.3		2.9				10.7		33		0.09					0.19

NELHA Water Quality Laboratory

Transect 1 Station 2

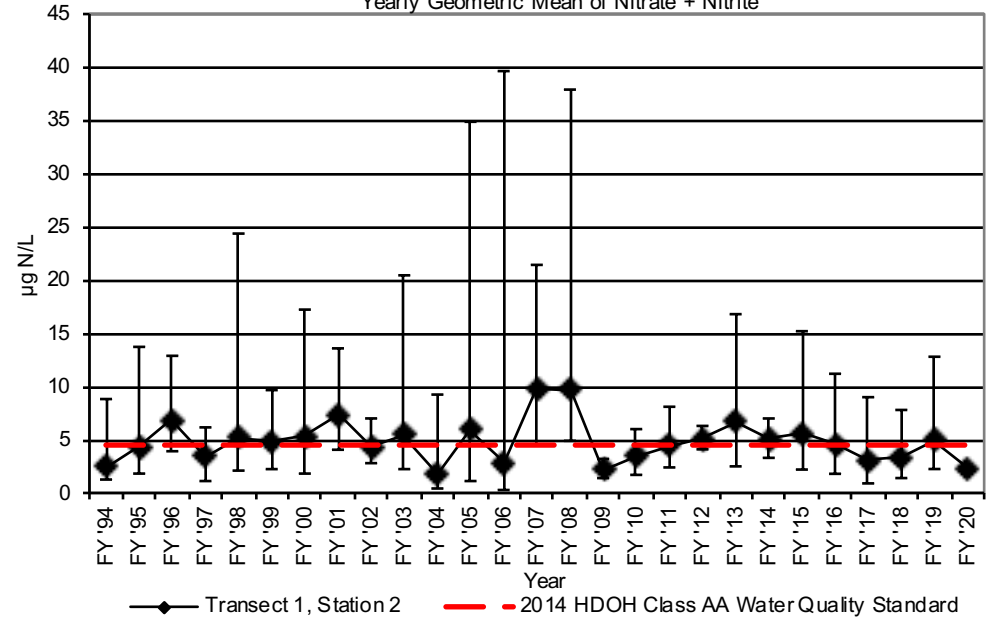
NELHA Offshore Transect 1, Station 2

Yearly Geometric Mean of Ortho-Phosphate



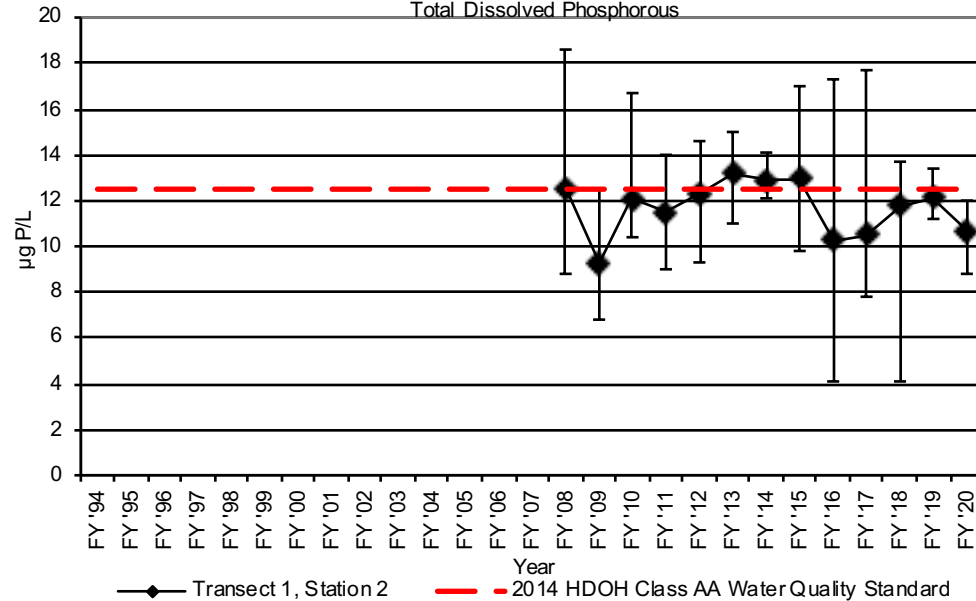
NELHA Offshore Transect 1, Station 2

Yearly Geometric Mean of Nitrate + Nitrite



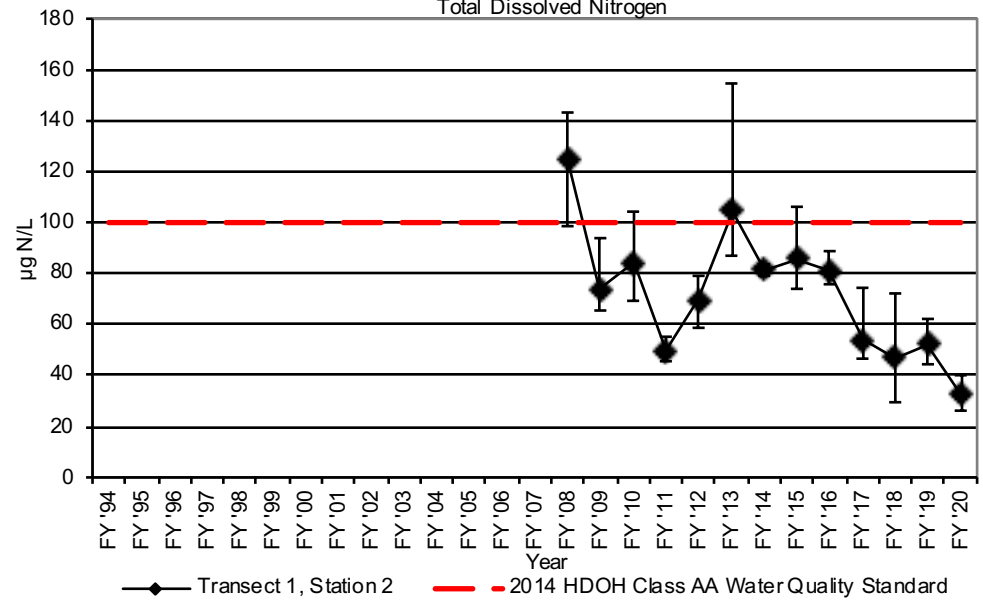
NELHA Offshore Transect 1, Station 2

Yearly Geometric Mean of Total Dissolved Phosphorous



NELHA Offshore Transect 1, Station 2

Yearly Geometric Mean of Total Dissolved Nitrogen

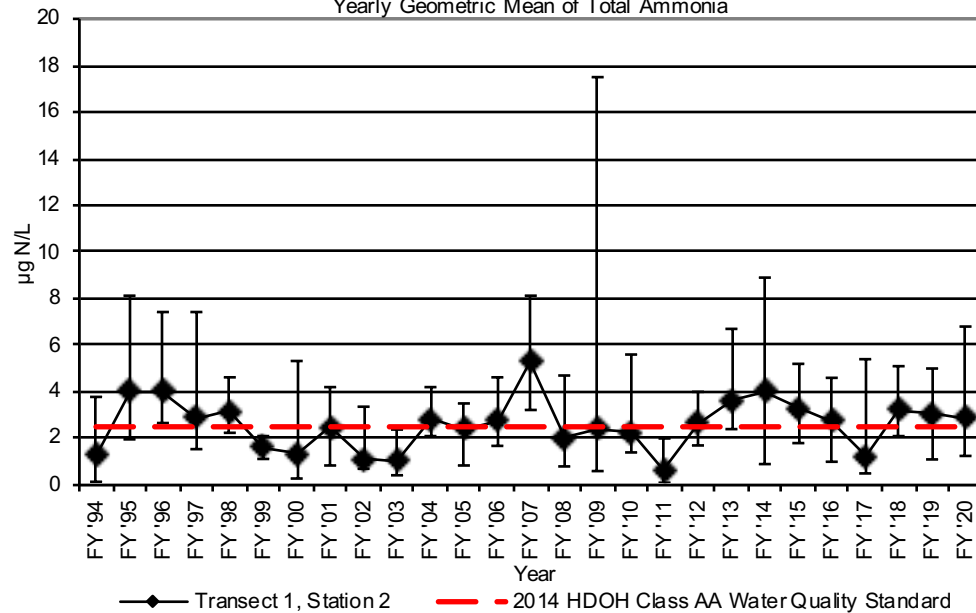


NELHA Water Quality Laboratory

Transect 1, Station 2

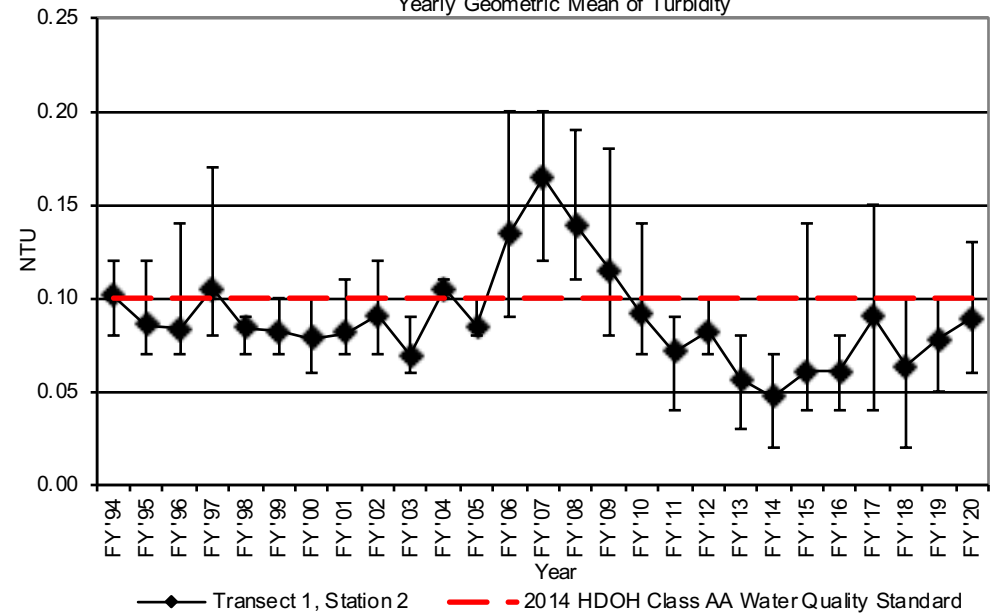
NELHA Offshore Transect 1, Station 2

Yearly Geometric Mean of Total Ammonia



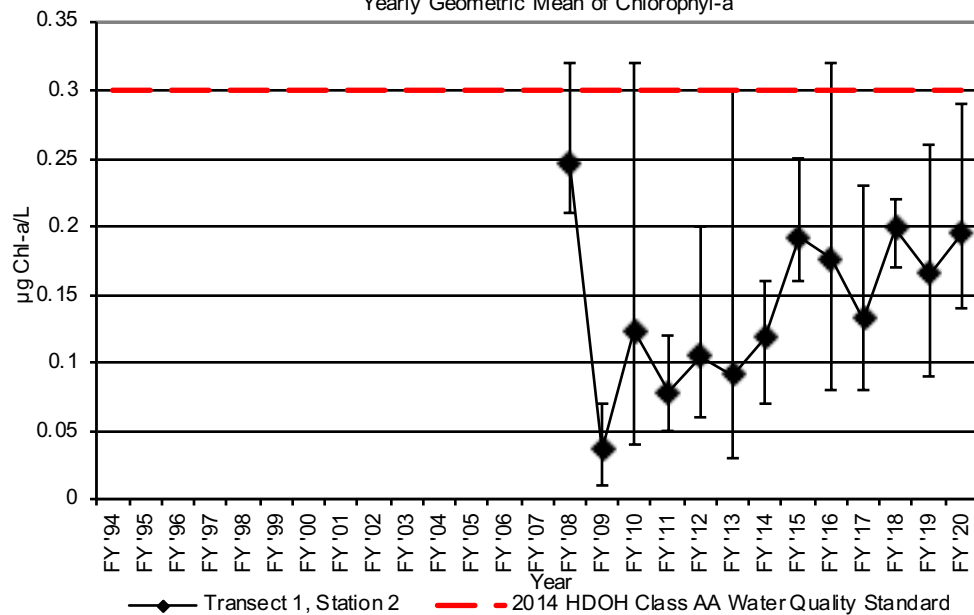
NELHA Offshore Transect 1, Station 2

Yearly Geometric Mean of Turbidity



NELHA Offshore Transect 1, Station 2

Yearly Geometric Mean of Chlorophyll-a



NELHA Water Quality Laboratory

Transect 1, Station 3

7/27/93 - 7/14/20

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		Turbidity	Salinity	Temp.	pH	DO	Chl a
	M/D/Y	(2400)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg N/L)	(μM)	(μg Si/L)	(μM)	(μg P/L)	(μM)	(μg N/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(μg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O1-3S-38m	7/27/93	1149	0.06	1.9	0.05	0.7	0.18	2.5	1.8	51					0.10	34.500	26.6			
O1-3S-38m	12/7/93	1048	0.06	1.9	0.11	1.5	0.10	1.4	2.5	71					0.07	34.822	25.8			
O1-3S-38m	3/16/94	1026	0.19	5.9	0.86	12.0	0.20	2.8	11.5	323					0.12	34.244	24.7			
O1-3S-38m	6/14/94	1014	0.11	3.4	0.05	0.7	0.01	0.1	2.4	68					0.08	34.584	25.4			
Geomean	FY '94		2.9		1.7		1.1								0.09					
O1-3S-38m	9/15/94	1032	0.10	3.1	0.46	6.4	0.14	2.0	7.6	213					0.08	34.450	27.7			
O1-3S-38m	11/16/94	929	0.14	4.3	0.25	3.5	0.50	7.0	3.2	90					0.07	34.574	26.0			
O1-3S-38m	3/21/95	1154	0.18	5.6	0.08	1.1	0.12	1.7	3.3	93				0.08	34.220	25.0				
O1-3S-38m	6/26/95	947	0.15	4.6	0.80	11.2	0.55	7.7	10.2	285				0.07	34.324	26.8				
Geomean	FY '95		4.3		4.1		3.7								0.07					
O1-3S-38m	9/25/95	850	0.18	5.6	0.57	8.0	0.28	3.9	5.9	165					0.09	34.358	27.1			
O1-3S-38m	11/13/95	1144	0.11	3.4	0.07	1.0	0.45	6.3	1.5	43					0.07	34.364	27.0			
O1-3S-38m	3/11/96	926	0.13	4.0	0.43	6.0	0.39	5.5	4.3	120				0.07	34.147	25.1				
O1-3S-38m	5/13/96	851	0.11	3.4	0.50	7.0	0.19	2.7	8.1	227				0.06	34.136	26.5				
Geomean	FY '96		4.0		4.3		4.4								0.07					
O1-3S-38m	7/30/96	845	0.09	2.8	0.45	6.3	0.12	1.7	5.6	156					0.08	34.395	27.8			
O1-3S-38m	10/1/96	1158	0.06	1.9	0.37	5.2	0.50	7.0	5.0	140					0.08	34.622	27.9			
O1-3S-38m	1/6/97	1204	0.08	2.5	0.07	1.0	0.13	1.8	2.5	69				0.08	34.708	25.6				
O1-3S-38m	4/21/97	1152	0.09	2.8	0.38	5.3	0.24	3.4	2.8	78				0.12	34.561	26.6				
Geomean	FY '97		2.4		3.6		2.9								0.09					
O1-3S-38m	8/18/97	1135	0.14	4.3	1.48	20.7	0.23	3.2	19.2	539					0.11	34.162	27.0			
O1-3S-38m	10/6/97	1156	0.10	3.1	0.20	2.8	0.34	4.8	5.5	155					0.08	34.673	27.4			
O1-3S-38m	3/3/98	1157	0.09	2.8	0.53	7.4	0.24	3.4	5.9	166				0.06	34.937	25.1				
O1-3S-38m	5/4/98	1108	0.20	6.2	2.07	29.0	0.26	3.6	22.1	621				0.10	34.403	23.8				
Geomean	FY '98		3.9		10.6		3.7								0.09					
O1-3S-38m	7/6/98	1209	0.09	2.8	0.13	1.8	0.08	1.1	3.9	108					0.08	35.011	26.4			
O1-3S-38m	10/5/98	1139	0.10	3.1	0.38	5.3	0.16	2.2	4.9	136					0.09	35.033	27.3			
O1-3S-38m	1/13/99	1148	0.10	3.1	0.53	7.4	0.11	1.5	7.0	197				0.10	34.961	25.2				
O1-3S-38m	4/12/99	917	0.16	5.0	0.77	10.8	0.08	1.1	17.0	477				0.08	34.511	24.0				
Geomean	FY '99		3.4		5.3		1.4								0.09					

NELHA Water Quality Laboratory

Transect 1, Station 3

7/27/93 - 7/14/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O1-3S-38m	7/6/99	920	0.10	3.1	0.19	2.7	0.05	0.7	2.5	71					0.12	34.943	25.6			
O1-3S-38m	10/4/99	1011	0.15	4.6	0.63	8.8	0.15	2.1	7.7	217					0.08	34.828	25.9			
O1-3S-38m	1/4/00	1204	0.15	4.6	1.49	20.9	0.40	5.6	12.3	345					0.11	34.810	24.6			
O1-3S-38m	4/17/00	955	0.14	4.3	0.21	2.9	0.01	0.1	3.8	106					0.08	34.611	24.2			
Geomean	FY '00		4.1		6.2		1.0								0.10					
O1-3S-38m	7/24/00	1228	0.13	4.0	0.59	8.3	0.06	0.8	7.8	219					0.07	34.735	27.3			
O1-3S-38m	10/30/00	1240	0.14	4.3	0.43	6.0	0.28	3.9	9.3	260					0.11	34.898	27.1			
O1-3S-38m	2/26/01	1223	0.24	7.4	1.68	23.5	0.17	2.4	25.5	717					0.13	34.052	25.0			
O1-3S-38m	5/7/01	1014	0.14	4.3	0.54	7.6	0.31	4.3	5.5	154					0.06	34.796	24.6			
Geomean	FY '01		4.9		9.7		2.4								0.09					
O1-3S-38m	8/21/01	1142	0.15	4.6	0.44	6.2	0.02	0.3	6.6	185					0.10	34.741	26.7			
O1-3S-38m	10/8/01	940	0.10	3.1	0.18	2.5	0.06	0.8	7.8	220					0.07	34.940	27.2			
O1-3S-38m	3/5/02	1058	0.14	4.3	0.32	4.5	0.04	0.6	6.3	178					0.08	34.734	24.2			
O1-3S-38m	4/17/02	1118	0.14	4.3	0.50	7.0	0.26	3.6	4.7	131					0.06	34.436	25.7			
Geomean	FY '02		4.1		4.7		0.8								0.08					
O1-3S-38m	7/8/02	1007	0.19	5.9	0.05	0.7	0.11	1.5	15.8	442					0.08	34.636	26.5			
O1-3S-38m	10/9/02	1100	0.06	1.9	0.36	5.0	0.04	0.6	4.7	132					0.08	34.920	27.0			
O1-3S-38m	3/11/03	949	0.13	4.0	0.67	9.4	0.03	0.4	5.8	163					0.16	34.844	24.5			
O1-3S-38m	4/22/03	1054	0.07	2.2	0.24	3.4	0.06	0.8	3.1	87					0.07	35.009	25.2			
Geomean	FY '03		3.1		3.2		0.7								0.09					
O1-3S-38m	8/18/03	1106	0.06	1.9	0.08	1.1	0.25	3.5	2.4	69					0.14	34.855	27.5			
O1-3S-38m	10/29/03	1024	0.06	1.9	0.01	0.1	0.18	2.5	2.3	65					0.10	34.903	27.5			
O1-3S-38m	3/11/04	938	0.15	4.6	0.79	11.1	0.09	1.3	3.9	110					n/a	34.266	25.6			
O1-3S-38m	5/20/04	943	0.12	3.7	0.07	1.0	0.18	2.5	3.1	87					n/a	33.47	26.6			
Geomean	FY '04		2.8		1.1		2.3								0.12					
O1-3S-38m	9/20/04	923	0.09	2.8	0.07	1.0	0.21	2.9	2.0	56					0.09	33.75	27.8			
O1-3S-38m	11/17/04	856	0.11	3.4	0.32	4.5	0.18	2.5	2.8	79					0.09	33.58	27.1			
O1-3S-38m	1/13/05	1020	0.07	2.2	0.37	5.2	0.06	0.8	3.8	107					0.08	34.858	25.5			
O1-3S-38m	4/11/05	1009	0.18	5.6	1.95	27.3	0.23	3.2	13.4	377					0.09	34.147	25.1			
Geomean	FY '05		3.3		5.0		2.1								0.09					

NELHA Water Quality Laboratory

Transect 1, Station 3

7/27/93 - 7/14/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O1-3S-38m	7/20/05	958	0.06	1.9	0.02	0.3	0.21	2.9	1.6	45					0.08	34.731	26.4			
O1-3S-38m	10/11/05	846	0.04	1.2	0.01	0.1	0.14	2.0	2.1	59					0.12	34.907	26.5			
O1-3S-38m	3/13/06	930	0.11	3.4	0.27	3.8	0.28	3.9	3.0	85					0.09	34.729	24.5			
O1-3S-38m	5/15/06	931	0.18	5.6	2.20	30.8	0.11	1.5	24.8	697					0.08	34.045	24.7			
Geomean	FY '06		2.6		1.5		2.4								0.09					
O1-3S-38m	8/14/06	924	0.14	4.3	0.39	5.5	0.15	2.1	3.8	108					0.14	34.706	26.5			
O1-3S-38m	11/1/06	928	0.10	3.1	0.36	5.0	0.46	6.4	5.0	140					0.24	34.753	26.7			
O1-3S-38m	2/12/07	950	0.15	4.6	0.86	12.0	0.39	5.5	6.9	193					0.21	34.424	24.5			
O1-3S-38m	4/9/07	925	0.12	3.7	0.47	6.6	0.30	4.2	5.4	152					0.17	34.629	25.3			
Geomean	FY '07		3.9		6.8		4.2								0.19					
T1-50m	9/26/07	919	0.21	6.6	1.05	14.7	0.34	4.8	10.4	292	0.42	13.0	6.2	87	0.09	34.680	26.8	8.09	6.32	0.12
T1-50m	12/13/07	1036	0.11	3.4	0.67	9.4			5.8	162	0.41	12.7	7.1	99	0.12	34.503	25.7	8.31	6.28	0.25
T1-50m	3/10/08	938	0.05	1.7	0.64	9.0	0.06	0.8	5.2	147	0.43	13.3	8.7	123	0.10	34.787	25.0	8.1	6.50	0.2
T1-50m	6/5/08	946	0.09	2.8	0.29	4.1	0.16	2.2	18.6	522	0.26	8.1	8.2	116	0.08	34.8034	25.0	8.08	6.78	0.29
Geomean	FY '08		3.2		8.5		2.0				11.5		105		0.10					0.20
T1-50m	9/22/08	1047	0.06	1.8	0.17	2.4	0.07	1	2.6	72	0.25	7.7	5.0	70	0.07	34.805	26.6	8.01	6.33	0.1
T1-50m	11/17/08	927	0.16	5.1	0.40	5.6	0.14	1.9	3.6	102	0.37	11.5	6.1	86	0.33	34.905	25.6	8.20	6.17	0.08
T1-50m	2/9/09	924	0.09	2.8	0.10	1.4	0.12	1.7	1.1	32	0.16	4.9	5.7	80	0.11	35.049	24.9	8.07	6.20	0.01
T1-50m	4/13/09	916	0.22	6.7	0.15	2.1	0.24	3.4	2.8	79	0.51	15.9	6.5	91	0.14	34.983	23.9	8.13	5.79	0.04
Geomean	FY '09		3.6		2.5		1.8				9.1		81		0.14					0.04
T1-50m	9/9/09	919	0.17	5.3	0.50	7	0.04	0.5	8.1	226	0.56	17.4	7.1	99	0.11	35.15	26.8	8.22	5.54	0.16
T1-50m	11/23/09	938	0.03	0.8	0.22	3.1	0.14	1.9	9.7	273	0.37	11.6	5.2	74	0.06	35.16	25.3	8.29	6.11	0.17
T1-50m	2/23/10	945	0.17	5.2	0.39	5.4	0.49	6.9	17.6	495	0.38	11.8	4.5	63	0.06	35.03	24.6	8.20	6.22	0.2
T1-50m	5/25/10	1104	0.02	0.7	0.06	0.8	0.05	0.7	13.7	386	0.29	9	3.2	45	0.08	35.00	24.9	8.22	6.85	0.1
Geomean	FY '10		2.0		3.1		1.5				12.1		68		0.08					0.15
T1-50m	8/10/10	945	0.05	1.5	0.86	12	0.05	0.7	6.2	173	0.29	9.1	3.4	48	0.04	34.31	25.95	8.24	6.38	0.12
T1-50m	11/8/10	934	0.02	0.5	0.14	2	0.12	1.7	3.5	98	0.41	12.6	4.0	56	0.03	35.25	26.42	8.25	6.13	0.08
T1-50m	1/11/11	945	0.14	4.3	0.54	7.5	0.06	0.9	3.7	104	0.51	15.7	4.5	64	0.06	35.02	24.97	8.20	6.46	0.09
T1-50m	4/26/11	945	0.14	4.4	0.53	7.4	0.05	0.7	3.3	94	0.47	14.6	3.8	53	0.06	34.95	25.02	8.21	6.50	0.20
Geomean	FY '11		1.9		6.0		0.9				12.7		55		0.05					0.11

NELHA Water Quality Laboratory

Transect 1, Station 3

7/27/93 - 7/14/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
T1-50m	7/26/11	957	0.19	5.9	0.33	4.6	0.13	1.8	2.4	69	0.48	15	4.4	62	0.04	34.80	25.98	8.25	6.39	0.06
T1-50m	10/18/11	935	0.04	1.3	0.29	4	0.26	3.6	2.6	72	0.31	9.6	4.8	68	0.10	35.03	26.52	8.20	6.57	0.12
T1-50m	1/25/12	958	0.10	3.1	0.30	4.2	0.11	1.6	3.6	100	0.44	13.7	5.7	80	0.05	34.98	24.66	8.18	6.57	0.12
T1-50m	4/24/12	1026	0.12	3.7	0.26	3.7	0.23	3.2	3.1	88	0.39	12.1	3.8	53	0.12	35.07	24.75	8.21	6.66	0.24
Geomean	FY '12		3.1		4.1		2.4				12.4		65		0.07					0.12
T1-50m	7/24/12	943	0.04	1.2	0.49	6.9	0.35	4.9	2.3	64	0.34	10.6	5.0	71	0.07	35.07	26.31	8.22	6.42	0.03
T1-50m	11/27/12	940	0.12	3.7	1.10	15.4	0.45	6.3	8.6	241	0.35	10.8	4.1	58	0.05	35.05	25.05	8.20	6.72	0.28
T1-50m	1/24/13	946	0.07	2.1	0.01	0.1	0.21	2.9	0.9	26	0.41	12.6	4.8	68	0.03	35.04	24.70	8.20	6.25	0.10
T1-50m	4/16/13	950	0.15	4.5	0.46	6.5	0.11	1.6	2.1	58	0.47	14.5	5.8	81	0.02	35.14	24.92	8.21	6.83	0.06
Geomean	FY '13		2.5		2.9		3.5				12.0		69		0.04					0.08
T1-50m	8/1/13	859	0.04	1.3	0.30	4.2	0.07	1.0	5.3	149	0.41	12.6	4.9	68	0.08	35.07	26.1	8.25	6.63	0.18
T1-50m	10/29/13	935	0.16	5.1	0.21	2.9	0.34	4.8	1.9	52	0.43	13.2	6.1	86	0.02	35.29	27.1	8.22	6.06	0.21
T1-50m	2/4/14	936	0.10	3.2	0.40	5.6	0.38	5.3	3.6	102	0.43	13.3	8.6	121	0.02	34.89	25.2	8.21	6.30	0.17
T1-50m	5/6/14	933	0.16	5.0	0.59	8.3	0.56	7.8	3.5	100	0.45	13.8	6.3	88	0.06	34.71	25.8	8.22	6.36	0.16
Geomean	FY '14		3.2		4.9		3.8				13.2		89		0.04					0.18
T1-50m	8/5/14	949	0.19	5.9	0.37	5.2	0.32	4.5	2.4	67	0.55	17.1	5.5	77	0.10	34.95	26.8	8.21	6.07	0.15
T1-50m	11/17/14	1127	0.15	4.8	0.16	2.2	0.29	4.1	0.4	10	0.43	13.2	6.1	86	0.10	35.02	27.1	8.21	6.79	0.20
T1-50m	3/3/15	941	0.04	1.2	0.51	7.2	0.08	1.1	2.6	74	0.33	10.1	7.6	106	0.06	34.80	25.5	8.13	6.77	0.21
T1-50m	6/16/15	1049	0.13	4.0	0.92	12.9	0.26	3.7	6.4	180	0.44	13.5	6.6	92	0.05	34.13	26.4	8.21	6.01	0.30
Geomean	FY '15		3.4		5.7		2.9				13.2		90		0.07					0.21
T1-50m	8/26/15	1152	0.20	6.2	0.26	3.6	0.27	3.8	4.3	121	0.35	10.9	6.9	96	0.04	34.51	28.4	8.21	6.10	0.36
T1-50m	11/17/15	950	0.13	4.0	0.44	6.2	0.22	3.1	3.8	107	0.52	16.0	5.6	78	0.07	33.90	27.3	8.26	6.12	0.13
T1-50m	3/1/16	952	0.13	3.9	0.19	2.7	2.20	30.8	0.0	1	0.48	14.8	4.1	57	0.08	34.78	25.4	8.26	5.67	0.09
T1-50m	5/3/16	927	0.14	4.3	0.95	13.3	0.18	2.5	4.6	130	0.43	13.2	5.8	81	0.05	34.55	25.5	8.24	6.17	0.27
Geomean	FY '16		4.5		5.3		5.5				13.6		77		0.06					0.18
T1-50m	7/6/16	1002	0.12	3.6	0.15	2.1	0.25	3.5	3.5	98	0.51	15.7	5.4	76	0.09	34.48	26.8	8.25	6.60	0.21
T1-50m	12/20/16	956	0.07	2.3	0.69	9.6	0.24	3.3	3.3	93	0.35	10.9	3.9	55	0.03	34.68	25.6	8.24	5.52	0.31
T1-50m	2/28/17	859	0.01	0.2	0.04	0.6	0.02	0.3	0.1	2	0.27	8.4	3.1	43	0.11	34.70	24.7	8.22	7.20	0.10
T1-50m	5/9/17	1016	0.01	0.2	0.74	10.4	0.04	0.5	4.7	131	0.26	7.9	4.6	64	0.14	34.54	25.8	8.22	4.77	0.13
Geomean	FY '17		0.8		3.3		1.1				10.3		58		0.08					0.17

NELHA Water Quality Laboratory

Transect 1, Station 3

7/27/93 - 7/14/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
T1-50m	9/27/17	949	0.14	4.4	0.26	3.7	0.21	2.9	1.4	39	0.39	12.2	3.3	47	0.08	34.74	27.7	8.20	4.35	0.20
T1-50m	11/28/17	1041	0.14	4.4	0.99	13.8	0.36	5.0	5.5	153	0.41	12.6	3.3	47	0.10	34.96	26.1	8.16	4.84	0.21
T1-50m	1/30/18	1020	0.08	2.4	0.05	0.7	0.12	1.7	1.5	43	0.36	11.0	3.1	43	0.08	34.86	24.6	8.16	5.37	0.61
T1-50m	5/16/18	1021	0.15	4.5	0.26	3.7	1.52	21.3	4.7	133	0.53	16.5	19.6	274	0.02	34.73	25.5	8.16	6.04	0.11
Geomean	FY '18		3.8		3.4		4.8				12.9		71		0.06					0.23
T1-50m	9/24/18	943	0.10	3.1	0.16	2.3	0.33	4.6	6.6	187	0.44	13.5	4.7	66	0.11	34.61	27.7	8.18	5.29	0.21
T1-50m	11/13/18	1029	0.05	1.5	0.41	5.7	0.25	3.5	1.7	49	0.35	10.7	3.9	55	0.10	34.98	27.3	8.20	4.65	0.20
T1-50m	1/22/19	1016	0.10	3.1	0.19	2.6	0.04	0.5	1.6	44	0.38	11.7	2.2	30	0.06	34.80	25.0	8.22	5.70	0.36
T1-50m	4/16/19	1012	0.14	4.3	0.38	5.3	0.38	5.3	4.6	130	0.41	12.6	2.9	41	0.04	35.59	25.6	8.11	7.20	0.12
Geomean	FY '19		2.8		3.6		2.6				12.1		46		0.07					0.21
T1-50m	8/13/19	1148	0.04	1.3	0.16	2.3	0.09	1.3	3.1	88	0.29	8.9	2.2	30	0.10	35.68	28.3	8.22	6.54	0.12
T1-50m	11/19/19	1146	0.11	3.5	0.29	4.1	0.60	8.4	1.8	50	0.38	11.7	2.6	36	0.10	34.81	27.6	8.24	6.70	0.17
T1-50m	1/22/20	943	0.11	3.5	0.16	2.3	0.09	1.3	0.5	15	0.39	12.1	2.5	36	0.04	34.92	25.0	8.22	6.68	0.19
T1-50m	6/24/10	1019	0.08	2.4	0.16	2.3	0.09	1.3	1.9	55	0.36	11.0	2.4	34	0.07	35.34	25.8	8.16	6.88	0.33
Geomean	FY '20		2.5		2.6		2.0				10.9		34		0.07					0.19

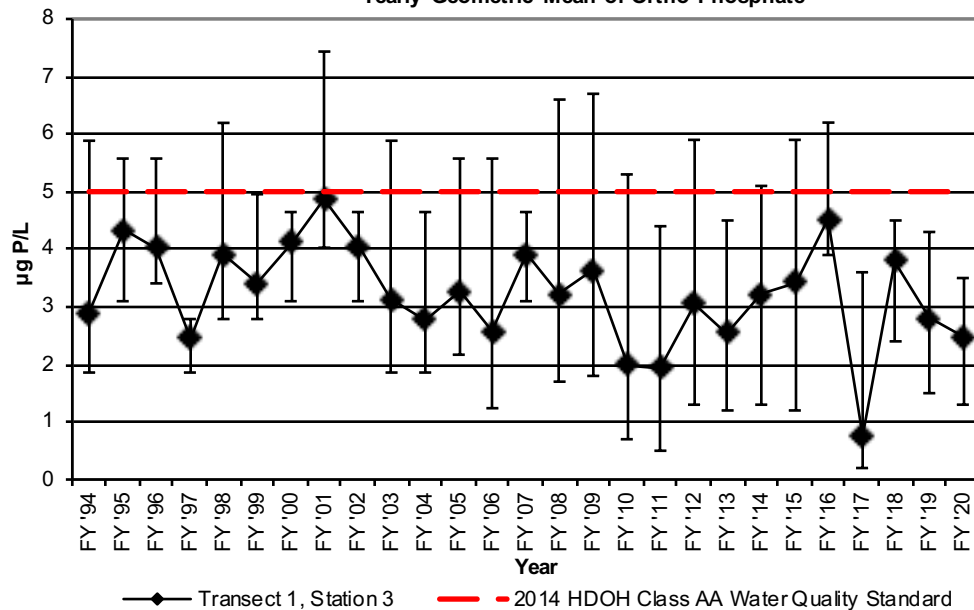
NELHA Water Quality Laboratory

Transect 1, Station 3

7/27/93 - 7/14/20

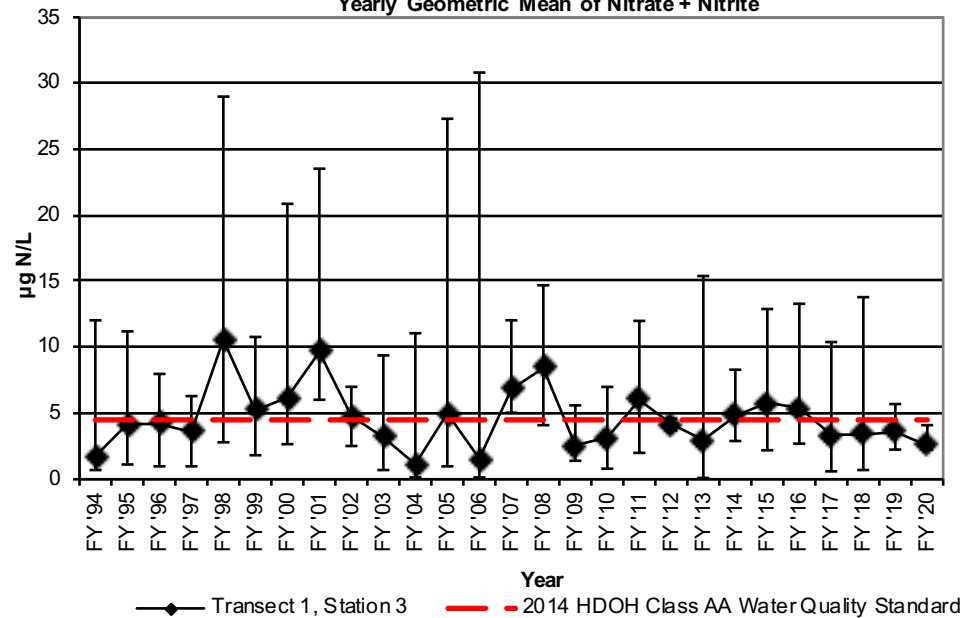
NELHA Offshore Transect 1, Station 3

Yearly Geometric Mean of Ortho-Phosphate



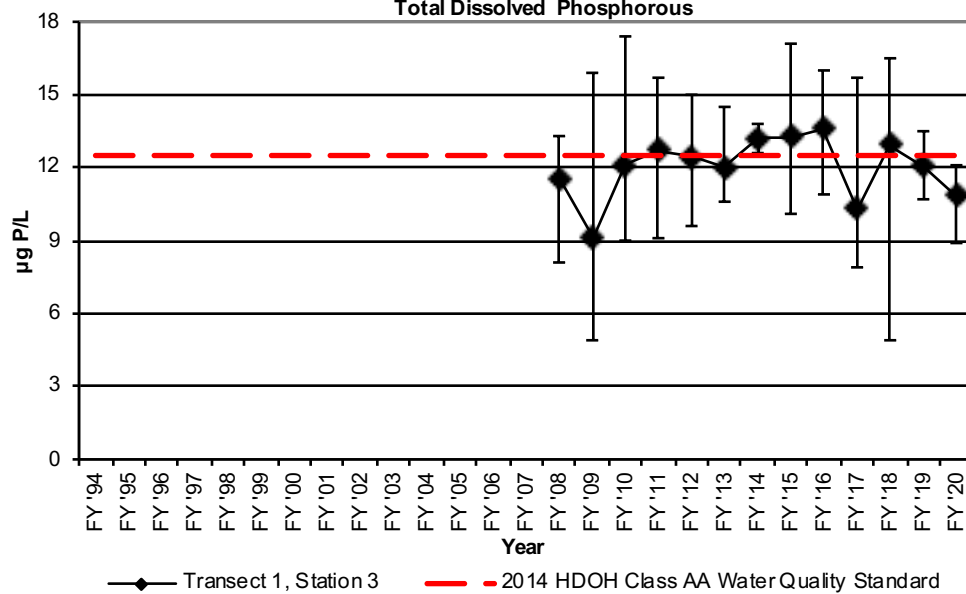
NELHA Offshore Transect 1, Station 3

Yearly Geometric Mean of Nitrate + Nitrite



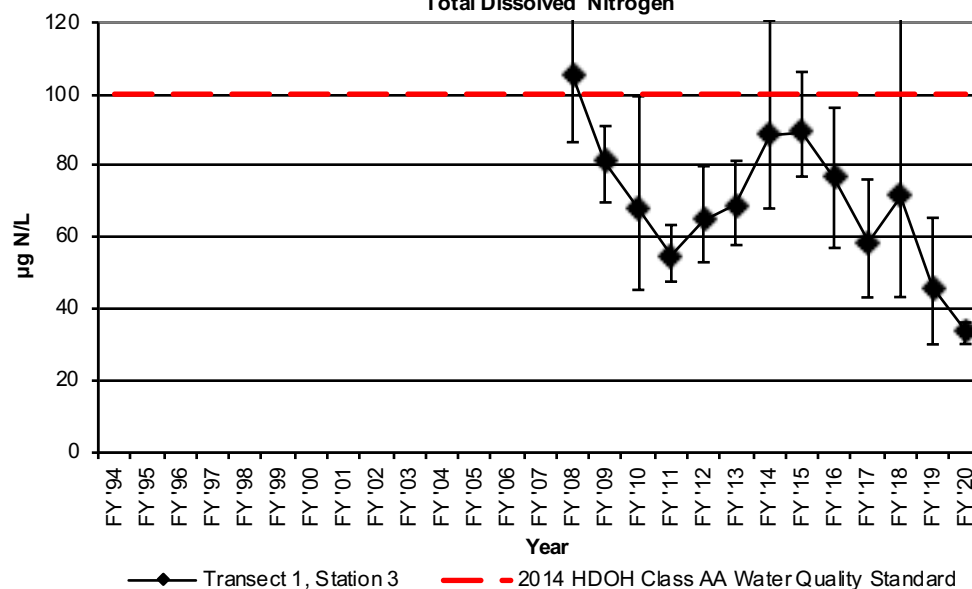
NELHA Offshore Transect 1, Station 3

Yearly Geometric Mean of
Total Dissolved Phosphorous



NELHA Offshore Transect 1, Station 3

Yearly Geometric Mean of
Total Dissolved Nitrogen

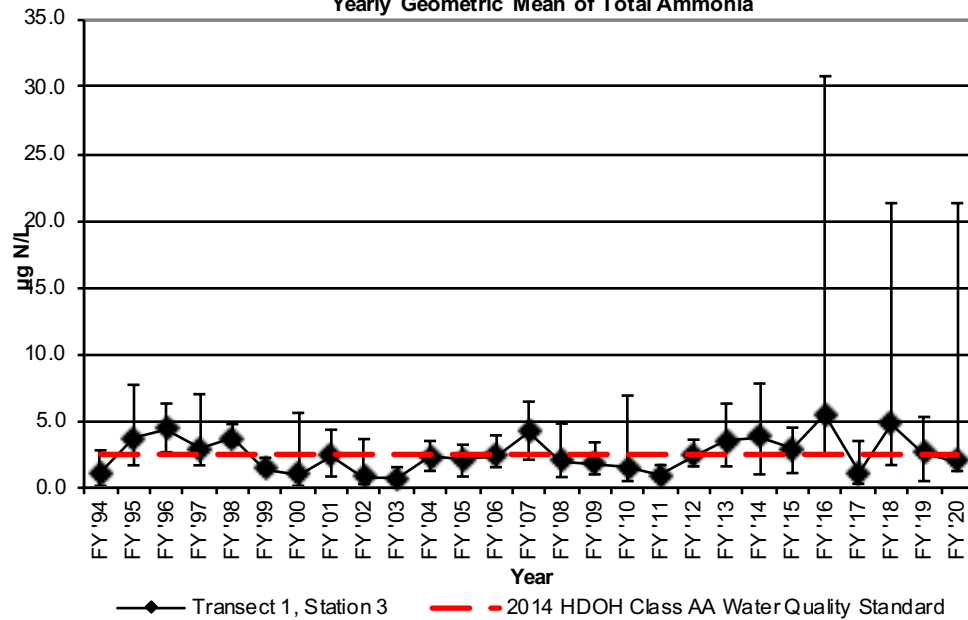


NELHA Water Quality Laboratory

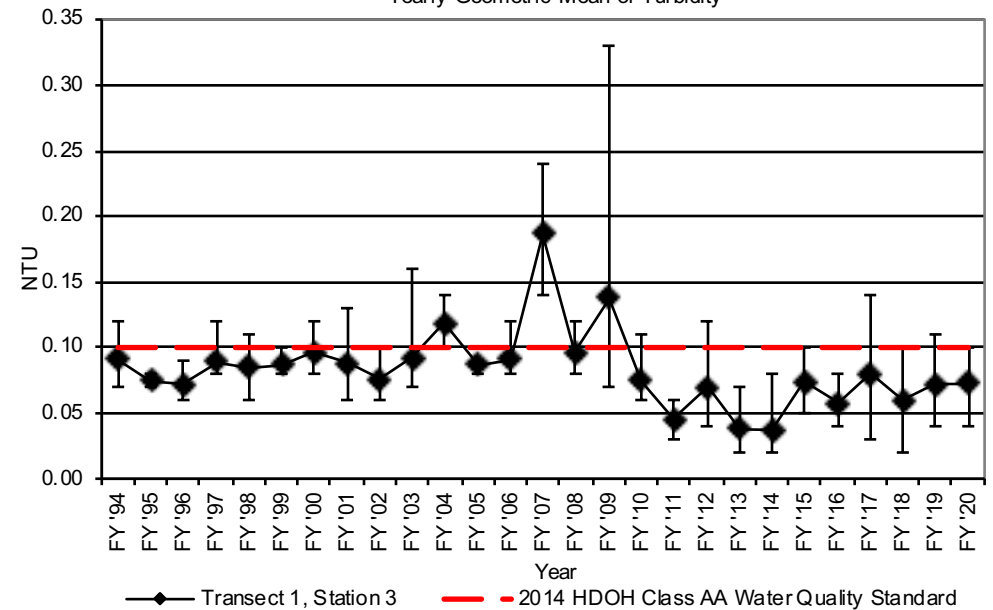
Transect 1, Station 3

7/27/93 - 7/14/20

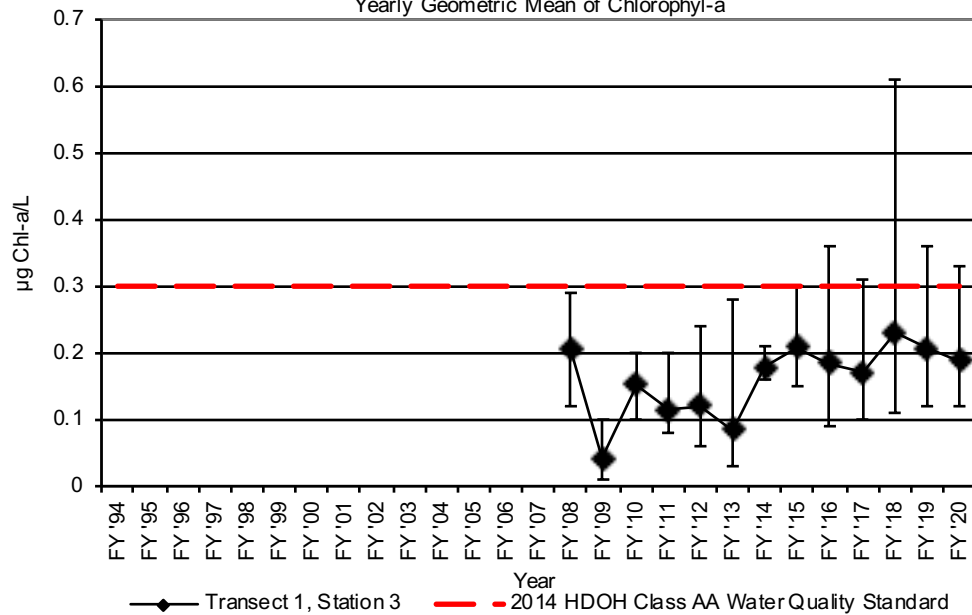
NELHA Offshore Transect 1, Station 3
Yearly Geometric Mean of Total Ammonia



NELHA Offshore Transect 1, Station 3
Yearly Geometric Mean of Turbidity



NELHA Offshore Transect 1, Station 3
Yearly Geometric Mean of Chlorophyll-a



NELHA Water Quality Laboratory

Transect 1, Station 4

7/27/1993 - 7/14/20

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		Turbidity	Salinity	Temp.	pH	DO	Chl a
	M/D/Y	(2400)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg N/L)	(μM)	(μg Si/L)	(μM)	(μg P/L)	(μM)	(μg N/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(μg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O1-4S-53m	7/27/93	1136	0.11	3.4	0.09	1.3	0.24	3.4	3.8	107					0.07	34.516	26.6			
O1-4S-53m	12/7/93	1041	0.06	1.9	0.14	2.0	0.11	1.5	2.4	66					0.06	34.817	25.8			
O1-4S-53m	3/16/94	1020	0.19	5.9	0.60	8.4	0.17	2.4	8.3	233					0.11	34.343	24.7			
O1-4S-53m	6/14/94	1008	0.11	3.4	0.02	0.3	0.01	0.1	1.8	49					0.07	34.588	25.4			
Geomean FY '94			3.4		1.6		1.1								0.08					
O1-4S-53m	9/15/94	1027	0.09	2.8	0.02	0.3	0.11	1.5	2.8	80					0.07	34.633	27.6			
O1-4S-53m	11/16/94	927	0.18	5.6	0.85	11.9	0.52	7.3	10.8	303					0.07	34.325	26.0			
O1-4S-53m	3/21/95	1149	0.18	5.6	0.10	1.4	0.15	2.1	3.3	94					0.08	34.215	25.1			
O1-4S-53m	6/26/95	943	0.21	6.5	1.23	17.2	0.20	2.8	17.5	493					0.08	34.145	26.7			
Geomean FY '95			4.9		3.0		2.9								0.07					
O1-4S-53m	9/25/95	844	0.16	5.0	1.34	18.8	0.22	3.1	16.2	454					0.13	34.048	27.0			
O1-4S-53m	11/13/95	1140	0.11	3.4	0.01	0.1	0.36	5.0	1.7	49					0.05	34.361	27.1			
O1-4S-53m	3/11/96	921	0.14	4.3	0.79	11.1	0.38	5.3	7.6	215					0.06	34.017	25.3			
O1-4S-53m	5/13/96	844	0.14	4.3	0.82	11.5	0.28	3.9	11.3	316					0.09	34.023	26.6			
Geomean FY '96			4.2		4.3		4.2								0.08					
O1-4S-53m	7/30/96	840	0.07	2.2	0.28	3.9	0.10	1.4	5.9	165					0.06	34.455	27.9			
O1-4S-53m	10/1/96	1152	0.06	1.9	0.57	8.0	0.61	8.5	7.1	200					0.08	34.720	27.9			
O1-4S-53m	1/6/97	1159	0.09	2.8	0.22	3.1	0.14	2.0	3.6	100					0.08	34.704	25.6			
O1-4S-53m	4/21/97	1146	0.09	2.8	0.40	5.6	0.22	3.1	2.2	61					0.09	34.555	26.4			
Geomean FY '97			2.4		4.8		2.9								0.08					
O1-4S-53m	8/18/97	1130	0.14	4.3	1.38	19.3	0.23	3.2	17.2	482					0.11	34.185	27.1			
O1-4S-53m	10/6/97	1151	0.10	3.1	0.16	2.2	0.36	5.0	4.0	112					0.07	34.698	27.5			
O1-4S-53m	3/3/98	1152	0.11	3.4	0.56	7.8	0.21	2.9	5.7	160					0.09	34.926	25.1			
O1-4S-53m	5/4/98	1102	0.23	7.1	2.69	37.7	0.26	3.6	28.2	791					0.09	34.213	23.8			
Geomean FY '98			4.2		10.6		3.6								0.09					
O1-4S-53m	7/6/98	1204	0.10	3.1	0.16	2.2	0.10	1.4	3.8	106					0.11	35.008	26.5			
O1-4S-53m	10/5/98	1134	0.09	2.8	0.12	1.7	0.11	1.5	1.8	50					0.09	34.974	27.4			
O1-4S-53m	1/13/99	1143	0.11	3.4	0.67	9.4	0.18	2.5	8.2	231					0.07	34.942	25.2			
O1-4S-53m	4/12/99	912	0.17	5.3	0.74	10.4	0.08	1.1	9.7	272					0.08	34.500	24.0			
Geomean FY '99			3.5		4.4		1.6								0.09					

NELHA Water Quality Laboratory

Transect 1, Station 4

7/27/1993 - 7/14/20

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		Turbidity	Salinity	Temp.	pH	DO	Chl a
	M/D/Y	(2400)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg N/L)	(μM)	(μg Si/L)	(μM)	(μg P/L)	(μM)	(μg N/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(μg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O1-4S-53m	7/6/99	915	0.12	3.7	0.19	2.7	0.05	0.7	6.6	184					0.08	34.938	25.6			
O1-4S-53m	10/4/99	1005	0.12	3.7	0.32	4.5	0.13	1.8	4.9	138					0.07	34.938	25.9			
O1-4S-53m	1/4/00	1159	0.15	4.6	1.49	20.9	0.39	5.5	13.1	367					0.08	34.810	24.5			
O1-4S-53m	4/17/00	951	0.14	4.3	0.38	5.3	0.04	0.6	5.8	162					0.05	34.567	24.2			
Geomean FY '00			4.1		6.0		1.4								0.07					
O1-4S-53m	7/24/00	1220	0.14	4.3	0.94	13.2	0.09	1.3	13.5	378					0.10	34.599	27.4			
O1-4S-53m	10/30/00	1234	0.13	4.0	0.27	3.8	0.31	4.3	6.5	181					0.08	34.912	27.1			
O1-4S-53m	2/26/01	1218	0.21	6.5	1.14	16.0	0.20	2.8	18.1	508					0.10	34.299	24.9			
O1-4S-53m	5/7/01	1008	0.16	5.0	0.95	13.3	0.30	4.2	9.0	253					0.07	34.700	24.6			
Geomean FY '01			4.9		10.1		2.8								0.09					
O1-4S-53m	8/21/01	1143	0.16	5.0	0.57	8.0	0.02	0.3	5.4	153					0.11	34.713	26.7			
O1-4S-53m	10/8/01	936	0.10	3.1	0.18	2.5	0.11	1.5	3.0	85					0.07	34.940	27.1			
O1-4S-53m	3/5/02	1052	0.14	4.3	0.36	5.0	0.02	0.3	5.0	140					0.09	34.665	24.2			
O1-4S-53m	4/17/02	1112	0.15	4.6	0.33	4.6	0.18	2.5	8.0	225					0.10	34.440	25.7			
Geomean FY '02			4.2		4.7		0.7								0.09					
O1-4S-53m	7/8/02	1002	0.14	4.3	0.04	0.6	0.10	1.4	3.2	90					0.10	34.660	26.5			
O1-4S-53m	10/9/02	1055	0.07	2.2	0.35	4.9	0.06	0.8	3.8	106					0.12	34.921	27.0			
O1-4S-53m	3/11/03	941	0.19	5.9	1.95	27.3	0.04	0.6	13.1	367					0.11	34.622	24.5			
O1-4S-53m	4/22/03	1049	0.14	4.3	0.81	11.3	0.08	1.1	6.7	187					0.08	34.902	25.2			
Geomean FY '03			3.9		5.4		0.9								0.10					
O1-4S-53m	8/18/03	1055	0.04	1.2	0.01	0.1	0.30	4.2	2.8	78					0.08	34.835	27.8			
O1-4S-53m	10/29/03	1016	0.05	1.5	0.04	0.6	0.05	0.7	3.0	83					0.09	34.839	27.6			
O1-4S-53m	3/11/04	931	0.13	4.0	0.02	0.3	0.05	0.7	1.7	46					n/a	34.241	25.6			
O1-4S-53m	5/20/04	948	0.12	3.7	0.20	2.8	0.21	2.9	4.8	134					n/a	33.48	26.6			
Geomean FY '04			2.3		0.5		1.6								0.08					
O1-4S-53m	9/20/04	918	0.09	2.8	0.07	1.0	0.27	3.8	2.3	66					0.18	33.66	27.9			
O1-4S-53m	11/17/04	851	0.10	3.1	0.25	3.5	0.13	1.8	2.4	66					0.09	33.62	27.4			
O1-4S-53m	1/13/05	1014	0.04	1.2	0.01	0.1	0.04	0.6	1.8	49					0.08	34.860	25.9			
O1-4S-53m	4/11/05	1003	0.24	7.4	2.35	32.9	0.25	3.5	16.1	451					0.08	34.031	25.1			
Geomean FY '05			3.0		2.0		1.9								0.10					

NELHA Water Quality Laboratory

Transect 1, Station 4

7/27/1993 - 7/14/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O1-4S-53m	7/20/05	950	0.13	4.0	1.50	21.0	0.17	2.4	0.9	26					0.10	34.401	26.5			
O1-4S-53m	10/11/05	840	0.05	1.5	0.06	0.8	0.18	2.5	4.2	117					0.08	34.907	26.5			
O1-4S-53m	3/13/06	924	0.10	3.1	0.09	1.3	0.26	3.6	2.6	73					0.10	34.807	24.6			
O1-4S-53m	5/15/06	927	0.16	5.0	1.73	24.2	0.17	2.4	20.0	562					0.12	34.192	25.0			
Geomean	FY '06		3.1		4.8		2.7								0.10					
O1-4S-53m	8/14/06	916	0.13	4.0	0.54	7.6	0.22	3.1	4.4	124					0.18	34.579	26.5			
O1-4S-53m	11/1/06	920	0.10	3.1	0.33	4.6	0.41	5.7	5.0	141					0.21	34.756	26.7			
O1-4S-53m	2/12/07	943	0.18	5.6	1.40	19.6	0.46	6.4	9.3	261					0.31	34.333	24.5			
O1-4S-53m	4/9/07	919	0.14	4.3	0.51	7.1	0.33	4.6	6.4	180					0.45	34.597	25.3			
Geomean	FY '07		4.2		8.4		4.8								0.27					
T1-100m	9/26/07	928	0.18	5.7	0.35	4.9	0.12	1.7	4.1	114	0.45	13.8	4.9	68	0.07	34.920	26.8	8.14	6.33	0.16
T1-100m	12/13/07	1039	0.10	3.1	0.27	3.8			15.0	422	0.36	11.2	5.2	73	0.12	34.490	25.7	8.3	6.15	0.27
T1-100m	3/10/08	940	0.14	4.3	0.59	8.2	0.06	0.8	5.6	159	0.45	13.8	8.1	113	0.07	34.841	24.9	8.12	6.59	0.32
T1-100m	6/5/08	949	0.11	3.3	0.24	3.4	0.16	2.2	17.7	497	0.29	9.0	8.0	111	0.08	34.8144	25.0	8.08	6.72	0.2
Geomean	FY '08		4.0		4.8		1.4				11.8		89		0.08					0.23
T1-100m	9/22/08	1053	0.06	1.8	0.14	2	0.15	2.1	2.3	66	0.25	7.8	4.9	68	0.10	34.814	26.6	8.01	6.83	0.1
T1-100m	11/17/08	932	0.15	4.7	0.07	1	0.14	1.9	3.7	104	0.39	12.1	5.8	81	0.09	34.934	25.7	8.22	6.11	0.07
T1-100m	2/9/09	933	0.09	2.9	0.16	2.2	0.12	1.7	1.7	49	0.22	6.7	5.4	76	0.14	35.058	24.9	8.06	6.15	0.01
T1-100m	4/13/09	923	0.23	7.1	0.23	3.2	0.34	4.7	3.8	107	0.48	14.8	4.9	69	0.16	34.968	24.0	8.15	5.90	0.05
Geomean	FY '09		3.6		1.9		2.4				9.8		73		0.12					0.04
T1-100m	9/9/09	926	0.13	4.1	0.16	2.2	0.10	1.4	6.0	169	0.50	15.6	5.3	75	0.12	35.16	26.9	8.23	5.50	0.27
T1-100m	11/23/09	942	0.03	0.8	0.43	6	0.12	1.7	33.5	941	0.42	12.9	7.7	108	0.09	35.13	25.3	8.26	6.13	0.13
T1-100m	2/23/10	951	0.17	5.2	0.22	3.1	0.48	6.7	93.0	2612	0.40	12.3	4.4	62	0.05	35.06	24.6	8.21	6.13	0.34
T1-100m	5/25/10	1109	0.02	0.7	0.07	1	0.04	0.5	4.1	114	0.29	9	4.6	65	0.08	35.01	24.9	8.25	6.84	0.1
Geomean	FY '10		1.9		2.5		1.7				12.2		75		0.08					0.19
T1-100m	8/10/10	948	0.04	1.2	0.92	12.9	0.05	0.7	11.5	324	0.58	17.9	4.9	68	0.09	34.73	25.96	8.24	6.42	0.10
T1-100m	11/8/10	938	0.00	0.1	0.25	3.5	0.17	2.4	2.2	62	0.41	12.6	4.7	66	0.08	35.26	26.42	8.24	6.12	0.06
T1-100m	1/11/11	949	0.13	4.1	0.54	7.5	0.01	0.1	5.6	158	0.45	13.8	3.9	55	0.05	35.01	24.97	8.21	6.47	0.11
T1-100m	4/26/11	950	0.12	3.6	0.34	4.8	0.15	2.1	10.5	295	0.43	13.4	4.2	59	0.06	34.97	25.02	8.22	6.46	0.12
Geomean	FY '11		1.2		6.3		0.8				14.3		62		0.07					0.09

NELHA Water Quality Laboratory

Transect 1, Station 4

7/27/1993 - 7/14/20

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		Turbidity	Salinity	Temp.	pH	DO	Chl a
	M/D/Y	(2400)	(µM)	(µg P/L)	(µM)	(µg N/L)	(µM)	(µg N/L)	(µM)	(µg Si/L)	(µM)	(µg P/L)	(µM)	(µg N/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
T1-100m	7/26/11	1006	0.16	5	0.02	0.3	0.09	1.3	1.8	50	0.48	14.8	5.1	71	0.08	34.86	26.18	8.26	6.42	0.07
T1-100m	10/18/11	938	0.02	0.6	0.21	2.9	0.18	2.5	3.2	90	0.32	9.8	5.7	80	0.07	35.05	26.58	8.20	6.55	0.09
T1-100m	1/25/12	1006	0.10	3.2	0.51	7.1	0.11	1.5	5.7	159	0.47	14.5	5.6	78	0.09	34.93	24.62	8.17	6.53	0.10
T1-100m	4/24/12	1031	0.11	3.5	0.21	3	0.16	2.3	2.8	79	0.40	12.5	4.3	60	0.13	35.07	24.78	8.21	6.60	0.07
Geomean	FY '12		2.4		2.1		1.8				12.7		72		0.09					0.08
T1-100m	7/24/12	951	0.03	0.9	0.37	5.2	0.23	3.2	2.4	69	0.30	9.4	4.1	58	0.08	35.08	26.30	8.23	6.81	0.14
T1-100m	11/27/12	944	0.09	2.9	0.79	11	0.31	4.3	6.5	184	0.48	15	6.5	91	0.05	35.10	25.07	8.20	6.74	0.20
T1-100m	1/24/13	950	0.05	1.7	0.01	0.1	0.18	2.5	1.1	32	0.44	13.5	5.0	70	0.06	35.10	24.80	8.23	6.43	0.05
T1-100m	4/16/13	956	0.15	4.6	0.19	2.6	0.14	2	0.7	21	0.47	14.5	4.9	68	0.03	35.17	24.90	8.20	6.85	0.05
Geomean	FY '13		2.1		2.0		2.9				12.9		71		0.05					0.09
T1-100m	8/1/13	905	0.05	1.7	0.34	4.7	0.06	0.8	5.2	145	0.41	12.7	5.1	71	0.06	35.08	26.0	8.24	6.69	0.13
T1-100m	10/29/13	940	0.13	4.1	0.25	3.5	0.57	8.0	2.2	62	0.43	13.4	6.2	87	0.02	35.30	27.1	8.21	6.17	0.23
T1-100m	2/4/14	941	0.12	3.7	0.54	7.5	0.41	5.8	4.3	121	0.39	12.1	6.4	90	0.02	34.87	25.2	8.21	6.31	0.16
T1-100m	5/6/14	940	0.11	3.3	0.32	4.5	0.30	4.2	3.2	91	0.45	13.9	6.5	91	0.06	34.74	25.9	8.22	6.37	0.17
Geomean	FY '14		3.0		4.9		3.5				13.0		84		0.03					0.17
T1-100m	8/5/14	952	0.18	5.6	0.24	3.4	0.41	5.8	2.6	74	0.54	16.6	5.4	75	0.09	34.94	26.8	8.21	5.93	0.13
T1-100m	11/17/14	1130	0.17	5.2	0.21	2.9	0.46	6.4	0.7	20	0.43	13.4	6.2	87	0.09	34.99	27.1	8.22	6.78	0.22
T1-100m	3/3/15	946	0.02	0.7	0.36	5.0	0.07	1.0	2.9	82	0.32	10.0	8.0	113	0.07	34.79	25.5	8.15	6.74	0.14
T1-100m	6/16/15	1057	0.16	5.0	1.49	20.8	0.27	3.8	11.0	309	0.55	16.9	6.5	91	0.05	35.81	26.5	8.20	6.05	0.15
Geomean	FY '15		3.2		5.7		3.4				13.9		90		0.07					0.16
T1-100m	8/26/15	1157	0.13	4.0	0.28	3.9	0.21	2.9	5.1	142	0.40	12.4	3.8	53	0.03	34.44	28.4	8.21	6.03	0.43
T1-100m	11/17/15	956	0.14	4.2	0.36	5.1	0.14	1.9	3.5	98	0.53	16.5	7.3	103	0.05	33.92	27.3	8.21	6.11	0.18
T1-100m	3/1/16	958	0.15	4.5	0.29	4.1	0.31	4.4	0.6	17	0.47	14.5	5.4	75	0.07	34.77	25.4	8.24	5.68	0.08
T1-100m	5/3/16	931	0.18	5.5	1.30	18.2	0.21	3.0	8.5	240	0.42	12.9	7.3	103	0.07	34.57	25.5	8.23	6.26	0.29
Geomean	FY '16		4.5		6.2		2.9				14.0		81		0.05					0.21
T1-100m	7/6/16	1010	0.11	3.5	0.20	2.8	0.71	10.0	2.9	82	0.11	3.5	5.2	73	0.09	34.47	26.8	8.25	6.59	0.24
T1-100m	12/20/16	1004	0.08	2.4	0.51	7.2	0.25	3.5	6.2	175	0.34	10.4	2.9	40	0.03	34.68	25.6	8.25	5.44	0.17
T1-100m	2/28/17	904	0.00	0.1	0.12	1.7	0.04	0.6	0.6	18	0.28	8.8	4.6	65	0.07	34.67	24.7	8.23	6.63	0.17
T1-100m	5/9/17	1024	0.04	1.3	0.06	0.9	0.09	1.2	0.5	15	0.26	7.9	5.0	70	0.09	34.66	25.6	8.20	4.62	0.08
Geomean	FY '17		1.0		2.4		2.2				7.1		60		0.06					0.15

NELHA Water Quality Laboratory

Transect 1, Station 4

7/27/1993 - 7/14/20

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		Turbidity	Salinity	Temp.	pH	DO	Chl a
	M/D/Y	(2400)	(µM)	(µg P/L)	(µM)	(µg N/L)	(µM)	(µg N/L)	(µM)	(µg Si/L)	(µM)	(µg P/L)	(µM)	(µg N/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
T1-100m	9/27/17	954	0.11	3.5	0.16	2.3	0.12	1.7	1.6	46	0.43	13.3	4.3	60	0.09	34.76	27.8	8.20	4.35	0.17
T1-100m	11/28/17	1048	0.12	3.8	0.69	9.6	0.34	4.7	4.4	124	0.40	12.3	2.7	38	0.09	34.98	26.1	8.18	4.48	0.21
T1-100m	1/30/18	1026	0.08	2.5	0.04	0.6	0.14	1.9	1.5	41	0.34	10.6	2.1	30	0.08	34.90	24.6	8.16	5.36	0.18
T1-100m	5/16/18	1026	0.07	2.1	0.04	0.5	0.11	1.5	2.5	71	0.35	10.7	2.1	29	0.02	34.74	25.5	8.16	5.95	0.11
Geomean	FY '18		2.9		1.6		2.2				11.7		38		0.06					0.16
T1-100m	9/24/18	952	0.07	2.2	0.16	2.3	0.29	4.1	6.5	184	0.48	14.8	6.1	85	0.08	34.60	27.7	8.16	5.10	0.17
T1-100m	11/13/18	1033	0.02	0.6	0.19	2.6	0.24	3.4	0.3	9	0.35	10.8	5.6	79	0.08	35.01	27.2	8.20	4.60	0.21
T1-100m	1/22/19	1021	0.10	3.2	0.34	4.8	0.02	0.3	2.6	73	0.39	12.0	2.6	36	0.07	34.87	25.0	8.23	5.71	0.36
T1-100m	4/16/19	1018	0.12	3.8	0.21	2.9	0.39	5.5	1.9	53	0.40	12.4	2.1	29	0.04	35.66	25.7	8.12	7.22	0.09
Geomean	FY '19		2.0		3.0		2.2				12.4		52		0.07					0.18
T1-100m	8/13/19	1152	0.04	1.1	0.09	1.2	0.18	2.5	4.6	129	0.30	9.2	2.7	38	0.10	35.58	28.4	8.22	6.71	0.23
T1-100m	11/19/19	1151	0.11	3.4	0.17	2.4	0.60	8.4	0.6	16	0.40	12.5	2.3	32	0.09	34.78	27.6	8.23	6.65	0.19
T1-100m	1/22/20	949	0.10	3.1	0.16	2.3	0.09	1.3	-0.2	-5	0.38	11.9	2.3	32	0.06	34.91	25.1	8.22	6.66	0.25
T1-100m	6/24/10	1023	0.08	2.4	0.16	2.3	0.09	1.3	2.4	67	0.33	10.3	2.2	31	0.07	35.28	25.8	8.16	6.84	0.32
Geomean	FY '20		2.3		2.0		2.4				10.9		33		0.08					0.24

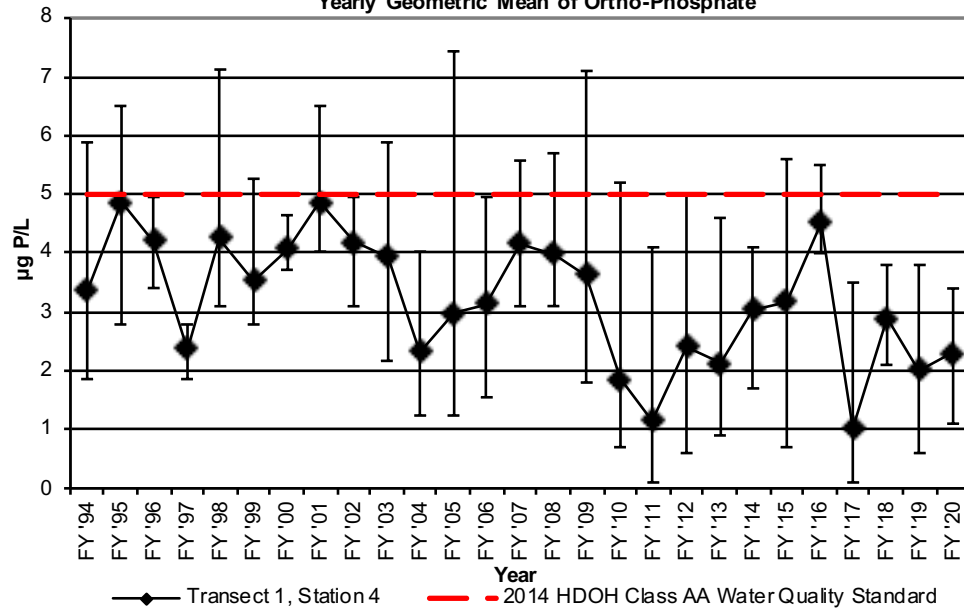
NELHA Water Quality Laboratory

Transect 1, Station 4

7/27/1993 - 7/14/20

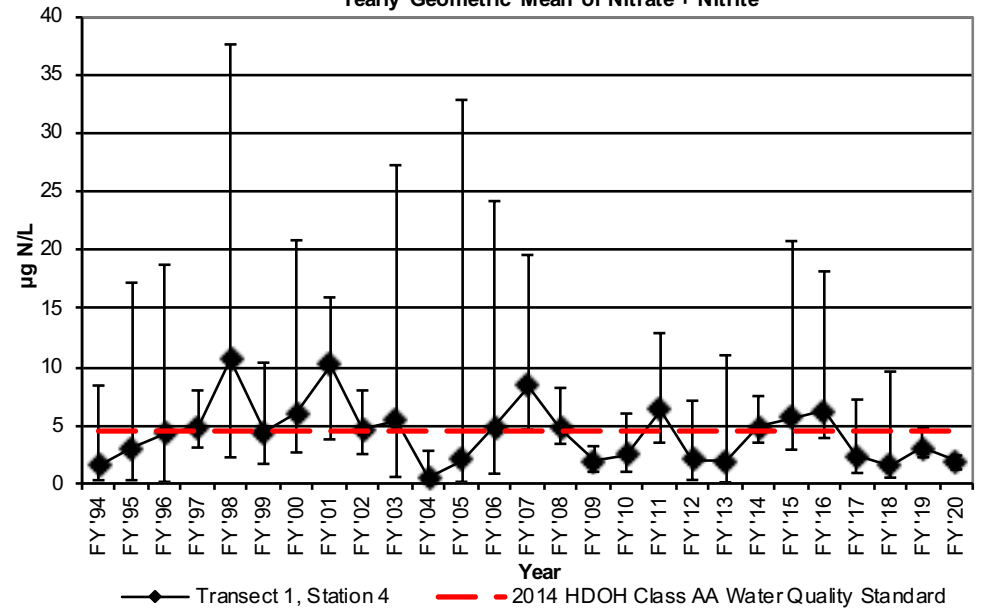
NELHA Offshore Transect 1, Station 4

Yearly Geometric Mean of Ortho-Phosphate



NELHA Offshore Transect 1, Station 4

Yearly Geometric Mean of Nitrate + Nitrite



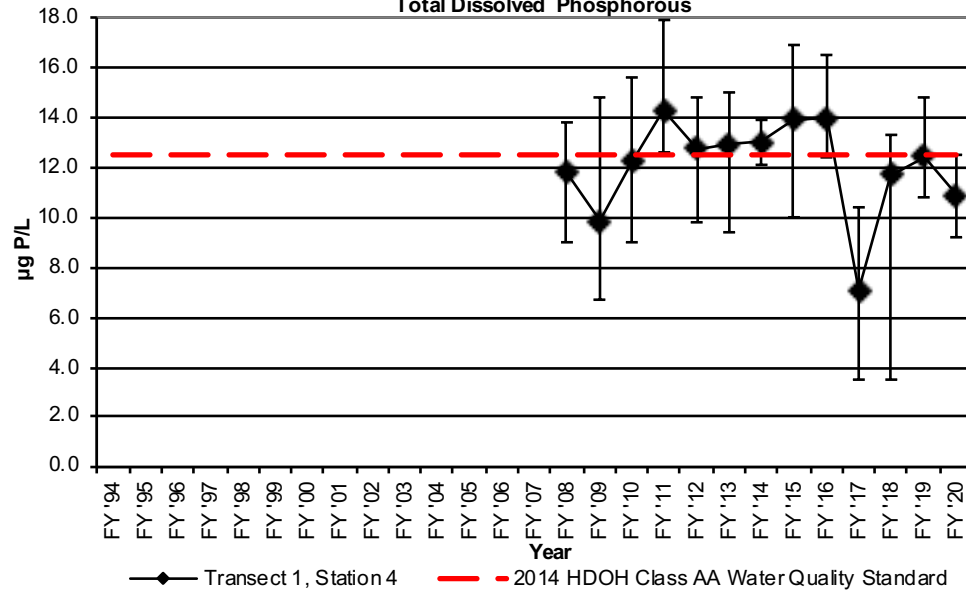
NELHA Water Quality Laboratory

Transect 1, Station 4

7/27/1993 - 7/14/20

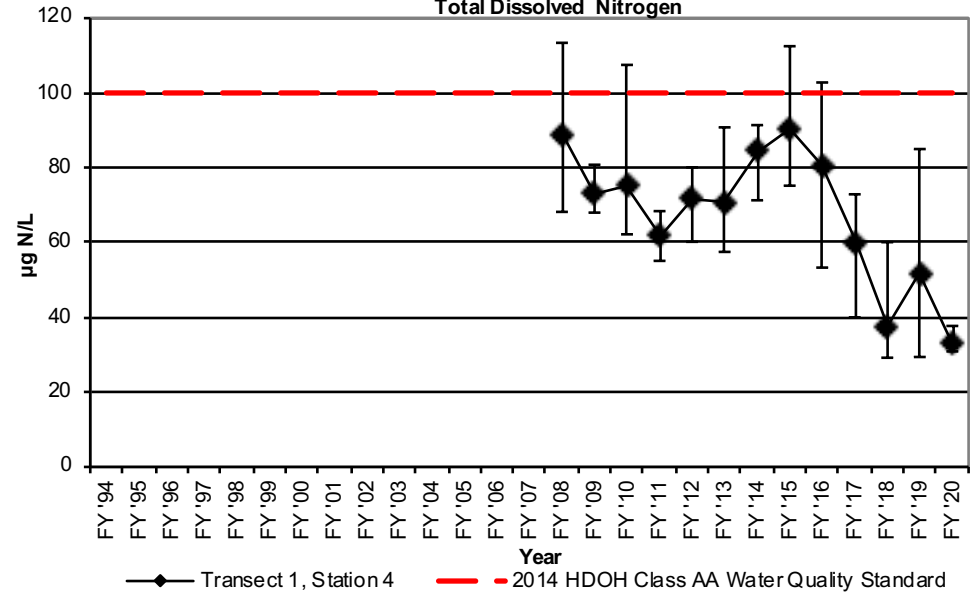
NELHA Offshore Transect 1, Station 4

Yearly Geometric Mean of
Total Dissolved Phosphorous



NELHA Offshore Transect 1, Station 4

Yearly Geometric Mean of
Total Dissolved Nitrogen

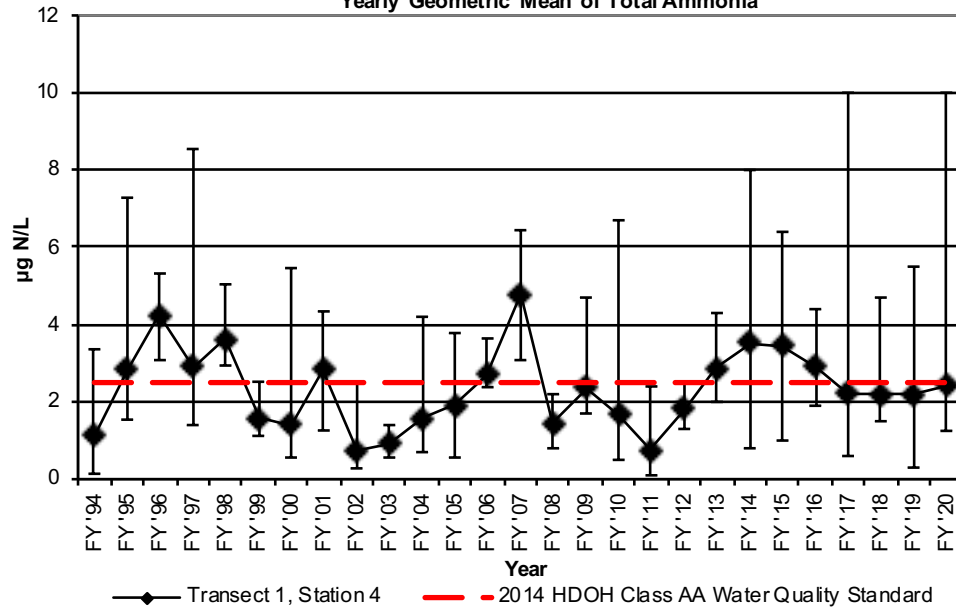


NELHA Water Quality Laboratory

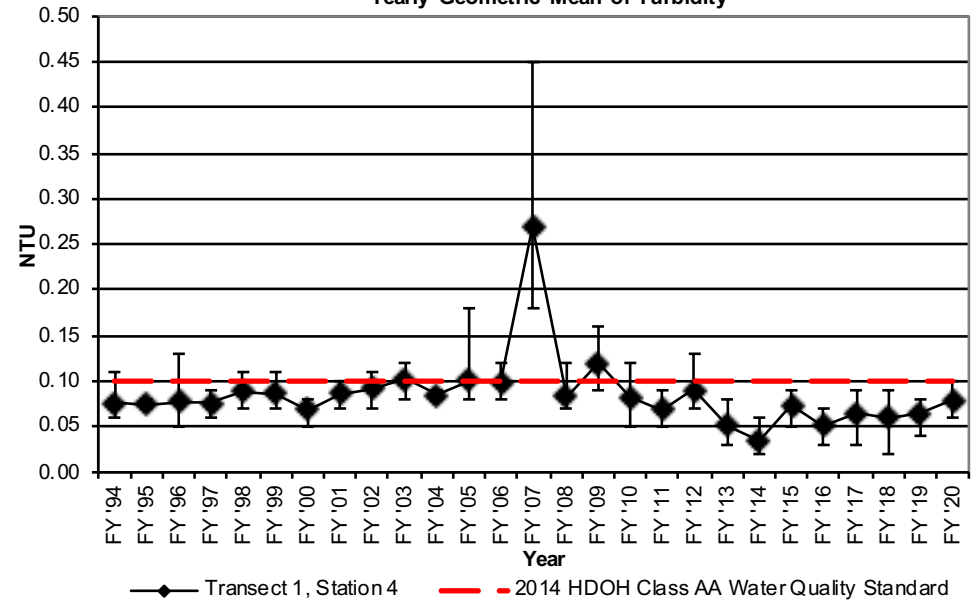
Transect 1, Station 4

7/27/1993 - 7/14/20

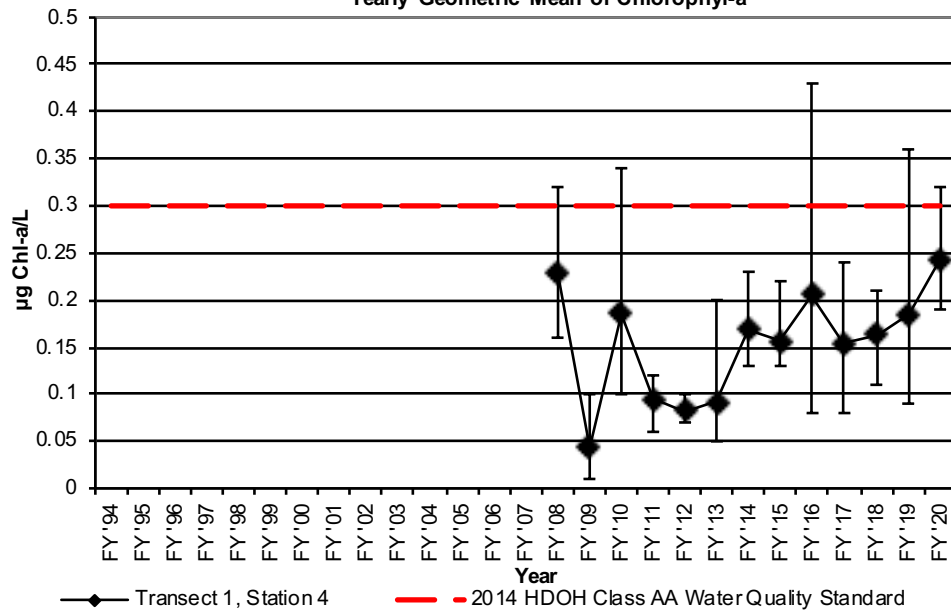
NELHA Offshore Transect 1, Station 4
Yearly Geometric Mean of Total Ammonia



NELHA Offshore Transect 1, Station 4
Yearly Geometric Mean of Turbidity



NELHA Offshore Transect 1, Station 4
Yearly Geometric Mean of Chlorophyll-a



NELHA Water Quality Laboratory

Transect 1, Station 5

7/27/93 - 7/14/20

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		Turbidity	Salinity	Temp.	pH	DO	Chl a
	M/D/Y	(2400)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg N/L)	(μM)	(μg Si/L)	(μM)	(μg P/L)	(μM)	(μg N/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(μg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O1-5S-69m	7/27/93	1125	0.04	1.2	0.01	0.1	0.18	2.5	3.8	107					0.07	34.499	26.6			
O1-5S-69m	12/7/93	1031	0.06	1.9	0.10	1.4	0.18	2.5	2.4	68					0.08	34.817	25.9			
O1-5S-69m	3/16/94	1012	0.18	5.6	0.45	6.3	0.20	2.8	9.0	252					0.09	34.400	24.8			
O1-5S-69m	6/14/94	1001	0.10	3.1	0.04	0.6	0.01	0.1	2.0	57					0.08	34.585	25.4			
Geomean	FY '94		2.5		0.9		1.3								0.08					
O1-5S-69m	9/15/94	1020	0.08	2.5	0.02	0.3	0.09	1.3	3.6	101					0.09	34.634	27.6			
O1-5S-69m	11/16/94	923	0.18	5.6	0.92	12.9	0.55	7.7	12.3	345					0.06	34.295	26.0			
O1-5S-69m	3/21/95	1142	0.17	5.3	0.01	0.1	0.12	1.7	4.1	115				0.10	34.215	25.1				
O1-5S-69m	6/26/95	940	0.17	5.3	1.19	16.7	0.53	7.4	15.2	426				0.08	34.165	26.7				
Geomean	FY '95		4.4		1.7		3.3								0.08					
O1-5S-69m	9/25/95	835	0.11	3.4	0.52	7.3	0.26	3.6	10.2	286					0.12	34.388	27.1			
O1-5S-69m	11/13/95	1131	0.11	3.4	0.02	0.3	0.40	5.6	2.1	58					0.06	34.370	27.1			
O1-5S-69m	3/11/96	914	0.14	4.3	0.74	10.4	0.39	5.5	7.2	202				0.08	34.285	25.0				
O1-5S-69m	5/13/96	838	0.10	3.1	0.01	0.1	0.26	3.6	3.1	88				0.05	34.311	27.4				
Geomean	FY '96		3.5		1.3		4.5								0.07					
O1-5S-69m	7/30/96	830	0.09	2.8	0.31	4.3	0.12	1.7	3.9	108					0.08	34.448	28.2			
O1-5S-69m	10/1/96	1147	0.06	1.9	1.42	19.9	0.69	9.7	15.4	431					0.08	34.280	27.8			
O1-5S-69m	1/6/97	1153	0.09	2.8	0.16	2.2	0.17	2.4	3.0	84				0.08	34.700	25.7				
O1-5S-69m	4/21/97	1136	0.09	2.8	0.38	5.3	0.25	3.5	1.9	54				0.07	34.554	26.5				
Geomean	FY '97		2.5		5.7		3.4								0.08					
O1-5S-69m	8/18/97	1125	0.17	5.3	1.90	26.6	0.23	3.2	22.4	628					0.11	34.021	27.2			
O1-5S-69m	10/6/97	1145	0.10	3.1	0.24	3.4	0.32	4.5	13.8	387					0.08	34.665	27.4			
O1-5S-69m	3/3/98	1145	0.11	3.4	0.50	7.0	0.22	3.1	7.3	204				0.08	34.936	25.1				
O1-5S-69m	5/4/98	1056	0.28	8.7	3.87	54.2	0.21	2.9	65.9	1851				0.10	33.838	23.7				
Geomean	FY '98		4.7		13.6		3.4								0.09					
O1-5S-69m	7/6/98	1155	0.10	3.1	0.16	2.2	0.10	1.4	4.1	115					0.10	34.997	26.4			
O1-5S-69m	10/5/98	1127	0.12	3.7	0.81	11.3	0.16	2.2	7.5	211					0.10	34.926	27.3			
O1-5S-69m	1/13/99	1137	0.13	4.0	1.11	15.5	0.10	1.4	11.5	324				0.11	34.822	25.2				
O1-5S-69m	4/12/99	906	0.18	5.6	1.46	20.4	0.08	1.1	15.5	435				0.09	34.307	24.0				
Geomean	FY '99		4.0		9.5		1.5								0.10					

NELHA Water Quality Laboratory

Transect 1, Station 5

7/27/93 - 7/14/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O1-5S-69m	7/6/99	910	0.11	3.4	0.16	2.2	0.09	1.3	5.0	139					0.09	34.936	25.6			
O1-5S-69m	10/4/99	1000	0.15	4.6	0.64	9.0	0.16	2.2	17.2	482					0.10	34.796	26.0			
O1-5S-69m	1/4/00	1154	0.12	3.7	1.23	17.2	0.40	5.6	10.9	305					0.08	34.884	24.6			
O1-5S-69m	4/17/00	946	0.19	5.9	1.40	19.6	0.02	0.3	16.8	472					0.05	34.221	24.3			
Geomean	FY '00		4.3		9.1		1.5								0.08					
O1-5S-69m	7/24/00	1212	0.10	3.1	0.23	3.2	0.03	0.4	3.1	87					0.09	34.879	27.2			
O1-5S-69m	10/30/00	1228	0.14	4.3	0.36	5.0	0.36	5.0	6.9	195					0.08	34.877	27.1			
O1-5S-69m	2/26/01	1210	0.22	6.8	1.44	20.2	0.20	2.8	26.5	743					0.11	34.138	24.8			
O1-5S-69m	5/7/01	1003	0.14	4.3	0.80	11.2	0.31	4.3	8.3	232					0.08	34.720	24.6			
Geomean	FY '01		4.5		7.8		2.3								0.09					
O1-5S-69m	8/21/01	1126	0.14	4.3	0.29	4.1	0.02	0.3	4.0	112					0.12	34.745	26.7			
O1-5S-69m	10/8/01	929	0.12	3.7	0.11	1.5	0.07	1.0	3.0	83					0.08	34.929	27.2			
O1-5S-69m	3/5/02	1046	0.15	4.6	0.49	6.9	0.06	0.8	7.4	208					0.11	34.574	24.3			
O1-5S-69m	4/17/02	1107	0.13	4.0	0.23	3.2	0.22	3.1	3.6	102					0.08	34.455	25.7			
Geomean	FY '02		4.2		3.4		0.9								0.10					
O1-5S-69m	7/8/02	955	0.12	3.7	0.12	1.7	0.12	1.7	4.7	131					0.08	34.638	26.5			
O1-5S-69m	10/9/02	1050	0.04	1.2	0.11	1.5	0.06	0.8	4.6	130					0.07	34.956	26.9			
O1-5S-69m	3/11/03	933	0.17	5.3	1.62	22.7	0.04	0.6	11.0	308					0.09	34.738	24.4			
O1-5S-69m	4/22/03	1044	0.12	3.7	1.28	17.9	0.09	1.3	7.9	222					0.08	34.845	25.2			
Geomean	FY '03		3.1		5.7		1.0								0.08					
O1-5S-69m	8/18/03	1040	0.04	1.2	0.01	0.1	0.30	4.2	3.4	95					0.02	34.806	27.6			
O1-5S-69m	10/29/03	1006	0.12	3.7	0.01	0.1	0.09	1.3	1.2	34					0.07	34.846	27.5			
O1-5S-69m	3/11/04	924	0.16	5.0	0.66	9.2	0.05	0.7	11.3	316					n/a	34.279	25.8			
O1-5S-69m	5/20/04	954	0.12	3.7	0.08	1.1	0.18	2.5	3.2	91					n/a	33.45	26.6			
Geomean	FY '04		3.0		0.7		1.7								0.04					
O1-5S-69m	9/20/04	912	0.09	2.8	0.08	1.1	0.27	3.8	2.4	68					0.08	33.73	n/a			
O1-5S-69m	11/17/04	844	0.09	2.8	0.18	2.5	0.16	2.2	2.2	62					0.08	33.65	26.8			
O1-5S-69m	1/13/05	1010	0.05	1.5	0.19	2.7	0.05	0.7	2.7	77					0.08	34.854	25.9			
O1-5S-69m	4/11/05	955	0.20	6.2	1.66	23.3	0.38	5.3	12.4	348					0.08	34.175	25.1			
Geomean	FY '05		2.9		3.6		2.4								0.08					

NELHA Water Quality Laboratory

Transect 1, Station 5

7/27/93 - 7/14/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O1-5S-69m	7/20/05	940	0.06	1.9	0.01	0.1	0.13	1.8	1.6	46					0.10	34.730	25.1			
O1-5S-69m	10/11/05	833	0.05	1.5	0.05	0.7	0.13	1.8	2.5	70					0.11	34.906	26.5			
O1-5S-69m	3/13/06	915	0.10	3.1	0.01	0.1	0.25	3.5	2.4	66					0.13	34.824	24.5			
O1-5S-69m	5/15/06	920	0.18	5.6	1.80	25.2	0.11	1.5	17.6	494					0.26	34.243	24.6			
Geomean	FY '06		2.7		0.8		2.1								0.14					
O1-5S-69m	8/14/06	911	0.17	5.3	0.43	6.0	0.33	4.6	4.6	129					0.18	34.579	26.6			
O1-5S-69m	11/1/06	916	0.12	3.7	0.68	9.5	0.46	6.4	6.6	186					0.47	34.748	26.7			
O1-5S-69m	2/12/07	937	0.21	6.5	2.43	34.0	0.26	3.6	14.3	402					0.23	34.175	24.5			
O1-5S-69m	4/9/07	909	0.12	3.7	0.19	2.7	0.40	5.6	4.0	111					0.44	34.664	25.5			
Geomean	FY '07		4.7		8.5		5.0								0.30					
T1-500m	9/26/07	832	0.11	3.5	0.06	0.9	0.31	4.4	5.0	141	0.32	9.9	4.2	59	0.07	34.992	26.8	8.11	6.20	0.05
T1-500m	12/13/07	1044	0.15	4.7	0.03	0.4			5.6	157	0.42	13.0	6.3	89	0.18	34.720	25.7	8.28	6.20	0.2
T1-500m	3/10/08	946	0.15	4.7	0.36	5.1	0.06	0.8	4.5	127	0.38	11.8	7.6	106	0.10	34.888	25.0	8.2	6.53	0.21
T1-500m	6/5/08	953	0.12	3.8	0.13	1.8	0.16	2.2	16.6	466	0.26	7.9	6.5	92	0.08	34.8146	25.0	8.07	6.63	0.13
Geomean	FY '08		4.1		1.3		2.0				10.5		84		0.10					0.13
T1-500m	9/22/08	1101	0.05	1.4	0.05	0.7	0.14	2	1.4	40	0.25	7.8	5.9	83	0.08	34.839	26.7	8.02	6.27	0.05
T1-500m	11/17/08	939	0.16	5	0.04	0.5	0.14	1.9	2.8	80	0.37	11.5	5.5	77	0.20	34.966	25.6	8.24	5.99	0.08
T1-500m	2/9/09	939	0.09	2.9	0.21	2.9	0.12	1.7	2.9	81	0.17	5.2	4.9	69	0.09	35.047	24.9	8.06	6.04	0.01
T1-500m	4/13/09	932	0.14	4.4	0.30	4.2	3.47	48.6	4.6	128	0.48	15	10.5	147	0.18	34.924	24.1	8.15	6.03	0.1
Geomean	FY '09		3.1		1.4		4.2				9.1		90		0.13					0.04
T1-500m	9/9/09	935	0.11	3.5	0.11	1.6	0.12	1.7	6.1	171	0.53	16.4	6.4	90	0.11	35.20	26.8	8.20	5.66	0.26
T1-500m	11/23/09	951	0.03	0.8	0.08	1.1	0.05	0.7	15.9	448	0.40	12.5	5.1	72	0.07	35.18	25.3	8.25	6.16	0.18
T1-500m	2/23/10	1002	0.15	4.6	0.00	0.05	0.48	6.7	14.5	407	0.38	11.9	4.0	57	0.04	35.06	24.6	8.21	6.03	0.23
T1-500m	5/25/10	1115	0.01	0.3	0.01	0.1	0.04	0.5	2.3	66	0.31	9.6	4.8	67	0.11	35.06	25.2	8.22	6.87	0.05
Geomean	FY '10		1.4		0.3		1.4				12.4		70		0.08					0.15
T1-500m	8/10/10	955	0.02	0.6	0.67	9.4	0.05	0.7	7.2	202	0.27	8.3	3.6	50	0.06	34.77	25.98	8.22	6.28	0.06
T1-500m	11/8/10	943	0.00	0.1	0.02	0.3	0.07	1.0	7.0	197	0.32	9.9	4.4	62	0.04	35.31	26.58	8.25	6.17	0.03
T1-500m	1/11/11	957	0.11	3.5	0.00	0.05	0.07	1.0	0.6	17	0.42	13.1	3.0	43	0.04	35.04	25.12	8.21	6.34	0.13
T1-500m	4/26/11	953	0.10	3.2	0.21	3	0.08	1.1	4.7	132	0.46	14.1	3.5	49	0.08	34.94	25.03	8.22	6.33	0.14
Geomean	FY '11		0.9		0.8		0.9				11.1		51		0.05					0.08

NELHA Water Quality Laboratory

Transect 1, Station 5

7/27/93 - 7/14/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
T1-500m	7/26/11	1017	0.17	5.3	0.29	4	0.06	0.9	2.7	76	0.48	14.8	5.4	76	0.08	34.79	26.10	8.26	6.32	0.08
T1-500m	10/18/11	947	0.01	0.2	0.03	0.4	0.11	1.5	2.0	55	0.39	12	5.5	77	0.08	35.06	26.60	8.23	6.78	0.13
T1-500m	1/25/12	1013	0.06	1.9	0.01	0.2	0.04	0.6	1.8	51	0.41	12.7	6.2	87	0.07	35.04	24.77	8.20	6.74	0.08
T1-500m	4/24/12	1038	0.09	2.8	0.03	0.4	0.15	2.1	0.9	24	0.38	11.9	4.4	62	0.11	35.19	24.64	8.22	6.66	0.08
Geomean	FY '12		1.5		0.6		1.1				12.8		75		0.08					0.09
T1-500m	7/24/12	956	0.00	0.1	0.16	2.3	0.09	1.3	1.6	44	0.37	11.5	5.5	77	0.03	35.09	26.36	8.23	6.76	0.08
T1-500m	11/27/12	950	0.06	2	0.16	2.3	0.31	4.4	2.5	71	0.42	13	5.9	82	0.09	35.22	25.10	8.21	6.87	0.09
T1-500m	1/24/13	957	0.05	1.6	0.01	0.1	0.12	1.7	1.1	31	0.47	14.5	6.2	88	0.04	35.10	24.69	8.22	6.33	0.09
T1-500m	4/16/13	1003	0.14	4.3	0.04	0.6	0.07	1	0.7	18	0.46	14.3	6.2	88	0.03	35.12	24.91	8.21	6.74	0.05
Geomean	FY '13		1.1		0.8		1.8				13.3		83		0.04					0.08
T1-500m	8/1/13	911	0.03	0.8	0.24	3.3	0.06	0.9	6.6	184	0.41	12.6	5.7	80	0.06	35.09	26.0	8.25	6.14	0.15
T1-500m	10/29/13	946	0.12	3.8	0.18	2.5	0.41	5.8	2.3	66	0.42	13.0	5.3	74	0.02	35.28	27.1	8.20	6.13	0.24
T1-500m	2/4/14	949	0.08	2.4	0.07	1.0	0.24	3.4	2.9	80	0.41	12.8	6.3	89	0.02	34.91	25.3	8.23	6.25	0.22
T1-500m	5/6/14	951	0.06	1.9	0.01	0.2	0.15	2.1	1.2	33	0.43	13.3	6.0	84	0.06	34.83	26.0	8.22	6.12	0.14
Geomean	FY '14		1.9		1.1		2.5				12.9		81		0.03					0.18
T1-500m	8/5/14	957	0.16	5.1	0.07	1.0	0.31	4.4	1.2	34	0.55	16.9	5.0	69	0.11	34.98	26.8	8.22	5.86	0.11
T1-500m	11/17/14	1137	0.15	4.5	0.09	1.2	0.42	5.9	0.5	13	0.42	13.0	5.3	74	0.10	35.00	27.1	8.21	6.81	0.22
T1-500m	3/3/15	953	0.03	0.9	0.54	7.6	0.09	1.2	5.1	144	0.10	3.2	7.0	98	0.07	34.72	25.6	8.15	6.66	0.16
T1-500m	6/16/15	1104	0.11	3.3	0.55	7.7	0.19	2.6	4.8	135	0.41	12.6	5.7	80	0.05	34.11	26.6	8.21	6.02	0.18
Geomean	FY '15		2.9		2.9		3.0				9.7		79		0.08					0.16
T1-500m	8/26/15	1204	0.12	3.7	0.03	0.4	0.18	2.5	1.1	31	0.39	12.2	4.8	67	0.02	34.60	28.6	8.21	6.25	0.11
T1-500m	11/17/15	1004	0.14	4.3	0.44	6.2	0.19	2.6	4.7	132	0.52	16.2	6.1	85	0.05	33.95	27.3	8.21	6.19	0.19
T1-500m	3/1/16	1005	0.14	4.4	0.39	5.4	1.06	14.8	2.5	71	0.46	14.4	5.7	80	0.07	34.71	25.5	8.24	5.70	0.10
T1-500m	5/3/16	937	0.12	3.8	0.11	1.6	0.09	1.3	0.3	9	0.47	14.6	10.1	142	0.06	34.72	25.5	8.27	6.38	0.24
Geomean	FY '16		4.0		2.2		3.3				14.3		90		0.05					0.15
T1-500m	7/6/16	1021	0.08	2.4	0.23	3.2	0.26	3.7	1.6	44	0.48	14.9	5.3	74	0.07	34.53	26.9	8.25	6.64	0.26
T1-500m	12/20/16	1013	0.04	1.3	0.14	1.9	0.01	0.2	2.4	66	0.33	10.3	2.4	34	0.03	34.71	25.6	8.25	5.57	0.17
T1-500m	2/28/17	912	0.00	0.1	0.01	0.2	0.04	0.5	0.3	8	0.31	9.6	4.6	65	0.12	34.66	24.7	8.22	6.19	0.15
T1-500m	5/9/17	1033	0.04	1.3	0.25	3.5	0.34	4.8	2.2	63	0.24	7.3	3.3	46	0.09	34.61	25.7	8.20	4.63	0.09
Geomean	FY '17		0.8		1.4		1.2				10.2		52		0.07					0.16

NELHA Water Quality Laboratory

Transect 1, Station 5

7/27/93 - 7/14/20

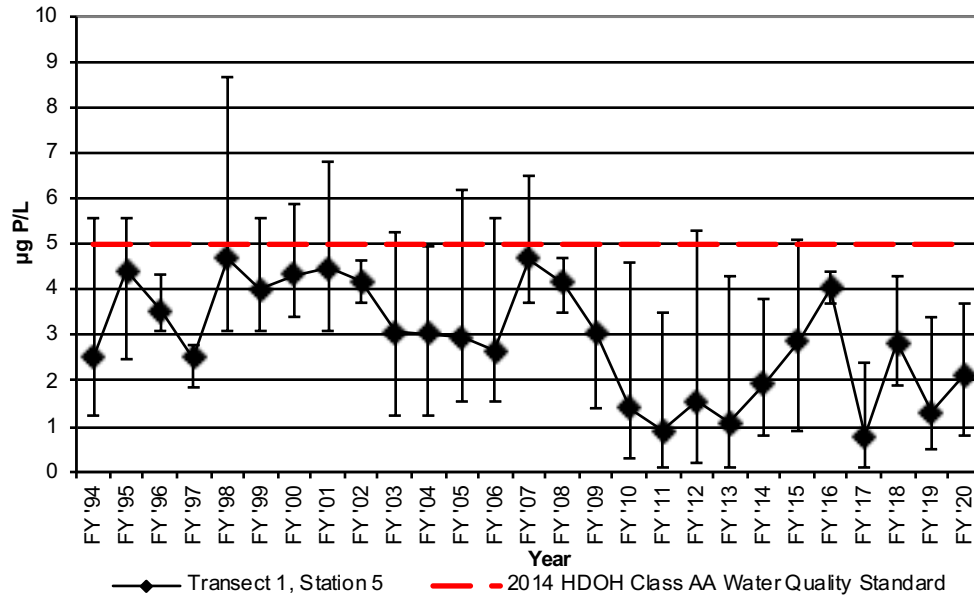
SITE ID	DATE M/D/Y	TIME (2400)	PO ₄ ³⁻ (μM) (μg P/L)		NO ₃ ⁻ & NO ₂ ⁻ (μM) (μg N/L)		NH ₄ ⁺ & NH ₃ (μM) (μg N/L)		Si (μM) (μg Si/L)		TDP (μM) (μg P/L)		TDN (μM) (μg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (μg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
T1-500m	9/27/17	1002	0.14	4.3	0.41	5.7	0.18	2.5	2.4	68	0.50	15.4	3.4	48	0.09	34.74	27.7	8.18	4.25	0.16
T1-500m	11/28/17	1056	0.10	3.0	0.55	7.7	0.25	3.5	2.0	55	0.38	11.7	3.2	45	0.06	35.08	26.2	8.19	4.82	0.17
T1-500m	1/30/18	1035	0.08	2.6	0.24	3.4	0.09	1.3	3.5	99	0.37	11.4	4.2	59	0.09	34.84	24.5	8.16	5.28	0.18
T1-500m	5/16/18	1034	0.06	1.9	0.09	1.2	0.09	1.3	1.6	46	0.36	11.1	4.5	63	0.03	34.79	25.6	8.16	5.96	0.12
Geomean	FY '18		2.8		3.7		2.0				12.3		53		0.06					0.16
T1-500m	9/24/18	1004	0.02	0.5	0.16	2.3	0.19	2.6	0.0	1	0.36	11.3	3.2	45	0.08	34.78	27.9	8.17	5.17	0.37
T1-500m	11/13/18	1040	0.02	0.7	0.14	2.0	0.24	3.4	0.1	4	0.38	11.7	3.5	49	0.07	35.02	27.3	8.21	4.59	0.18
T1-500m	1/22/19	1028	0.08	2.5	0.09	1.3	0.12	1.7	0.2	6	0.39	12.2	2.3	33	0.05	34.96	25.0	8.22	5.70	0.18
T1-500m	4/16/19	1027	0.11	3.4	0.04	0.5	0.44	6.2	1.1	31	0.38	11.8	2.6	37	0.03	35.65	25.8	8.13	7.09	0.09
Geomean	FY '19		1.3		1.3		3.1				11.7		40		0.05					0.18
T1-500m	8/13/19	1159	0.03	0.8	0.16	2.3	0.09	1.3	1.4	39	0.28	8.7	2.0	29	0.10	35.70	28.5	8.22	6.50	0.11
T1-500m	11/19/19	1157	0.09	2.8	0.06	0.8	0.74	10.3	0.3	9	0.43	13.3	2.5	35	0.08	34.87	27.7	8.24	6.39	0.14
T1-500m	1/22/20	957	0.12	3.7	0.16	2.3	0.09	1.3	0.5	14	0.41	12.6	2.6	36	0.03	34.92	25.0	8.21	6.60	0.12
T1-500m	6/24/10	1030	0.08	2.5	0.16	2.3	0.04	0.6	3.4	95	0.26	8.2	2.7	37	0.06	35.26	35.9	8.15	6.74	0.39
Geomean	FY '20		2.1		1.7		1.8				10.5		34		0.06					0.16

NELHA Water Quality Laboratory

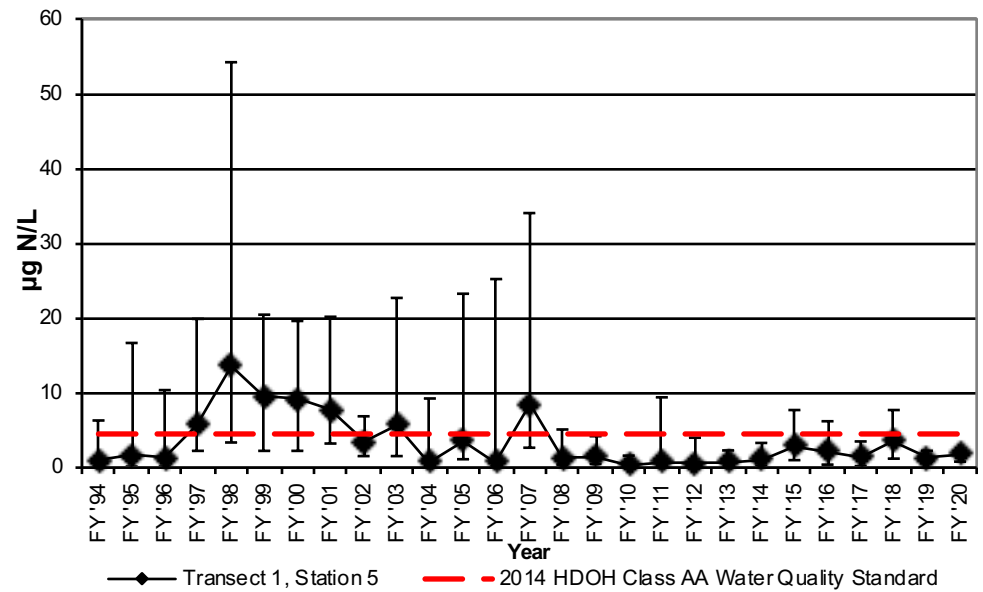
Transect 1, Station 5

7/27/93 - 7/14/20

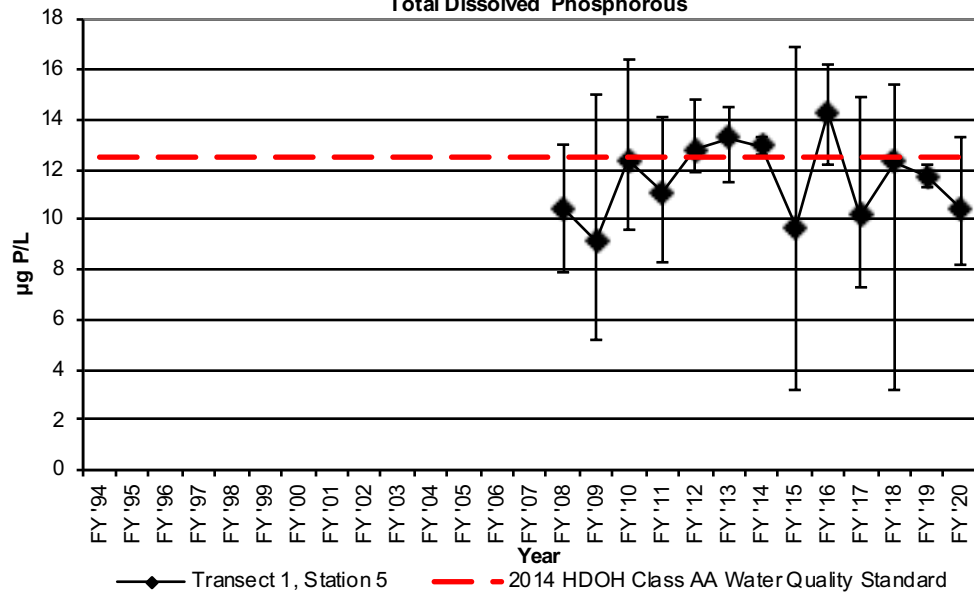
NELHA Offshore Transect 1, Station 5
Yearly Geometric Mean of Ortho-Phosphate



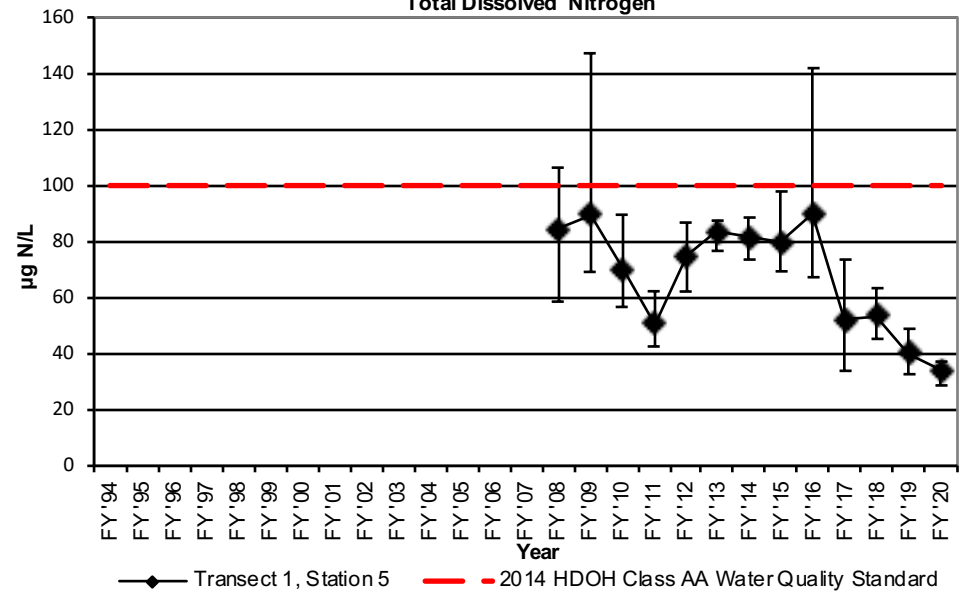
NELHA Offshore Transect 1, Station 5
Yearly Geometric Mean of Nitrate + Nitrite



NELHA Offshore Transect 1, Station 5
Yearly Geometric Mean of
Total Dissolved Phosphorous



NELHA Offshore Transect 1, Station 5
Yearly Geometric Mean of
Total Dissolved Nitrogen



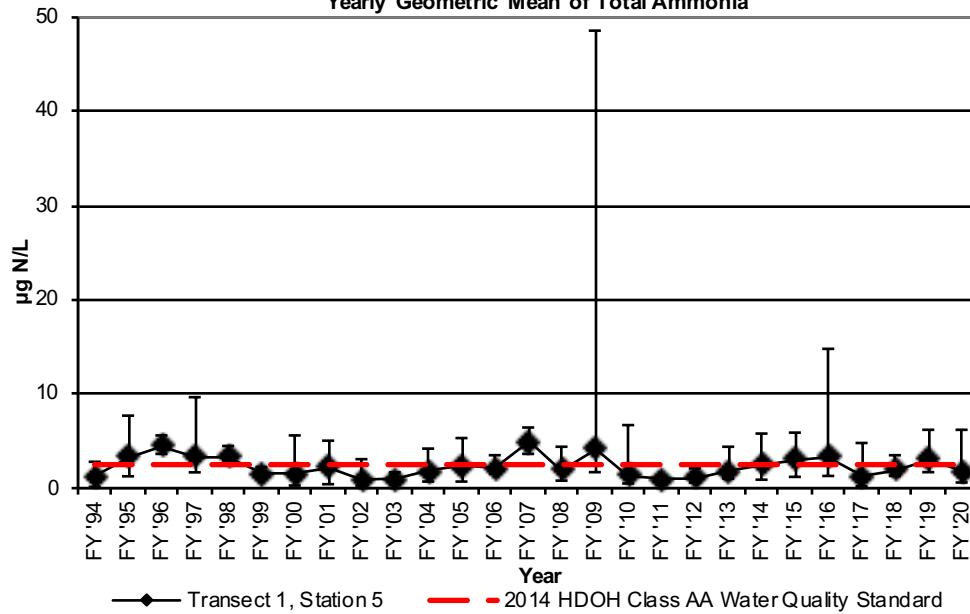
NELHA Water Quality Laboratory

Transect 1, Station 5

7/27/93 - 7/14/20

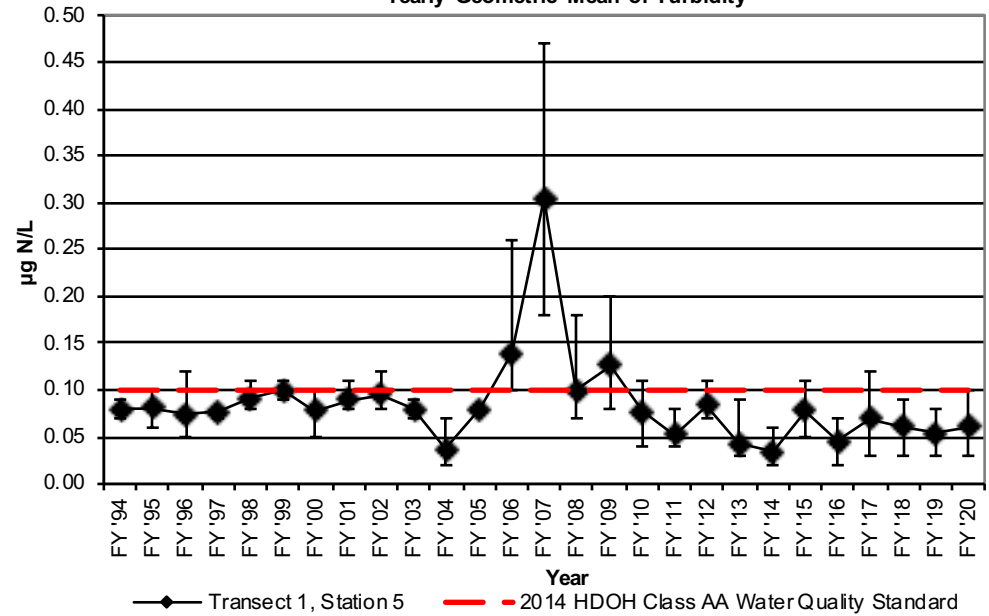
NELHA Offshore Transect 1, Station 5

Yearly Geometric Mean of Total Ammonia



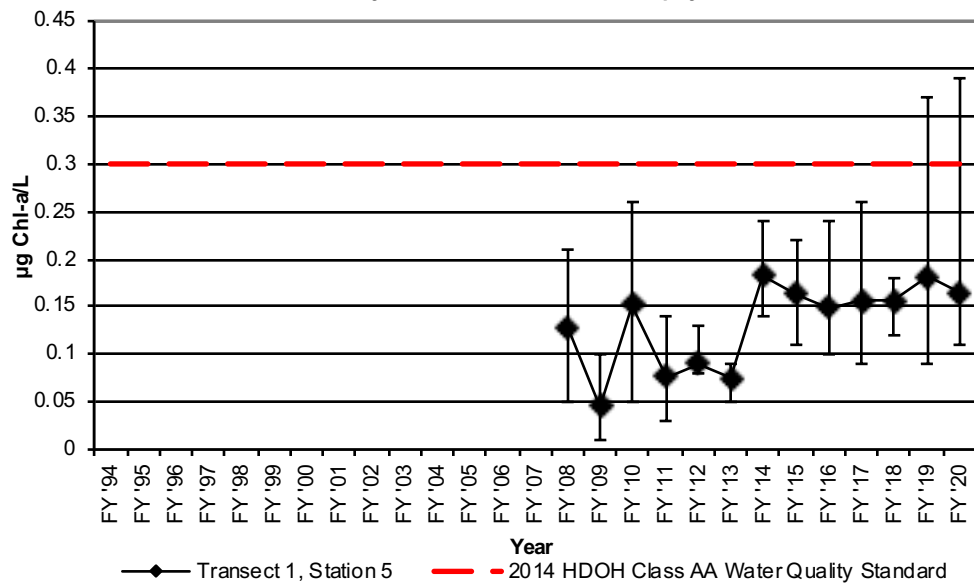
NELHA Offshore Transect 1, Station 5

Yearly Geometric Mean of Turbidity



NELHA Offshore Transect 1, Station 5

Yearly Geometric Mean of Chlorophyll-a



NELHA Water Quality Laboratory

Transect 2

July 2018 - June 2019

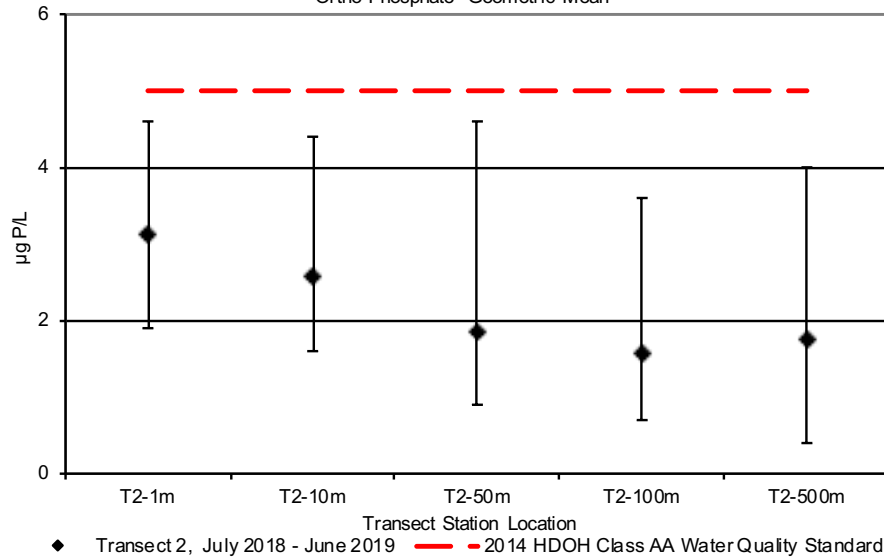
SITE ID	DATE M/D/Y	TIME (2400)	Tide (ft) (cycle)		PO ₄ ³⁻ (μM) (μg P/L)		NO ₃ ⁻ & NO ₂ ⁻ (μM) (μg N/L)		NH ₄ ⁺ & NH ₃ (μM) (μg N/L)		Si (μM) (μg Si/L)		TDP (μM) (μg P/L)		TDN (μM) (μg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (μg/L)
DOH LIMIT					0.16	5	0.32	4.5	0.18	2.5			0.40	12.5	7.1	100	0.10					0.30
T2-1m	9/24/18	1016	0.3	Low	0.06	1.9	0.25	3.5	0.31	4.3	1.6	44	0.47	14.5	3.98	56	0.10	34.71	27.7	8.18	5.35	0.13
T2-1m	11/13/18	1052	1.4	Ebb	0.08	2.5	0.87	12.2	0.46	6.4	1.3	37	0.39	12.2	5.08	71	0.11	34.97	27.3	8.23	4.80	0.26
T2-1m	1/22/19	1039	0.4	Ebb	0.15	4.6	0.62	8.7	0.10	1.4	2.9	80	0.43	13.4	3.32	47	0.08	34.92	24.9	8.22	5.90	0.29
T2-1m	4/16/19	1039	0.6	Flood	0.14	4.4	0.30	4.2	0.40	5.6	2.0	55	0.40	12.5	2.96	41	0.08	35.61	25.8	8.15	7.60	0.16
Geomean FY '19					0.10	3.1	0.45	6.3	0.3	3.8			0.4	13.1	3.8	53	0.09					0.20
T2-10m	9/24/18	1023	0.3	Low	0.05	1.6	0.16	2.3	0.16	2.3	0.2	5	0.36	11.2	2.73	38	0.10	34.77	27.8	8.17	5.2	0.20
T2-10m	11/13/18	1056	1.4	Ebb	0.07	2.3	0.81	11.3	0.41	5.7	1.0	28	0.39	12.1	4.78	67	0.09	35.00	27.3	8.21	4.46	0.37
T2-10m	1/22/19	1043	0.4	Ebb	0.09	2.7	0.09	1.3	0.01	0.1	0.1	4	0.38	11.8	2.42	34	0.08	34.99	25.1	8.22	5.79	0.12
T2-10m	4/16/19	1045	0.6	Flood	0.14	4.4	0.32	4.5	0.19	2.6	2.0	56	0.41	12.8	3.08	43	0.07	35.63	25.8	8.16	7.56	0.14
Geomean FY '19					0.08	2.6	0.25	3.5	0.10	1.4			0.39	12.0	3.1	44	0.08					0.19
T2-50m	9/24/18	1030	0.3	Low	0.03	0.9	0.16	2.3	0.10	1.4	0.5	15	0.32	9.9	2.69	38	0.07	34.80	27.8	8.17	5.15	0.20
T2-50m	11/13/18	1101	1.4	Ebb	0.04	1.1	0.24	3.4	0.27	3.8	0.2	6	0.34	10.6	4.21	59	0.08	35.03	27.3	8.21	4.32	0.25
T2-50m	1/22/19	1047	0.4	Ebb	0.08	2.6	0.02	0.3	0.07	1.0	0.2	5	0.37	11.5	2.02	28	0.05	35.00	25.1	8.22	5.65	0.18
T2-50m	4/16/19	1051	0.6	Flood	0.15	4.6	0.35	4.9	0.03	0.4	2.3	65	0.40	12.5	3.35	47	0.06	35.59	25.8	8.15	7.49	0.14
Geomean FY '19					0.06	1.9	0.13	1.8	0.09	1.2			0.36	11.1	3.0	41	0.06					0.19
T2-100m	9/24/18	1037	0.3	Low	0.02	0.7	0.16	2.3	0.13	1.8	0.5	14	0.31	9.5	1.87	26	0.08	34.80	27.8	8.17	5.15	0.23
T2-100m	11/13/18	1105	1.4	Ebb	0.03	0.8	0.20	2.8	0.25	3.5	0.2	6	0.34	10.4	3.41	48	0.08	35.03	27.3	8.22	4.39	0.15
T2-100m	1/22/19	1052	0.4	Ebb	0.10	3.1	0.01	0.2	0.03	0.4	0.0	0	0.38	11.7	1.93	27	0.05	35.00	25.1	8.22	5.66	0.18
T2-100m	4/16/19	1057	0.6	Flood	0.12	3.6	0.05	0.7	0.16	2.2	1.5	42	0.37	11.6	2.41	34	0.04	35.61	25.9	8.15	7.17	0.12
Geomean FY '19					0.05	1.6	0.07	1.0	0.11	1.5			0.35	10.8	2.3	33	0.06					0.17
T2-500m	9/24/18	1047	0.3	Low	0.01	0.4	0.16	2.3	0.19	2.7	0.5	14	0.29	9.0	1.41	20	0.09	34.80	27.9	8.16	5.03	0.17
T2-500m	11/13/18	1112	1.4	Ebb	0.07	2.1	0.12	1.7	0.18	2.5	2.1	59	0.32	9.9	2.13	30	0.06	35.01	27.4	8.22	4.62	0.14
T2-500m	1/22/19	1100	0.4	Ebb	0.09	2.8	0.04	0.5	0.08	1.1	0.7	20	0.37	11.5	1.12	16	0.07	34.96	25.0	8.22	5.64	0.11
T2-500m	4/16/19	1105	0.6	Flood	0.13	4.0	0.32	4.5	0.03	0.4	4.7	132	0.38	11.8	1.66	23	0.04	35.50	26.0	8.14	7.06	0.16
Geomean FY '19					0.06	1.8	0.12	1.7	0.09	1.3			0.34	10.5	1.5	22	0.06					0.14

NELHA Water Quality Laboratory

Transect 2
July 2018 - June 2019

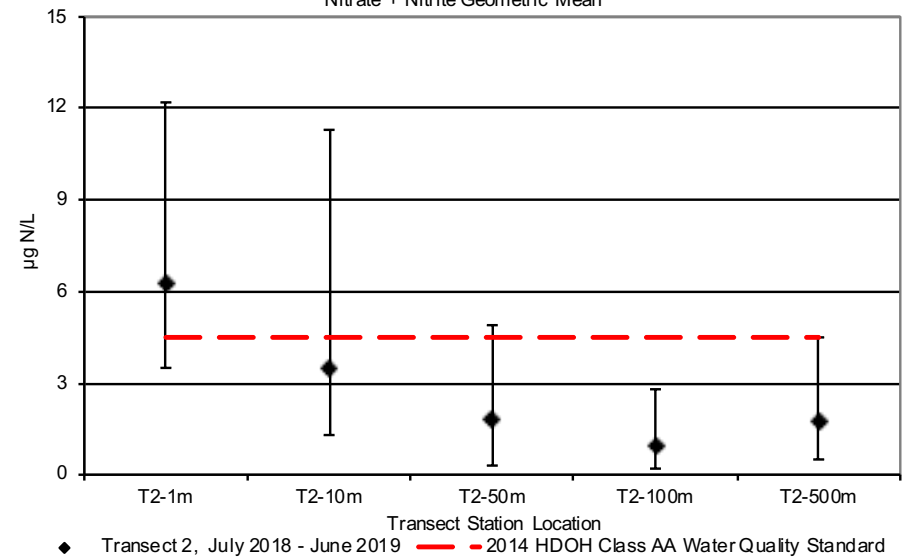
Transect 2 Station Summary

Ortho-Phosphate Geometric Mean



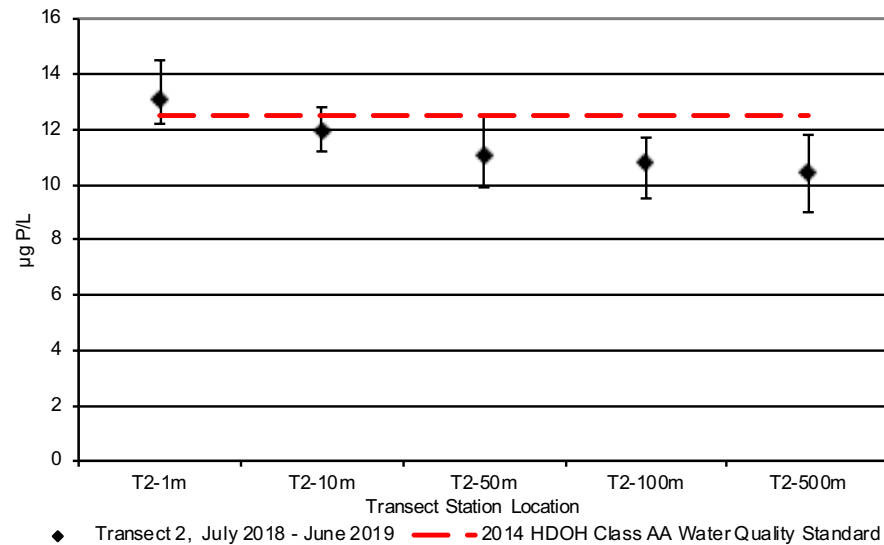
Transect 2 Station Summary

Nitrate + Nitrite Geometric Mean



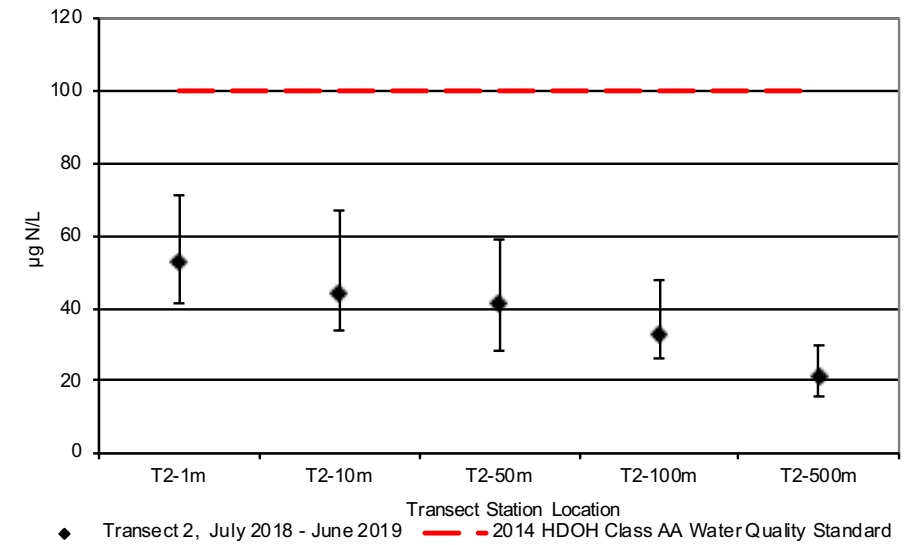
Transect 2 Station Summary

Total Dissolved Phosphorous Geometric Mean



Transect 2 Station Summary

Total Dissolved Nitrogen Geometric Mean

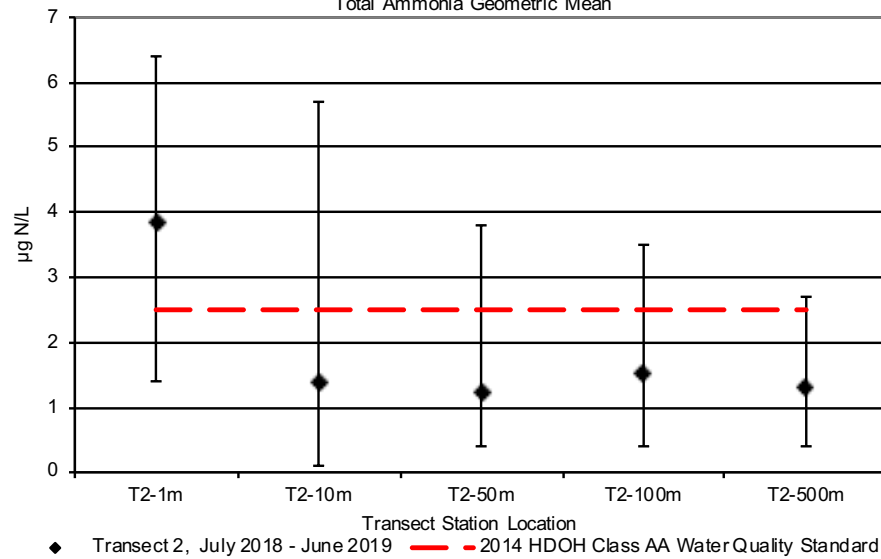


NELHA Water Quality Laboratory

Transect 2
July 2018 - June 2019

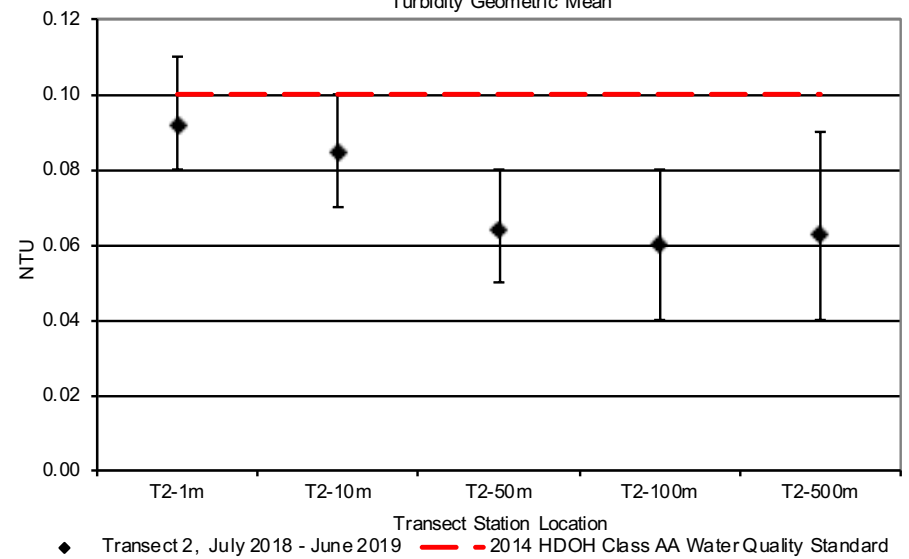
Transect 2 Station Summary

Total Ammonia Geometric Mean



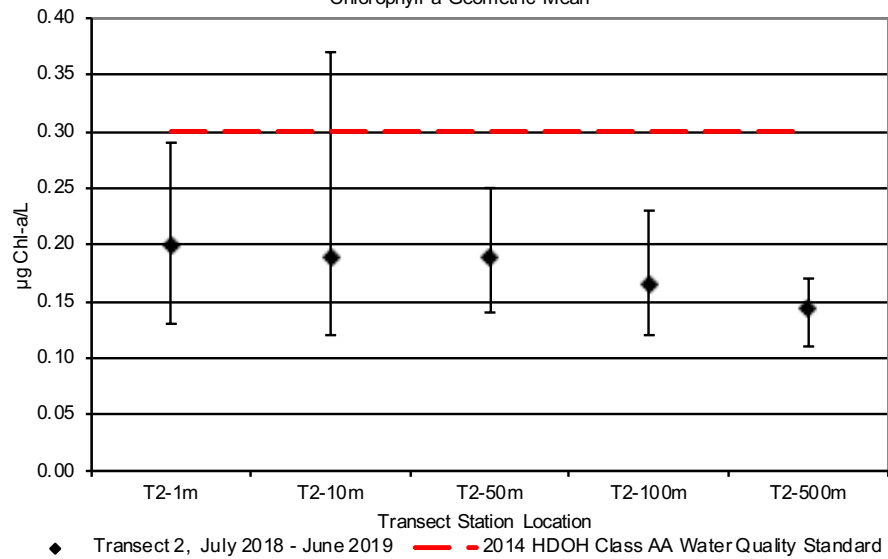
Transect 2 Station Summary

Turbidity Geometric Mean



Transect 2 Station Summary

Chlorophyll-a Geometric Mean



NELHA Water Quality Laboratory

Transect 2

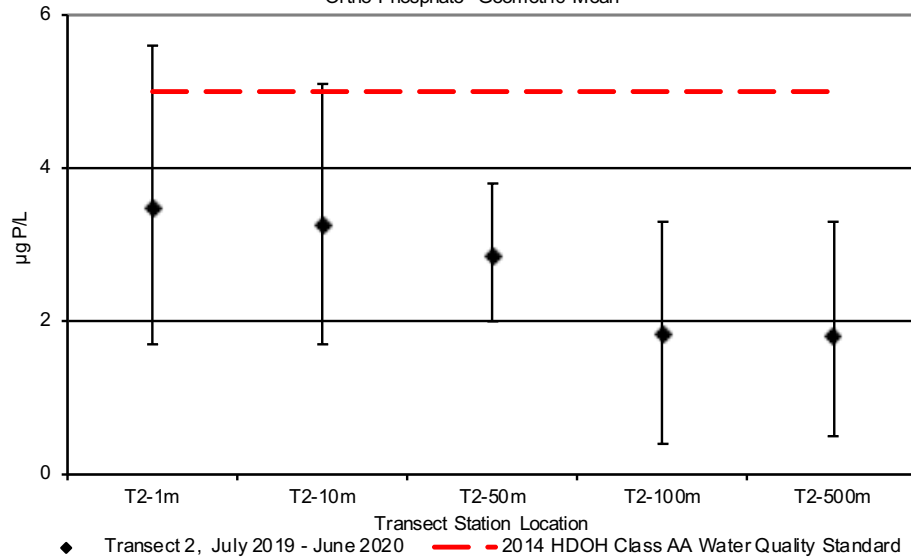
July 2018 - June 2019

SITE ID	DATE M/D/Y	TIME (2400)	Tide (ft)	(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)	TDP (μM) (μg P/L)	TDN (μM) (μg N/L)	Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (μg/L)
DOH LIMIT					0.16 5	0.32 4.5	0.18 2.5		0.40 12.5	7.1 100	0.10					0.30
T2-1m	8/13/19	1014	0.4	Flood	0.05 1.7	0.16 2.3	0.40 5.6	2.8 79	0.32 10.0	2.63 37	0.11	35.47	28.3	8.21	6.87	0.17
T2-1m	11/20/19	1031	1.9	High	0.12 3.6	0.21 3.0	1.21 17.0	0.6 17	0.47 14.6	2.77 39	0.12	35.36	27.5	8.19	7.03	0.20
T2-1m	1/22/20	1009	0.5	Low	0.18 5.6	0.42 5.9	0.09 1.3	2.7 76	0.47 14.7	3.85 54	0.09	34.92	25.0	8.23	7.00	0.13
T2-1m	6/24/20	1040	-0.1	Low	0.14 4.2	0.83 11.6	0.21 2.9	3.9 109	0.34 10.4	3.86 54	0.08	35.24	25.9	8.17	6.98	0.30
Geomean FY '20					0.11 3.5	0.33 4.6	0.3 4.3		0.4 12.2	3.2 45	0.10					0.19
T2-10m	8/13/19	1020	0.4	Flood	0.05 1.7	0.07 1.0	0.20 2.8	4.0 113	0.33 10.1	2.84 40	0.16	35.54	28.3	8.22	6.92	0.16
T2-10m	11/20/19	1035	1.9	High	0.11 3.3	0.19 2.7	1.20 16.8	0.8 23	0.38 11.7	3.58 50	0.09	35.37	27.5	8.21	6.93	0.18
T2-10m	1/22/20	1014	0.5	Low	0.16 5.1	0.36 5.0	0.09 1.3	2.2 61	0.45 13.9	3.17 44	0.05	34.93	25.0	8.21	6.83	0.13
T2-10m	6/24/20	1044	-0.1	Low	0.13 4.0	0.78 10.9	0.15 2.1	3.6 102	0.32 10.0	3.09 43	0.07	35.27	25.9	8.17	6.97	0.26
Geomean FY '20					0.11 3.3	0.25 3.5	0.24 3.3		0.37 11.3	3.2 44	0.08					0.18
T2-50m	8/13/19	1025	0.4	Flood	0.06 2.0	0.12 1.7	0.09 1.3	4.5 125	0.33 10.2	2.82 40	0.08	35.54	28.3	8.22	6.6	0.18
T2-50m	11/20/19	1040	1.9	High	0.08 2.5	0.12 1.7	0.70 9.8	0.2 7	0.40 12.4	2.53 36	0.09	35.34	27.5	8.22	6.61	0.16
T2-50m	1/22/20	1021	0.5	Low	0.12 3.8	0.16 2.3	0.09 1.3	0.0 0	0.40 12.3	2.81 39	0.04	34.93	25.0	8.22	6.67	0.11
T2-50m	6/24/20	1049	-0.1	Low	0.11 3.4	0.14 1.9	0.09 1.3	2.3 65	0.32 10.0	3.06 43	0.08	35.36	25.9	8.18	6.77	0.38
Geomean FY '20					0.09 2.8	0.13 1.9	0.15 2.1		0.36 11.2	2.8 39	0.07					0.19
T2-100m	8/13/19	1034	0.4	Flood	0.01 0.4	0.16 2.3	0.26 3.6	3.3 93	0.29 9.1	2.50 35	0.13	35.58	28.3	8.22	6.45	0.18
T2-100m	11/20/19	1045	1.9	High	0.09 2.9	0.06 0.9	0.39 5.5	0.5 14	0.41 12.6	2.18 31	0.10	35.30	27.5	8.22	6.54	0.14
T2-100m	1/22/20	1026	0.5	Low	0.11 3.3	0.16 2.3	0.09 1.3	-0.1 -3	0.39 12.0	2.58 36	0.04	34.92	25.1	8.21	6.68	0.12
T2-100m	6/24/20	1055	-0.1	Low	0.09 2.9	0.16 2.3	0.09 1.3	1.4 39	0.30 9.4	2.20 31	0.03	35.42	25.8	8.18	6.69	0.39
Geomean FY '20					0.06 1.8	0.13 1.8	0.17 2.4		0.34 10.7	2.4 33	0.06					0.19
T2-500m	8/13/19	1043	0.4	Flood	0.02 0.5	0.16 2.3	0.26 3.7	1.9 55	0.26 8.0	1.83 26	0.08	35.66	28.3	8.21	6.51	0.12
T2-500m	11/20/19	1053	1.9	High	0.09 2.7	0.05 0.7	0.09 1.3	0.6 17	0.44 13.5	2.76 39	0.05	35.25	27.6	8.22	6.50	0.16
T2-500m	1/22/20	1036	0.5	Low	0.11 3.3	0.16 2.3	0.09 1.3	1.2 35	0.36 11.3	2.09 29	0.06	34.94	25.0	8.22	6.52	0.14
T2-500m	6/24/20	1104	-0.1	Low	0.07 2.3	0.16 2.3	0.09 1.3	0.4 12	0.22 6.9	0.94 13	0.05	35.49	25.8	8.17	6.71	0.22
Geomean FY '20					0.06 1.8	0.12 1.7	0.12 1.6		0.31 9.6	1.8 25	0.06					0.16

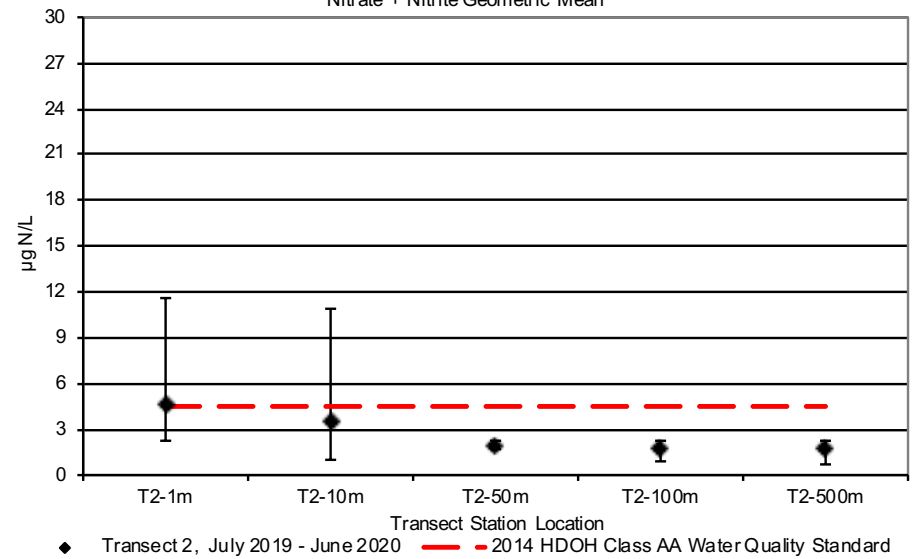
NELHA Water Quality Laboratory

Transect 2
July 2018 - June 2019

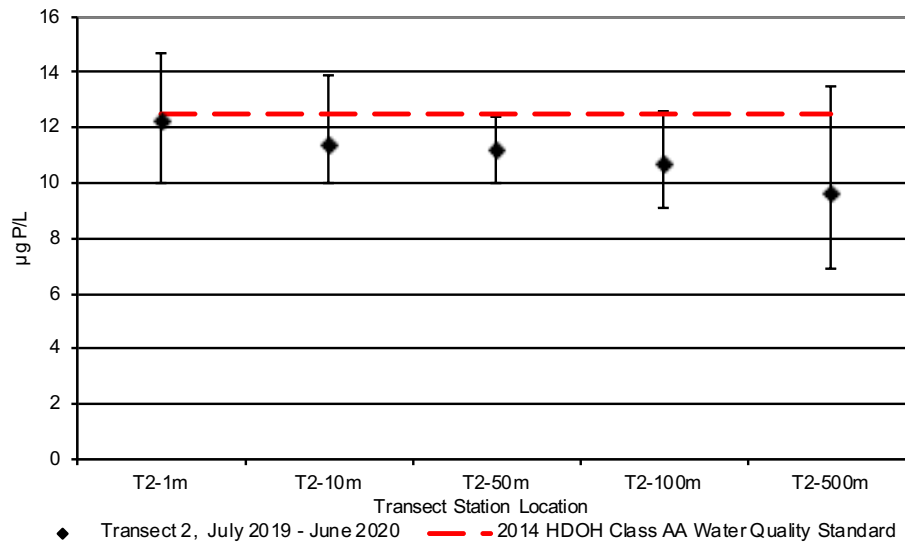
Transect 2 Station Summary
Ortho-Phosphate Geometric Mean



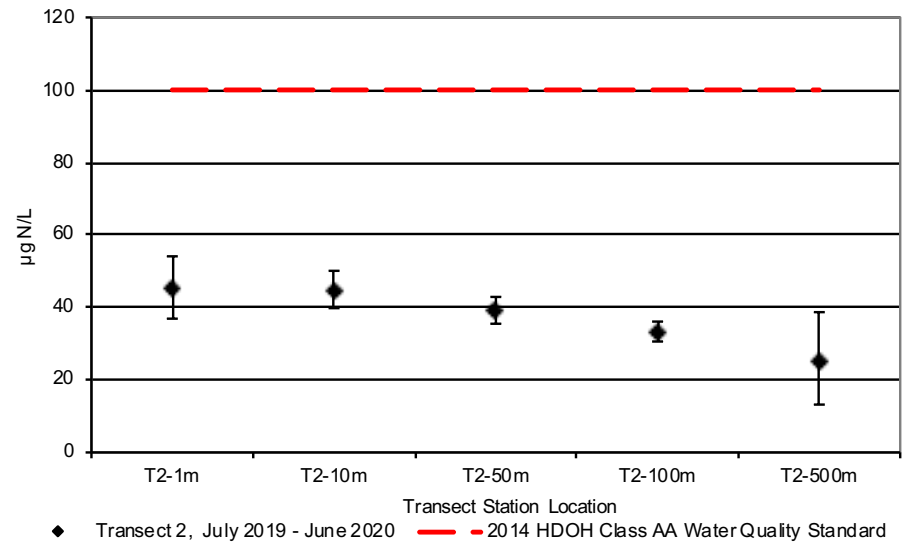
Transect 2 Station Summary
Nitrate + Nitrite Geometric Mean



Transect 2 Station Summary
Total Dissolved Phosphorous Geometric Mean



Transect 2 Station Summary
Total Dissolved Nitrogen Geometric Mean

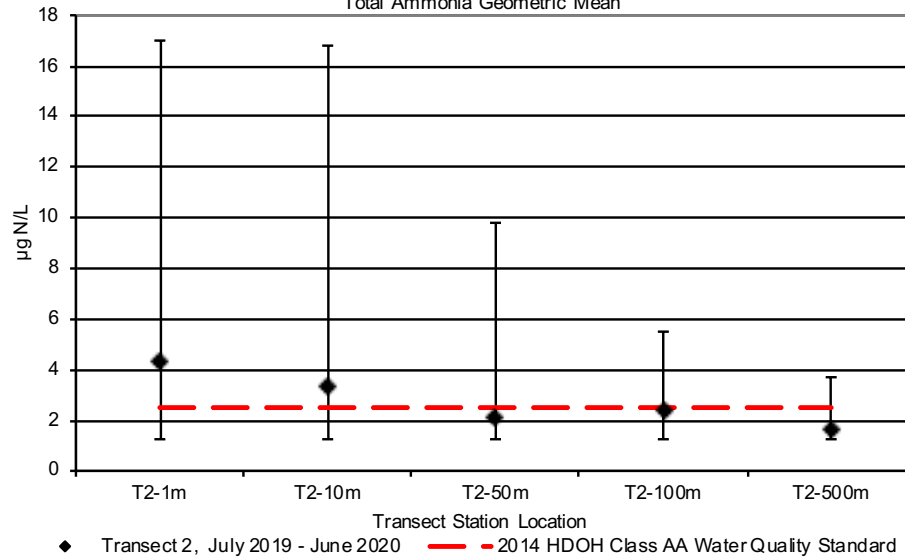


NELHA Water Quality Laboratory

Transect 2
July 2018 - June 2019

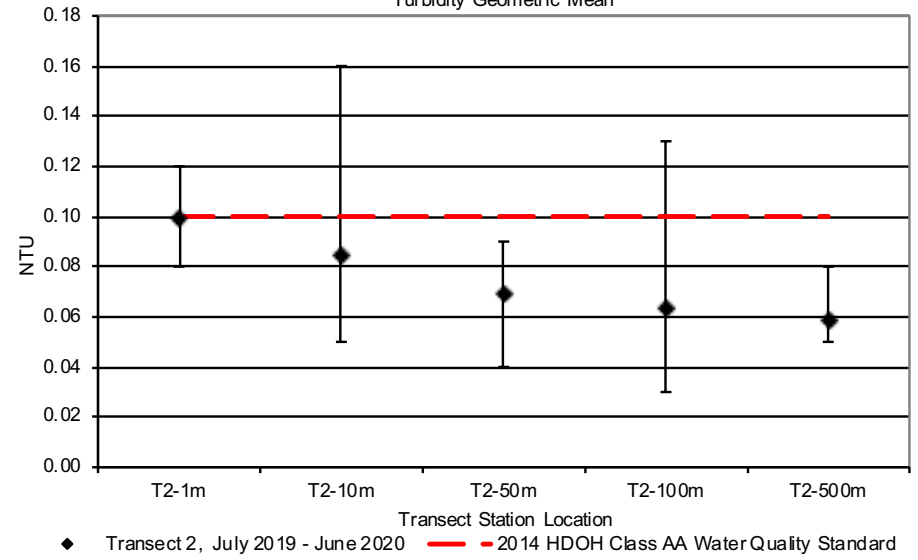
Transect 2 Station Summary

Total Ammonia Geometric Mean



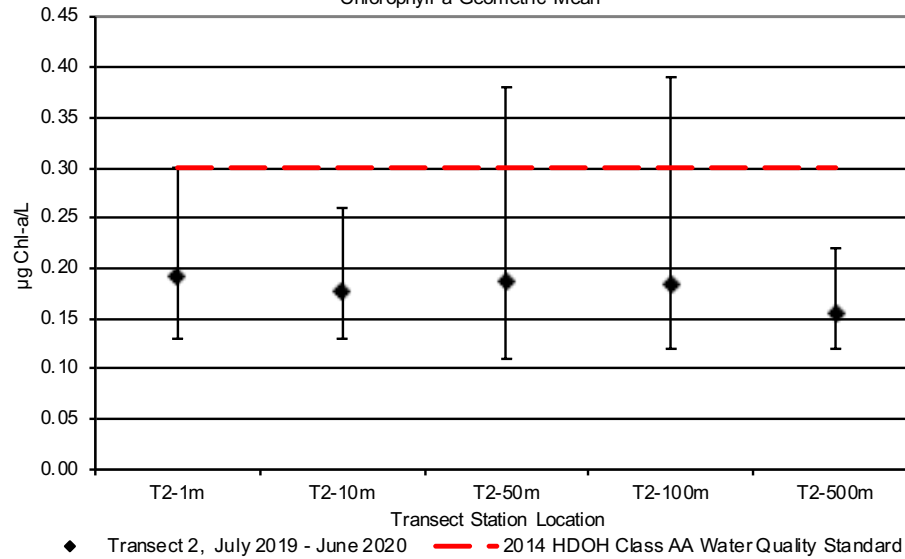
Transect 2 Station Summary

Turbidity Geometric Mean



Transect 2 Station Summary

Chlorophyll-a Geometric Mean



NELHA Water Quality Laboratory

Transect 2, Station 1

7/27/1993 - 7/14/20

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		TP		TOC	Turbidity	Salinity	Temp.	pH	DO	Chl a	Fecal Coli.	Entero.
	M/D/Y	(2400)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg N/L)	(μM)	(μg Si/L)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg P/L)	(mgC/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(μg/L)	(Bact/100 ml)	(Bact/100 ml)
DOH LIMIT			5		4.5		2.5				12.5		100					0.10					0.30		
O2-1S-8m	7/27/93	1008	0.07	2.2	0.04	0.6	0.24	3.4	2.3	65	0.29	9.0	7.7	108	0.29	8.98	1.43	0.06	34.472	26.7	8.26	6.95	0.07		
O2-1S-8m	12/7/93	932	0.08	2.5	0.20	2.8	0.18	2.5	4.3	120	0.25	7.7	5.3	74	0.25	7.74	1.10	0.08	34.765	25.7	8.24	6.98	0.12		
O2-1S-8m	3/16/94	929	0.17	5.3	0.37	5.2	0.20	2.8	6.6	185	0.31	9.7	3.5	49	0.31	9.60	1.19	0.08	34.408	24.5	8.25	7.23	0.15	<1	<1
O2-1S-8m	6/14/94	906	0.13	4.0	0.14	2.0	0.02	0.3	2.6	73	0.29	9.0	6.4	90	0.29	8.98	1.08	0.11	34.545	25.3	8.22	7.09	0.12	<1	<1
Geomean FY '94			3.3		2.0		1.6				8.8		77					0.08					0.11		
O2-1S-8m	9/15/94	1027	0.10	3.1	0.34	4.8	0.27	3.8	4.2	117	0.29	9.0	6.8	95	0.32	9.91	1.25	0.11	34.563	27.7	8.26	6.81	0.15	<1	<1
O2-1S-8m	11/16/94	827	0.17	5.3	0.70	9.8	0.52	7.3	7.2	202	0.29	9.0	5.5	77	0.37	11.46	1.02	0.07	34.430	25.9	8.22	6.76	0.05	<1	<1
O2-1S-8m	3/21/95	1024	0.19	5.9	0.22	3.1	0.12	1.7	3.9	108	0.34	10.5	7.0	98	0.34	10.53	1.11	0.09	34.196	25.1	8.24	7.31	0.09	<1	<1
O2-1S-8m	6/26/95	833	0.12	3.7	0.38	5.3	0.50	7.0	3.5	97	0.29	9.0	5.6	79	0.29	8.98	1.00	0.09	34.517	26.5	8.22	6.96	0.13	<1	<1
Geomean FY '95			4.3		5.3		4.2				9.3		87					0.09					0.10		
O2-1S-8m	9/25/95	1011	0.12	3.7	0.31	4.3	0.24	3.4	6.0	168	0.32	9.9	5.6	79	0.33	10.22	0.98	0.09	34.483	27.1	8.25	6.84	0.11	<1	<1
O2-1S-8m	11/13/95	1014	0.13	4.0	0.19	2.7	0.44	6.2	1.9	52	0.31	9.6	4.8	67	0.31	9.60	0.98	0.06	34.419	26.8	8.28	6.67	0.06	<1	<1
O2-1S-8m	3/11/96	1102	0.15	4.6	0.31	4.3	0.42	5.9	2.6	73	0.33	10.2	4.9	69	0.33	10.22	1.07	0.10	34.225	25.4	8.26	7.27	0.08	<1	<1
O2-1S-8m	5/13/96	1007	0.10	3.1	0.12	1.7	0.19	2.7	2.3	65	0.30	9.3	4.1	58	0.30	9.29	1.06	0.07	34.307	26.9	8.22	7.14	0.10	<1	<1
Geomean FY '96			3.8		3.0		4.2				9.8		68					0.08					0.09		
O2-1S-8m	7/30/96	920	0.12	3.7	1.32	18.5	0.29	4.1	5.1	142	0.27	8.4	5.1	72	0.27	8.36	1.03	0.13	34.396	27.9	8.22	6.52	0.09	1	<1
O2-1S-8m	10/1/96	1039	0.09	2.8	0.17	2.4	0.62	8.7	2.4	67	0.29	9.0	4.7	66	0.29	8.98	1.00	0.08	34.733	28.0	8.23	6.94	0.08	<1	<1
O2-1S-8m	1/6/97	1105	0.10	3.1	0.29	4.1	0.23	3.2	3.3	93	0.27	8.4	3.7	52	0.31	9.60	1.07	0.08	34.663	25.7	8.28	7.68	0.02	<1	<1
O2-1S-8m	4/21/97	1050	0.11	3.4	1.04	14.6	0.28	3.9	3.7	104	0.36	11.2	5.4	75	0.37	11.46	1.11	0.12	34.512	26.5	8.28	6.93	0.07	1	<1
Geomean FY '97			3.2		7.1		4.6				9.1		65					0.10					0.06		
O2-1S-8m	8/18/97	1048	0.11	3.4	0.63	8.8	0.23	3.2	4.8	134	0.33	10.2	5.1	71	0.34	10.53	1.08	0.12	34.586	26.8	8.41	6.68	0.11	<1	<1
O2-1S-8m	10/6/97	1108	0.10	3.1	0.48	6.7	0.43	6.0	5.1	142	0.37	11.5	4.9	69	0.37	11.46	1.03	0.11	34.697	27.6	8.48	6.93	0.15	1	<1
O2-1S-8m	3/3/98	1042	0.10	3.1	0.40	5.6	0.22	3.1	4.1	115	0.35	10.8	5.0	70	0.35	10.84	1.06	0.07	34.973	24.9	8.23	7.07	0.04	<1	<1
O2-1S-8m	5/4/98	1011	0.12	3.7	0.70	9.8	0.11	1.5	7.5	209	0.39	12.1	5.0	70	0.41	12.70	0.89	0.07	34.908	23.8	8.22	7.00	0.17	<1	<1
Geomean FY '98			3.3		7.6		3.1				11.1		70					0.09					0.10		
O2-1S-8m	7/6/98	1113	0.14	4.3	0.76	10.6	0.14	2.0	5.4	153	0.39	12.1	5.6	79	0.39	12.08	1.06	0.09	34.942	26.3	8.22	7.03	0.11	<1	<1
O2-1S-8m	10/5/98	1047	0.13	4.0	0.63	8.8	0.19	2.7	4.7	131	0.37	11.5	6.1	85	0.42	13.01	1.02	0.12	35.019	27.1	8.23	7.49	0.10	<1	<1
O2-1S-8m	1/13/99	1057	0.12	3.7	0.58	8.1	0.18	2.5	4.2	117	0.37	11.5	6.1	86	0.37	11.46	1.27	0.12	35.054	25.0	8.22	7.12	0.44	<1	<1
O2-1S-8m	4/12/99	1037	0.13	4.0	0.30	4.2	0.11	1.5	4.4	124	0.39	12.1	4.8	67	0.39	12.08	1.01	0.10	34.655	24.2	8.23	7.40	0.15	<1	<1
Geomean FY '99			4.0		7.5		2.1				11.8		79					0.10					0.16		

NELHA Water Quality Laboratory

Transect 2, Station 1

7/27/1993 - 7/14/20

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		TP		TOC	Turbidity	Salinity	Temp.	pH	DO	Chl a	Fecal Coli.	Entero.
	M/D/Y	(2400)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg N/L)	(μM)	(μg Si/L)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg P/L)	(mgC/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(μg/L)	(Bact/100 ml)	(Bact/100 ml)
DOH LIMIT			5		4.5		2.5				12.5		100					0.10					0.30		
O2-1S-8m	7/6/99	1055	0.11	3.4	0.07	1.0	0.10	1.4	2.9	82	0.36	11.2	5.4	76	0.36	11.15	1.05	0.09	34.948	25.7	8.22	7.07	0.16	1	<1
O2-1S-8m	10/4/99	1135	0.14	4.3	0.19	2.7	0.15	2.1	5.3	148	0.40	12.4	4.5	63	0.41	12.70	1.02	0.12	34.942	26.0	8.27	7.00	0.10	<1	<1
O2-1S-8m	1/4/00	1114	0.12	3.7	0.60	8.4	0.42	5.9	12.9	361	0.32	9.9	5.9	83	0.32	9.91	0.96	0.10	35.084	24.8	8.23	7.00	0.05	<1	<1
O2-1S-8m	4/17/00	1102	0.15	4.6	0.36	5.0	0.08	1.1	4.3	122	0.37	11.5	5.9	82	0.36	11.15	1.04	0.11	34.609	24.3	8.27	n/a	0.05	<1	<1
Geomean FY '00			4.0		3.2		2.1				11.2		76					0.10					0.08		
O2-1S-8m	7/24/00	1119	0.11	3.4	0.31	4.3	0.06	0.8	3.3	92	0.33	10.2	5.4	76	0.34	10.53	1.03	0.08	34.888	27.3	8.27	8.54	0.15	<1	<1
O2-1S-8m	10/30/00	1138	0.14	4.3	0.39	5.5	0.31	4.3	18.3	515	0.35	10.8	5.2	73	0.36	11.15	1.07	0.09	34.927	27.1	8.26	6.80	0.10	<1	<1
O2-1S-8m	2/26/01	1127	0.16	5.0	0.59	8.3	0.20	2.8	7.0	195	0.37	11.5	6.1	85	0.37	11.46	1.08	0.11	34.652	24.9	8.22	6.80	0.06	<1	<1
O2-1S-8m	5/7/01	1129	0.14	4.3	0.72	10.1	0.36	5.0	4.5	127	0.38	11.8	6.1	85	0.40	12.39	1.13	0.08	34.808	24.7	8.21	7.23	0.15	<1	<1
Geomean FY '01			4.2		6.7		2.7				11.1		80					0.09					0.11		
O2-1S-8m	8/21/01	1029	0.15	4.6	0.37	5.2	0.03	0.4	3.0	83	0.38	11.8	5.2	73	0.39	12.08	1.06	0.10	34.795	26.7	8.22	6.90	0.13	<1	<1
O2-1S-8m	10/8/01	1049	0.18	5.6	0.19	2.7	0.08	1.1	2.4	67	0.35	10.8	5.3	75	0.35	10.84	1.03	0.07	34.949	27.3	8.24	7.02	0.15	<1	<1
O2-1S-8m	3/5/02	1000	0.16	5.0	0.33	4.6	0.09	1.3	7.1	198	0.37	11.5	5.8	81	0.39	12.08	0.99	0.07	34.686	24.2	8.22	6.85	0.13	<1	<1
O2-1S-8m	4/17/02	1010	0.17	5.3	0.36	5.0	0.27	3.8	5.0	140	0.41	12.7	6.1	85	0.43	13.32	0.95	0.08	34.455	25.6	8.18	6.54	0.14	<1	<1
Geomean FY '02			5.1		4.2		1.2				11.7		78					0.08					0.14		
O2-1S-8m	7/8/02	1125	0.20	6.2	0.35	4.9	0.17	2.4	4.2	119	0.44	13.6	5.9	83	0.44	13.63	1.02	0.11	34.629	26.7	8.24	7.05	0.20	<1	<1
O2-1S-8m	10/9/02	1000	0.09	2.8	0.47	6.6	0.11	1.5	3.7	103	0.31	9.6	6.3	88	0.32	9.91	0.95	0.08	34.903	27.1	8.26	8.13	0.12	1	1
O2-1S-8m	3/12/03	1125	0.12	3.7	0.13	1.8	0.03	0.4	6.6	186	0.34	10.5	8.1	113	0.39	12.08	1.09	0.10	34.774	25.1	8.28	7.37	0.16	<1	<1
O2-1S-8m	4/22/03	1124	0.12	3.7	1.09	15.3	0.03	0.4	4.5	126	0.36	11.2	5.6	78	0.37	11.46	0.99	0.11	34.948	25.3	8.26	7.36	0.15	<1	<1
Geomean FY '03			3.9		5.5		0.9				11.1		89					0.10					0.15		
O2-1S-8m	8/18/03	1135	0.10	3.1	0.18	2.5	0.25	3.5	3.5	98	0.36	11.2	6.4	90	0.37	11.46	n/a	0.06	34.821	28.2	8.24	6.83	0.12	<1	<1
O2-1S-8m	10/29/03	1158	0.10	3.1	0.07	1.0	0.10	1.4	12.3	345	0.38	11.8	5.7	80	0.38	11.77	n/a	0.12	34.811	27.6	8.25	n/a	0.14	<1	<1
O2-1S-8m	3/11/04	1027	0.17	5.3	0.32	4.5	0.04	0.6	5.6	156	0.42	13.0	5.8	81	0.44	13.63	n/a	n/a	34.344	25.8	8.28	6.48	0.17	<1	<1
O2-1S-8m	5/20/04	1021	0.12	3.7	0.15	2.1	0.22	3.1	3.3	92	0.37	11.5	5.7	80	0.38	11.77	n/a	n/a	33.48	26.8	8.25	6.98	0.01	<1	<1
Geomean FY '04			3.7		2.2		1.7				11.8		82					0.08					0.07		
O2-1S-8m	9/20/04	1010	0.10	3.1	0.08	1.1	0.26	3.6	1.5	43	0.34	10.5	5.9	82	0.34	10.53	n/a	0.10	33.76	27.8	8.25	6.82	0.10	1	<1
O2-1S-8m	11/17/04	942	0.08	2.5	0.25	3.5	0.19	2.7	2.1	60	0.36	11.2	5.5	77	0.36	11.15	n/a	0.08	33.57	26.9	8.28	6.77	0.13	<1	<1
O2-1S-8m	1/13/05	1105	0.07	2.2	0.26	3.6	0.11	1.5	2.9	82	0.28	8.7	5.4	75	0.28	8.67	n/a	0.11	34.831	25.9	8.34	7.06	0.09	<1	<1
O2-1S-8m	4/11/05	1104	0.16	5.0	0.71	9.9	0.30	4.2	7.8	219	0.41	12.7	5.6	79	0.42	13.01	n/a	0.10	34.481	25.3	8.32	7.21	0.07	<1	<1
Geomean FY '05			3.0		3.5		2.8				10.7		78					0.10					0.10		

NELHA Water Quality Laboratory

Transect 2, Station 1

7/27/1993 - 7/14/20

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		TP		TOC	Turbidity	Salinity	Temp.	pH	DO	Chl a	Fecal Coli.	Entero.
	M/D/Y	(2400)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg N/L)	(μM)	(μg Si/L)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg P/L)	(mgC/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(μg/L)	(Bact/100 ml)	(Bact/100 ml)
DOH LIMIT			5		4.5		2.5				12.5		100					0.10					0.30		
O2-1S-8m	7/20/05	1054	0.19	5.9	0.40	5.6	0.16	2.2	3.7	103	0.39	12.1	4.4	61	0.39	12.08	n/a	0.08	34.669	26.5	8.25	6.61	0.02	<1	<1
O2-1S-8m	10/11/05	940	0.06	1.9	0.03	0.4	0.14	2.0	2.3	65	0.32	9.9	2.7	37	0.35	10.84	1.02	0.16	34.919	26.5	8.28	6.72	0.11	<1	<1
O2-1S-8m	3/13/06	1051	0.12	3.7	0.09	1.3	0.41	5.7	2.7	76	0.35	10.8	4.0	55	0.39	12.08	n/a	0.13	34.782	24.6	8.28	7.59	0.10	<1	<1
O2-1S-8m	5/15/06	1019	0.28	8.7	0.95	13.3	0.13	1.8	6.5	184	0.55	17.0	6.6	93	0.55	17.04	1.14	0.14	34.615	25.0	8.26	6.97	0.72	<1	1
Geomean FY '06			4.3		2.5		2.6				12.2		59					0.12					0.11		
O2-1S-8m	8/14/06	1018	0.21	6.5	0.49	6.9	0.33	4.6	3.3	92	0.47	14.6	6.3	88	0.48	14.87	1.14	0.12	34.614	26.6	8.26	7.22	0.11	<1	<1
O2-1S-8m	11/1/06	1024	0.10	3.1	0.23	3.2	0.43	6.0	2.6	72	0.31	9.6	5.5	77	0.32	9.91	1.12	0.13	34.820	27.0	8.25	6.70	0.16	<1	<1
O2-1S-8m	2/12/07	1045	0.17	5.3	0.58	8.1	0.51	7.1	5.6	158	0.38	11.8	6.0	84	0.38	11.77	1.09	0.70	34.490	24.5	8.23	7.01	0.16	<1	<1
O2-1S-8m	4/9/07	1016	0.14	4.3	0.23	3.2	0.29	4.1	3.6	102	0.35	10.8	5.4	75	0.48	14.87	0.95	0.53	34.697	25.1	8.22	7.09	0.02	<1	<1
Geomean FY '07			4.6		4.9		5.3				11.6		81					0.28					0.09		
T2-1m	9/26/07	943	0.16	4.9	0.35	4.9	0.41	5.8	14.0	392	0.37	11.5	5.2	73				0.08	34.939	26.8	8.15	6.38	0.08		
T2-1m	12/13/07	1121	0.11	3.4	0.39	5.5			13.0	365	0.38	11.7	6.9	96				0.18	34.685	25.7	8.24	6.61	0.25		
T2-1m	3/10/08	1010	0.16	4.9	0.37	5.2	0.06	0.8	5.2	147	0.36	11.2	8.4	117				0.41	34.903	24.9	8.19	6.58	0.19		
T2-1m	6/5/08	1015	0.11	3.5	0.64	9.0	0.16	2.2	20.2	567	0.25	7.8	7.8	109				0.08	34.783	25.1	8.09	6.83	0.27		
Geomean FY '08			4.1		6.0		2.2				10.4		97					0.15					0.18		
T2-1m	9/22/08	1108	0.05	1.7	0.04	0.6	0.15	2.1	2.0	57	0.26	8.2	5.9	82				0.06	34.811	26.7	8.02	6.38	0.07		
T2-1m	11/17/08	950	0.14	4.2	0.21	3	0.14	1.9	2.5	71	0.26	8.2	5.4	76				0.19	34.964	25.7	8.24	6.11	0.02		
T2-1m	2/9/09	948	0.09	2.8	0.60	8.4	0.12	1.7	3.5	100	0.11	3.5	5.1	72				0.14	35.066	24.8	8.08	6.09	0.03		
T2-1m	4/13/09	942	0.43	13.3	1.92	26.9	0.47	6.6	5.3	148	0.50	15.4	6.9	96				0.10	34.868	24.0	8.18	6.18	0.14		
Geomean FY '09			4.0		4.5		2.6				7.8		81					0.11					0.05		
T2-1m	9/9/09	947	0.15	4.6	0.49	6.8	0.30	4.2	6.7	189	0.52	16.2	5.8	81				0.07	35.15	26.9	8.21	5.60	0.21		
T2-1m	11/23/09	1003	0.03	0.8	0.16	2.3	0.03	0.4	23.8	669	0.27	8.4	5.0	70				0.07	35.20	25.3	8.27	6.40	0.15		
T2-1m	2/23/10	1012	0.16	5.1	0.29	4.1	0.43	6	16.3	458	0.31	9.6	4.7	66				0.07	35.06	24.6	8.18	6.49	0.37		
T2-1m	5/25/10	1026	0.05	1.5	0.31	4.3	0.19	2.6	3.7	105	0.25	7.6	5.7	80				0.11	34.95	25.1	8.23	7.00	0.08		
Geomean FY '10			2.3		4.1		2.3				10.0		74					0.08					0.17		
T2-1m	8/10/10	1005	0.08	2.5	1.38	19.3	0.16	2.2	10.8	304	0.52	16.2	5.8	81				0.06	34.81	25.95	8.22	6.67	0.06		
T2-1m	11/8/10	952	0.03	0.9	0.44	6.2	0.24	3.3	2.6	72	0.36	11.2	4.7	65				0.10	35.25	26.40	8.25	6.42	0.06		
T2-1m	1/11/11	1009	0.14	4.2	0.25	3.5	0.08	1.1	2.8	79	0.44	13.5	3.9	55				0.08	34.96	24.95	8.24	6.61	0.13		
T2-1m	4/26/11	1009	0.11	3.4	0.44	6.2	0.10	1.4	9.1	256	0.44	13.7	5.1	72				0.10	34.97	24.99	8.21	6.53	0.14		
Geomean FY '11			2.4		7.1		1.8				13.5		67					0.08					0.09		

NELHA Water Quality Laboratory

Transect 2, Station 1

7/27/1993 - 7/14/20

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		TP		TOC	Turbidity	Salinity	Temp.	pH	DO	Chl a	ecal Coliform	Enterococci
	M/D/Y	(2400)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg N/L)	(μM)	(μg Si/L)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg P/L)	(mgC/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(μg/L)	Bact/100 ml	Bact/100 ml
DOH LIMIT			5		4.5		2.5				12.5		100					0.10					0.30		
T2-1m	7/26/11	1032	0.18	5.6	0.49	6.9	0.14	1.9	3.5	98	0.51	15.8	6.3	88				0.06	34.81	25.93	8.25	6.66	0.09		
T2-1m	10/18/11	957	0.02	0.7	0.29	4	0.29	4.1	3.1	88	0.31	9.5	6.4	89				0.09	35.06	26.58	8.22	6.93	0.12		
T2-1m	1/25/12	1023	0.10	3	0.39	5.4	0.17	2.4	4.3	121	0.45	14	7.6	106				0.08	34.98	24.66	8.20	6.96	0.10		
T2-1m	4/24/12	1049	0.15	4.6	0.81	11.4	0.24	3.3	4.0	113	0.42	13	5.8	82				0.07	35.09	24.70	8.21	6.86	0.10		
Geomean FY '12			2.7		6.4		2.8				12.9		91					0.07					0.10		
T2-1m	7/24/12	1010	0.02	0.6	0.36	5	0.27	3.8	2.3	64	0.39	12.2	6.8	95				0.12	35.07	26.31	8.23	6.83	0.12		
T2-1m	11/27/12	959	0.11	3.3	0.97	13.6	0.40	5.6	7.2	203	0.48	14.9	6.1	85				0.06	35.05	25.05	8.21	6.89	0.35		
T2-1m	1/23/13	1005	0.08	2.5	0.38	5.3	0.26	3.6	1.9	54	0.49	15.1	7.3	102				0.09	35.12	24.67	8.21	6.52	0.16		
T2-1m	4/16/13	1013	0.15	4.5	0.34	4.7	0.11	1.6	0.9	26	0.50	15.4	6.3	89				0.07	35.14	24.94	8.22	6.95	0.06		
Geomean FY '13			2.2		6.4		3.3				14.3		92					0.08					0.14		
T2-1m	8/1/13	921	0.07	2.2	0.36	5.1	0.09	1.3	3.8	106	0.51	15.8	9.1	128				0.06	35.22	26.1	8.24	6.95	0.19		
T2-1m	10/29/13	954	0.15	4.6	0.57	8.0	0.26	3.7	2.6	74	0.45	13.8	6.5	92				0.05	35.27	27.0	8.20	6.50	0.26		
T2-1m	2/4/14	959	0.11	3.4	0.39	5.4	0.45	6.3	5.8	162	0.42	12.9	6.5	91				0.02	34.94	25.2	8.22	6.53	0.20		
T2-1m	5/6/14	1000	0.13	4.1	0.56	7.8	0.74	10.3	2.9	83	0.46	14.4	6.7	94				0.06	34.77	25.9	8.22	6.29	0.16		
Geomean FY '14			3.4		6.4		4.2				14.2		100					0.04					0.20		
T2-1m	8/5/14	1007	0.20	6.3	0.41	5.8	0.51	7.2	2.1	59	0.50	15.4	6.5	91				0.13	34.94	26.8	8.22	5.99	0.11		
T2-1m	11/17/14	1144	0.20	6.3	0.44	6.2	0.53	7.4	0.9	25	0.48	14.9	8.0	113				0.10	34.96	27.1	8.21	7.22	0.15		
T2-1m	3/3/15	1002	0.01	0.3	0.49	6.9	0.10	1.4	1.8	50	0.03	1.0	7.0	99				0.09	34.83	25.5	8.16	7.05	0.15		
T2-1m	6/16/15	1115	0.15	4.6	1.14	16.0	0.32	4.5	3.9	110	0.50	15.4	6.9	97				0.08	34.18	26.5	8.21	6.35	0.20		
Geomean FY '15			2.7		7.9		4.3				7.7		99					0.10					0.15		
T2-1m	8/26/15	1100	0.08	2.5	0.31	4.4	0.24	3.4	4.4	122	0.16	5.0	5.2	73				0.04	34.51	28.4	8.23	6.33	0.25		
T2-1m	11/17/15	1013	0.16	5.0	0.51	7.2	0.04	0.6	3.4	95	0.51	15.7	6.2	86				0.08	33.96	27.4	8.22	6.33	0.15		
T2-1m	3/1/16	1017	0.15	4.5	0.26	3.6	0.29	4.1	0.4	10	0.47	14.5	5.4	76				0.07	34.72	25.4	8.24	6.04	0.12		
T2-1m	5/3/16	948	0.14	4.4	0.54	7.5	0.20	2.8	1.4	39	0.43	13.3	5.5	77				0.06	34.66	25.6	8.25	6.43	0.18		
Geomean FY '16			4.0		5.4		2.2				11.1		78					0.06					0.17		
T2-1m	7/6/16	1040	0.13	4.0	0.11	1.6	0.45	6.3	1.8	52	0.24	7.5	4.9	69				0.09	34.53	26.9	8.26	6.53	0.20		
T2-1m	12/20/16	1027	0.05	1.7	0.22	3.1	0.23	3.2	1.6	45	0.36	11.1	4.1	58				0.05	34.71	25.6	8.27	5.77	0.24		
T2-1m	2/28/17	924	0.01	0.4	0.24	3.3	0.01	0.1	0.7	19	0.30	9.2	3.0	43				0.10	34.66	24.7	8.21	5.98	0.13		
T2-1m	5/10/17	924	0.02	0.6	0.58	8.1	0.26	3.6	2.2	60	0.25	7.8	4.5	63				0.13	34.70	25.7	8.20	4.32	0.10		
Geomean FY '17			1.1		3.4		1.6				8.8		57					0.09					0.16		

NELHA Water Quality Laboratory

Transect 2, Station 1

7/27/1993 - 7/14/20

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		TP		TOC	Turbidity	Salinity	Temp.	pH	DO	Chl a	Fecal Coli.	Enter.
	M/D/Y	(2400)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg N/L)	(μM)	(μg Si/L)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg P/L)	(mgC/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(μg/L)	(Bact/100 ml)	(Bact/100 ml)
DOH LIMIT			5		4.5		2.5				12.5		100					0.10					0.30		
T2-1m	9/27/17	1012	0.14	4.4	0.31	4.4	0.29	4.0	1.1	31	0.46	14.1	4.4	62				0.09	34.79	27.8	8.20	4.45	0.26		
T2-1m	11/28/17	1108	0.13	4.1	0.69	9.6	0.36	5.1	2.4	69	0.43	13.3	14.6	204				0.11	35.04	26.1	8.22	5.01	0.24		
T2-1m	1/30/18	1048	0.13	3.9	0.60	8.4	0.19	2.7	3.3	93	0.38	11.9	3.5	50				0.09	34.84	24.6	8.17	5.58	0.13		
T2-1m	5/16/18	1046	0.11	3.5	0.84	11.7	0.19	2.7	4.4	122	0.40	12.5	3.5	49				0.03	34.63	25.6	8.17	6.30	0.14		
Geomean	FY '18		4.0		8.0		3.5				12.9		74					0.07					0.18		
T2-1m	9/24/18	1016	0.06	1.9	0.25	3.5	0.31	4.3	1.6	44	0.47	14.5	4.0	56				0.10	34.71	27.7	8.18	5.35	0.13		
T2-1m	11/13/18	1052	0.08	2.5	0.87	12.2	0.46	6.4	1.3	37	0.39	12.2	5.1	71				0.11	34.97	27.3	8.23	4.80	0.26		
T2-1m	1/22/19	1039	0.15	4.6	0.62	8.7	0.10	1.4	2.9	80	0.43	13.4	3.3	47				0.08	34.92	24.9	8.22	5.90	0.29		
T2-1m	4/16/19	1039	0.14	4.4	0.30	4.2	0.40	5.6	2.0	55	0.40	12.5	3.0	41				0.08	35.61	25.8	8.15	7.60	0.16		
Geomean	FY '19		3.1		6.3		3.8				13.1		53					0.09					0.20		
T2-1m	8/13/19	1014	0.05	1.7	0.16	2.3	0.40	5.6	2.8	79	0.32	10.0	2.6	37				0.11	35.47	28.3	8.21	6.87	0.17		
T2-1m	11/20/19	1031	0.12	3.6	0.21	3.0	1.21	17.0	0.6	17	0.47	14.6	2.8	39				0.12	35.36	27.5	8.19	7.03	0.20		
T2-1m	1/22/20	1009	0.18	5.6	0.42	5.9	0.09	1.3	2.7	76	0.47	14.7	3.8	54				0.09	34.92	25.0	8.23	7.00	0.13		
T2-1m	6/24/20	1040	0.14	4.2	0.83	11.6	0.21	2.9	3.9	109	0.34	10.4	3.9	54				0.08	35.24	25.9	8.17	6.98	0.30		
Geomean	FY '20		3.5		4.6		4.3				12.2		45					0.10					0.19		

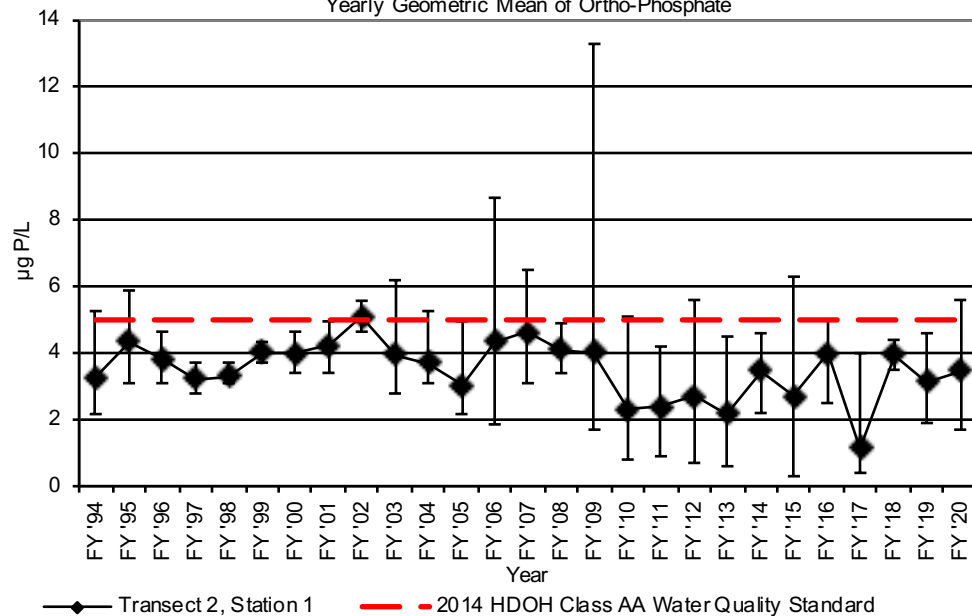
NELHA Water Quality Laboratory

Transect 2, Station 1

7/27/1993 - 7/14/20

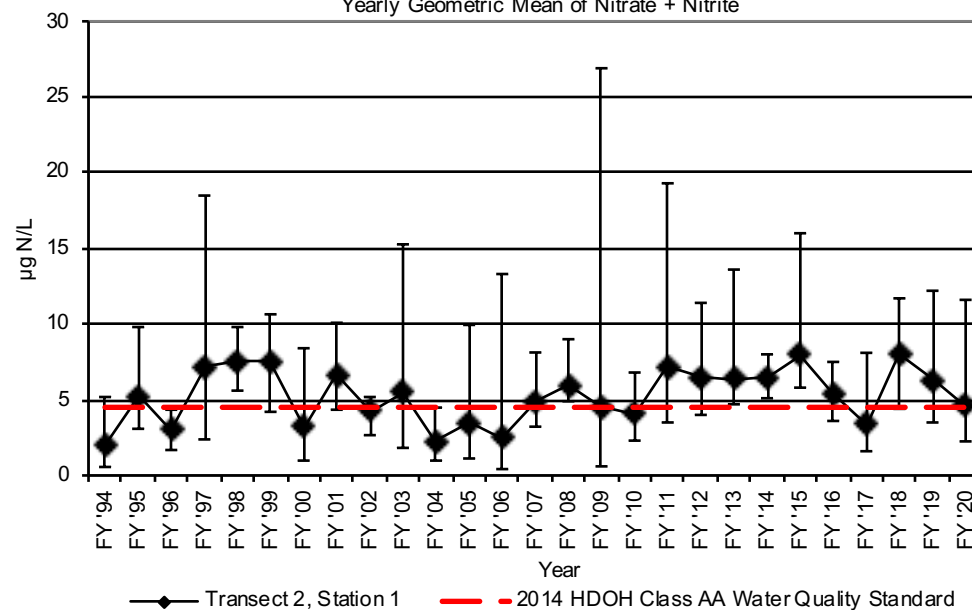
NELHA Offshore Transect 2, Station 1

Yearly Geometric Mean of Ortho-Phosphate



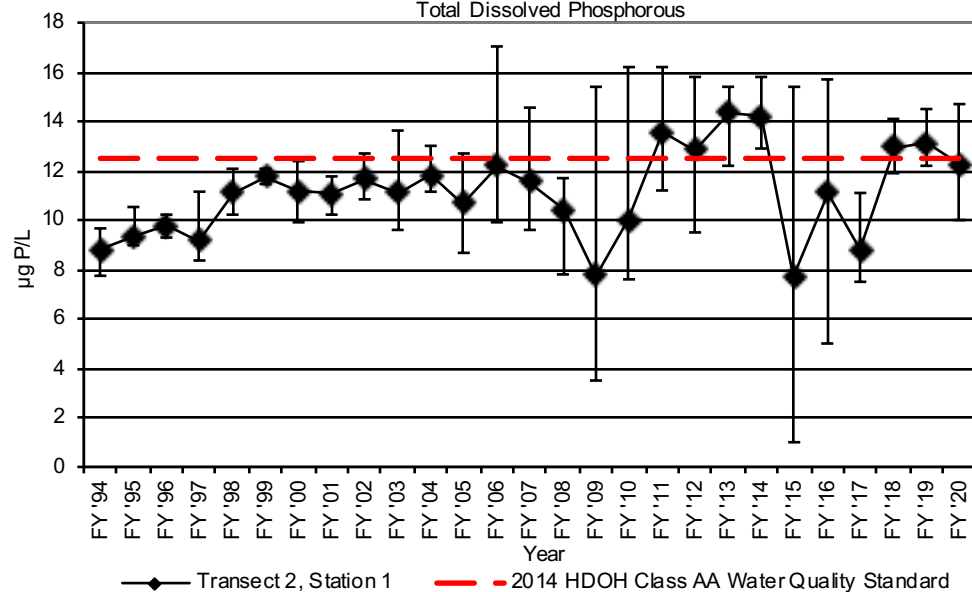
NELHA Offshore Transect 2, Station 1

Yearly Geometric Mean of Nitrate + Nitrite



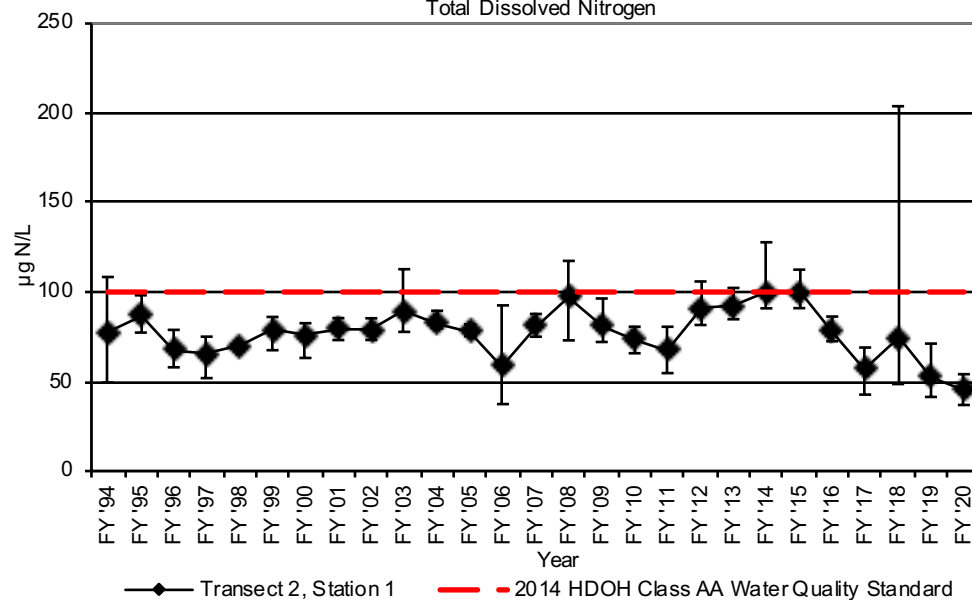
NELHA Offshore Transect 2, Station 1

Yearly Geometric Mean of
Total Dissolved Phosphorous



NELHA Offshore Transect 2, Station 1

Yearly Geometric Mean of
Total Dissolved Nitrogen



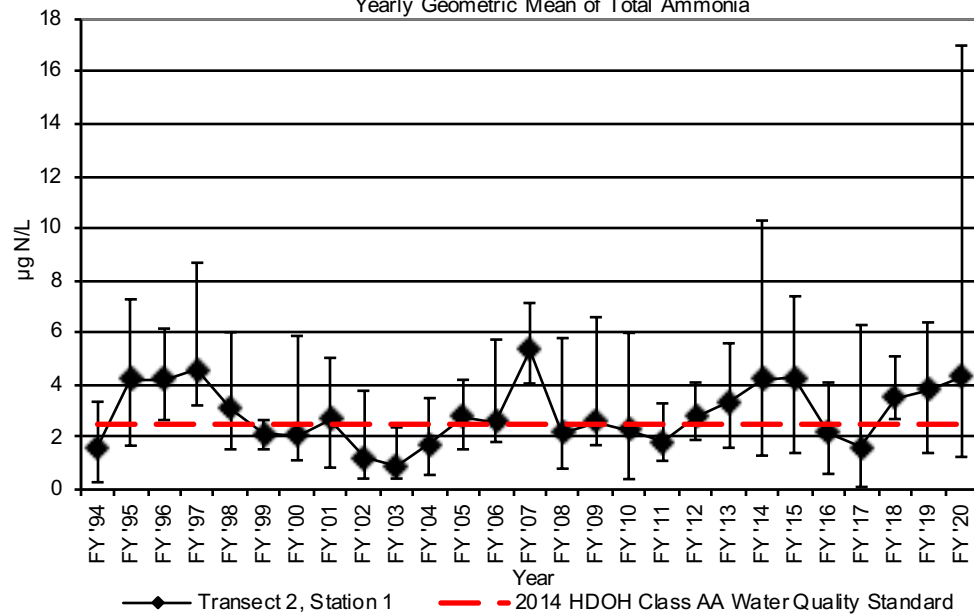
NELHA Water Quality Laboratory

Transect 2, Station 1

7/27/1993 - 7/14/20

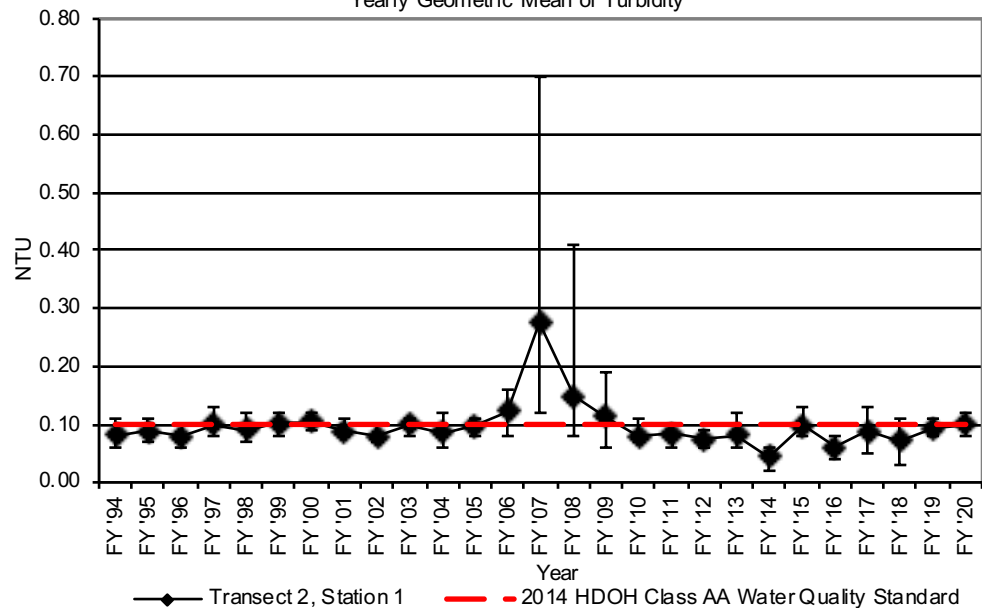
NELHA Offshore Transect 2, Station 1

Yearly Geometric Mean of Total Ammonia



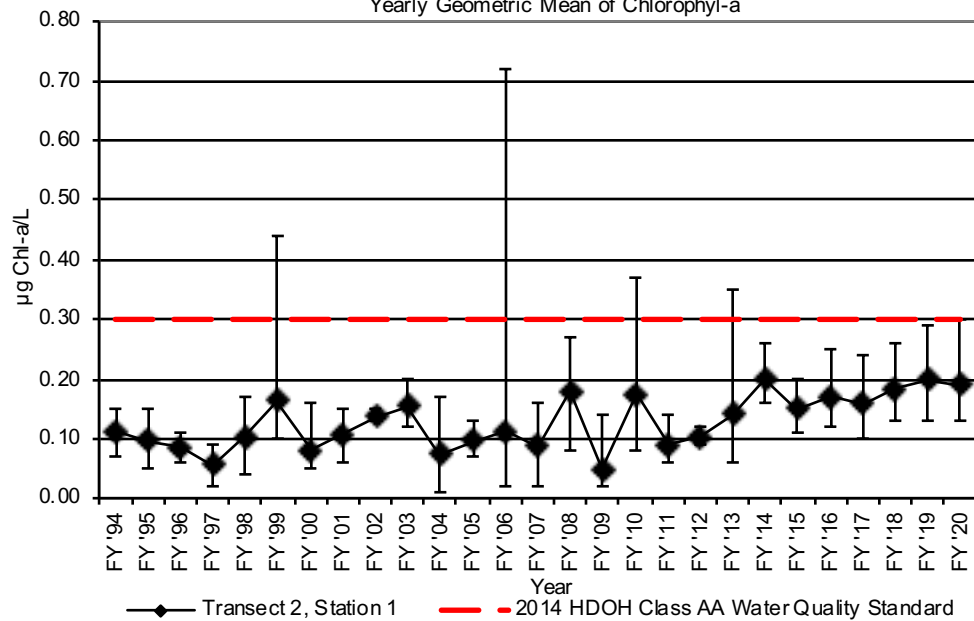
NELHA Offshore Transect 2, Station 1

Yearly Geometric Mean of Turbidity



NELHA Offshore Transect 2, Station 1

Yearly Geometric Mean of Chlorophyll-a



NELHA Water Quality Laboratory

Transect 2, Station 2

7/27/1993 - 7/14/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (μM) (μg P/L)		TDN (μM) (μg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (μg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O2-2S-23m	7/27/93	1003	0.12	3.7	0.09	1.3	0.34	4.8	2.8	78					0.08	34.462	26.7			
O2-2S-23m	12/7/93	923	0.08	2.5	0.21	2.9	0.18	2.5	4.1	114					0.08	34.770	25.7			
O2-2S-23m	3/16/94	922	0.16	5.0	0.17	2.4	4.85	67.9	2.8	78					0.09	34.464	24.5			
O2-2S-23m	6/14/94	859	0.13	4.0	0.13	1.8	0.04	0.6	7.5	211					0.13	34.568	25.3			
Geomean FY '94			3.7		2.0		4.6								0.09					
O2-2S-23m	9/8/94	1024	0.10	3.1	0.29	4.1	0.22	3.1	3.7	104					0.14	34.573	27.6			
O2-2S-23m	11/16/94	818	0.18	5.6	0.63	8.8	0.50	7.0	6.3	176					0.07	34.449	26.0			
O2-2S-23m	3/21/95	1016	0.20	6.2	0.20	2.8	0.18	2.5	3.8	105					0.14	34.204	25.0			
O2-2S-23m	6/26/95	827	0.13	4.0	0.46	6.4	0.48	6.7	4.0	111					0.06	34.499	26.5			
Geomean FY '95			4.6		5.0		4.4								0.10					
O2-2S-23m	9/25/95	1025	0.14	4.3	0.28	3.9	0.24	3.4	5.0	139					0.13	34.484	27.2			
O2-2S-23m	11/13/95	1006	0.11	3.4	0.18	2.5	0.40	5.6	1.7	48					0.05	34.416	26.9			
O2-2S-23m	3/11/96	1055	0.13	4.0	0.22	3.1	0.43	6.0	2.3	66					0.07	34.264	25.5			
O2-2S-23m	5/13/96	1002	0.10	3.1	0.08	1.1	0.19	2.7	2.3	65					0.07	34.308	27.0			
Geomean FY '96			3.7		2.4		4.2								0.08					
O2-2S-23m	7/30/96	945	0.12	3.7	1.60	22.4	0.31	4.3	5.5	154					0.11	34.366	27.9			
O2-2S-23m	10/1/96	1032	0.08	2.5	0.14	2.0	0.59	8.3	2.1	59					0.08	34.742	27.9			
O2-2S-23m	1/6/97	1101	0.10	3.1	0.22	3.1	0.23	3.2	3.1	86					0.11	34.675	25.7			
O2-2S-23m	4/21/97	1045	0.10	3.1	0.75	10.5	0.25	3.5	4.1	114					0.10	34.529	26.4			
Geomean FY '97			3.1		6.1		4.5								0.10					
O2-2S-23m	8/18/97	1038	0.11	3.4	0.50	7.0	0.22	3.1	6.4	178					0.12	34.553	26.7			
O2-2S-23m	10/6/97	1102	0.09	2.8	0.21	2.9	0.38	5.3	5.0	140					0.09	34.719	27.5			
O2-2S-23m	3/3/98	1036	0.10	3.1	0.32	4.5	0.22	3.1	4.4	125					0.12	34.983	24.9			
O2-2S-23m	5/4/98	1006	0.12	3.7	0.63	8.8	0.07	1.0	6.9	194					0.07	34.929	23.8			
Geomean FY '98			3.2		5.3		2.7								0.10					
O2-2S-23m	7/6/98	1105	0.38	11.8	0.92	12.9	0.25	3.5	15.3	429					0.13	34.935	26.3			
O2-2S-23m	10/5/98	1042	0.11	3.4	0.43	6.0	0.19	2.7	3.4	95					0.09	35.055	27.3			
O2-2S-23m	1/13/99	1052	0.12	3.7	0.60	8.4	0.26	3.6	4.8	135					0.08	35.046	25.0			
O2-2S-23m	4/12/99	1032	0.13	4.0	0.26	3.6	0.08	1.1	4.1	115					0.07	34.663	24.1			
Geomean FY '99			4.9		7.0		2.5								0.09					

NELHA Water Quality Laboratory

Transect 2, Station 2

7/27/1993 - 7/14/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (μM) (μg P/L)		TDN (μM) (μg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (μg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O2-2S-23m	7/6/99	1047	0.11	3.4	0.13	1.8	0.11	1.5	2.4	68					0.12	34.955	25.7			
O2-2S-23m	10/4/99	1128	0.12	3.7	0.28	3.9	0.13	1.8	7.7	216					0.09	34.905	26.1			
O2-2S-23m	1/4/00	1108	0.09	2.8	0.41	5.7	0.35	4.9	3.6	100					0.08	35.092	24.8			
O2-2S-23m	4/17/00	1056	0.12	3.7	0.21	2.9	0.11	1.5	3.4	94					0.04	34.650	24.3			
Geomean FY '00			3.4		3.3		2.1								0.08					
O2-2S-23m	7/24/00	1115	0.11	3.4	0.22	3.1	0.06	0.8	3.1	87					0.11	34.881	27.3			
O2-2S-23m	10/30/00	1133	0.13	4.0	0.23	3.2	0.34	4.8	4.0	113					0.08	34.953	27.0			
O2-2S-23m	2/26/01	1121	0.16	5.0	0.44	6.2	0.25	3.5	6.0	168					0.11	34.670	24.9			
O2-2S-23m	5/7/01	1126	0.14	4.3	0.60	8.4	0.31	4.3	4.2	117					0.08	34.822	24.7			
Geomean FY '01			4.1		4.8		2.8								0.09					
O2-2S-23m	8/21/01	1024	0.14	4.3	0.49	6.9	0.02	0.3	4.0	113					0.09	34.773	26.7			
O2-2S-23m	10/8/01	1044	0.14	4.3	0.21	2.9	0.06	0.8	2.4	68					0.13	34.949	27.3			
O2-2S-23m	3/5/02	956	0.14	4.3	0.26	3.6	0.04	0.6	7.2	202					0.12	34.694	24.2			
O2-2S-23m	4/17/02	1004	0.15	4.6	0.45	6.3	0.27	3.8	10.1	283					0.06	34.458	25.5			
Geomean FY '02			4.4		4.6		0.8								0.10					
O2-2S-23m	7/8/02	1120	0.18	5.6	0.20	2.8	0.10	1.4	3.5	99					0.12	34.650	26.6			
O2-2S-23m	10/9/02	958	0.06	1.9	0.13	1.8	0.09	1.3	2.6	74					0.10	34.936	27.1			
O2-2S-23m	3/12/03	1115	0.12	3.7	0.31	4.3	0.03	0.4	3.8	106					0.11	34.785	25.1			
O2-2S-23m	4/22/03	1120	0.10	3.1	0.87	12.2	0.03	0.4	3.3	94					0.09	34.984	25.2			
Geomean FY '03			3.3		4.1		0.7								0.10					
O2-2S-23m	8/18/03	1245	0.07	2.2	0.25	3.5	0.25	3.5	2.4	68					0.06	34.825	28.2			
O2-2S-23m	10/29/03	1147	0.08	2.5	0.06	0.8	0.10	1.4	2.3	63					0.10	34.839	27.6			
O2-2S-23m	3/11/04	1020	0.12	3.7	0.07	1.0	0.04	0.6	2.4	67					n/a	34.357	25.8			
O2-2S-23m	5/20/04	1026	0.11	3.4	0.01	0.1	0.17	2.4	1.6	44					n/a	33.52	26.9			
Geomean FY '04			2.9		0.8		1.6								0.08					
O2-2S-23m	9/20/04	1004	0.09	2.8	0.07	1.0	0.23	3.2	2.1	58					0.08	33.71	27.8			
O2-2S-23m	11/17/04	934	0.07	2.2	0.18	2.5	0.20	2.8	1.5	43					0.05	33.57	27.1			
O2-2S-23m	1/13/05	1059	0.05	1.5	0.07	1.0	0.09	1.3	2.0	55					0.09	34.775	24.9			
O2-2S-23m	4/11/05	1101	0.18	5.6	0.56	7.8	0.30	4.2	3.2	89					0.15	34.471	25.3			
Geomean FY '05			2.7		2.1		2.6								0.09					

NELHA Water Quality Laboratory

Transect 2, Station 2

7/27/1993 - 7/14/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O2-2S-23m	7/20/05	1052	0.19	5.9	0.45	6.3	0.18	2.5	3.7	103					0.11	34.668	26.9			
O2-2S-23m	10/11/05	934	0.06	1.9	0.04	0.6	0.17	2.4	2.7	74					0.11	34.862	26.5			
O2-2S-23m	3/13/06	1041	0.11	3.4	0.36	5.0	0.21	2.9	3.1	86					0.09	34.803	24.6			
O2-2S-23m	5/15/06	1014	0.12	3.7	1.41	19.7	0.13	1.8	9.5	266					0.16	34.541	24.9			
Geomean	FY '06		3.4		4.3		2.4								0.11					
O2-2S-23m	8/14/06	1008	0.13	4.0	0.32	4.5	0.22	3.1	2.8	78					0.13	34.595	26.7			
O2-2S-23m	11/1/06	1017	0.09	2.8	0.27	3.8	0.41	5.7	2.5	71					0.48	34.823	26.9			
O2-2S-23m	2/12/07	1039	0.13	4.0	0.19	2.7	0.34	4.8	2.4	67					0.29	34.549	24.5			
O2-2S-23m	4/9/07	1009	0.19	5.9	0.25	3.5	0.36	5.0	3.5	98					0.82	34.692	25.1			
Geomean	FY '07		4.0		3.5		4.5								0.35					
T2-10m	9/26/07	954	0.17	5.2	0.24	3.3	0.27	3.8	2.7	76	0.28	8.7	4.1	58	0.10	34.967	26.8	8.17	6.21	0.13
T2-10m	12/13/07	1124	0.11	3.3	0.44	6.1			20.1	566	0.38	11.7	8.4	118	0.16	34.697	25.7	8.23	6.54	0.24
T2-10m	3/10/08	1014	0.19	6.0	0.29	4.0	0.06	0.8	14.4	405	0.45	13.8	7.8	109	0.12	34.901	24.9	8.2	6.62	0.32
T2-10m	6/5/08	1017	0.12	3.7	0.46	6.4	0.16	2.2	17.2	483	0.27	8.5	11.0	154	0.07	34.8093	25.0	8.08	6.77	0.15
Geomean	FY '08		4.4		4.8		1.9				10.5		103		0.11					0.20
T2-10m	9/22/08	1114	0.05	1.7	0.12	1.7	0.09	1.3	2.4	68	0.25	7.7	5.0	71	0.07	34.801	26.7	8.02	6.64	0.06
T2-10m	11/17/08	958	0.19	5.8	0.20	2.8	0.14	1.9	2.9	82	0.41	12.7	5.5	77	0.06	34.957	25.6	8.24	6.08	0.04
T2-10m	2/9/09	953	0.10	3	0.46	6.5	0.12	1.7	2.8	77	0.19	6	5.7	79	0.09	35.068	24.9	8.06	6.30	0.01
T2-10m	4/13/09	946	0.32	9.9	1.88	26.4	0.44	6.1	5.0	142	0.47	14.6	8.1	114	0.10	34.884	23.9	8.18	6.41	0.06
Geomean	FY '09		4.1		5.3		2.2				9.6		84		0.08					0.03
T2-10m	9/9/09	953	0.87	27.1	0.41	5.7	0.28	3.9	6.0	168	0.47	14.7	6.8	95	0.07	35.16	27.0	8.21	5.58	0.26
T2-10m	11/23/09	1008	0.03	0.8	0.04	0.5	0.01	0.1	24.4	684	0.39	12.2	6.8	95	0.07	35.20	25.3	8.26	6.42	0.16
T2-10m	2/23/10	1016	0.18	5.5	0.26	3.7	0.44	6.2	15.4	434	0.41	12.6	7.5	105	0.13	35.06	24.6	8.19	6.39	0.22
T2-10m	5/25/10	1029	0.04	1.3	0.16	2.2	0.18	2.5	2.6	73	0.25	7.8	6.1	86	0.07	34.96	25.1	8.23	7.00	0.1
Geomean	FY '10		3.5		2.2		1.6				11.5		95		0.08					0.17
T2-10m	8/10/10	1010	0.06	2	1.26	17.6	0.09	1.2	7.3	206	0.47	14.7	6.8	95	0.06	34.82	25.97	8.23	6.63	0.08
T2-10m	11/8/10	956	0.02	0.6	0.38	5.3	0.19	2.7	5.6	157	0.37	11.5	7.0	98	0.11	35.25	26.43	8.25	6.35	0.08
T2-10m	1/11/11	1013	0.15	4.6	0.25	3.5	0.15	2.1	5.1	144	0.42	12.9	3.6	51	0.06	34.96	24.96	8.24	6.66	0.15
T2-10m	4/26/11	1013	0.11	3.4	0.28	3.9	0.27	3.8	5.5	154	0.43	13.2	5.4	76	0.10	34.99	24.98	8.21	6.63	0.11
Geomean	FY '11		2.1		6.0		2.3				13.0		77		0.08					0.10

NELHA Water Quality Laboratory

Transect 2, Station 2

7/27/1993 - 7/14/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
T2-10m	7/26/11	1037	0.19	5.8	0.34	4.8	0.14	1.9	1.5	41	0.47	14.6	5.7	80	0.08	34.81	25.94	8.26	6.77	0.11
T2-10m	10/18/11	1002	0.03	0.8	0.31	4.3	0.36	5	2.1	58	0.29	9.1	5.9	82	0.07	35.06	26.59	8.22	7.01	0.13
T2-10m	1/25/12	1027	0.11	3.3	0.38	5.3	0.19	2.6	3.4	96	0.41	12.8	7.1	100	0.07	34.98	24.68	8.20	6.95	0.08
T2-10m	4/24/12	1053	0.17	5.4	0.77	10.8	0.18	2.5	3.6	100	0.47	14.6	5.8	81	0.20	35.07	24.67	8.20	6.86	0.12
Geomean	FY '12		3.0		5.9		2.8				12.6		85		0.09					0.11
T2-10m	7/24/12	1014	0.03	1	0.39	5.5	0.29	4	1.9	54	0.34	10.6	6.5	91	0.14	35.07	26.31	8.21	6.81	0.11
T2-10m	11/27/12	1002	0.10	3	0.94	13.2	0.29	4	6.7	188	0.47	14.6	7.9	110	0.04	35.07	25.07	8.21	6.91	0.25
T2-10m	1/23/13	1010	0.09	2.9	0.39	5.4	0.24	3.3	1.8	50	0.40	12.5	5.9	82	0.02	35.12	24.67	8.21	6.53	0.15
T2-10m	4/16/13	1018	0.13	3.9	0.19	2.6	0.09	1.3	0.3	9	0.48	15	6.9	97	0.05	35.15	24.95	8.22	6.90	0.04
Geomean	FY '13		2.4		5.7		2.9				13.1		95		0.05					0.11
T2-10m	8/1/13	924	0.05	1.6	0.44	6.1	0.01	0.2	3.5	99	0.51	15.9	6.6	93	0.06	35.22	26.1	8.25	6.90	0.19
T2-10m	10/29/13	957	0.15	4.8	0.53	7.4	0.31	4.4	2.6	72	0.45	14.0	6.5	91	0.02	35.27	27.0	8.20	6.53	0.19
T2-10m	2/4/14	1002	0.13	3.9	0.38	5.3	0.65	9.1	2.5	70	0.39	12.2	7.1	100	0.02	34.94	25.2	8.21	6.37	0.18
T2-10m	5/6/14	1005	0.12	3.8	0.50	7.0	0.32	4.5	3.0	84	0.41	12.6	7.8	109	0.03	34.78	25.9	8.23	6.29	0.15
Geomean	FY '14		3.3		6.4		2.3				13.6		98		0.03					0.18
T2-10m	8/5/14	1010	0.20	6.2	0.41	5.8	0.43	6.0	2.2	61	0.50	15.6	6.1	85	0.09	34.96	26.8	8.22	6.04	0.15
T2-10m	11/17/14	1147	0.18	5.7	0.43	6.0	0.32	4.5	1.0	29	0.45	14.0	7.0	98	0.09	34.97	27.1	8.22	7.28	0.16
T2-10m	3/3/15	1007	0.02	0.6	0.30	4.2	0.07	1.0	2.1	60	0.25	7.8	7.2	100	0.09	34.84	25.5	8.16	6.83	0.14
T2-10m	6/16/15	1121	0.13	3.9	0.71	9.9	0.31	4.3	3.0	84	0.44	13.7	5.8	81	0.08	34.22	26.6	8.23	6.23	0.19
Geomean	FY '15		3.0		6.2		3.3				12.4		91		0.09					0.16
T2-10m	8/26/15	1107	0.13	4.1	0.41	5.7	0.21	2.9	5.3	148	0.36	11.0	5.6	78	0.03	34.45	28.4	8.22	6.03	0.42
T2-10m	11/17/15	1018	0.16	5.1	0.57	8.0	0.15	2.1	3.5	98	0.50	15.4	6.3	89	0.08	33.97	27.4	8.22	6.39	0.14
T2-10m	3/1/16	1021	0.16	4.9	0.24	3.4	0.64	8.9	0.5	15	0.45	13.8	4.4	62	0.10	34.76	25.5	8.24	5.85	0.09
T2-10m	5/3/16	953	0.15	4.8	0.49	6.9	0.19	2.6	1.1	30	0.43	13.2	6.3	89	0.09	34.68	25.6	8.24	6.34	0.18
Geomean	FY '16		4.7		5.7		3.4				13.3		78		0.07					0.18
T2-10m	7/6/16	1050	0.14	4.3	0.24	3.3	0.56	7.8	1.4	39	0.46	14.2	6.7	93	0.11	34.55	26.9	8.27	6.67	0.24
T2-10m	12/20/16	1034	0.05	1.5	0.21	3.0	0.31	4.3	1.4	39	0.36	11.3	4.1	57	0.02	34.72	25.6	8.27	6.14	0.21
T2-10m	2/28/17	930	0.00	0.1	0.12	1.7	0.12	1.7	0.3	8	0.30	9.2	3.5	49	0.07	34.67	24.7	8.22	5.86	0.13
T2-10m	5/10/17	927	0.05	1.7	0.21	2.9	0.07	1.0	0.9	26	0.22	6.9	4.5	63	0.07	34.73	25.7	8.21	4.27	0.08
Geomean	FY '17		1.0		2.6		2.7				10.0		64		0.06					0.15

NELHA Water Quality Laboratory

Transect 2, Station 2

7/27/1993 - 7/14/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (μM) (μg P/L)		TDN (μM) (μg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (μg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
T2-10m	9/27/17	1016	0.14	4.2	0.34	4.8	0.25	3.5	1.1	32	0.42	12.9	4.5	64	0.11	34.80	27.8	8.20	4.44	0.23
T2-10m	11/28/17	1114	0.15	4.6	0.51	7.1	0.25	3.5	2.6	72	0.40	12.4	3.7	52	0.07	35.05	26.1	8.21	5.03	0.26
T2-10m	1/30/18	1056	0.14	4.2	0.55	7.7	0.24	3.3	3.0	85	0.36	11.2	2.9	41	0.10	34.84	24.6	8.17	5.54	0.13
T2-10m	5/16/18	1051	0.10	3.1	0.57	8.0	0.17	2.4	3.6	102	0.38	11.8	3.0	42	0.02	34.71	25.6	8.17	6.10	0.13
Geomean	FY '18		4.0		6.8		3.1				12.1		49		0.06					0.18
T2-10m	9/24/18	1023	0.05	1.6	0.16	2.3	0.16	2.3	0.2	5	0.36	11.2	2.7	38	0.10	34.77	27.8	8.17	5.20	0.20
T2-10m	11/13/18	1056	0.07	2.3	0.81	11.3	0.41	5.7	1.0	28	0.39	12.1	4.8	67	0.09	35.00	27.3	8.21	4.46	0.37
T2-10m	1/22/19	1043	0.09	2.7	0.09	1.3	0.01	0.1	0.1	4	0.38	11.8	2.4	34	0.08	34.99	25.1	8.22	5.79	0.12
T2-10m	4/16/19	1045	0.14	4.4	0.32	4.5	0.19	2.6	2.0	56	0.41	12.8	3.1	43	0.07	35.63	25.8	8.16	7.56	0.14
Geomean	FY '19		2.6		3.5		1.4				12.0		44		0.08					0.19
T2-10m	8/13/19	1020	0.05	1.7	0.07	1.0	0.20	2.8	4.0	113	0.33	10.1	2.8	40	0.16	35.54	28.3	8.22	6.92	0.16
T2-10m	8/13/19	1035	0.11	3.3	0.19	2.7	1.20	16.8	0.8	23	0.38	11.7	3.6	50	0.09	35.37	27.5	8.21	6.93	0.18
T2-10m	11/20/19	1014	0.16	5.1	0.36	5.0	0.09	1.3	2.2	61	0.45	13.9	3.2	44	0.05	34.93	25.0	8.21	6.83	0.13
T2-10m	1/22/20	1044	0.13	4.0	0.78	10.9	0.15	2.1	3.6	102	0.32	10.0	3.1	43	0.07	35.27	25.9	8.17	6.97	0.26
Geomean	FY '20		3.3		3.5		3.3				11.3		44		0.08					0.18

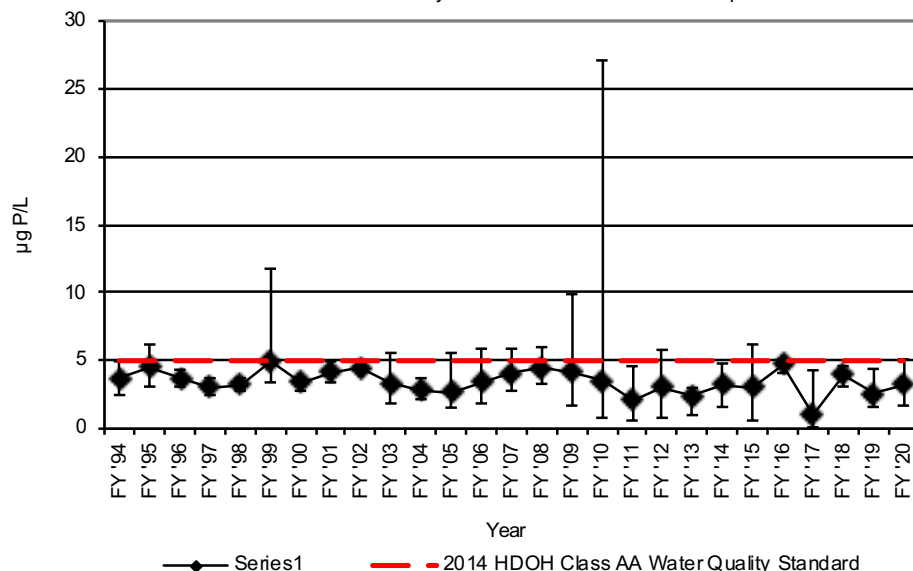
NELHA Water Quality Laboratory

Transect 2, Station 2

7/27/1993 - 7/14/20

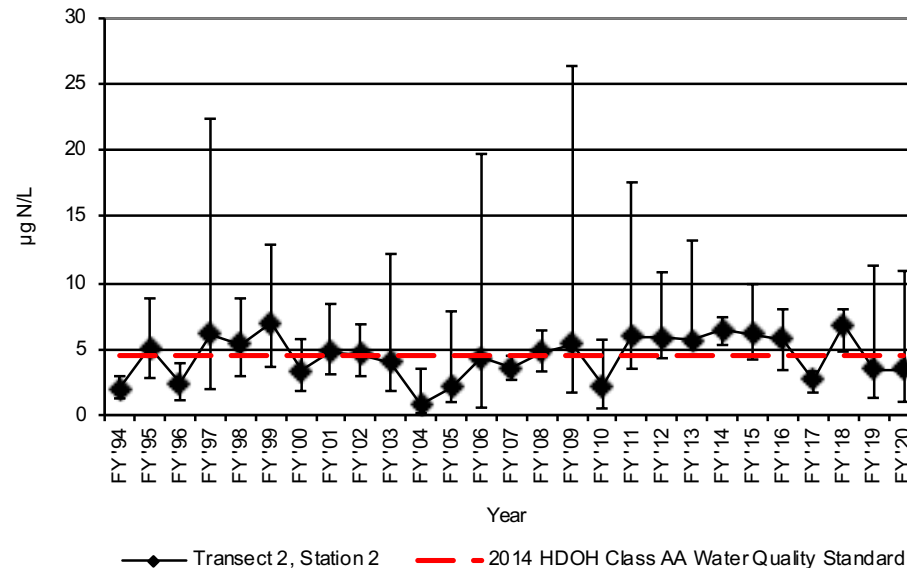
NELHA Offshore Transect 2, Station 2

Yearly Geometric Mean of Ortho-Phosphate



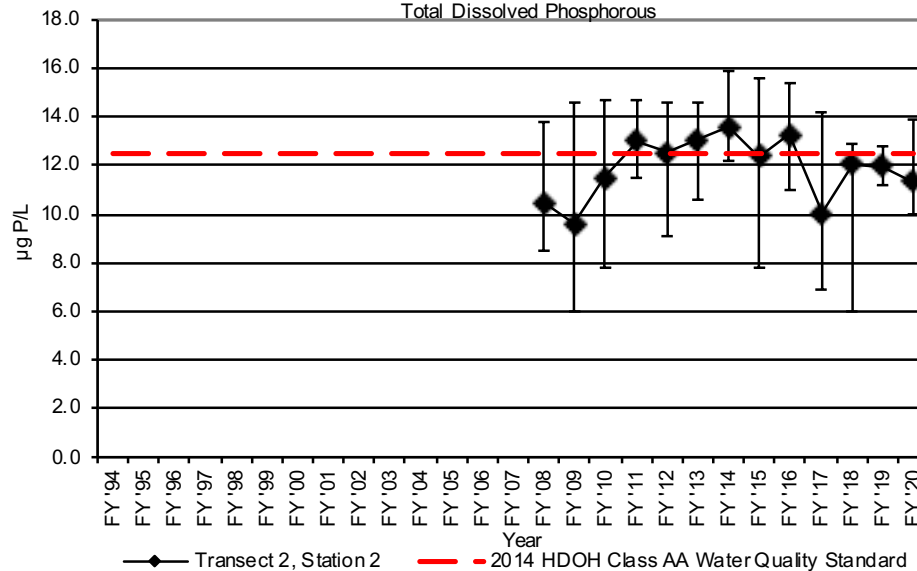
NELHA Offshore Transect 2, Station 2

Yearly Geometric Mean of Nitrate + Nitrite



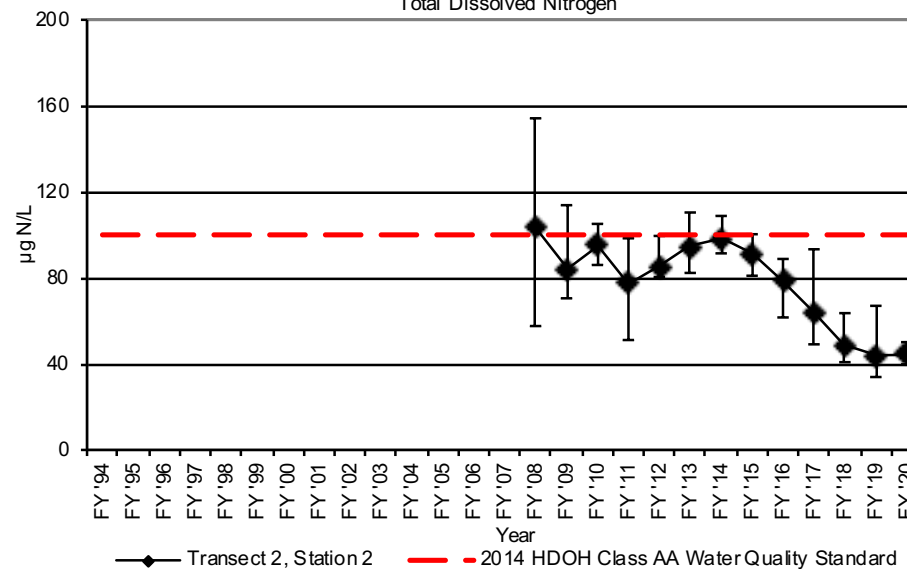
NELHA Offshore Transect 2, Station 2

Yearly Geometric Mean of
Total Dissolved Phosphorous



NELHA Offshore Transect 2, Station 2

Yearly Geometric Mean of
Total Dissolved Nitrogen



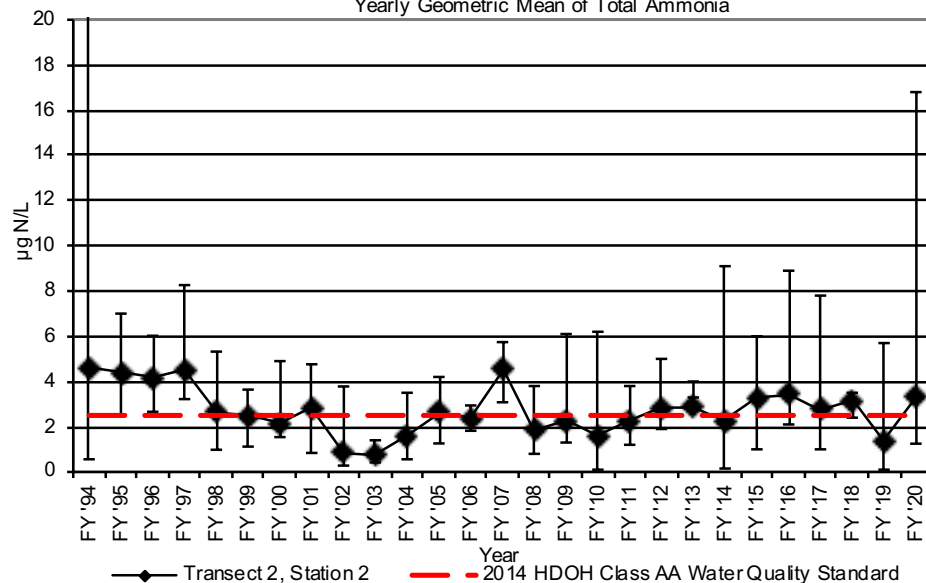
NELHA Water Quality Laboratory

Transect 2, Station 2

7/27/1993 - 7/14/20

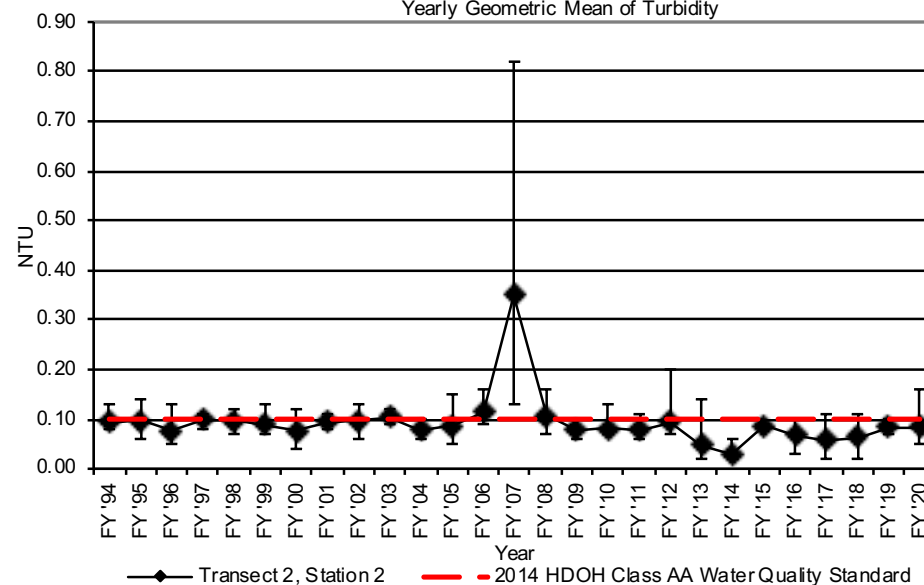
NELHA Offshore Transect 2, Station 2

Yearly Geometric Mean of Total Ammonia



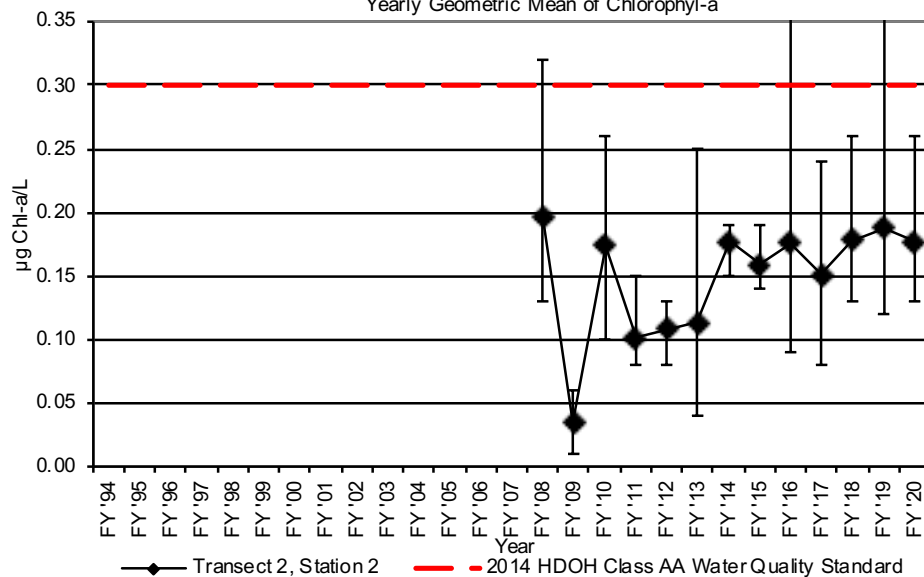
NELHA Offshore Transect 2, Station 2

Yearly Geometric Mean of Turbidity



NELHA Offshore Transect 2, Station 2

Yearly Geometric Mean of Chlorophyll-a



NELHA Water Quality Laboratory

Transect 2, Station 3

7/27/1993 - 7/14/20

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		Turbidity	Salinity	Temp.	pH	DO	Chl a
	M/D/Y	(2400)	(µM)	(µg P/L)	(µM)	(µg N/L)	(µM)	(µg N/L)	(µM)	(µg Si/L)	(µM)	(µg P/L)	(µM)	(µg N/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O2-3S-38m	7/27/93	954	0.07	2.2	0.05	0.7	0.24	3.4	2.4	66					0.08	34.471	26.6			
O2-3S-38m	12/7/93	916	0.10	3.1	0.20	2.8	0.20	2.8	3.6	102					0.06	34.774	25.6			
O2-3S-38m	3/16/94	915	0.16	5.0	0.29	4.1	0.17	2.4	5.5	154					0.10	34.442	24.6			
O2-3S-38m	6/14/94	854	0.12	3.7	0.15	2.1	0.08	1.1	2.7	75					0.11	34.541	25.3			
Geomean FY '94			3.3		2.0		2.2								0.09					
O2-3S-38m	9/8/94	1019	0.10	3.1	0.26	3.6	0.20	2.8	3.4	95					0.08	34.590	27.7			
O2-3S-38m	11/16/94	816	0.15	4.6	0.24	3.4	0.52	7.3	3.4	94					0.07	34.555	26.0			
O2-3S-38m	3/21/95	1014	0.20	6.2	0.17	2.4	0.18	2.5	3.4	95					0.10	34.210	25.4			
O2-3S-38m	6/26/95	825	0.12	3.7	0.45	6.3	0.49	6.9	4.9	137					0.07	34.514	26.5			
Geomean FY '95			4.3		3.7		4.3								0.08					
O2-3S-38m	9/25/95	1037	0.12	3.7	0.35	4.9	0.20	2.8	5.4	153					0.12	34.476	27.3			
O2-3S-38m	11/13/95	1001	0.11	3.4	0.18	2.5	0.40	5.6	2.1	60					0.07	34.391	26.8			
O2-3S-38m	3/11/96	1051	0.13	4.0	0.21	2.9	0.47	6.6	2.9	82					0.10	34.245	25.3			
O2-3S-38m	5/13/96	956	0.10	3.1	0.04	0.6	0.23	3.2	1.9	53					0.07	34.317	26.9			
Geomean FY '96			3.5		2.1		4.3								0.09					
O2-3S-38m	7/30/96	940	0.11	3.4	0.96	13.4	0.18	2.5	3.7	103					0.10	34.462	27.9			
O2-3S-38m	10/1/96	1028	0.07	2.2	0.13	1.8	0.59	8.3	2.0	56					0.08	34.722	27.9			
O2-3S-38m	1/6/97	1056	0.09	2.8	0.23	3.2	0.20	2.8	3.3	93					0.09	34.668	25.7			
O2-3S-38m	4/21/97	1040	0.10	3.1	0.79	11.1	0.22	3.1	2.7	77					0.09	34.530	26.4			
Geomean FY '97			2.8		5.4		3.7								0.09					
O2-3S-38m	8/18/97	1027	0.11	3.4	0.56	7.8	0.26	3.6	8.0	224					0.10	34.538	26.8			
O2-3S-38m	10/6/97	1058	0.10	3.1	0.18	2.5	0.33	4.6	4.0	111					0.09	34.724	27.5			
O2-3S-38m	3/3/98	1032	0.09	2.8	0.27	3.8	0.20	2.8	3.3	92					0.08	34.989	24.9			
O2-3S-38m	5/4/98	1001	0.11	3.4	0.70	9.8	0.11	1.5	7.2	202					0.07	34.914	23.8			
Geomean FY '98			3.2		5.2		2.9								0.08					
O2-3S-38m	7/6/98	1100	0.13	4.0	0.75	10.5	0.07	1.0	9.3	260					0.10	34.937	26.3			
O2-3S-38m	10/5/98	1037	0.09	2.8	0.16	2.2	0.16	2.2	3.5	98					0.08	35.102	27.3			
O2-3S-38m	1/13/99	1047	0.11	3.4	0.41	5.7	0.10	1.4	3.3	94					0.07	35.080	24.9			
O2-3S-38m	4/12/99	1027	0.13	4.0	0.25	3.5	0.06	0.8	4.2	119					0.08	34.665	24.1			
Geomean FY '99			3.5		4.7		1.3								0.08					

NELHA Water Quality Laboratory

Transect 2, Station 3

7/27/1993 - 7/14/20

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		Turbidity	Salinity	Temp.	pH	DO	Chl a
	M/D/Y	(2400)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg N/L)	(μM)	(μg Si/L)	(μM)	(μg P/L)	(μM)	(μg N/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(μg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O2-3S-38m	7/6/99	1040	0.11	3.4	0.10	1.4	0.09	1.3	2.5	70					0.09	34.945	25.7			
O2-3S-38m	10/4/99	1122	0.12	3.7	0.30	4.2	0.10	1.4	6.1	172					0.09	34.915	26.0			
O2-3S-38m	1/4/00	1103	0.11	3.4	0.32	4.5	0.35	4.9	3.5	97					0.10	35.094	24.8			
O2-3S-38m	4/17/00	1052	0.12	3.7	0.36	5.0	0.15	2.1	7.2	202					0.06	34.618	24.3			
Geomean FY '00			3.6		3.4		2.1								0.08					
O2-3S-38m	7/24/00	1110	0.11	3.4	0.25	3.5	0.03	0.4	2.8	78					0.08	34.879	27.3			
O2-3S-38m	10/30/00	1127	0.12	3.7	0.03	0.4	0.31	4.3	4.5	127					0.08	34.997	27.0			
O2-3S-38m	2/26/01	1116	0.16	5.0	0.28	3.9	0.20	2.8	5.0	140					0.14	34.707	24.9			
O2-3S-38m	5/7/01	1122	0.14	4.3	0.46	6.4	0.33	4.6	3.8	107					0.06	34.833	24.6			
Geomean FY '01			4.1		2.5		2.2								0.09					
O2-3S-38m	8/21/01	1020	0.14	4.3	0.29	4.1	0.03	0.4	2.5	69					0.08	34.792	26.6			
O2-3S-38m	10/8/01	1039	0.14	4.3	0.16	2.2	0.05	0.7	2.7	75					0.08	34.960	27.3			
O2-3S-38m	3/5/02	953	0.15	4.6	0.20	2.8	0.03	0.4	4.2	119					0.10	34.683	24.2			
O2-3S-38m	4/17/02	1000	0.16	5.0	0.29	4.1	0.26	3.6	4.3	122					0.10	34.466	25.5			
Geomean FY '02			4.6		3.2		0.8								0.09					
O2-3S-38m	7/8/02	1117	0.18	5.6	0.17	2.4	0.11	1.5	3.6	100					0.08	34.660	26.5			
O2-3S-38m	10/9/02	952	0.05	1.5	0.20	2.8	0.13	1.8	2.7	76					0.09	34.931	27.0			
O2-3S-38m	3/12/03	1112	0.12	3.7	0.27	3.8	0.03	0.4	10.6	298					0.21	34.805	25.1			
O2-3S-38m	4/22/03	1116	0.10	3.1	0.42	5.9	0.04	0.6	2.6	73					0.13	35.026	25.2			
Geomean FY '03			3.2		3.5		0.9								0.12					
O2-3S-38m	8/18/03	1238	0.08	2.5	0.08	1.1	0.20	2.8	2.3	64					0.04	34.839	28.2			
O2-3S-38m	10/29/03	1128	0.06	1.9	0.06	0.8	0.10	1.4	2.2	63					0.09	34.862	27.6			
O2-3S-38m	3/11/04	1014	0.13	4.0	0.04	0.6	0.04	0.6	1.7	46					n/a	34.361	25.7			
O2-3S-38m	5/20/04	1032	0.11	3.4	0.01	0.1	0.21	2.9	1.6	46					n/a	33.36	27.0			
Geomean FY '04			2.8		0.5		1.6								0.06					
O2-3S-38m	9/20/04	957	0.10	3.1	0.11	1.5	0.23	3.2	2.2	61					0.08	33.74	27.8			
O2-3S-38m	11/17/04	930	0.10	3.1	0.19	2.7	0.23	3.2	1.8	51					0.09	33.52	27.4			
O2-3S-38m	1/13/05	1052	0.06	1.9	0.17	2.4	0.06	0.8	2.5	70					0.09	34.838	24.9			
O2-3S-38m	4/11/05	1053	0.14	4.3	0.38	5.3	0.29	4.1	2.9	83					0.07	34.511	25.3			
Geomean FY '05			3.0		2.7		2.4								0.08					

NELHA Water Quality Laboratory

Transect 2, Station 3

7/27/1993 - 7/14/20

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		Turbidity	Salinity	Temp.	pH	DO	Chl a
	M/D/Y	(2400)	(µM)	(µg P/L)	(µM)	(µg N/L)	(µM)	(µg N/L)	(µM)	(µg Si/L)	(µM)	(µg P/L)	(µM)	(µg N/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O2-3S-38m	7/20/05	1049	0.05	1.5	0.01	0.1	0.13	1.8	1.4	40					0.07	34.747	26.8			
O2-3S-38m	10/11/05	926	0.06	1.9	0.01	0.1	0.19	2.7	4.5	126					0.13	34.900	26.5			
O2-3S-38m	3/13/06	1035	0.10	3.1	0.23	3.2	0.29	4.1	5.6	158					0.10	34.814	24.6			
O2-3S-38m	5/15/06	1007	0.10	3.1	1.54	21.6	0.17	2.4	13.4	376					0.13	34.389	24.9			
Geomean FY '06			2.3		1.1		2.6								0.10					
O2-3S-38m	8/14/06	1003	0.13	4.0	0.36	5.0	0.20	2.8	3.2	89					0.13	34.602	26.6			
O2-3S-38m	11/1/06	1011	0.09	2.8	0.24	3.4	0.37	5.2	2.4	69					0.30	34.806	26.8			
O2-3S-38m	2/12/07	1034	0.13	4.0	0.25	3.5	0.40	5.6	2.9	82					0.12	34.543	24.5			
O2-3S-38m	4/9/07	1003	0.10	3.1	0.18	2.5	0.26	3.6	3.7	104					0.17	34.685	25.1			
Geomean FY '07			3.4		3.5		4.1								0.17					
T2-50m	9/26/07	1002	0.17	5.3	0.29	4.0	0.11	1.6	5.0	141	0.09	2.8	5.4	76	0.04	34.945	26.8	8.16	6.23	0.09
T2-50m	12/13/07	1126	0.10	3.2	0.31	4.3			16.3	456	0.38	11.8	6.1	86	0.14	34.707	25.7	8.23	6.45	0.25
T2-50m	3/10/08	1017	0.20	6.1	0.41	5.7	0.06	0.8	4.1	115	0.41	12.7	7.1	99	0.25	34.870	25.0	8.19	6.54	0.26
T2-50m	6/5/08	1020	0.12	3.8	0.26	3.6	0.16	2.2	21.2	595	0.20	6.1	8.8	124	0.06	34.798	25.2	8.06	6.44	0.19
Geomean FY '08			4.5		4.3		1.4				7.1		95		0.10					0.18
T2-50m	9/22/08	1120	0.05	1.5	0.04	0.6	0.04	0.6	1.8	50	0.27	8.5	4.9	68	0.09	34.812	26.7	8.03	6.60	0.09
T2-50m	11/17/08	1000	0.16	5	0.16	2.2	0.16	2.2	2.4	66	0.39	12	5.8	82	0.06	34.962	25.7	8.25	6.05	0.06
T2-50m	2/9/09	1002	0.06	2	0.10	1.4	0.10	1.4	1.2	33	0.14	4.3	5.5	77	0.07	35.116	24.9	8.06	5.99	0.01
T2-50m	4/13/09	951	0.26	7.9	0.49	6.9	0.49	6.9	3.5	98	0.47	14.5	7.0	98	0.10	34.955	24.0	8.18	6.15	0.02
Geomean FY '09			3.3		1.9		1.9				8.9		81		0.08					0.03
T2-50m	9/9/09	1000	0.19	5.8	0.29	4	0.38	5.3	8.3	233	0.43	13.3	8.5	118	0.05	35.22	27.0	8.21	5.76	0.15
T2-50m	11/23/09	1014	0.03	0.8	0.15	2.1	0.01	0.2	15.7	441	0.40	12.4	5.8	82	0.08	35.21	25.4	8.25	6.33	0.13
T2-50m	2/23/10	1020	0.16	5.1	0.28	3.9	0.45	6.3	14.7	414	0.43	13.4	6.6	93	0.13	35.06	24.6	8.18	6.22	0.28
T2-50m	5/25/10	1035	0.04	1.1	0.06	0.8	0.05	0.7	3.1	87	0.35	10.8	6.0	85	0.06	35.00	24.9	8.22	6.84	0.1
Geomean FY '10			2.3		2.3		1.5				12.4		93		0.07					0.15
T2-50m	8/10/10	1015	0.00	0.1	0.51	7.1	0.05	0.7	2.2	61	0.43	13.3	8.5	118	0.06	34.87	26.10	8.23	6.44	0.08
T2-50m	11/8/10	1002	0.02	0.7	0.39	5.5	0.21	3.0	4.1	116	0.32	9.8	6.4	90	0.09	35.26	26.42	8.25	6.28	0.09
T2-50m	1/11/11	1017	0.14	4.3	0.30	4.2	0.07	1.0	12.4	348	0.51	15.7	4.5	64	0.05	34.92	24.93	8.23	6.44	0.16
T2-50m	4/26/11	1019	0.12	3.7	0.53	7.4	0.16	2.2	18.4	517	0.42	13	4.6	64	0.09	34.98	25.01	8.21	6.43	0.14
Geomean FY '11			1.0		5.9		1.5				12.8		81		0.07					0.11

NELHA Water Quality Laboratory

Transect 2, Station 3

7/27/1993 - 7/14/20

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		Turbidity	Salinity	Temp.	pH	DO	Chl a
	M/D/Y	(2400)	(µM)	(µg P/L)	(µM)	(µg N/L)	(µM)	(µg N/L)	(µM)	(µg Si/L)	(µM)	(µg P/L)	(µM)	(µg N/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
T2-50m	7/26/11	1044	0.19	6	0.42	5.9	0.15	2.1	3.0	84	0.48	15	6.2	87	0.04	34.79	25.97	8.26	6.68	0.09
T2-50m	10/18/11	1007	0.04	1.3	0.25	3.5	0.26	3.7	2.3	66	0.32	9.9	4.9	68	0.05	35.05	26.55	8.21	6.79	0.10
T2-50m	1/25/12	1031	0.06	2	0.02	0.3	0.02	0.3	1.4	41	0.37	11.6	5.1	71	0.07	35.03	24.66	8.20	6.73	0.13
T2-50m	4/24/12	1057	0.15	4.5	0.42	5.9	0.15	2.1	3.0	84	0.45	13.8	5.2	73	0.07	35.10	24.77	8.22	6.70	0.16
Geomean FY '12			2.9		2.5		1.5				12.4		74		0.06					0.12
T2-50m	7/24/12	1020	0.02	0.6	0.26	3.6	0.16	2.2	2.0	57	0.41	12.6	5.5	77	0.09	35.06	26.29	8.23	6.64	0.14
T2-50m	11/27/12	1006	0.10	3.1	1.01	14.2	0.25	3.5	7.4	207	0.41	12.6	6.2	87	0.03	35.00	25.03	8.21	6.90	0.11
T2-50m	1/23/13	1014	0.10	3	0.39	5.4	0.25	3.5	1.9	54	0.49	15.1	7.4	104	0.05	35.11	24.60	8.22	6.46	0.14
T2-50m	4/16/13	1022	0.14	4.2	0.19	2.6	0.18	2.5	0.4	11	0.47	14.5	5.8	81	0.03	35.10	24.89	8.23	6.90	0.05
Geomean FY '13			2.2		5.2		2.9				13.7		87		0.04					0.10
T2-50m	8/1/13	928	0.02	0.5	0.07	1.0	0.01	0.1	4.0	114	0.46	14.2	6.9	97	0.20	35.23	26.2	8.25	6.69	0.14
T2-50m	10/29/13	1001	0.15	4.5	0.39	5.4	0.27	3.8	2.8	78	0.50	15.4	6.8	95	0.03	35.29	27.0	8.23	6.44	0.20
T2-50m	2/4/14	1007	0.11	3.4	0.40	5.6	0.50	7.0	2.5	69	0.40	12.3	6.8	95	0.02	34.95	25.2	8.21	6.42	0.09
T2-50m	5/6/14	1010	0.08	2.5	0.11	1.6	0.18	2.5	2.4	68	0.45	13.8	7.4	103	0.02	34.80	26.0	8.21	6.09	0.06
Geomean FY '14			2.1		2.6		1.6				13.9		97		0.04					0.11
T2-50m	8/5/14	1017	0.20	6.1	0.26	3.6	0.36	5.0	2.1	60	0.48	15.0	6.8	95	0.07	34.95	26.9	8.22	6.02	0.17
T2-50m	11/17/14	1152	0.16	4.9	0.11	1.6	0.38	5.3	0.3	8	0.71	22.0	6.0	84	0.10	35.00	27.1	8.21	6.83	0.22
T2-50m	3/3/15	1014	0.07	2.3	0.39	5.5	0.14	1.9	3.3	93	0.30	9.2	6.9	96	0.08	34.81	25.5	8.17	6.81	0.14
T2-50m	6/16/15	1126	0.12	3.7	0.53	7.4	0.24	3.3	2.4	68	0.42	13.0	5.1	72	0.07	34.26	26.5	8.20	6.10	0.15
Geomean FY '15			4.0		3.9		3.6				14.1		86		0.08					0.17
T2-50m	8/26/15	1113	0.15	4.5	0.29	4.1	0.19	2.7	5.5	155	0.40	12.4	4.6	65	0.02	34.48	28.4	8.22	5.99	0.35
T2-50m	11/17/15	1026	0.17	5.2	0.52	7.3	0.70	9.8	6.5	184	0.50	15.6	5.6	79	0.06	33.98	27.4	8.24	6.26	0.13
T2-50m	3/1/16	1029	0.17	5.2	0.26	3.7	0.40	5.6	0.9	25	0.46	14.2	5.1	72	0.10	34.78	25.5	8.25	5.89	0.10
T2-50m	5/3/16	958	0.15	4.8	0.62	8.7	0.26	3.6	2.3	65	0.24	7.3	5.8	82	0.06	34.67	25.6	8.24	6.35	0.20
Geomean FY '16			4.9		5.6		4.8				11.9		74		0.05					0.17
T2-50m	7/6/16	1100	0.15	4.8	0.01	0.2	0.32	4.5	3.8	106	0.52	16.0	5.7	80	0.07	34.57	26.9	8.26	6.51	0.24
T2-50m	12/20/16	1040	0.05	1.5	0.15	2.1	0.19	2.6	5.1	144	0.34	10.4	4.2	60	0.04	34.74	25.6	8.27	5.75	0.15
T2-50m	2/28/17	935	0.01	0.2	0.06	0.8	0.19	2.7	0.2	4	0.31	9.6	6.3	88	0.08	34.70	24.7	8.22	5.77	0.11
T2-50m	5/10/17	932	0.06	1.9	0.04	0.6	0.09	1.3	0.5	15	0.21	6.5	3.7	53	0.07	34.77	25.7	8.22	4.15	0.06
Geomean FY '17			1.3		0.7		2.5				10.1		68		0.06					0.12

NELHA Water Quality Laboratory

Transect 2, Station 3

7/27/1993 - 7/14/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (μM) (μg P/L)		TDN (μM) (μg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (μg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
T2-50m	9/27/17	1021	0.13	4.0	0.40	5.6	0.26	3.7	1.3	38	0.44	13.7	2.7	37	0.12	34.79	27.7	8.20	4.39	0.18
T2-50m	11/28/17	1119	0.14	4.2	0.53	7.4	0.31	4.4	3.0	85	0.38	11.9	5.4	76	0.09	35.03	26.2	8.20	4.83	0.26
T2-50m	1/30/18	1059	0.11	3.5	0.46	6.5	0.21	2.9	2.7	76	0.38	11.9	4.2	59	0.12	34.86	24.6	8.16	5.44	0.11
T2-50m	5/16/18	1056	0.07	2.3	0.31	4.4	0.12	1.7	3.0	85	0.36	11.3	4.1	57	0.02	34.73	25.6	8.16	5.95	0.12
Geomean	FY '18		3.4		5.9		3.0				12.2		56		0.07					0.16
T2-50m	9/24/18	1030	0.03	0.9	0.16	2.3	0.10	1.4	0.5	15	0.32	9.9	2.7	38	0.07	34.80	27.8	8.17	5.15	0.20
T2-50m	11/13/18	1101	0.04	1.1	0.24	3.4	0.27	3.8	0.2	6	0.34	10.6	4.2	59	0.08	35.03	27.3	8.21	4.32	0.25
T2-50m	1/22/19	1047	0.08	2.6	0.02	0.3	0.07	1.0	0.2	5	0.37	11.5	2.0	28	0.05	35.00	25.1	8.22	5.65	0.18
T2-50m	4/16/19	1051	0.15	4.6	0.35	4.9	0.03	0.4	2.3	65	0.40	12.5	3.3	47	0.06	35.59	25.8	8.15	7.49	0.14
Geomean	FY '19		1.9		1.8		1.2				11.1		41		0.06					0.19
T2-50m	8/13/19	1025	0.06	2.0	0.12	1.7	0.09	1.3	4.5	125	0.33	10.2	2.8	40	0.08	35.54	28.3	8.22	6.60	0.18
T2-50m	8/13/19	1040	0.08	2.5	0.12	1.7	0.70	9.8	0.2	7	0.40	12.4	2.5	36	0.09	35.34	27.5	8.22	6.61	0.16
T2-50m	11/20/19	1021	0.12	3.8	0.16	2.3	0.09	1.3	0.0	0	0.40	12.3	2.8	39	0.04	34.93	25.0	8.22	6.67	0.11
T2-50m	1/22/20	1049	0.11	3.4	0.14	1.9	0.09	1.3	2.3	65	0.32	10.0	3.1	43	0.08	35.36	25.9	8.18	6.77	0.38
Geomean	FY '20		2.8		1.9		2.1				11.2		39		0.07					0.19

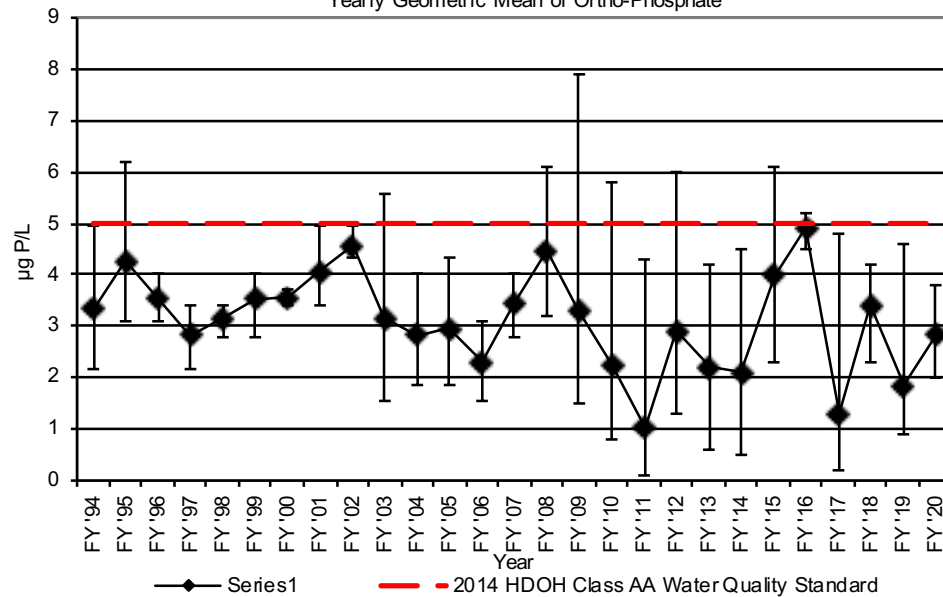
NELHA Water Quality Laboratory

Transect 2, Station 3

7/27/1993 - 7/14/20

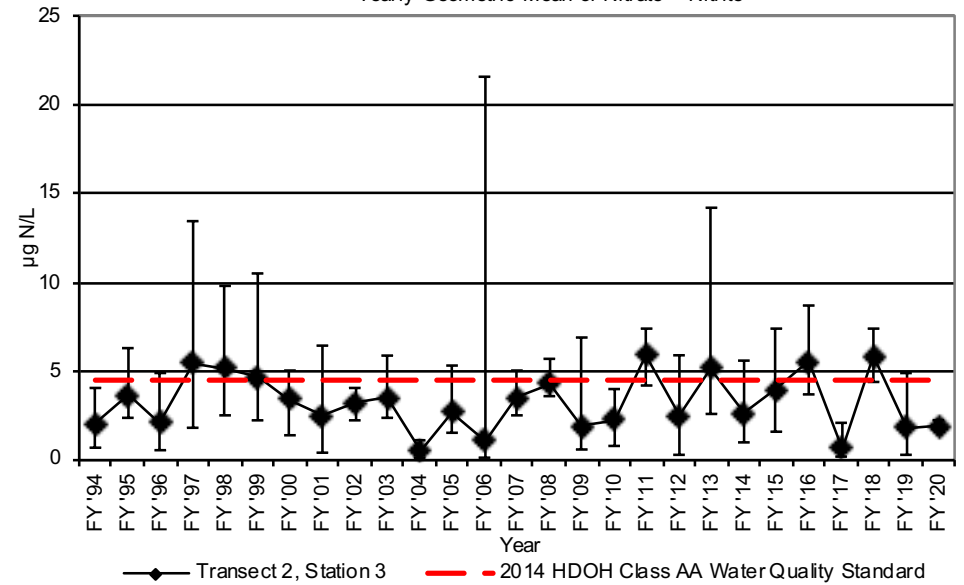
NELHA Offshore Transect 2, Station 3

Yearly Geometric Mean of Ortho-Phosphate



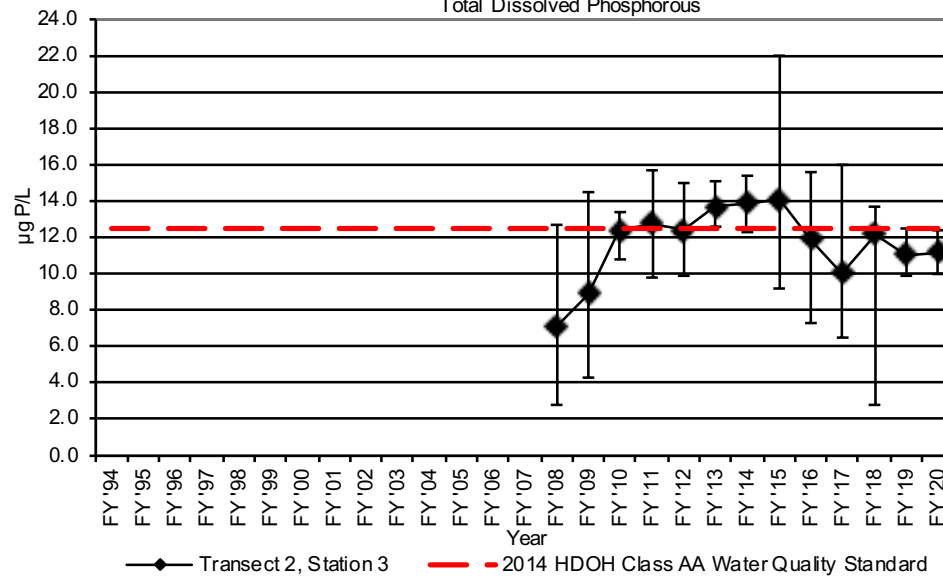
NELHA Offshore Transect 2, Station 3

Yearly Geometric Mean of Nitrate + Nitrite



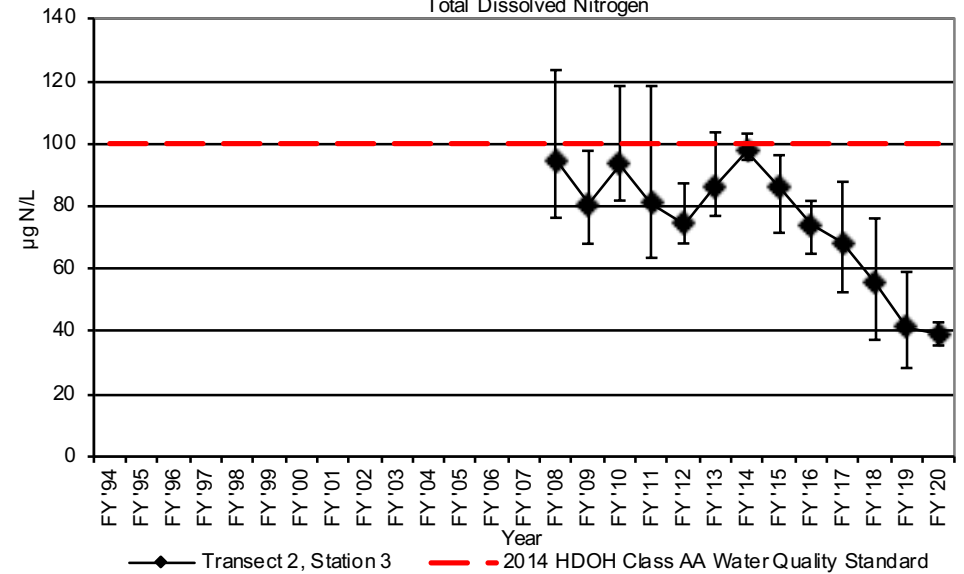
NELHA Offshore Transect 2, Station 3

Yearly Geometric Mean of
Total Dissolved Phosphorous



NELHA Offshore Transect 2, Station 3

Yearly Geometric Mean of
Total Dissolved Nitrogen



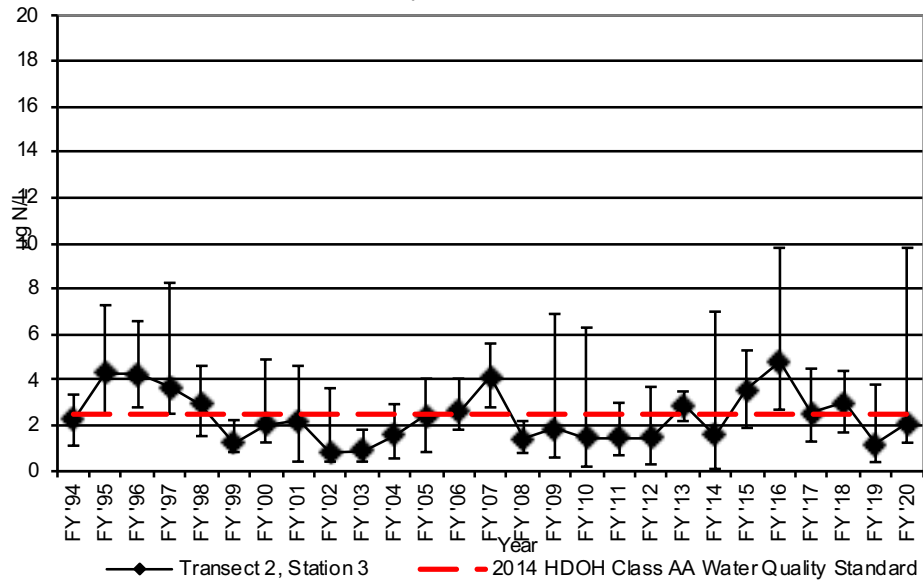
NELHA Water Quality Laboratory

Transect 2, Station 3

7/27/1993 - 7/14/20

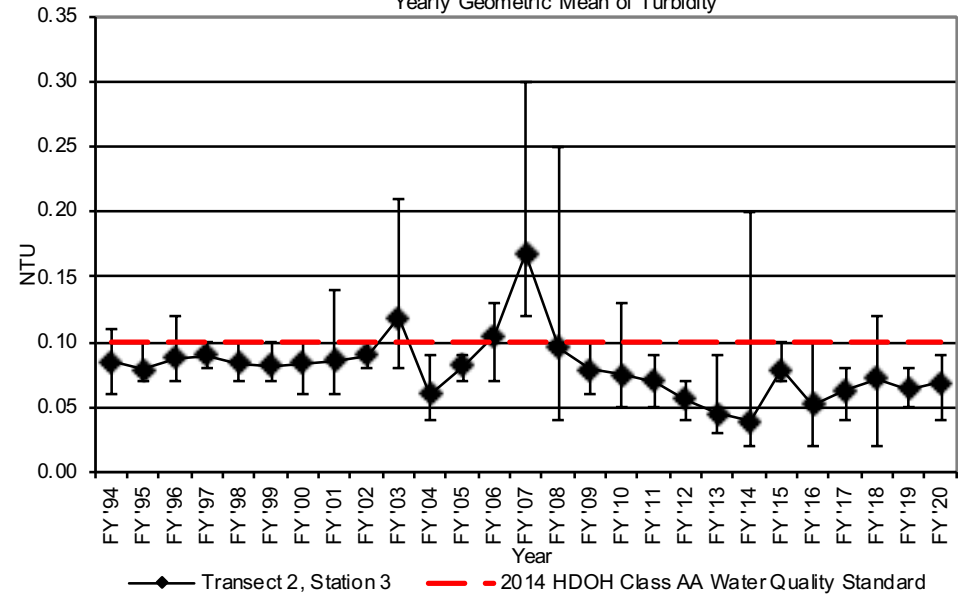
NELHA Offshore Transect 2, Station 3

Yearly Geometric Mean of Total Ammonia



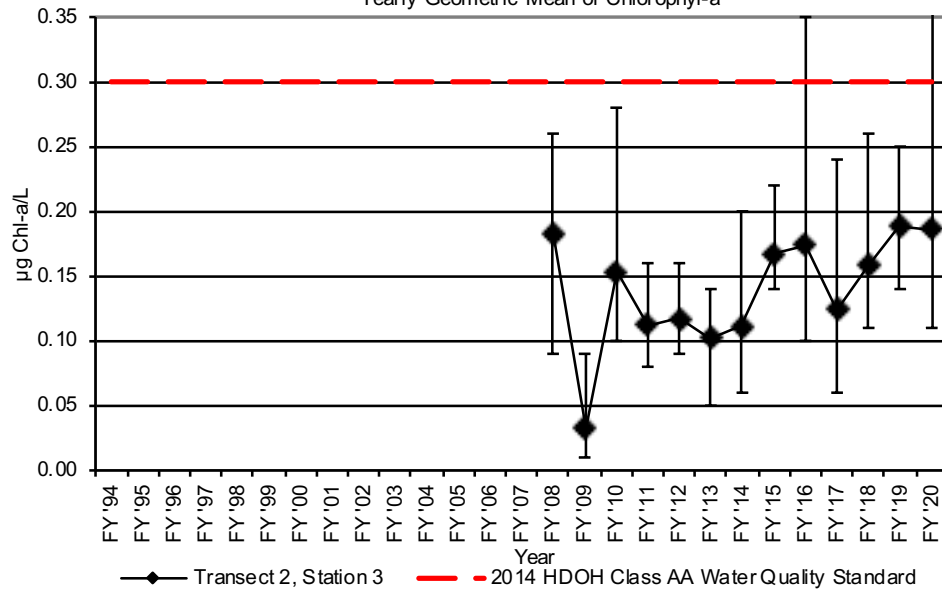
NELHA Offshore Transect 2, Station 3

Yearly Geometric Mean of Turbidity



NELHA Offshore Transect 2, Station 3

Yearly Geometric Mean of Chlorophyll-a



NELHA Water Quality Laboratory

Transect 2, Station 4

7/27/1993 - 7/14/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (μM) (μg P/L)		TDN (μM) (μg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (μg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O2-4S-53m	7/27/93	942	0.11	3.4	0.06	0.8	0.21	2.9	4.4	123					0.10	34.422	26.7			
O2-4S-53m	12/7/93	908	0.09	2.8	0.21	2.9	0.22	3.1	3.6	102					0.08	34.787	25.6			
O2-4S-53m	3/16/94	907	0.17	5.3	0.24	3.4	0.18	2.5	4.7	131					0.08	34.469	24.6			
O2-4S-53m	6/14/94	849	0.12	3.7	0.10	1.4	0.01	0.1	2.7	76					0.10	34.545	25.2			
Geomean FY '94			3.7		1.8		1.3								0.09					
O2-4S-53m	9/8/94	1016	0.09	2.8	0.18	2.5	0.20	2.8	2.8	79					0.08	34.616	27.6			
O2-4S-53m	11/16/94	813	0.14	4.3	0.14	2.0	0.51	7.1	2.6	74					0.07	34.592	26.0			
O2-4S-53m	3/21/95	959	0.19	5.9	0.16	2.2	0.20	2.8	3.2	89					0.10	34.216	25.1			
O2-4S-53m	6/26/95	817	0.11	3.4	0.17	2.4	0.42	5.9	2.1	58					0.06	34.558	26.5			
Geomean FY '95			3.9		2.3		4.3								0.08					
O2-4S-53m	9/25/95	1053	0.10	3.1	0.11	1.5	0.10	1.4	7.0	198					0.09	34.537	27.3			
O2-4S-53m	11/13/95	954	0.11	3.4	0.18	2.5	0.43	6.0	1.6	44					0.07	34.391	26.8			
O2-4S-53m	3/11/96	1045	0.11	3.4	0.21	2.9	0.43	6.0	2.2	62					0.11	34.244	25.3			
O2-4S-53m	5/13/96	950	0.10	3.1	0.02	0.3	0.23	3.2	1.8	50					0.06	34.315	26.8			
Geomean FY '96			3.2		1.3		3.6								0.08					
O2-4S-53m	7/30/96	935	0.11	3.4	1.02	14.3	0.18	2.5	3.7	104					0.08	34.473	27.9			
O2-4S-53m	10/1/96	1024	0.08	2.5	0.14	2.0	0.59	8.3	2.0	56					0.09	34.738	27.8			
O2-4S-53m	1/6/97	1051	0.09	2.8	0.23	3.2	0.24	3.4	3.6	100					0.08	34.664	25.7			
O2-4S-53m	4/21/97	1032	0.12	3.7	0.76	10.6	0.25	3.5	2.8	78					0.09	34.529	26.4			
Geomean FY '97			3.1		5.6		4.0								0.08					
O2-4S-53m	8/18/97	1023	0.12	3.7	0.65	9.1	0.23	3.2	7.3	206					0.10	34.507	26.8			
O2-4S-53m	10/6/97	1053	0.09	2.8	0.08	1.1	0.32	4.5	14.6	410					0.11	34.729	27.5			
O2-4S-53m	3/3/98	1026	0.07	2.2	0.14	2.0	0.19	2.7	3.2	91					0.07	35.007	24.9			
O2-4S-53m	5/4/98	956	0.12	3.7	0.69	9.7	0.13	1.8	7.3	206					0.08	34.917	23.8			
Geomean FY '98			3.0		3.7		2.9								0.09					
O2-4S-53m	7/6/98	1054	0.12	3.7	0.59	8.3	0.07	1.0	5.6	158					0.09	34.943	26.3			
O2-4S-53m	10/5/98	1032	0.08	2.5	0.08	1.1	0.11	1.5	1.4	40					0.08	35.123	27.3			
O2-4S-53m	1/13/99	1042	0.11	3.4	0.56	7.8	0.10	1.4	4.5	126					0.07	35.043	25.0			
O2-4S-53m	4/12/99	1021	0.13	4.0	0.27	3.8	0.08	1.1	4.1	116					0.08	34.686	24.1			
Geomean FY '99			3.4		4.1		1.2								0.08					

NELHA Water Quality Laboratory

Transect 2, Station 4

7/27/1993 - 7/14/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O2-4S-53m	7/6/99	1035	0.09	2.8	0.13	1.8	0.11	1.5	3.8	106					0.09	34.950	25.7			
O2-4S-53m	10/4/99	1115	0.12	3.7	0.34	4.8	0.14	2.0	5.1	142					0.08	34.911	26.1			
O2-4S-53m	1/4/00	1059	0.10	3.1	0.32	4.5	0.35	4.9	3.5	98					0.07	35.092	24.8			
O2-4S-53m	4/17/00	1047	0.13	4.0	0.36	5.0	0.15	2.1	3.7	103					0.06	34.611	24.3			
Geomean	FY '00		3.4		3.7		2.4								0.07					
O2-4S-53m	7/24/00	1106	0.11	3.4	0.29	4.1	0.09	1.3	3.7	103					0.06	34.881	27.2			
O2-4S-53m	10/30/00	1121	0.13	4.0	0.04	0.6	0.31	4.3	3.8	106					0.06	34.950	27.1			
O2-4S-53m	2/26/01	1111	0.16	5.0	0.37	5.2	0.19	2.7	5.0	140					0.12	34.711	24.9			
O2-4S-53m	5/7/01	1119	0.12	3.7	0.37	5.2	0.33	4.6	3.6	100					0.13	34.845	24.6			
Geomean	FY '01		4.0		2.8		2.9								0.09					
O2-4S-53m	8/21/01	1015	0.09	2.8	0.10	1.4	0.02	0.3	2.0	57					0.06	34.807	26.6			
O2-4S-53m	10/8/01	1035	0.13	4.0	0.08	1.1	0.06	0.8	2.3	65					0.06	34.948	27.3			
O2-4S-53m	3/5/02	949	0.15	4.6	0.33	4.6	0.03	0.4	4.8	135					0.13	34.680	24.1			
O2-4S-53m	4/17/02	955	0.16	5.0	0.32	4.5	0.23	3.2	18.9	530					0.08	34.463	25.4			
Geomean	FY '02		4.0		2.4		0.8								0.08					
O2-4S-53m	7/8/02	1113	0.18	5.6	0.24	3.4	0.15	2.1	3.5	99					0.12	34.643	26.6			
O2-4S-53m	10/9/02	946	0.06	1.9	0.16	2.2	0.12	1.7	2.5	69					0.07	34.944	27.0			
O2-4S-53m	3/12/03	1108	0.10	3.1	0.13	1.8	0.03	0.4	3.5	99					0.07	34.786	25.2			
O2-4S-53m	4/22/03	1110	0.08	2.5	0.28	3.9	0.04	0.6	2.7	77					0.06	35.013	25.1			
Geomean	FY '03		3.0		2.7		1.0								0.08					
O2-4S-53m	8/18/03	1230	0.06	1.9	0.08	1.1	0.20	2.8	2.5	70					0.04	34.824	28.2			
O2-4S-53m	10/29/03	1120	0.03	0.9	0.03	0.4	0.10	1.4	2.3	65					0.09	34.839	27.6			
O2-4S-53m	3/11/04	1007	0.12	3.7	0.01	0.1	0.04	0.6	1.7	47					n/a	34.353	25.7			
O2-4S-53m	5/20/04	1037	0.11	3.4	0.01	0.1	0.19	2.7	1.4	38					n/a	33.47	27.0			
Geomean	FY '04		2.2		0.3		1.6								0.06					
O2-4S-53m	9/20/04	952	0.09	2.8	0.05	0.7	0.22	3.1	1.9	52					0.09	33.77	27.8			
O2-4S-53m	11/17/04	925	0.10	3.1	0.13	1.8	0.27	3.8	2.1	58					0.07	33.58	26.7			
O2-4S-53m	1/13/05	1047	0.07	2.2	0.19	2.7	0.06	0.8	3.0	85					0.08	34.849	24.8			
O2-4S-53m	4/11/05	1048	0.13	4.0	0.31	4.3	0.24	3.4	2.8	79					0.08	34.575	25.3			
Geomean	FY '05		2.9		2.0		2.4								0.08					

NELHA Water Quality Laboratory

Transect 2, Station 4

7/27/1993 - 7/14/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O2-4S-53m	7/20/05	1034	0.05	1.5	0.01	0.1	0.13	1.8	1.4	38					0.10	34.743	26.8			
O2-4S-53m	10/11/05	919	0.07	2.2	0.02	0.3	0.19	2.7	2.5	69					0.14	34.904	26.5			
O2-4S-53m	3/13/06	1028	0.09	2.8	0.12	1.7	0.35	4.9	8.8	247					0.09	34.823	24.6			
O2-4S-53m	5/15/06	1002	0.12	3.7	1.27	17.8	0.07	1.0	13.8	388					0.11	34.396	24.8			
Geomean FY '06			2.4		1.0		2.2								0.11					
O2-4S-53m	8/14/06	956	0.13	4.0	0.41	5.7	0.17	2.4	3.3	92					0.15	34.597	26.0			
O2-4S-53m	11/1/06	1006	0.08	2.5	0.21	2.9	0.42	5.9	2.3	65					0.28	34.799	26.9			
O2-4S-53m	2/12/07	1028	0.13	4.0	0.24	3.4	0.43	6.0	2.5	70					0.23	34.569	24.5			
O2-4S-53m	4/9/07	957	0.12	3.7	0.20	2.8	0.25	3.5	3.8	106					0.16	34.68	25.1			
Geomean FY '07			3.5		3.6		4.1								0.20					
T2-100m	9/26/07	1009	0.13	4.0	0.07	1.0	0.07	1.0	12.6	353	0.01	0.4	6.7	94	0.05	34.977	26.9	8.18	6.27	0.08
T2-100m	12/13/07	1131	0.09	2.7	0.06	0.8			11.7	328	0.26	8.1	7.4	103	0.18	34.700	25.8	8.23	6.42	0.25
T2-100m	3/10/08	1022	0.19	6.0	0.38	5.3	0.06	0.8	3.5	98	0.33	10.1	8.6	121	0.17	34.886	25.1	8.27	6.69	0.32
T2-100m	6/5/08	1022	0.12	3.7	0.22	3.1	0.16	2.2	24.2	679	0.29	9.0	10.5	147	0.05	34.8205	25.1	8.07	6.55	0.15
Geomean FY '08			3.9		1.9		1.2				4.1		115		0.09					0.18
T2-100m	9/22/08	1127	0.04	1.3	0.05	0.7	0.16	2.3	1.4	40	0.27	8.4	4.6	65	0.08	34.830	26.8	8.05	6.73	0.07
T2-100m	11/17/08	1006	0.16	4.9	0.06	0.8	0.14	1.9	2.1	59	0.34	10.6	5.2	73	0.06	34.978	25.8	8.26	5.82	0.04
T2-100m	2/9/09	1009	0.06	1.8	0.10	1.4	0.12	1.7	1.5	43	0.11	3.3	6.9	97	0.06	35.127	24.8	8.07	6.03	0.01
T2-100m	4/13/09	956	0.23	7.1	0.12	1.7	0.33	4.6	2.9	80	0.43	13.4	5.3	75	0.10	34.989	24.0	8.19	5.99	0.15
Geomean FY '09			3.0		1.1		2.4				7.9		76		0.07					0.05
T2-100m	9/9/09	1007	0.21	6.5	0.16	2.2	0.10	1.4	10.6	298	0.52	16.0	7.1	99	0.06	35.19	26.8	8.20	5.82	0.24
T2-100m	11/23/09	1019	0.03	0.8	0.09	1.2	0.06	0.8	52.2	1466	0.42	13.1	5.6	78	0.06	35.18	25.4	8.25	6.06	0.12
T2-100m	2/23/10	1024	0.15	4.8	0.18	2.5	0.29	4	13.5	380	0.36	11.1	7.2	101	0.06	35.07	24.6	8.18	6.03	0.23
T2-100m	5/25/10	1040	0.03	0.9	0.06	0.9	0.11	1.5	4.6	130	0.36	11.3	6.4	90	0.09	34.99	24.9	8.22	6.88	0.08
Geomean FY '10			2.2		1.6		1.6				12.7		92		0.07					0.15
T2-100m	8/10/10	1021	0.05	1.6	0.52	7.3	0.01	0.2	3.9	109	0.52	16	7.1	99	0.05	34.89	26.13	8.22	6.34	0.13
T2-100m	11/8/10	1007	0.00	0.1	0.16	2.2	0.14	1.9	7.5	210	0.33	10.3	5.9	83	0.11	35.26	26.45	8.25	6.16	0.09
T2-100m	1/11/11	1023	0.13	4	0.27	3.8	0.11	1.5	2.7	75	0.45	13.8	3.9	55	0.08	34.95	24.95	8.23	6.32	0.11
T2-100m	4/26/11	1023	0.09	2.8	0.31	4.3	0.06	0.8	1.7	47	0.43	13.4	4.0	56	0.10	34.98	25.00	8.21	6.42	0.11
Geomean FY '11			1.2		4.0		0.8				13.2		71		0.08					0.11

NELHA Water Quality Laboratory

Transect 2, Station 4

7/27/1993 - 7/14/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
T2-100m	7/26/11	1050	0.19	5.9	0.36	5	0.14	1.9	2.3	64	0.47	14.7	4.1	57	0.06	34.79	25.98	8.25	6.52	0.11
T2-100m	10/18/11	1012	0.01	0.2	0.03	0.4	0.21	3	1.4	41	0.29	9	3.9	55	0.06	35.06	26.57	8.22	6.84	0.13
T2-100m	1/25/12	1037	0.07	2.2	0.06	0.9	0.08	1.1	2.4	67	0.38	11.8	4.4	62	0.06	34.04	24.63	8.20	6.71	0.03
T2-100m	4/24/12	1103	0.14	4.3	0.31	4.3	0.13	1.8	2.5	70	0.42	13.1	4.1	58	0.11	35.09	24.82	8.25	6.68	0.27
Geomean	FY '12		1.8		1.7		1.8				12.0		58		0.07					0.10
T2-100m	7/24/12	1025	0.03	0.9	0.28	3.9	0.19	2.6	2.1	58	0.35	10.8	4.7	66	0.05	35.06	26.28	8.24	6.61	0.14
T2-100m	11/27/12	1011	0.07	2.1	0.42	5.9	0.10	1.4	3.8	106	0.45	13.8	5.1	71	0.03	35.18	25.11	8.20	6.83	0.15
T2-100m	1/23/13	1019	0.06	2	0.09	1.3	0.14	1.9	1.2	34	0.45	13.8	5.8	81	0.05	35.12	24.70	8.22	6.30	0.06
T2-100m	4/16/13	1027	0.14	4.2	0.08	1.1	0.18	2.5	0.0	1	0.47	14.5	4.9	68	0.03	35.15	24.92	8.22	6.79	0.05
Geomean	FY '13		2.0		2.4		2.0				13.1		71		0.04					0.09
T2-100m	8/1/13	935	0.02	0.6	0.19	2.7	0.03	0.4	5.2	147	0.67	20.7	6.2	87	0.18	35.18	26.1	8.25	6.67	0.13
T2-100m	10/29/13	1005	0.14	4.2	0.26	3.7	0.49	6.9	2.3	65	0.46	14.3	5.9	83	0.08	35.30	27.0	8.21	6.25	0.17
T2-100m	2/4/14	1014	0.10	3.1	0.33	4.6	0.54	7.6	2.4	67	0.41	12.6	5.9	83	0.02	34.94	25.2	8.21	6.38	0.16
T2-100m	5/6/14	1015	0.08	2.4	0.13	1.8	0.22	3.1	2.4	66	0.41	12.8	5.6	78	0.05	34.81	26.0	8.21	6.08	0.15
Geomean	FY '14		2.1		3.0		2.8				14.8		82		0.06					0.15
T2-100m	8/5/14	1021	0.18	5.5	0.26	3.7	0.41	5.7	2.3	66	0.52	16.2	5.8	81	0.09	34.94	26.8	8.22	5.98	0.15
T2-100m	11/17/14	1156	0.16	4.9	0.09	1.3	0.24	3.3	0.2	5	0.48	14.9	5.5	77	0.08	34.94	27.1	8.21	6.77	0.22
T2-100m	3/3/15	1022	0.10	3.0	0.25	3.5	0.13	1.8	2.3	66	0.33	10.3	7.4	104	0.08	34.84	25.6	8.17	6.79	0.14
T2-100m	6/16/15	1134	0.11	3.3	0.55	7.7	0.23	3.2	3.8	106	0.43	13.3	4.9	69	0.06	34.26	26.5	8.19	6.03	0.19
Geomean	FY '15		4.0		3.4		3.2				13.5		82		0.08					0.17
T2-100m	8/26/15	1119	0.12	3.8	0.21	2.9	0.16	2.2	4.1	115	0.37	11.5	4.7	65	0.04	34.45	28.5	8.22	6.02	0.47
T2-100m	11/17/15	1031	0.16	4.9	0.46	6.4	0.10	1.4	3.9	110	0.50	15.5	5.0	70	0.07	33.97	27.4	8.23	6.23	0.12
T2-100m	3/1/16	1035	0.15	4.7	0.20	2.8	0.42	5.9	0.7	20	0.48	14.8	4.6	65	0.08	34.78	25.4	8.25	5.84	0.15
T2-100m	5/3/16	1004	0.10	3.2	0.16	2.3	0.05	0.7	0.2	7	0.38	11.7	4.2	59	0.07	34.69	25.6	8.24	6.28	0.22
Geomean	FY '16		4.1		3.3		1.9				13.3		65		0.06					0.21
T2-100m	7/6/16	1110	0.08	2.4	0.02	0.3	0.23	3.2	0.0	1	0.47	14.5	5.4	75	0.07	34.60	26.9	8.27	6.55	0.23
T2-100m	12/20/16	1045	0.04	1.2	0.16	2.3	0.16	2.3	1.7	47	0.33	10.3	3.1	43	0.02	34.72	25.6	8.27	5.66	0.14
T2-100m	2/28/17	941	0.02	0.6	0.01	0.1	0.28	3.9	0.2	5	0.29	9.0	4.6	65	0.07	34.70	24.7	8.23	5.75	0.09
T2-100m	5/10/17	937	0.05	1.7	0.08	1.1	0.07	1.0	0.7	21	0.21	6.6	3.3	46	0.07	34.76	25.7	8.21	4.11	0.09
Geomean	FY '17		1.3		0.5		2.3				9.7		56		0.05					0.13

NELHA Water Quality Laboratory

Transect 2, Station 4

7/27/1993 - 7/14/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
T2-100m	9/27/17	1026	0.11	3.3	0.16	2.2	0.15	2.1	1.0	27	0.41	12.7	2.5	35	0.09	34.80	27.8	8.20	4.29	0.18
T2-100m	11/28/17	1128	0.12	3.7	0.35	4.9	0.21	2.9	2.4	69	0.38	11.9	3.1	43	0.07	35.04	26.2	8.20	4.75	0.19
T2-100m	1/30/18	1105	0.12	3.6	0.31	4.4	0.16	2.3	1.9	54	0.37	11.5	2.4	33	0.07	34.88	24.6	8.15	5.33	0.14
T2-100m	5/16/18	1102	0.09	2.7	0.09	1.2	0.11	1.6	3.6	100	0.33	10.1	1.5	21	0.02	34.71	25.6	8.16	5.96	0.10
Geomean	FY '18		3.3		2.7		2.2				11.5		32		0.05					0.15
T2-100m	9/24/18	1037	0.02	0.7	0.16	2.3	0.13	1.8	0.5	14	0.31	9.5	1.9	26	0.08	34.80	27.8	8.17	5.15	0.23
T2-100m	11/13/18	1105	0.03	0.8	0.20	2.8	0.25	3.5	0.2	6	0.34	10.4	3.4	48	0.08	35.03	27.3	8.22	4.39	0.15
T2-100m	1/22/19	1052	0.10	3.1	0.01	0.2	0.03	0.4	0.0	0	0.38	11.7	1.9	27	0.05	35.00	25.1	8.22	5.66	0.18
T2-100m	4/16/19	1057	0.12	3.6	0.05	0.7	0.16	2.2	1.5	42	0.37	11.6	2.4	34	0.04	35.61	25.9	8.15	7.17	0.12
Geomean	FY '19		1.6		1.0		1.5				10.8		33		0.06					0.17
T2-100m	8/13/19	1034	0.01	0.4	0.16	2.3	0.26	3.6	3.3	93	0.29	9.1	2.5	35	0.13	35.58	28.3	8.22	6.45	0.18
T2-100m	8/13/19	1045	0.09	2.9	0.06	0.9	0.39	5.5	0.5	14	0.41	12.6	2.2	31	0.10	35.30	27.5	8.22	6.54	0.14
T2-100m	11/20/19	1026	0.11	3.3	0.16	2.3	0.09	1.3	-0.1	-3	0.39	12.0	2.6	36	0.04	34.92	25.1	8.21	6.68	0.12
T2-100m	1/22/20	1055	0.09	2.9	0.16	2.3	0.09	1.3	1.4	39	0.30	9.4	2.2	31	0.03	35.42	25.8	8.18	6.69	0.39
Geomean	FY '20		1.8		1.8		2.4				10.7		33		0.06					0.19

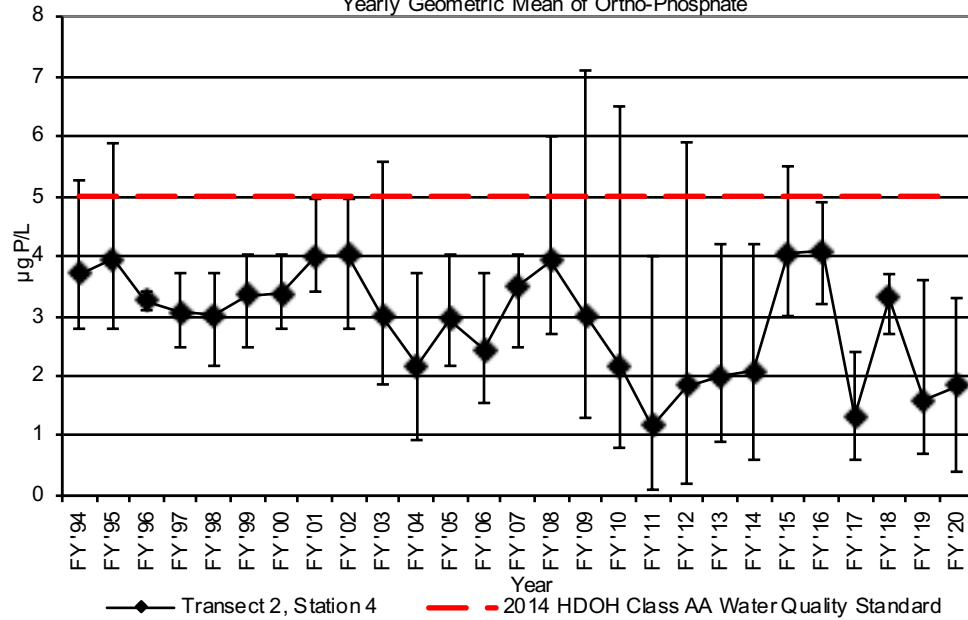
NELHA Water Quality Laboratory

Transect 2, Station 4

7/27/1993 - 7/14/20

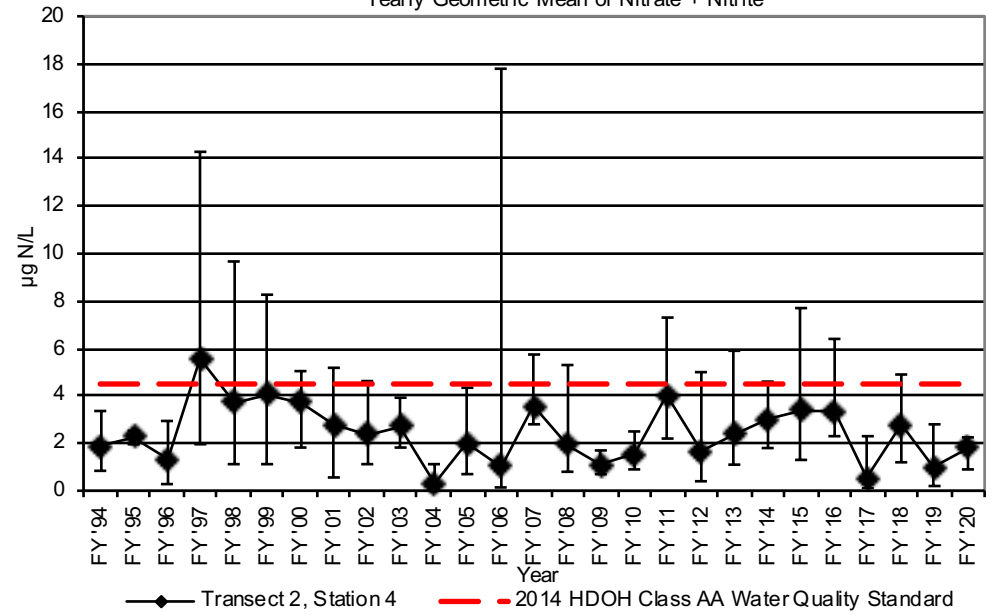
NELHA Offshore Transect 2, Station 4

Yearly Geometric Mean of Ortho-Phosphate



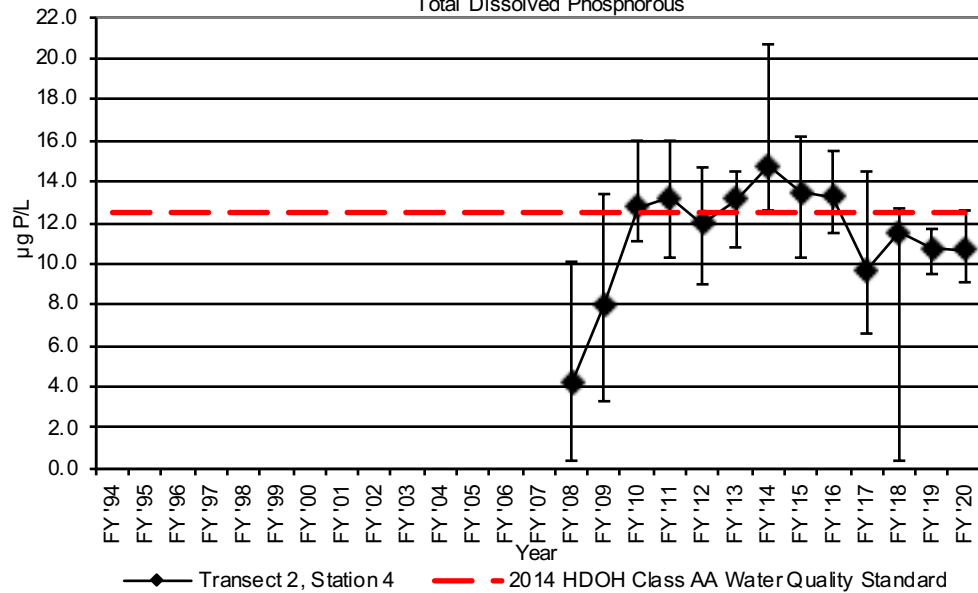
NELHA Offshore Transect 2, Station 4

Yearly Geometric Mean of Nitrate + Nitrite



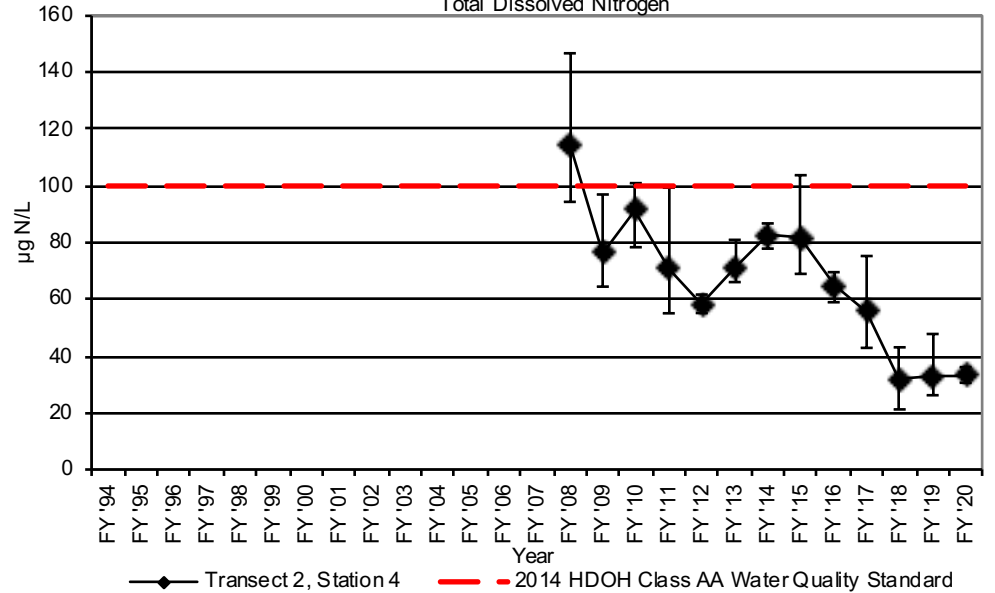
NELHA Offshore Transect 2, Station 4

Yearly Geometric Mean of
Total Dissolved Phosphorous



NELHA Offshore Transect 2, Station 4

Yearly Geometric Mean of
Total Dissolved Nitrogen



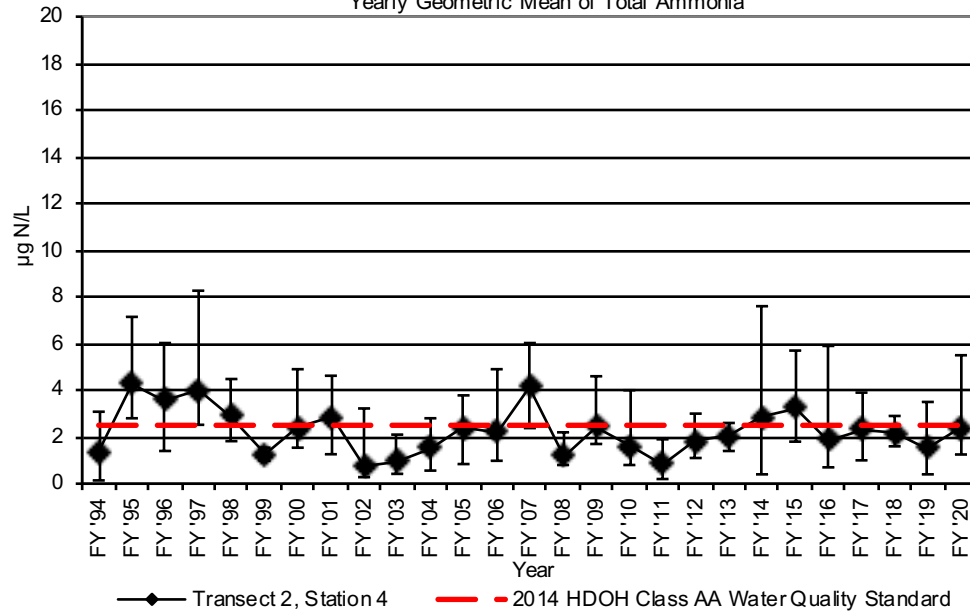
NELHA Water Quality Laboratory

Transect 2, Station 4

7/27/1993 - 7/14/20

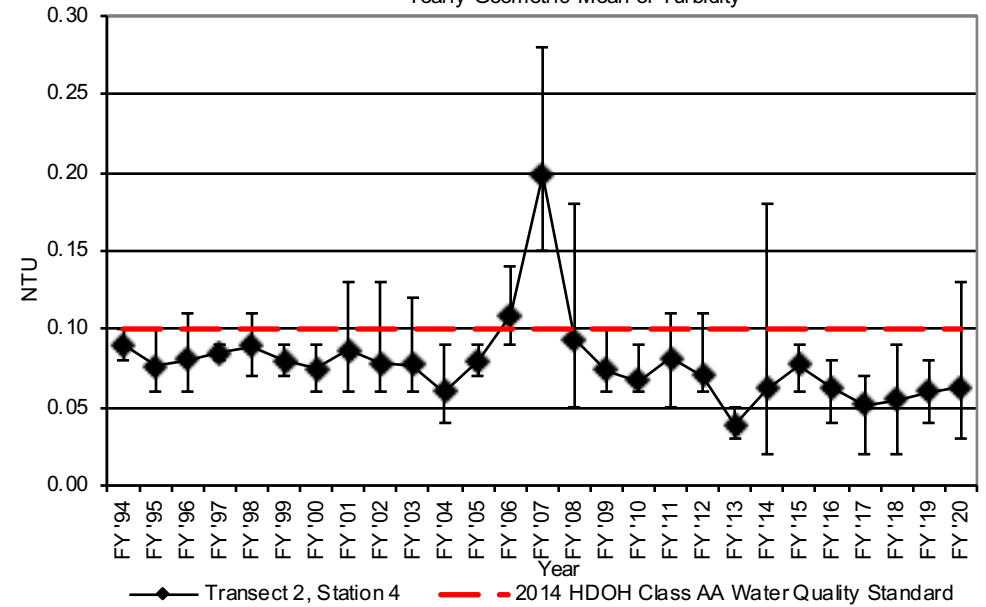
NELHA Offshore Transect 2, Station 4

Yearly Geometric Mean of Total Ammonia



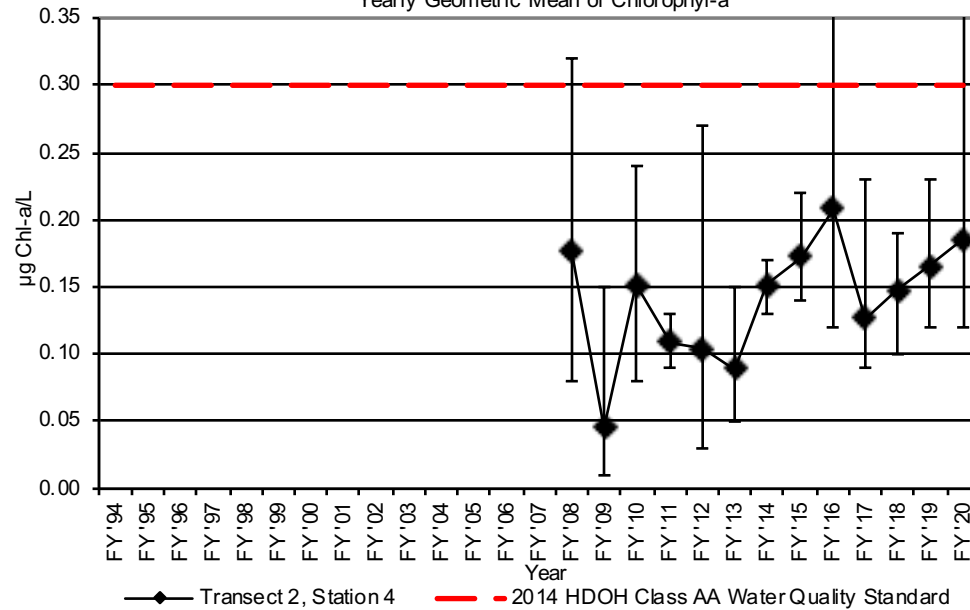
NELHA Offshore Transect 2, Station 4

Yearly Geometric Mean of Turbidity



NELHA Offshore Transect 2, Station 4

Yearly Geometric Mean of Chlorophyll-a



NELHA Water Quality Laboratory

Transect 2, Station 5

7/27/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O2-5S-69m	7/27/93	933	0.08	2.5	0.06	0.8	0.27	3.8	2.4	67					0.08	34.447	26.7			
O2-5S-69m	12/7/93	858	0.09	2.8	0.13	1.8	0.12	1.7	3.9	108					0.07	34.809	25.6			
O2-5S-69m	3/16/94	858	0.16	5.0	0.19	2.7	0.17	2.4	3.9	109					0.09	34.490	24.6			
O2-5S-69m	6/14/94	842	0.09	2.8	0.16	2.2	0.25	3.5	2.8	78					0.08	34.582	25.2			
Geomean '93-'94			3.1		1.7		2.7								0.08					
O2-5S-69m	9/8/94	1012	0.09	2.8	0.16	2.2	0.25	3.5	2.8	78					0.07	34.611	27.6			
O2-5S-69m	11/16/94	809	0.14	4.3	0.17	2.4	0.52	7.3	2.9	81					0.07	34.590	26.0			
O2-5S-69m	3/21/95	950	0.19	5.9	0.02	0.3	0.11	1.5	4.4	123					0.09	34.238	25.1			
O2-5S-69m	6/26/95	815	0.11	3.4	0.16	2.2	0.48	6.7	1.9	53					0.06	34.560	26.5			
Geomean '94-'95			3.9		1.4		4.0								0.07					
O2-5S-69m	9/25/95	1102	0.10	3.1	0.15	2.1	0.17	2.4	3.9	108					0.08	34.511	27.2			
O2-5S-69m	11/13/95	949	0.12	3.7	0.18	2.5	0.43	6.0	2.0	56					0.06	34.385	26.8			
O2-5S-69m	3/11/96	1040	0.11	3.4	0.18	2.5	0.41	5.7	2.2	62					0.07	34.254	25.1			
O2-5S-69m	5/13/96	945	0.08	2.5	0.07	1.0	0.23	3.2	1.5	42					0.04	34.323	26.9			
Geomean '95-'96			3.1		1.9		4.0								0.06					
O2-5S-69m	7/30/96	930	0.09	2.8	0.51	7.1	0.17	2.4	3.0	85					0.08	34.472	27.9			
O2-5S-69m	10/1/96	1019	0.07	2.2	0.12	1.7	0.61	8.5	1.9	52					0.08	34.724	27.8			
O2-5S-69m	1/6/97	1046	0.09	2.8	0.20	2.8	0.18	2.5	3.1	87					0.12	34.680	25.7			
O2-5S-69m	4/21/97	1027	0.10	3.1	0.72	10.1	0.21	2.9	3.0	85					0.09	34.523	26.3			
Geomean '96-'97			2.7		4.3		3.5								0.09					
O2-5S-69m	8/18/97	1018	0.11	3.4	0.61	8.5	0.21	2.9	8.3	234					0.10	34.491	26.9			
O2-5S-69m	10/6/97	1046	0.08	2.5	0.09	1.3	0.37	5.2	4.3	120					0.07	34.723	27.5			
O2-5S-69m	3/3/98	1018	0.07	2.2	0.15	2.1	0.21	2.9	3.5	99					0.08	34.997	24.9			
O2-5S-69m	5/4/98	949	0.13	4.0	0.97	13.6	0.13	1.8	8.8	248					0.10	34.864	23.8			
Geomean '97-'98			2.9		4.2		3.0								0.09					
O2-5S-69m	7/6/98	1047	0.13	4.0	0.65	9.1	0.14	2.0	6.4	180					0.09	34.941	26.2			
O2-5S-69m	10/5/98	1022	0.07	2.2	0.01	0.1	0.08	1.1	2.9	83					0.07	35.126	27.5			
O2-5S-69m	1/13/99	1035	0.06	1.9	0.08	1.1	0.01	0.1	2.5	71					0.06	35.097	25.0			
O2-5S-69m	4/12/99	1013	0.13	4.0	0.37	5.2	0.10	1.4	5.2	145					0.07	34.641	24.1			
Geomean '98-'99			2.8		1.6		0.8								0.07					

NELHA Water Quality Laboratory

Transect 2, Station 5

7/27/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O2-5S-69m	7/6/99	1027	0.09	2.8	0.08	1.1	0.06	0.8	2.5	69					0.11	34.969	25.8			
O2-5S-69m	10/4/99	1106	0.13	4.0	0.31	4.3	0.14	2.0	4.8	134					0.14	34.926	26.0			
O2-5S-69m	1/4/00	1052	0.10	3.1	0.58	8.1	0.35	4.9	3.9	109					0.08	35.079	24.9			
O2-5S-69m	4/17/00	1042	0.14	4.3	0.11	1.5	0.01	0.1	10.3	289					0.05	34.647	24.3			
Geomean '99-'00			3.5		2.8		1.0								0.09					
O2-5S-69m	7/24/00	1100	0.10	3.1	0.27	3.8	0.06	0.8	3.1	86					0.07	34.958	27.3			
O2-5S-69m	10/30/00	1110	0.12	3.7	0.03	0.4	0.32	4.5	3.6	100					0.06	34.964	27.0			
O2-5S-69m	2/26/01	1106	0.15	4.6	0.13	1.8	0.20	2.8	6.7	189					0.10	34.731	24.8			
O2-5S-69m	5/7/01	1114	0.13	4.0	0.27	3.8	0.33	4.6	7.9	221					0.09	34.847	24.6			
Geomean '00-'01			3.8		1.8		2.6								0.08					
O2-5S-69m	8/21/01	1008	0.11	3.4	0.29	4.1	0.02	0.3	4.0	112					0.10	34.780	26.7			
O2-5S-69m	10/8/01	1030	0.12	3.7	0.09	1.3	0.05	0.7	2.7	74					0.09	34.950	27.4			
O2-5S-69m	3/5/02	944	0.14	4.3	0.20	2.8	0.02	0.3	2.8	80					0.11	34.702	24.1			
O2-5S-69m	4/17/02	951	0.14	4.3	0.04	0.6	0.24	3.4	3.6	101					0.11	34.478	25.4			
Geomean '01-'02			3.9		1.7		0.7								0.10					
O2-5S-69m	7/8/02	1108	0.14	4.3	0.03	0.4	0.08	1.1	14.3	400					0.06	34.653	26.6			
O2-5S-69m	10/9/02	942	0.05	1.5	0.08	1.1	0.09	1.3	2.1	60					0.09	34.955	27.1			
O2-5S-69m	3/12/03	1101	0.13	4.0	0.26	3.6	0.07	1.0	2.3	65					0.07	34.774	25.2			
O2-5S-69m	4/22/03	1104	0.08	2.5	0.39	5.5	0.04	0.6	2.7	75					0.07	35.016	25.2			
Geomean '02-'03			2.9		1.7		0.9								0.07					
O2-5S-69m	8/18/03	1200	0.06	1.9	0.09	1.3	0.20	2.8	2.3	64					0.04	34.834	28.2			
O2-5S-69m	10/29/03	1111	0.04	1.2	0.04	0.6	0.10	1.4	2.6	73					0.09	34.83	27.6			
O2-5S-69m	3/11/04	956	0.12	3.7	0.02	0.3	0.04	0.6	1.6	45					n/a	34.356	25.7			
O2-5S-69m	5/20/04	1045	0.10	3.1	0.01	0.1	0.19	2.7	1.3	37					n/a	33.60	27.0			
Geomean '03-'04			2.3		0.4		1.6								0.06					
O2-5S-69m	9/20/04	947	0.08	2.5	0.01	0.1	0.21	2.9	2.2	61					0.07	33.87	27.7			
O2-5S-69m	11/17/04	919	0.08	2.5	0.01	0.1	0.19	2.7	1.8	52					0.07	33.59	26.7			
O2-5S-69m	1/13/05	1041	0.04	1.2	0.10	1.4	0.06	0.8	2.3	63					0.07	34.860	24.6			
O2-5S-69m	4/11/05	1041	0.10	3.1	0.26	3.6	0.20	2.8	3.6	101					0.07	34.487	25.2			
Geomean '04-'05			2.2		0.6		2.1								0.07					

NELHA Water Quality Laboratory

Transect 2, Station 5

7/27/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O2-5S-69m	7/20/05	1028	0.05	1.5	0.01	0.1	0.16	2.2	1.3	36					0.11	34.742	26.8			
O2-5S-69m	10/11/05	913	0.05	1.5	0.01	0.1	0.19	2.7	3.7	105					0.09	34.950	26.6			
O2-5S-69m	3/13/06	1020	0.09	2.8	0.01	0.1	0.25	3.5	4.3	120					0.08	34.836	24.6			
O2-5S-69m	5/15/06	958	0.26	8.1	0.94	13.2	0.05	0.7	10.6	297					0.15	34.845	24.9			
Geomean	'05-'06		2.7		0.4		2.0								0.10					
O2-5S-69m	8/14/06	950	0.13	4.0	0.30	4.2	0.22	3.1	2.6	74					0.11	34.464	26.5			
O2-5S-69m	11/1/06	1000	0.08	2.5	0.17	2.4	0.39	5.5	2.1	59					0.27	34.841	27.1			
O2-5S-69m	2/12/07	1021	0.12	3.7	0.09	1.3	0.35	4.9	1.9	54					0.71	34.560	24.5			
O2-5S-69m	4/9/07	951	0.16	5.0	0.19	2.7	0.31	4.3	3.6	101					0.33	34.684	25.3			
Geomean	'06-'07		3.7		2.4		4.4								0.29					
T2-500m	9/26/07	1022	0.14	4.3	0.07	1.0	0.06	0.8	2.4	69	0.38	11.9	5.0	70	0.06	34.986	26.9	8.20	6.31	0.05
T2-500m	12/13/07	1136	0.10	3.2	0.04	0.6			12.5	350	0.38	11.8	6.1	85	0.11	34.718	25.8	8.23	6.23	0.43
T2-500m	3/10/08	1031	0.18	5.6	0.05	0.7	0.06	0.8	13.1	368	0.46	14.4	8.5	120	0.19	34.921	25.8	8.24	6.58	0.27
T2-500m	6/5/08	1025	0.08	2.6	0.13	1.8	0.16	2.2	18.2	510	0.23	7.2	7.9	110	0.06	34.8198	25.2	8.07	6.51	0.17
Geomean	'07-'08		3.8		0.9		1.1				11.0		94		0.09					0.18
T2-500m	9/22/08	1132	0.03	1	0.04	0.5	0.08	1.1	1.5	43	0.27	8.4	4.5	63	0.08	34.860	27.1	8.04	6.33	0.02
T2-500m	11/17/08	1013	0.14	4.4	0.04	0.5	0.14	1.9	1.6	46	0.35	10.7	4.4	61	0.07	34.988	26.1	8.27	5.76	0.02
T2-500m	2/9/09	1019	0.06	1.9	0.10	1.4	0.12	1.7	3.5	99	0.25	7.6	6.9	97	0.06	35.100	24.9	8.06	6.13	0.01
T2-500m	4/13/09	1004	0.20	6.3	0.04	0.6	0.28	3.9	3.3	93	0.44	13.5	4.4	61	0.10	34.997	24.0	8.19	5.96	0.04
Geomean	'08-'09		2.7		0.7		1.9				9.8		69		0.08					0.02
T2-500m	9/9/09	1016	0.15	4.7	0.07	1	0.06	0.9	5.0	141	0.55	17.1	6.7	94	0.06	35.23	26.7	8.19	5.46	0.3
T2-500m	11/23/09	1028	0.03	0.8	0.05	0.7	0.03	0.4	10.0	281	0.37	11.6	4.3	60	0.09	35.22	25.4	8.25	6.21	0.11
T2-500m	2/23/10	1032	0.14	4.4	0.04	0.6	0.34	4.7	12.0	336	0.36	11.1	5.0	70	0.05	35.11	24.6	8.19	6.01	0.32
T2-500m	5/25/10	1047	0.01	0.4	0.03	0.4	0.01	0.2	8.3	234	0.53	16.4	6.7	94	0.08	35.01	25.2	8.22	6.92	0.06
Geomean	'09-'10		1.6		0.6		0.8				13.8		78		0.07					0.16
T2-500m	8/10/10	1032	0.02	0.5	0.06	0.8	0.05	0.7	1.2	32	0.55	17.1	6.7	94	0.03	34.91	26.31	8.24	6.45	0.04
T2-500m	11/8/10	1015	0.00	0.1	0.04	0.5	0.18	2.5	1.8	50	0.31	9.5	5.0	70	0.11	35.27	26.36	8.25	6.18	0.06
T2-500m	1/11/11	1030	0.11	3.4	0.01	0.1	0.09	1.3	4.0	113	0.42	13.1	3.0	43	0.04	35.01	25.03	8.23	6.38	0.11
T2-500m	4/26/11	1031	0.08	2.6	0.06	0.8	0.15	2.1	20.7	582	0.48	14.8	3.2	45	0.08	34.98	25.05	8.22	6.48	0.12
Geomean	'10-'11		0.8		0.4		1.5				13.3		60		0.06					0.08

NELHA Water Quality Laboratory

Transect 2, Station 5

7/27/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
T2-500m	7/26/11	1103	0.18	5.5	0.03	0.4	0.04	0.5	0.5	15	0.46	14.3	3.4	47	0.10	34.86	26.20	8.26	6.44	0.28
T2-500m	10/18/11	1019	0.01	0.2	0.04	0.6	0.12	1.7	2.2	62	0.30	9.4	4.6	64	0.08	35.05	26.63	8.23	6.79	0.10
T2-500m	1/25/12	1045	0.06	2	0.04	0.5	0.04	0.5	1.8	52	0.37	11.6	3.9	54	0.05	35.04	24.80	8.21	6.72	0.09
T2-500m	4/24/12	1110	0.13	4	0.21	3	0.14	2	3.3	92	0.41	12.8	3.5	50	0.13	34.14	24.89	8.21	6.65	0.29
Geomean '11-'12			1.7		0.8		1.0				11.9		53		0.08					0.16
T2-500m	7/24/12	1032	0.02	0.5	0.21	3	0.25	3.5	1.7	49	0.34	10.4	4.9	68	0.09	35.06	26.46	8.25	6.76	0.14
T2-500m	11/27/12	1018	0.06	2	0.13	1.8	0.24	3.4	2.3	64	0.56	17.4	5.7	80	0.05	35.21	25.11	8.20	6.88	0.10
T2-500m	1/23/13	1027	0.06	1.9	0.06	0.9	0.21	2.9	1.3	36	0.38	11.8	5.1	71	0.02	35.12	24.70	8.22	6.34	0.18
T2-500m	4/16/13	1034	0.13	4	0.10	1.4	0.22	3.1	0.6	18	0.46	14.3	6.2	88	0.07	35.13	24.89	8.21	6.75	0.06
Geomean '12-'13			1.7		1.6		3.2				13.2		77		0.05					0.11
T2-500m	8/1/13	943	0.02	0.6	0.11	1.6	0.01	0.2	5.3	149	0.42	13.0	3.9	55	0.06	35.18	26.2	8.25	6.66	0.12
T2-500m	10/29/13	1010	0.13	4.1	0.25	3.5	1.39	19.4	2.9	80	0.47	14.7	6.7	94	0.03	35.27	27.0	8.20	6.32	0.23
T2-500m	2/4/14	1020	0.08	2.5	0.12	1.7	0.58	8.1	2.0	56	0.37	11.6	4.3	60	0.02	34.99	25.2	8.20	6.29	0.17
T2-500m	5/6/14	1023	0.07	2.3	0.01	0.1	0.26	3.6	1.6	45	0.42	12.9	5.3	74	0.06	34.83	26.1	8.22	5.98	0.15
Geomean FY '14			1.9		1.0		3.0				13.0		69		0.04					0.16
T2-500m	8/5/14	1025	0.17	5.3	0.06	0.9	0.26	3.6	1.3	36	0.48	15.0	4.7	66	0.10	34.96	26.6	8.22	5.97	0.10
T2-500m	11/17/14	1201	0.16	4.9	0.05	0.7	0.23	3.2	0.1	2	0.46	14.4	6.2	87	0.11	34.96	27.1	8.22	6.66	0.22
T2-500m	3/3/15	1030	0.06	2.0	0.10	1.4	0.09	1.3	0.9	27	0.17	5.4	7.0	99	0.07	34.85	25.6	8.18	6.95	0.14
T2-500m	6/16/15	1145	0.08	2.5	0.26	3.7	0.29	4.1	1.9	55	0.45	13.9	5.1	71	0.04	34.30	26.5	8.20	5.93	0.21
Geomean FY '15			3.4		1.3		2.8				11.3		80		0.07					0.16
T2-500m	8/26/15	1127	0.13	3.9	0.01	0.1	0.18	2.5	1.0	28	0.23	7.2	4.8	67	0.02	34.56	28.7	8.23	6.01	0.08
T2-500m	11/17/15	1040	0.13	4.0	0.44	6.2	0.14	1.9	2.9	82	0.53	16.3	7.2	102	0.10	34.00	27.4	8.23	6.21	0.15
T2-500m	3/1/16	1042	0.14	4.4	0.20	2.8	0.28	3.9	0.1	2	0.46	14.1	4.0	57	0.08	34.76	25.5	8.24	5.70	0.08
T2-500m	5/3/16	1011	0.10	3.1	0.14	1.9	0.06	0.9	0.0	1	0.28	8.7	4.6	64	0.06	34.69	25.7	8.24	6.36	0.26
Geomean FY '16			3.8		1.3		2.0				11.0		70		0.06					0.13
T2-500m	7/6/16	1122	0.07	2.3	0.27	3.8	0.25	3.5	0.3	7	0.54	16.7	4.1	57	0.11	34.60	27.2	8.28	6.49	0.31
T2-500m	12/20/16	1054	0.04	1.3	0.10	1.4	0.16	2.2	1.7	48	0.33	10.2	2.2	31	0.05	34.71	25.6	8.26	5.61	0.10
T2-500m	2/28/17	951	0.02	0.6	0.01	0.2	0.36	5.1	0.1	4	0.28	8.7	3.7	52	0.07	34.68	24.7	8.23	5.72	0.08
T2-500m	5/10/17	944	0.07	2.1	0.01	0.2	0.16	2.2	0.0	0	0.19	6.0	2.1	29	0.07	34.78	25.8	8.20	4.14	0.04
Geomean FY '17			1.4		0.7		3.0				9.7		40		0.07					0.10

NELHA Water Quality Laboratory

Transect 2, Station 5

7/27/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (μM) (μg P/L)		TDN (μM) (μg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (μg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
T2-500m	9/27/17	1036	0.09	2.9	0.11	1.5	0.11	1.6	0.5	14	0.42	13.1	2.5	36	0.08	34.81	27.8	8.21	4.25	0.17
T2-500m	11/28/17	1136	0.10	3.0	0.31	4.4	0.25	3.5	2.2	61	0.36	11.1	2.5	35	0.07	35.05	26.2	8.20	4.75	0.18
T2-500m	1/30/18	1116	0.07	2.2	0.13	1.8	0.06	0.8	1.2	34	0.32	10.0	1.9	27	0.08	34.88	24.6	8.17	5.22	0.20
T2-500m	5/16/18	1109	0.05	1.7	0.08	1.1	0.07	1.0	1.3	37	0.35	10.9	2.3	33	0.02	34.79	25.7	8.17	5.92	0.10
Geomean	FY '18		2.4		1.9		1.5				11.2		32		0.05					0.16
T2-500m	9/24/18	1047	0.01	0.4	0.16	2.3	0.19	2.7	0.5	14	0.29	9.0	1.4	20	0.09	34.80	27.9	8.16	5.03	0.17
T2-500m	11/13/18	1112	0.07	2.1	0.12	1.7	0.18	2.5	2.1	59	0.32	9.9	2.1	30	0.06	35.01	27.4	8.22	4.62	0.14
T2-500m	1/22/19	1100	0.09	2.8	0.04	0.5	0.08	1.1	0.7	20	0.37	11.5	1.1	16	0.07	34.96	25.0	8.22	5.64	0.11
T2-500m	4/16/19	1105	0.13	4.0	0.32	4.5	0.03	0.4	4.7	132	0.38	11.8	1.7	23	0.04	35.50	26.0	8.14	7.06	0.16
Geomean	FY '19		1.8		1.7		1.3				10.5		22		0.06					0.14
T2-500m	8/13/19	1043	0.02	0.5	0.16	2.3	0.26	3.7	1.9	55	0.26	8.0	1.8	26	0.08	35.66	28.3	8.21	6.51	0.12
T2-500m	11/20/19	1053	0.09	2.7	0.05	0.7	0.09	1.3	0.6	17	0.44	13.5	2.8	39	0.05	35.25	27.6	8.22	6.50	0.16
T2-500m	1/22/20	1036	0.11	3.3	0.16	2.3	0.09	1.3	1.2	35	0.36	11.3	2.1	29	0.06	34.94	25.0	8.22	6.52	0.14
T2-500m	6/24/20	1104	0.07	2.3	0.16	2.3	0.09	1.3	0.4	12	0.22	6.9	0.9	13	0.05	35.49	25.8	8.17	6.71	0.22
Geomean	FY '20		1.8		1.7		1.6				9.6		25		0.06					0.16

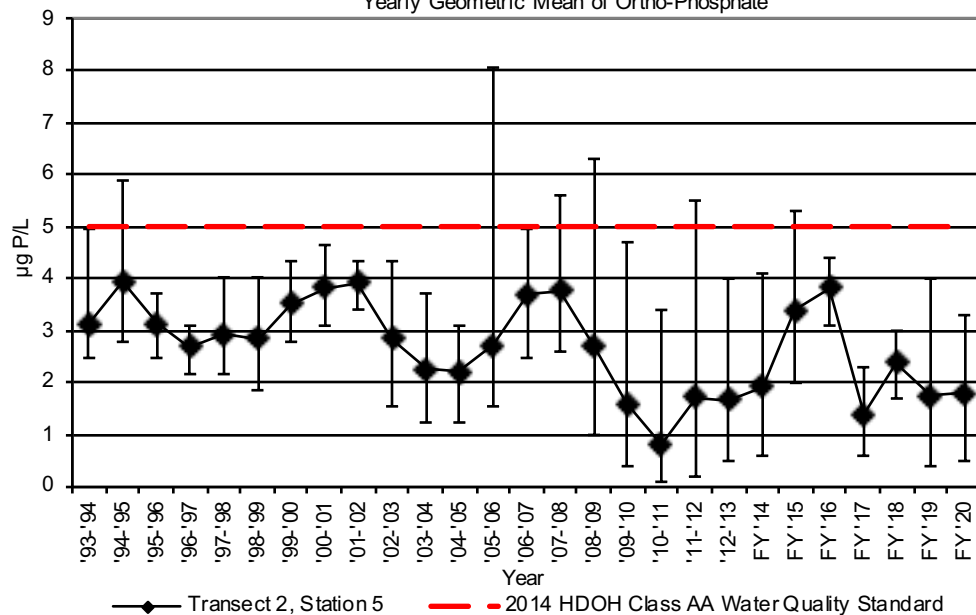
NELHA Water Quality Laboratory

Transect 2, Station 5

7/27/1993 - 7/16/20

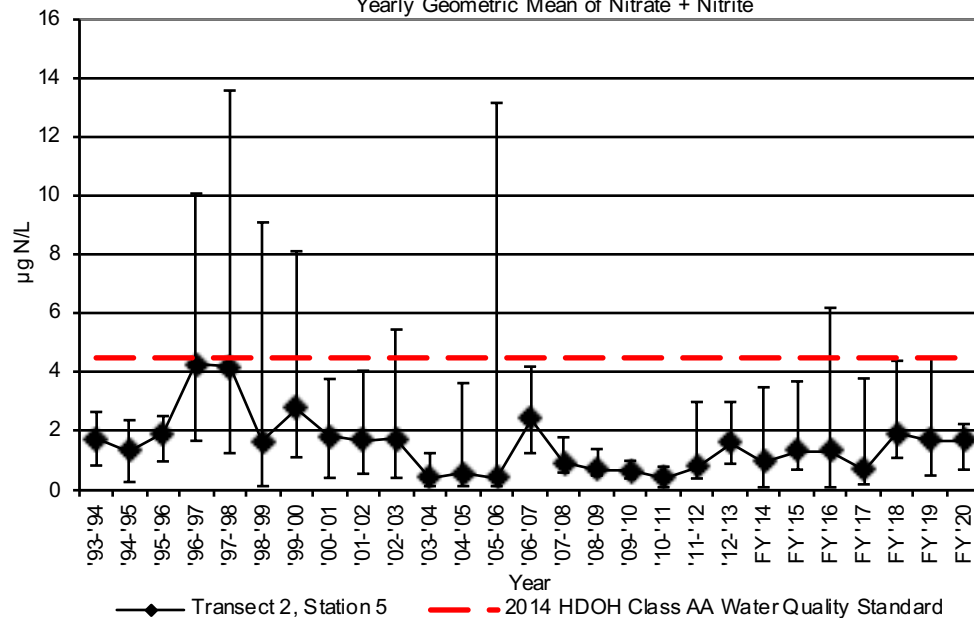
NELHA Offshore Transect 2, Station 5

Yearly Geometric Mean of Ortho-Phosphate



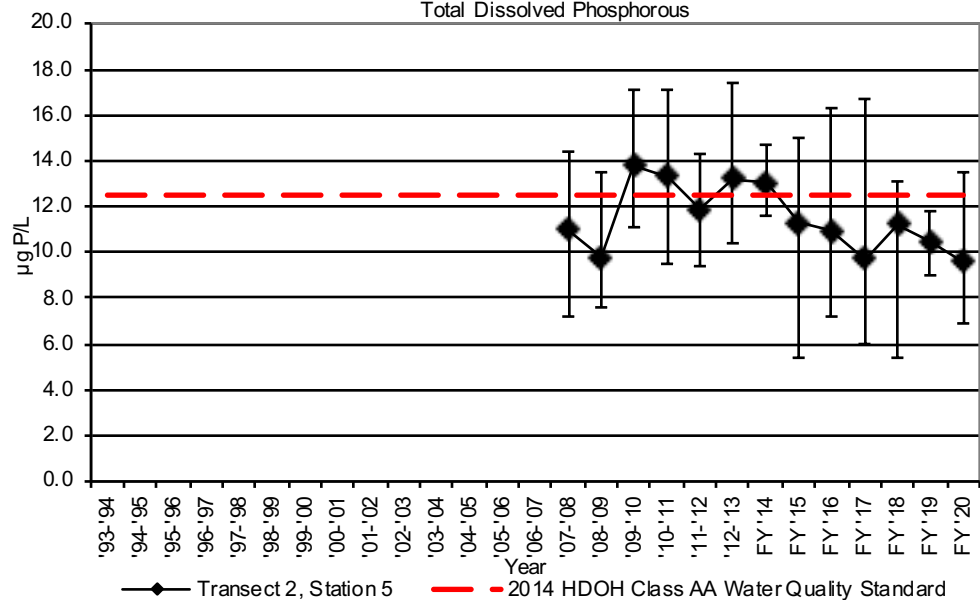
NELHA Offshore Transect 2, Station 5

Yearly Geometric Mean of Nitrate + Nitrite



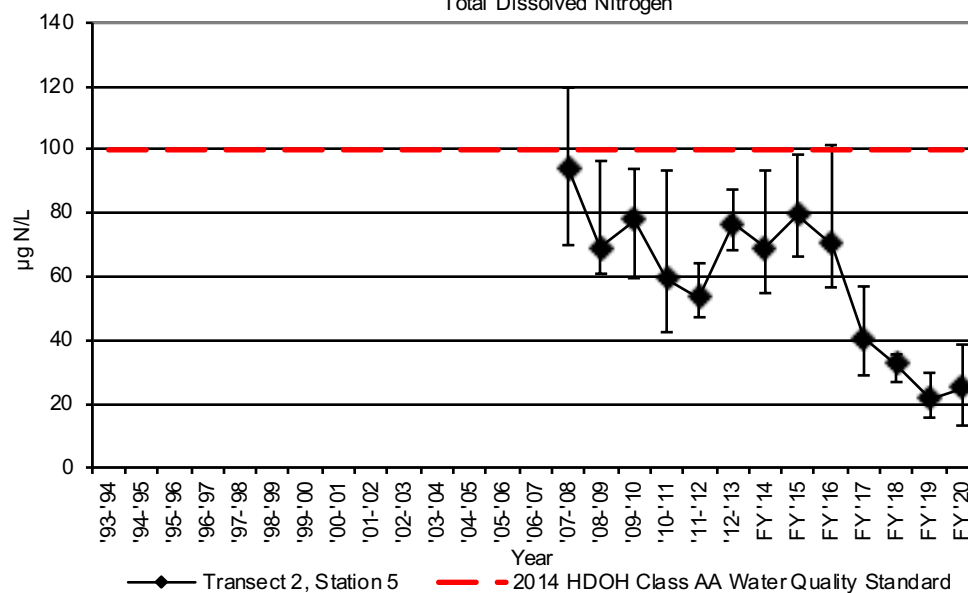
NELHA Offshore Transect 2, Station 5

Yearly Geometric Mean of
Total Dissolved Phosphorous



NELHA Offshore Transect 2, Station 5

Yearly Geometric Mean of
Total Dissolved Nitrogen



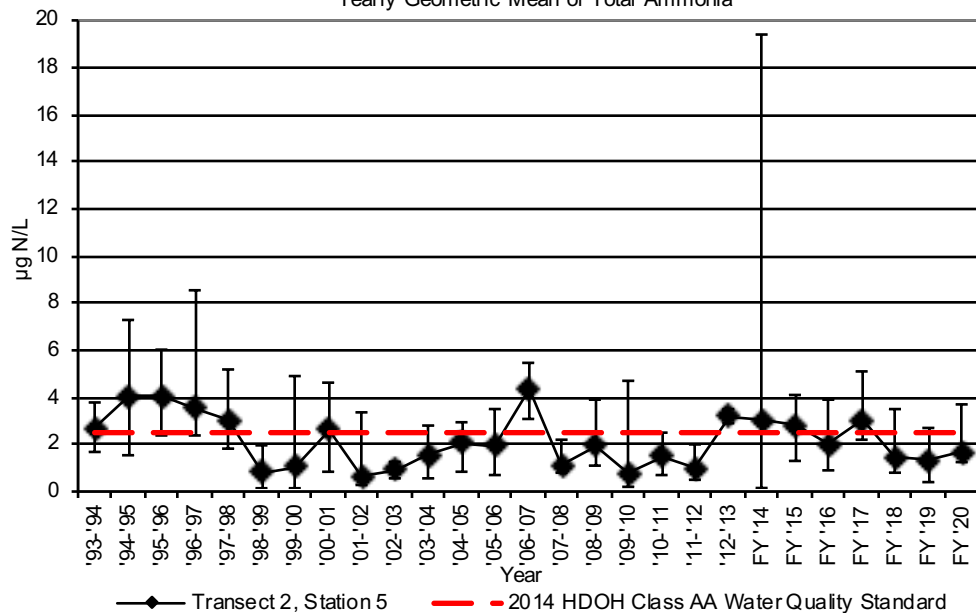
NELHA Water Quality Laboratory

Transect 2, Station 5

7/27/1993 - 7/16/20

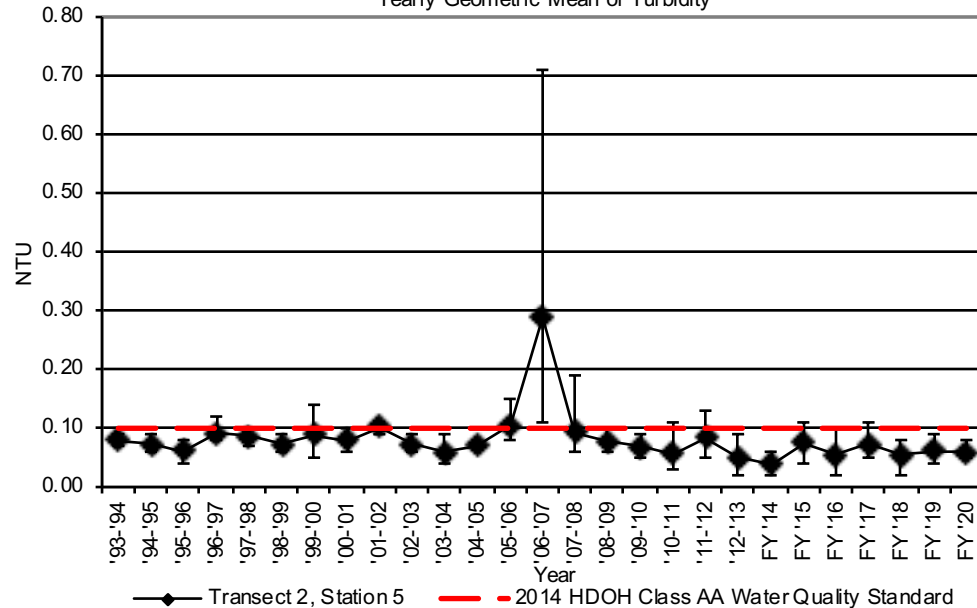
NELHA Offshore Transect 2, Station 5

Yearly Geometric Mean of Total Ammonia



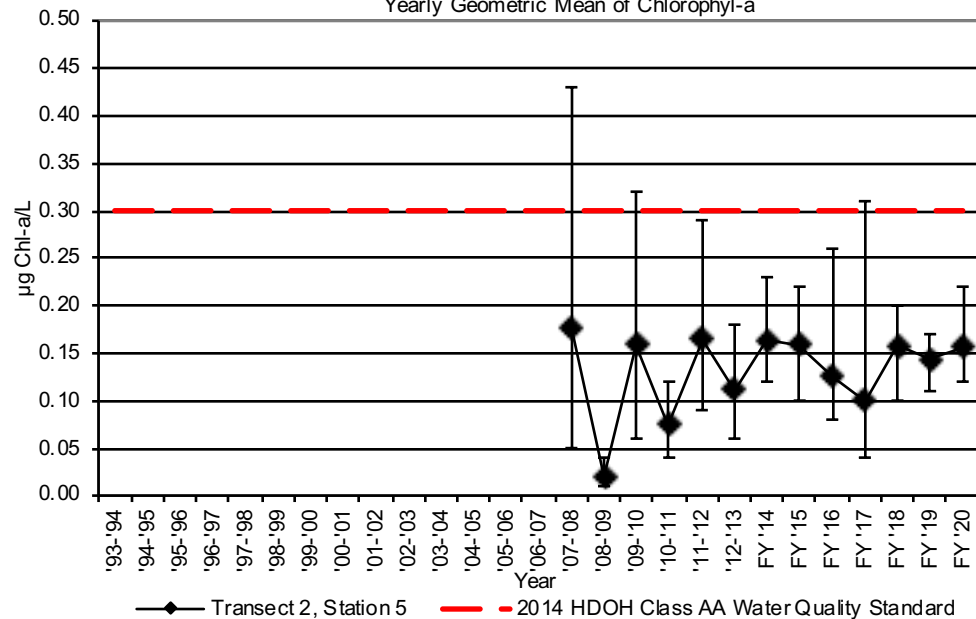
NELHA Offshore Transect 2, Station 5

Yearly Geometric Mean of Turbidity



NELHA Offshore Transect 2, Station 5

Yearly Geometric Mean of Chlorophyll-a



NELHA Water Quality Laboratory

Transect 3

July 2018 - June 2019

SITE ID	DATE	TIME	Tide		PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		Turbidity	Salinity	Temp.	pH	DO	Chl a
	M/D/Y	(2400)	(ft)	(cycle)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg N/L)	(μM)	(μg Si/L)	(μM)	(μg P/L)	(μM)	(μg N/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(μg/L)
DOH LIMIT					0.16	5	0.32	4.5	0.18	2.5			0.40	12.5	7.1	100	0.10					0.30
T3-1m	9/24/18	1058	0.5	Flood	0.07	2.3	0.16	2.3	0.21	3.0	0.6	17	0.33	10.3	2.7	38	0.09	34.77	27.7	8.16	5.30	0.14
T3-1m	11/13/18	1126	1.3	Ebb	0.05	1.4	0.42	5.9	0.39	5.5	0.6	17	0.40	12.4	3.7	52	0.11	35.00	27.4	8.23	4.71	0.12
T3-1m	1/22/19	1111	0.2	Low	0.11	3.4	0.25	3.5	0.06	0.9	1.0	29	0.41	12.7	2.5	34	0.07	35.02	25.1	8.22	5.84	0.22
T3-1m	4/16/19	1115	0.8	Flood	0.15	4.5	0.26	3.6	0.10	1.4	2.0	55	0.40	12.5	2.7	38	0.07	35.59	25.9	8.17	7.59	0.17
Geomean FY '19					0.09	2.6	0.26	3.6	0.2	2.1			0.4	11.9	2.9	40	0.08					0.14
T3-10m	9/24/18	1107	0.5	Flood	0.06	2.0	0.16	2.3	0.27	3.8	0.5	13	0.33	10.3	2.7	38	0.09	34.79	27.7	8.16	5.24	0.14
T3-10m	11/13/18	1130	1.3	Ebb	0.05	1.4	0.34	4.7	0.35	4.9	0.3	9	0.37	11.4	3.5	49	0.07	35.00	27.4	8.23	4.73	0.12
T3-10m	1/22/19	1114	0.2	Low	0.10	3.1	0.11	1.6	0.06	0.9	0.6	16	0.37	11.6	2.3	33	0.06	35.03	25.2	8.22	5.70	0.17
T3-10m	4/16/19	1121	0.8	Flood	0.14	4.2	0.21	3.0	0.06	0.8	1.9	55	0.38	11.9	3.0	42	0.05	35.60	25.9	8.17	7.49	0.17
Geomean FY '19					0.08	2.5	0.19	2.7	0.14	1.9			0.36	11.3	2.9	40	0.07					0.15
T3-50m	9/24/18	1115	0.5	Flood	0.04	1.3	0.18	2.5	0.32	4.5	0.1	3	0.48	14.9	1.9	27	0.07	34.81	27.9	8.16	5.07	0.13
T3-50m	11/13/18	1135	1.3	Ebb	0.05	1.4	0.30	4.2	0.24	3.3	0.2	4	0.32	9.9	3.2	45	0.07	34.99	27.6	8.24	4.71	0.10
T3-50m	1/22/19	1119	0.2	Low	0.10	3.0	0.06	0.8	0.09	1.3	0.1	2	0.38	11.9	2.5	35	0.05	35.02	25.2	8.22	5.70	0.14
T3-50m	4/16/19	1127	0.8	Flood	0.14	4.3	0.36	5.1	0.09	1.2	3.3	93	0.38	11.7	3.0	43	0.06	35.54	26.0	8.16	7.33	0.17
Geomean FY '19					0.07	2.2	0.18	2.6	0.16	2.2			0.39	12.0	2.6	36	0.06					0.13
T3-100m	9/24/18	1119	0.5	Flood	0.01	0.2	0.16	2.3	0.24	3.3	0.0	1	0.33	10.1	2.0	27	0.09	34.82	28.2	8.16	5.33	0.21
T3-100m	11/13/18	1139	1.3	Ebb	0.03	0.8	0.14	1.9	0.19	2.7	0.0	1	0.32	9.8	2.8	39	0.08	34.99	27.6	8.24	4.73	0.09
T3-100m	1/22/19	1124	0.2	Low	0.08	2.6	0.04	0.5	0.21	2.9	0.1	3	0.36	11.3	2.3	33	0.06	35.02	25.2	8.21	5.64	0.14
T3-100m	4/16/19	1133	0.8	Flood	0.15	4.5	0.53	7.4	0.11	1.5	4.8	134	0.40	12.4	2.8	40	0.07	35.52	26.0	8.16	7.21	0.21
Geomean FY '19					0.04	1.2	0.14	2.0	0.18	2.5			0.35	10.9	2.4	34	0.07					0.15
T3-500m	9/24/18	1128	0.5	Flood	0.04	1.2	0.16	2.3	0.19	2.7	0.0	1	0.34	10.4	2.73	38	0.07	34.82	27.8	8.16	5.10	0.15
T3-500m	11/13/18	1147	1.3	Ebb	0.04	1.2	0.09	1.3	0.12	1.7	0.0	1	0.33	10.3	4.53	64	0.06	35.01	27.7	8.24	4.55	0.06
T3-500m	1/22/19	1133	0.2	Low	0.09	2.7	0.07	1.0	0.06	0.8	0.1	3	0.36	11.1	2.14	30	0.06	34.99	25.1	8.22	5.65	0.08
T3-500m	4/16/19	1141	0.8	Flood	0.10	3.2	0.03	0.4	0.14	2.0	1.7	49	0.36	11.3	2.01	28	0.03	35.59	26.1	8.17	7.08	0.15
Geomean FY '19					0.06	1.9	0.07	1.0	0.12	1.6			0.35	10.8	2.7	38	0.05					0.10

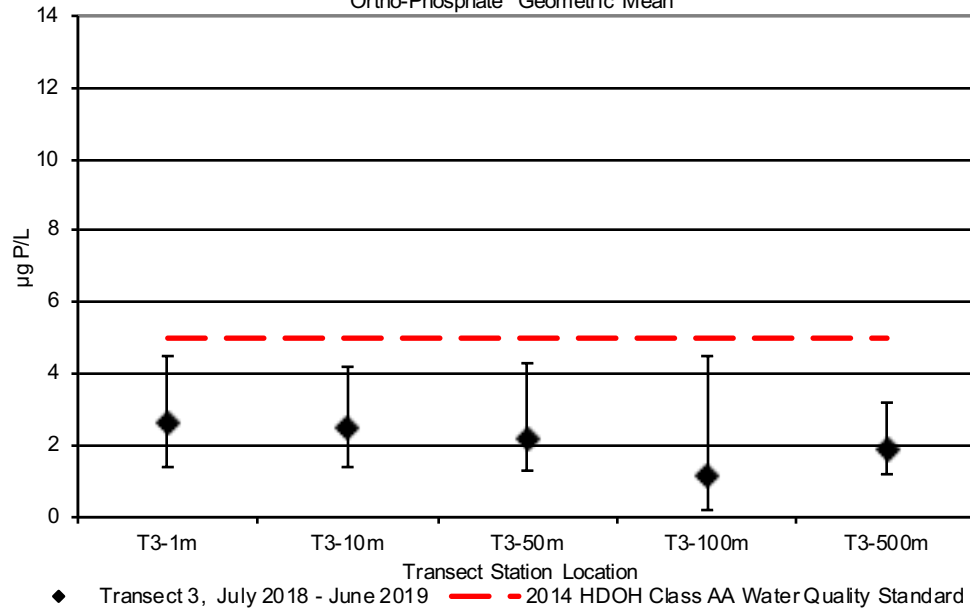
NELHA Water Quality Laboratory

Transect 3

July 2018 - June 2019

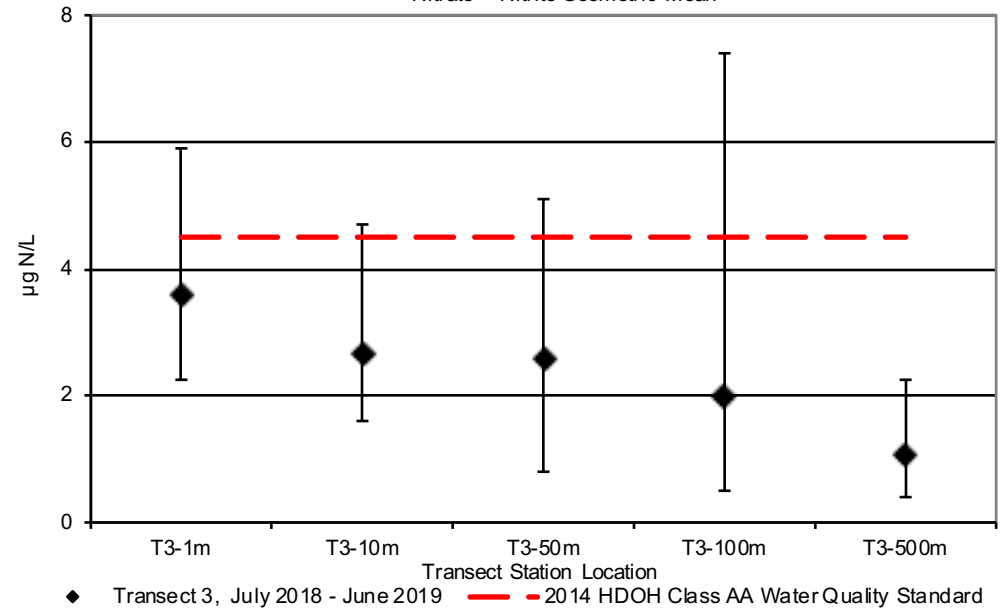
Transect 3 Station Summary

Ortho-Phosphate Geometric Mean



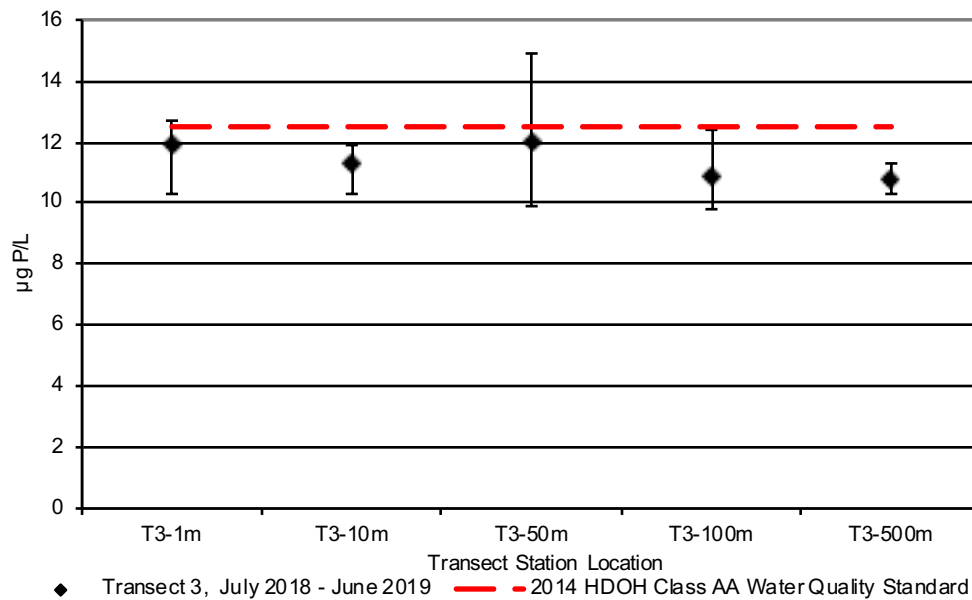
Transect 3 Station Summary

Nitrate + Nitrite Geometric Mean



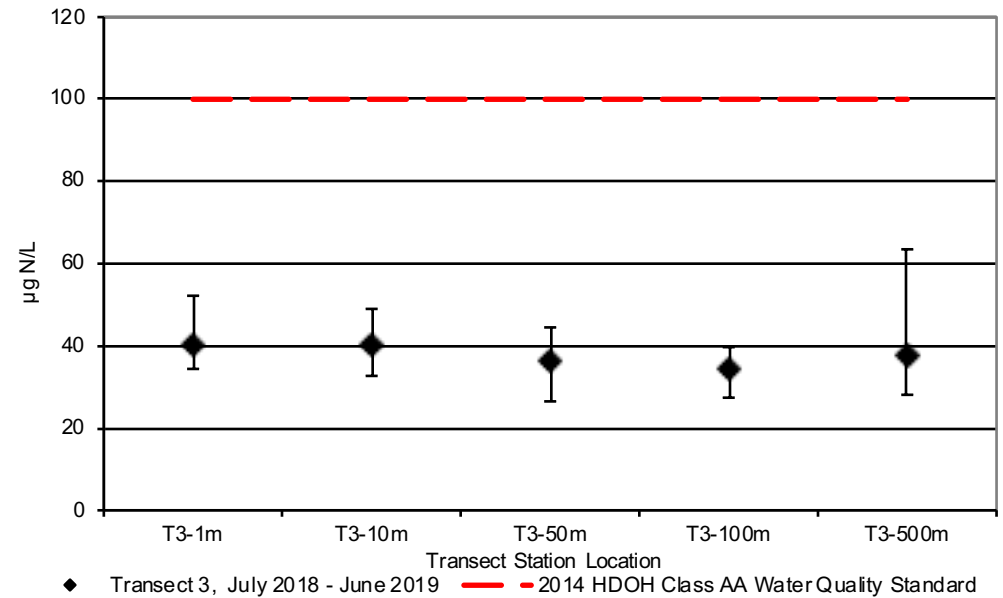
Transect 3 Station Summary

Total Dissolved Phosphorous Geometric Mean



Transect 3 Station Summary

Total Dissolved Nitrogen Geometric Mean



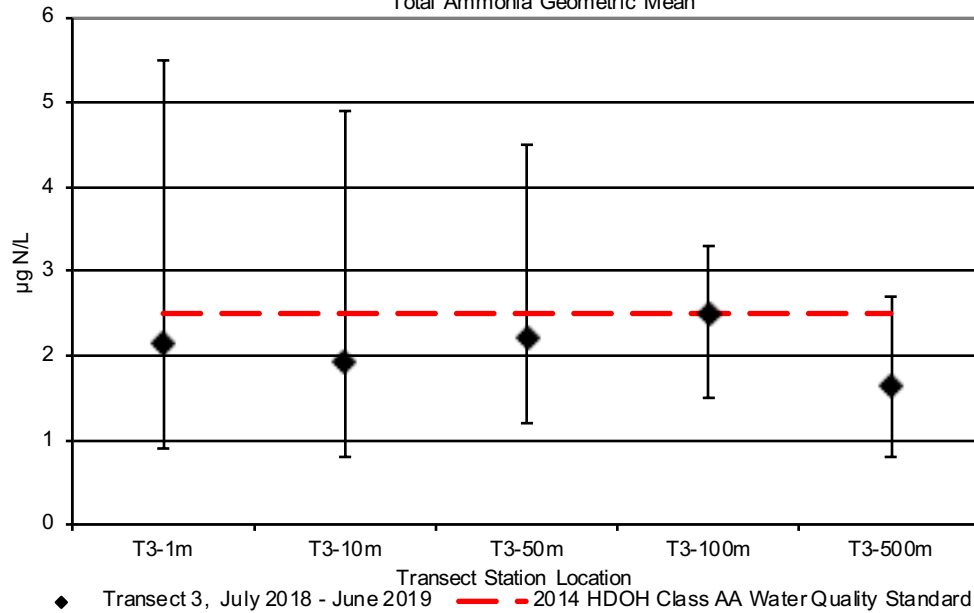
NELHA Water Quality Laboratory

Transect 3

July 2018 - June 2019

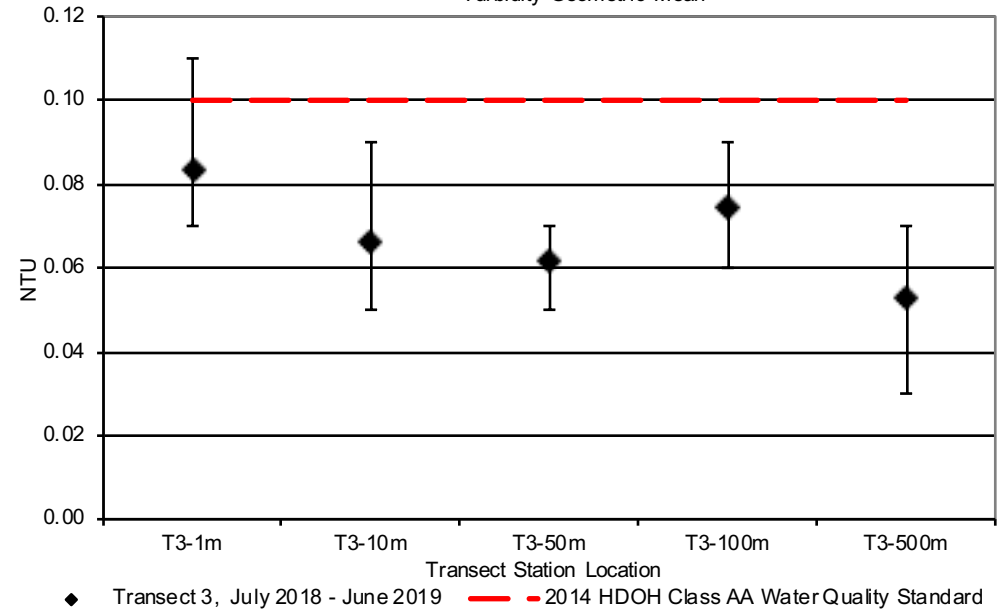
Transect 3 Station Summary

Total Ammonia Geometric Mean



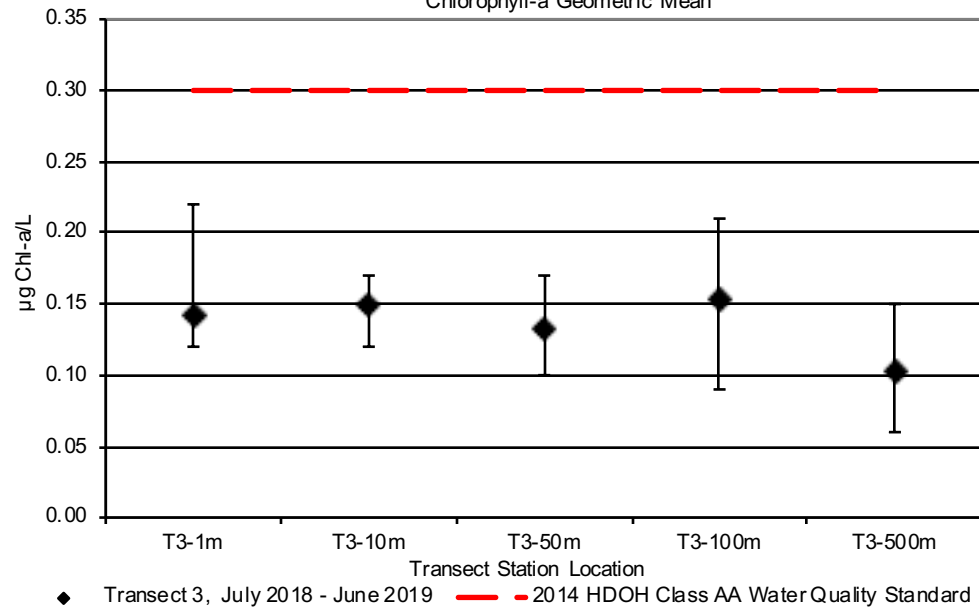
Transect 3 Station Summary

Turbidity Geometric Mean



Transect 3 Station Summary

Chlorophyll-a Geometric Mean



NELHA Water Quality Laboratory

Transect 3

July 2018 - June 2019

SITE ID	DATE	TIME	Tide		PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		Turbidity	Salinity	Temp.	pH	DO	Chl a
	M/D/Y	(2400)	(ft)	(cycle)	(µM)	(µg P/L)	(µM)	(µg N/L)	(µM)	(µg N/L)	(µM)	(µg Si/L)	(µM)	(µg P/L)	(µM)	(µg N/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(µg/L)
DOH LIMIT					0.16	5	0.32	4.5	0.18	2.5			0.40	12.5	7.1	100	0.10					0.30
T3-1m	8/13/19	1056	0.7	Flood	0.05	1.6	0.16	2.3	0.22	3.1	2.1	58	0.29	9.0	2.0	28	0.11	35.58	28.3	8.21	7.00	0.13
T3-1m	11/19/19	1025	1.9	High	0.12	3.7	0.24	3.4	0.09	1.2	0.4	12	0.43	13.4	3.0	43	0.09	34.80	27.6	8.24	6.83	0.36
T3-1m	1/22/20	1046	0.6	Flood	0.13	3.9	0.02	0.3	0.09	1.3	0.8	22	0.40	12.4	3.0	41	0.04	34.94	25.1	8.22	6.88	0.12
T3-1m	6/24/20	1114	-0.1	Low	0.10	3.2	0.16	2.3	0.06	0.8	2.2	62	0.29	8.9	2.6	36	0.07	35.46	26.0	8.19	7.05	0.29
Geomean	FY '20				0.09	2.9	0.11	1.5	0.1	1.4			0.3	10.7	2.6	37	0.07					0.20
T3-10m	8/13/19	1103	0.7	Flood	0.06	1.9	0.16	2.3	0.25	3.5	2.1	59	0.29	9	2.4	34	0.12	35.62	28.3	8.22	6.95	0.14
T3-10m	11/19/19	1029	1.9	High	0.12	3.8	0.21	2.9	0.20	2.8	1.5	42	0.43	13.4	3.2	45	0.09	34.77	27.6	8.24	6.84	0.34
T3-10m	1/22/20	1051	0.6	Flood	0.13	3.9	0.01	0.1	0.09	1.3	0.8	23	0.40	12.4	2.9	40	0.07	34.91	25.1	8.22	6.91	0.16
T3-10m	6/24/20	1119	-0.1	Low	0.11	3.3	0.16	2.3	0.13	1.8	2.1	58	0.31	9.6	2.4	34	0.06	35.46	26.0	8.18	6.97	0.32
Geomean	FY '20				0.10	3.1	0.08	1.1	0.15	2.2			0.35	10.9	2.7	38	0.08					0.22
T3-50m	8/13/19	1111	0.7	Flood	0.05	1.6	0.16	2.3	0.22	3.1	2.6	74	0.30	9.2	2.4	34	0.09	35.63	28.3	8.19	6.74	0.18
T3-50m	11/19/19	1033	1.9	High	0.12	3.7	0.26	3.6	0.04	0.5	0.7	18	0.42	12.9	3.0	42	0.08	34.78	27.6	8.25	6.61	0.16
T3-50m	1/22/20	1058	0.6	Flood	0.11	3.4	0.01	0.1	0.09	1.3	0.7	21	0.40	12.4	2.4	34	0.04	34.94	25.1	8.22	6.69	0.17
T3-50m	6/24/20	1123	-0.1	Low	0.09	2.9	0.16	2.3	0.09	1.3	2.1	59	0.32	9.8	2.6	36	0.07	35.49	26.0	8.18	6.83	0.28
Geomean	FY '20				0.09	2.8	0.08	1.2	0.09	1.2			0.35	11.0	2.6	36	0.07					0.19
T3-100m	8/13/19	1118	0.7	Flood	0.07	2.2	0.21	2.9	0.24	3.4	7.3	205	0.32	10.0	2.8	39	0.09	35.56	28.4	8.20	6.44	0.18
T3-100m	11/19/19	1038	1.9	High	0.11	3.3	0.06	0.8	0.09	1.3	0.2	5	0.41	12.8	2.5	35	0.08	34.78	27.7	8.24	6.58	0.21
T3-100m	1/22/20	1104	0.6	Flood	0.13	4.1	0.16	2.3	0.09	1.3	-0.4	-11	0.40	12.3	2.7	39	0.06	34.94	25.1	8.22	6.66	0.12
T3-100m	6/24/20	1129	-0.1	Flood	0.08	2.5	0.16	2.3	0.09	1.3	1.0	29	0.28	8.8	2.0	28	0.06	35.43	26.2	8.19	6.93	0.24
Geomean	FY '20				0.09	2.9	0.13	1.9	0.11	1.6			0.35	10.8	2.5	35	0.07					0.18
T3-500m	8/13/19	1128	0.7	Flood	0.03	1.0	0.16	2.3	0.39	5.5	1.5	41	0.28	8.6	1.81	25	0.08	35.66	28.4	8.20	6.48	0.18
T3-500m	11/19/19	1045	1.9	High	0.10	3.1	0.04	0.6	0.09	1.3	0.1	3	0.36	11.2	1.65	23	0.06	34.80	27.7	8.24	6.45	0.13
T3-500m	1/22/20	1113	0.6	Flood	0.12	3.6	0.16	2.3	0.09	1.3	0.7	19	0.37	11.6	1.93	27	0.04	34.95	25.1	8.22	6.65	0.10
T3-500m	6/24/20	1138	-0.1	Low	0.14	4.3	0.16	2.3	0.09	1.3	2.0	57	0.22	6.8	1.85	26	0.05	35.43	26.7	8.18	6.64	0.39
Geomean	FY '20				0.08	2.6	0.12	1.6	0.13	1.8			0.30	9.3	1.8	25	0.06					0.17

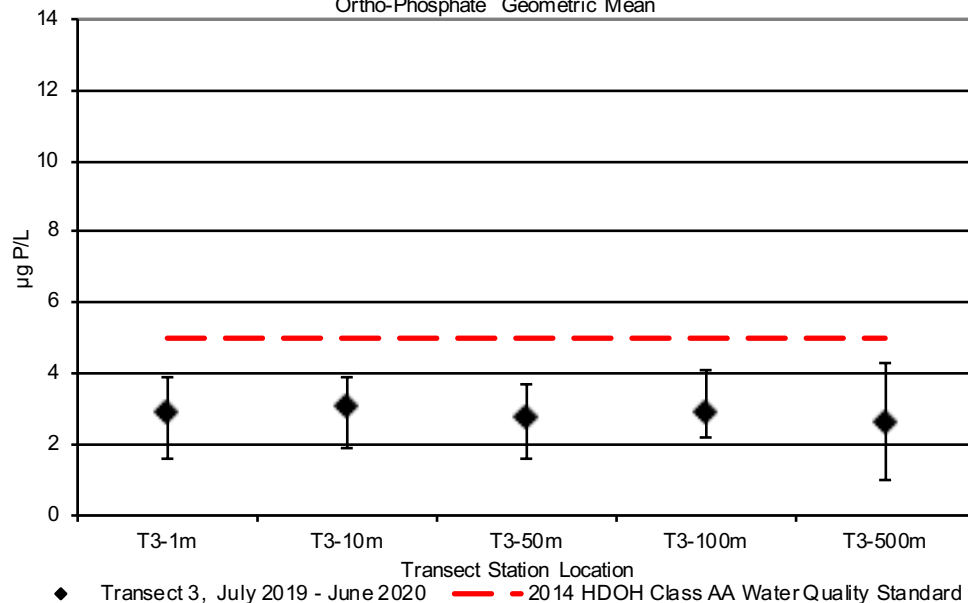
NELHA Water Quality Laboratory

Transect 3

July 2018 - June 2019

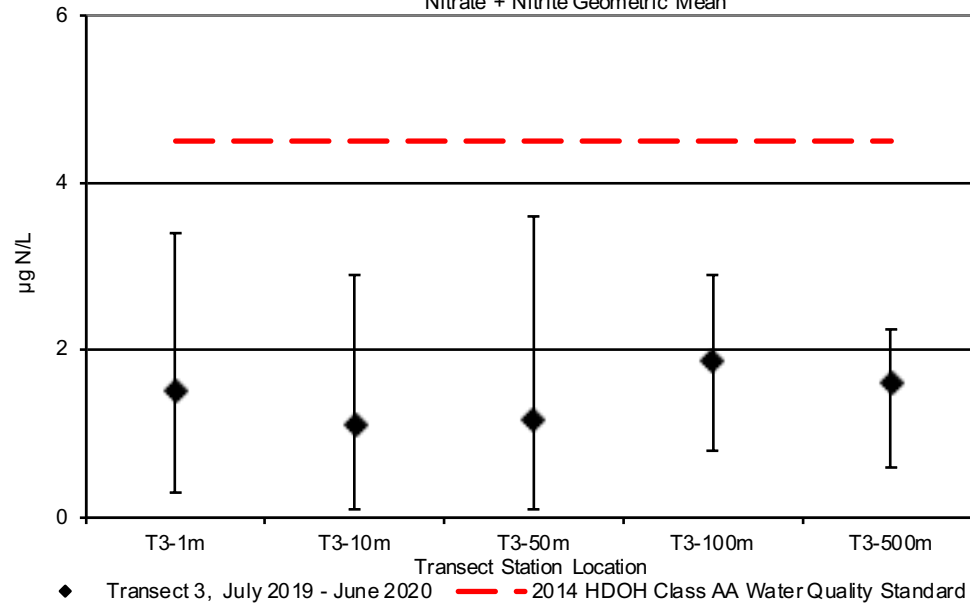
Transect 3 Station Summary

Ortho-Phosphate Geometric Mean



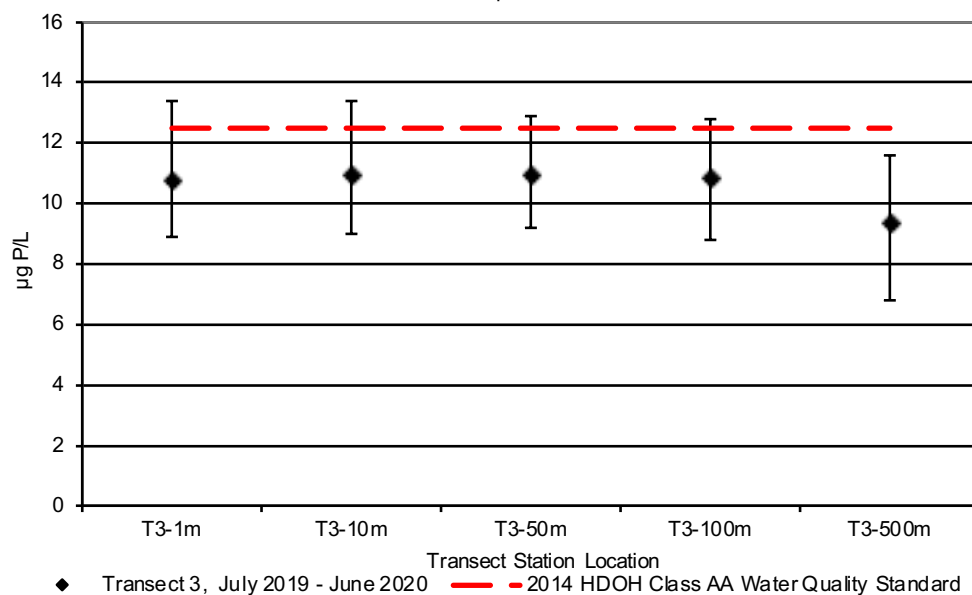
Transect 3 Station Summary

Nitrate + Nitrite Geometric Mean



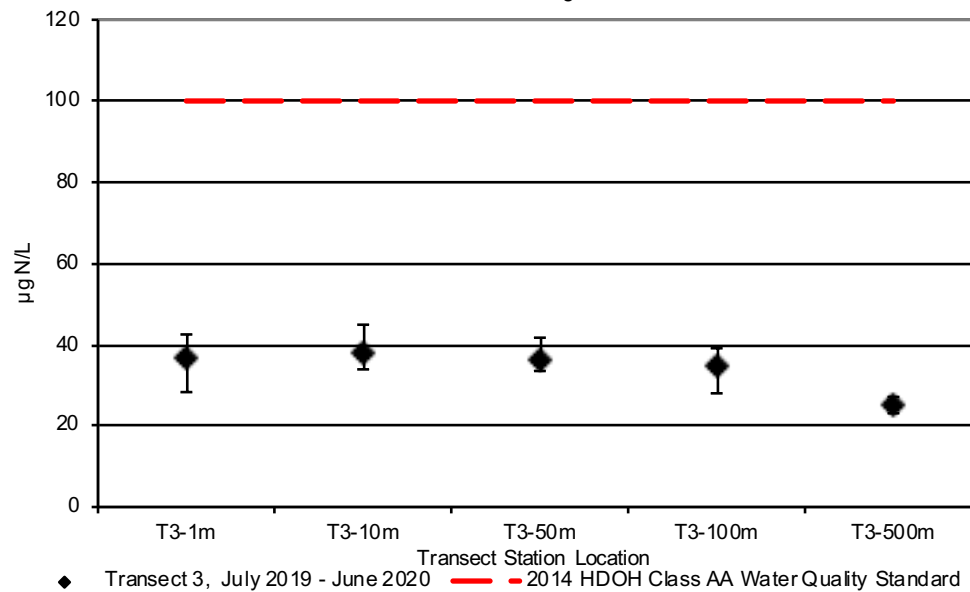
Transect 3 Station Summary

Total Dissolved Phosphorous Geometric Mean



Transect 3 Station Summary

Total Dissolved Nitrogen Geometric Mean



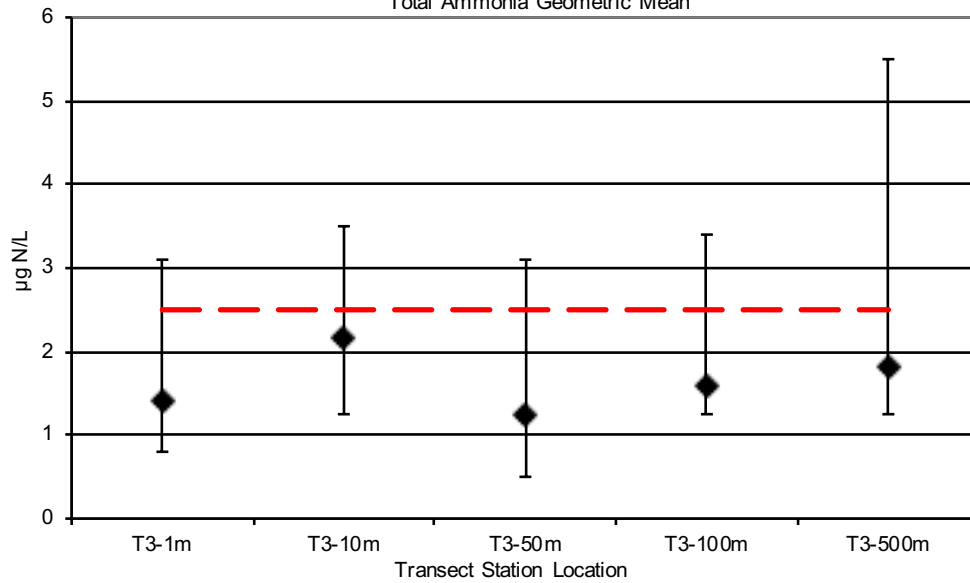
NELHA Water Quality Laboratory

Transect 3

July 2018 - June 2019

Transect 3 Station Summary

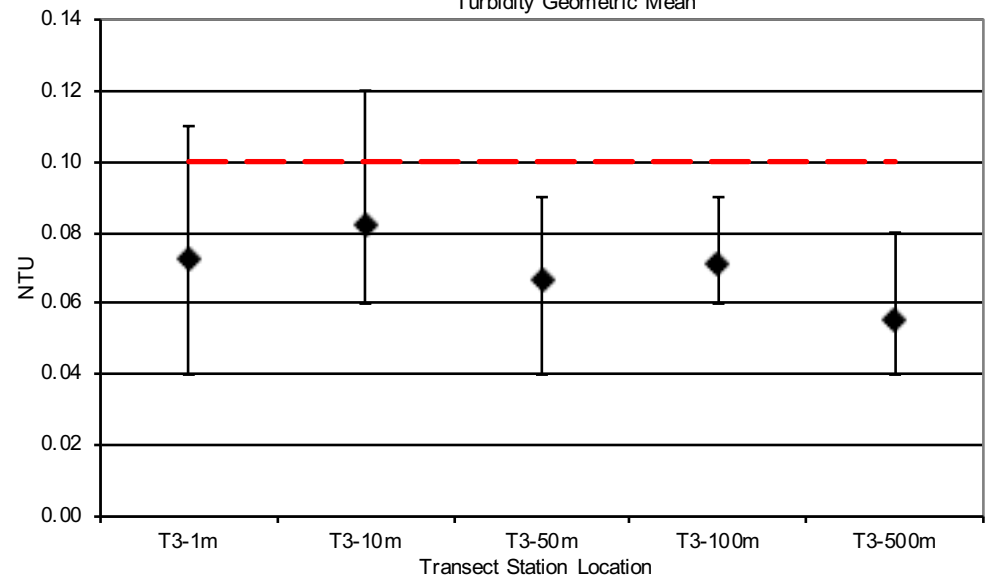
Total Ammonia Geometric Mean



◆ Transect 3, July 2019 - June 2020 - - - 2014 HDOH Class AA Water Quality Standard

Transect 3 Station Summary

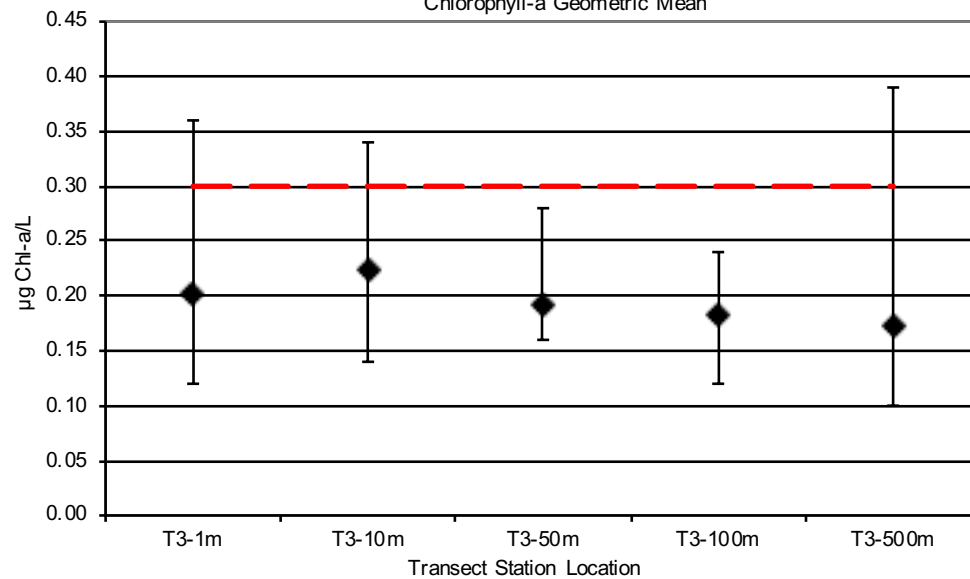
Turbidity Geometric Mean



◆ Transect 3, July 2019 - June 2020 - - - 2014 HDOH Class AA Water Quality Standard

Transect 3 Station Summary

Chlorophyll-a Geometric Mean



◆ Transect 3, July 2019 - June 2020 - - - 2014 HDOH Class AA Water Quality Standard

NELHA Water Quality Laboratory

Transect 3, Station 2

8/3/1993 - 7/16/20

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		Turbidity	Salinity	Temp.	pH	DO	Chl a							
	M/D/Y	(2400)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg N/L)	(μM)	(μg Si/L)	(μM)	(μg P/L)	(μM)	(μg N/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(μg/L)							
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30							
O3-2S-23m	8/3/93	1047	0.12	3.7	0.29	4.1	0.39	5.5	3.6	101			5.89 82.50		0.06	34.502	26.8										
O3-2S-23m	12/8/93	1058	0.09	2.8	0.21	2.9	0.14	2.0	2.7	77					0.07	34.788	25.7										
O3-2S-23m	3/8/94	1020	0.20	6.2	0.40	5.6	0.33	4.6	3.6	100					0.09	34.204	25.2										
O3-2S-23m	6/13/94	1012	0.13	4.0	0.29	4.1	0.11	1.5	4.5	127					0.16	34.520	25.7										
Geomean	FY '94		4.0		4.1		3.0								0.09												
O3-2S-23m	9/8/94	852	0.09	2.8	0.15	2.1	0.18	2.5	3.5	98					0.09	34.630	27.6										
O3-2S-23m	11/15/94	930	0.17	5.3	0.58	8.1	0.59	8.3	5.1	144					0.11	34.551	26.0										
O3-2S-23m	3/21/95	834	0.19	5.9	0.14	2.0	0.11	1.5	4.2	119					0.09	34.226	25.0										
O3-2S-23m	6/21/95	947	0.11	3.4	0.04	0.6	0.34	4.8	1.7	48					0.06	34.475	26.2										
Geomean	FY '95		4.1		2.1		3.5														0.09						
O3-2S-23m	9/25/95	1210	0.12	3.7	0.25	3.5	0.28	3.9	3.5	98	0.12	34.521	27.3														
O3-2S-23m	11/13/95	825	0.15	4.6	0.17	2.4	0.55	7.7	2.2	62	0.06	34.388	26.6														
O3-2S-23m	3/11/96	1219	0.12	3.7	0.29	4.1	0.49	6.9	2.3	64					0.08	34.192	25.5										
O3-2S-23m	5/13/96	1124	0.13	4.0	0.36	5.0	0.23	3.2	3.7	105					0.09	34.289	27.0										
Geomean	FY '96		4.0		3.6		5.1														0.08						
O3-2S-23m	7/30/96	1045	0.11	3.4	0.61	8.5	0.31	4.3	4.5	125	0.10	34.434	28.4														
O3-2S-23m	10/1/96	925	0.07	2.2	0.04	0.6	0.62	8.7	2.3	65	0.08	34.689	27.9														
O3-2S-23m	1/6/97	928	0.12	3.7	0.68	9.5	0.16	2.2	4.0	112					0.12	34.655	25.3										
O3-2S-23m	4/21/97	909	0.11	3.4	1.83	25.6	0.28	3.9	3.3	93					0.14	34.530	26.4										
Geomean	FY '97		3.1		5.8		4.3														0.11						
O3-2S-23m	8/18/97	903	0.11	3.4	0.46	6.4	0.20	2.8	4.7	133	0.10	34.617	27.0														
O3-2S-23m	10/6/97	927	0.11	3.4	0.03	0.4	0.32	4.5	2.9	81	0.08	34.707	27.4														
O3-2S-23m	3/3/98	926	0.07	2.2	0.15	2.1	0.24	3.4	2.5	71					0.08	35.027	24.9										
O3-2S-23m	5/4/98	1239	0.10	3.1	0.08	1.1	0.10	1.4	30.3	851					0.06	35.078	24.0										
Geomean	FY '98		3.0		1.6		2.8														0.08						
O3-2S-23m	7/6/98	941	0.12	3.7	0.55	7.7	0.05	0.7	5.6	157	0.09	34.949	26.1														
O3-2S-23m	10/5/98	916	0.08	2.5	0.06	0.8	0.09	1.3	2.4	69	0.08	35.107	27.2														
O3-2S-23m	1/13/99	916	0.10	3.1	0.68	9.5	0.26	3.6	3.5	99					0.07	35.063	24.8										
O3-2S-23m	4/13/99	911	0.17	5.3	0.71	9.9	0.11	1.5	4.3	121					0.11	34.617	24.2										
Geomean	FY '99		3.5		5.0		1.5														0.09						

NELHA Water Quality Laboratory

Transect 3, Station 2

8/3/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (μM) (μg P/L)		TDN (μM) (μg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (μg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O3-2S-23m	7/13/99	945	0.14	4.3	0.43	6.0	0.04	0.6	4.1	115					0.08	34.909	26.0			
O3-2S-23m	10/25/99	928	0.13	4.0	0.70	9.8	0.33	4.6	5.1	142					0.11	34.932	26.1			
O3-2S-23m	1/4/00	939	0.11	3.4	0.61	8.5	0.35	4.9	4.6	130					0.08	35.066	24.8			
O3-2S-23m	5/16/00	1005	0.16	5.0	0.41	5.7	0.10	1.4	4.7	133					0.10	34.636	25.2			
Geomean	FY '00		4.1		2.3		2.1								0.09					
O3-2S-23m	7/24/00	947	0.10	3.1	0.11	1.5	0.01	0.1	3.0	85					0.06	34.884	27.3			
O3-2S-23m	10/30/00	958	0.12	3.7	0.14	2.0	0.29	4.1	4.9	139					0.08	34.979	27.0			
O3-2S-23m	2/26/01	958	0.15	4.6	0.10	1.4	0.16	2.2	3.1	87					0.07	34.728	24.8			
O3-2S-23m	5/8/01	920	0.14	4.3	0.51	7.1	0.21	2.9	8.4	235					0.07	34.792	24.9			
Geomean	FY '01		3.9		2.3		1.4								0.07					
O3-2S-23m	8/13/01	943	0.10	3.1	0.05	0.7	0.29	4.1	2.8	79					0.09	34.892	26.6			
O3-2S-23m	10/10/01	928	0.14	4.3	0.08	1.1	0.04	0.6	3.1	88					0.10	34.935	27.4			
O3-2S-23m	3/4/02	1059	0.10	3.1	0.02	0.3	0.02	0.3	1.7	47					0.08	34.670	24.2			
O3-2S-23m	4/16/02	1112	0.17	5.3	0.43	6.0	0.35	4.9	7.1	199					0.09	34.396	25.7			
Geomean	FY '02		3.8		1.1		1.3								0.09					
O3-2S-23m	7/9/02	1003	0.13	4.0	0.43	6.0	0.18	2.5	4.1	114					0.07	34.640	26.6			
O3-2S-23m	10/7/02	1059	0.08	2.5	0.30	4.2	0.25	3.5	3.1	88					0.09	34.923	27.1			
O3-2S-23m	3/10/03	1026	0.14	4.3	0.26	3.6	0.03	0.4	3.0	83					0.07	34.808	24.8			
O3-2S-23m	4/22/03	1005	0.08	2.5	0.28	3.9	0.05	0.7	2.5	71					0.17	35.018	25.0			
Geomean	FY '03		3.2		4.4		1.3								0.09					
O3-2S-23m	8/19/03	1109	0.07	2.2	0.01	0.1	0.20	2.8	1.5	43					0.08	34.817	28.2			
O3-2S-23m	10/30/03	841	0.09	2.8	0.02	0.3	0.20	2.8	2.0	56					0.16	34.862	27.4			
O3-2S-23m	3/17/04	948	0.13	4.0	0.01	0.1	0.21	2.9	1.4	40					n/a	34.347	26.0			
O3-2S-23m	5/20/04	1112	0.12	3.7	0.03	0.4	0.18	2.5	2.0	56					n/a	33.53	26.8			
Geomean	FY '04		3.1		0.2		2.8								0.11					
O3-2S-23m	9/20/04	1047	0.08	2.5	0.03	0.4	0.31	4.3	1.9	53					0.09	33.78	28.1			
O3-2S-23m	11/17/04	1017	0.08	2.5	0.09	1.3	0.19	2.7	1.4	38					0.06	33.73	27.2			
O3-2S-23m	1/13/05	1142	0.04	1.2	0.01	0.1	0.08	1.1	1.8	51					0.06	34.856	24.9			
O3-2S-23m	4/11/05	1152	0.14	4.3	0.86	12.0	0.24	3.4	3.8	106					0.14	34.449	25.3			
Geomean	FY '05		2.4		1.0		2.6								0.08					

NELHA Water Quality Laboratory

Transect 3, Station 2

8/3/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O3-2S-23m	7/20/05	1137	0.09	2.8	0.25	3.5	0.17	2.4	3.0	84					0.17	34.674	26.7			
O3-2S-23m	10/11/05	1028	0.05	1.5	0.01	0.1	0.17	2.4	1.3	36					0.11	34.847	27.5			
O3-2S-23m	3/14/06	854	0.10	3.1	0.09	1.3	0.30	4.2	1.5	41					0.10	34.760	24.5			
O3-2S-23m	5/15/06	1058	0.19	5.9	0.09	1.3	0.17	2.4	1.8	51					0.13	34.872	24.8			
Geomean	FY '06		3.0		0.9		2.7								0.12					
O3-2S-23m	8/14/06	1100	0.12	3.7	0.26	3.6	0.16	2.2	3.1	87					0.11	34.599	26.8			
O3-2S-23m	11/1/06	1105	0.08	2.5	0.16	2.2	0.41	5.7	2.0	56					0.76	34.806	27.4			
O3-2S-23m	2/12/07	1124	0.12	3.7	0.07	1.0	0.37	5.2	1.4	38					0.19	34.487	24.7			
O3-2S-23m	4/9/07	1101	0.12	3.7	0.44	6.2	0.32	4.5	5.3	149					0.16	34.585	25.4			
Geomean	FY '07		3.4		2.7		4.2								0.22					
T3-10m	9/26/07	1041	0.16	5.0	0.41	5.7	0.40	5.6	16.0	449	0.39	12.0	5.5	78	0.10	34.974	26.8	8.21	6.47	0.15
T3-10m	12/13/07	1203	0.11	3.5	0.59	8.3			6.5	181	0.37	11.5	5.6	79	0.09	34.658	25.8	8.25	6.70	0.24
T3-10m	3/10/08	1050	0.20	6.1	1.58	22.1	0.06	0.8	9.6	271	0.43	13.2	7.5	106	0.19	34.848	24.8	8.18	6.97	0.29
T3-10m	6/5/08	1055	0.14	4.3	0.38	5.3	0.16	2.2	24.1	676	0.22	6.7	6.5	91	0.05	34.799	25.1	8.17	6.68	0.29
Geomean	FY '08		4.6		8.6		2.1				10.5		87		0.10					0.23
T3-10m	9/22/08	1149	0.05	1.4	0.17	2.4	0.15	2.1	1.8	51	0.32	10.0	5.0	70	0.12	34.829	26.7	8.05	6.58	0.06
T3-10m	11/17/08	1029	0.19	5.8	0.20	2.8	0.14	1.9	2.9	82	0.36	11.3	4.7	66	0.08	34.960	25.9	8.27	6.20	0.01
T3-10m	2/9/09	1037	0.14	4.2	1.01	14.2	0.12	1.7	4.5	126	0.33	10.2	10.6	149	0.08	35.059	25.0	8.06	6.39	0.04
T3-10m	4/13/09	1017	0.16	4.9	1.04	14.5	1.72	24.1	3.9	109	0.50	15.4	10.4	146	0.10	34.936	23.8	8.19	6.36	0.11
Geomean	FY '09		3.6		6.1		3.6				11.5		100		0.09					0.04
T3-10m	9/9/09	1039	1.41	43.8	0.59	8.2	1.09	15.3	5.5	154	0.54	16.7	5.2	73	0.08	35.25	27.1	8.22	5.55	0.17
T3-10m	11/23/09	1045	0.03	0.8	0.58	8.1	0.29	4.1	9.1	255	0.41	12.8	5.3	75	0.07	35.23	25.1	8.30	6.56	0.13
T3-10m	2/23/10	1047	0.19	5.8	0.39	5.5	0.49	6.8	17.4	489	0.39	12.0	6.4	89	0.08	35.08	24.6	8.18	6.31	0.2
T3-10m	5/25/10	957	0.06	2	0.45	6.3	0.18	2.5	11.1	311	0.30	9.4	4.5	63	0.08	34.95	25.0	8.21	7.00	0.1
Geomean	FY '10		4.5		6.9		5.7				12.5		74		0.08					0.14
T3-10m	8/10/10	1050	0.08	2.6	1.10	15.4	0.12	1.7	3.7	104	0.67	20.6	2.2	31	0.09	34.83	26.28	8.24	6.70	0.08
T3-10m	11/8/10	1030	0.02	0.7	0.42	5.9	0.37	5.2	9.8	275	0.37	11.5	5.0	71	0.09	35.31	26.61	8.26	6.49	0.08
T3-10m	1/11/11	1044	0.14	4.3	0.35	4.9	0.12	1.7	25.7	722	0.43	13.4	4.3	61	0.08	34.97	24.97	8.23	6.65	0.11
T3-10m	4/26/11	1048	0.15	4.8	0.35	4.9	0.24	3.4	2.4	67	0.40	12.5	3.2	46	0.08	34.97	24.98	8.21	6.61	0.15
Geomean	FY '11		2.5		6.8		2.7				14.1		49		0.08					0.10

NELHA Water Quality Laboratory

Transect 3, Station 2

8/3/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
T3-10m	7/26/11	1119	0.19	6	0.26	3.6	0.14	2	1.3	38	0.46	14.1	3.6	51	0.06	34.81	26.07	8.28	6.76	0.07
T3-10m	10/18/11	1035	0.03	0.8	0.11	1.5	0.24	3.3	1.9	53	0.27	8.5	3.3	46	0.10	35.06	26.80	8.24	7.06	0.11
T3-10m	1/25/12	1101	0.13	3.9	0.91	12.7	0.14	1.9	3.4	96	0.42	13.0	5.4	75	0.07	34.98	24.64	8.21	7.28	0.11
T3-10m	4/24/12	1131	0.15	4.5	0.61	8.5	0.37	5.2	2.0	55	0.43	13.4	4.6	65	0.11	35.11	24.93	8.22	6.99	0.16
Geomean	FY '12		3.0		4.9		2.8				12.0		58		0.08					0.11
T3-10m	7/24/12	1045	0.06	1.9	0.36	5.1	0.25	3.5	1.4	40	0.30	9.4	4.2	59	0.10	35.06	26.36	8.24	6.97	0.10
T3-10m	11/27/12	1029	0.14	4.3	1.28	17.9	0.37	5.2	4.4	125	0.46	14.3	5.7	80	0.03	35.14	25.03	8.21	7.13	0.08
T3-10m	1/23/13	1040	0.10	3.1	0.48	6.7	0.37	5.2	2.4	67	0.49	15.2	7.0	98	0.03	35.08	24.72	8.21	6.69	0.03
T3-10m	4/16/13	1048	0.16	4.9	0.76	10.7	0.16	2.3	2.5	71	0.46	14.4	5.9	83	0.03	35.11	25.01	8.23	6.93	0.15
Geomean	FY '13		3.3		9.0		3.8				13.1		79		0.04					0.08
T3-10m	8/1/13	956	0.05	1.7	0.24	3.3	0.16	2.3	2.4	68	0.37	11.4	5.1	71	0.09	35.26	26.3	8.26	7.03	0.10
T3-10m	10/29/13	1025	0.15	4.5	0.59	8.2	0.36	5.0	2.6	72	0.45	14.0	6.0	85	0.02	35.26	27.1	8.22	6.57	0.15
T3-10m	2/4/14	1037	0.09	2.8	0.65	9.1	0.49	6.9	2.1	58	0.36	11.1	5.1	72	0.02	35.09	25.2	8.20	6.52	0.09
T3-10m	5/6/14	1040	0.10	3.2	0.47	6.6	0.37	5.2	3.2	89	0.50	15.6	7.3	103	0.04	34.74	25.9	8.20	6.28	0.15
Geomean	FY '14		2.9		6.3		4.5				12.9		82		0.03					0.12
T3-10m	8/5/14	1037	0.19	5.8	0.21	2.9	0.42	5.9	1.4	39	0.50	15.5	4.4	62	0.10	34.95	26.8	8.22	6.01	0.17
T3-10m	11/17/14	1213	0.17	5.2	0.29	4.1	0.36	5.0	0.3	9	0.45	13.9	6.9	97	0.06	34.95	27.2	8.22	7.04	0.18
T3-10m	3/3/15	1041	0.04	1.2	0.34	4.8	0.33	4.6	10.0	282	0.34	10.6	11.0	155	0.06	34.84	25.6	8.19	6.98	0.12
T3-10m	6/16/15	1252	0.12	3.7	0.47	6.6	0.34	4.8	3.1	86	0.42	13.1	7.2	101	0.06	34.27	26.8	8.23	6.32	0.13
Geomean	FY '15		3.4		4.4		5.1				13.2		98		0.07					0.15
T3-10m	8/26/15	1030	0.17	5.4	0.36	5.0	0.34	4.7	3.2	90	0.21	6.5	5.5	77	0.02	34.35	28.4	8.22	6.26	0.35
T3-10m	11/17/15	1056	0.15	4.5	0.50	7.0	0.09	1.3	3.8	107	0.51	15.7	6.9	97	0.07	34.01	27.5	8.23	6.50	0.12
T3-10m	3/1/16	1102	0.17	5.2	0.46	6.5	0.34	4.7	0.1	3	0.52	16.1	4.5	63	0.08	34.80	25.4	8.24	5.93	0.09
T3-10m	5/3/16	1026	0.10	3.1	0.21	3.0	0.17	2.4	0.6	17	0.42	12.9	6.0	85	0.08	34.68	25.7	8.26	6.45	0.17
Geomean	FY '16		4.4		5.1		2.9				12.1		79		0.05					0.16
T3-10m	7/6/16	1148	0.11	3.3	0.15	2.1	0.47	6.6	0.3	8	0.54	16.6	5.3	75	0.09	34.59	27.2	8.30	6.76	0.25
T3-10m	12/20/16	1117	0.08	2.6	0.51	7.2	0.22	3.1	2.1	59	0.36	11.2	3.6	50	0.03	34.73	25.6	8.28	5.96	0.13
T3-10m	2/28/17	1010	0.02	0.7	0.48	6.7	0.14	1.9	1.1	32	0.29	9.1	4.8	68	0.07	34.65	24.7	8.21	5.69	0.14
T3-10m	5/10/17	958	0.03	0.9	0.40	5.6	0.06	0.8	1.4	39	0.22	6.8	3.5	49	0.09	34.77	25.7	8.21	4.33	0.08
Geomean	FY '17		1.5		4.9		2.4				10.4		59		0.06					0.14

NELHA Water Quality Laboratory

Transect 3, Station 2

8/3/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (μM) (μg P/L)		TDN (μM) (μg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (μg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
T3-10m	9/27/17	1157	0.13	4.1	0.28	3.9	0.23	3.2	1.1	30	0.42	12.9	3.7	51	0.08	34.80	28.0	8.21	4.27	0.20
T3-10m	11/28/17	1151	0.13	4.0	0.44	6.2	0.54	7.5	1.9	52	0.40	12.3	3.3	46	0.08	35.05	26.2	8.21	4.94	0.15
T3-10m	1/30/18	1135	0.16	4.9	0.59	8.3	0.24	3.4	3.4	95	0.38	11.8	3.8	53	0.09	34.80	24.6	8.18	5.38	0.09
T3-10m	5/16/18	1129	0.11	3.5	0.32	4.5	0.18	2.5	2.8	78	0.36	11.2	2.3	32	0.07	34.73	25.7	8.19	6.31	0.13
Geomean	FY '18		4.1		5.5		3.8				12.0		45		0.08					0.14
T3-10m	9/24/18	1107	0.06	2.0	0.16	2.3	0.27	3.8	0.5	13	0.33	10.3	2.7	38	0.09	34.79	27.7	8.16	5.24	0.14
T3-10m	11/13/18	1130	0.05	1.4	0.34	4.7	0.35	4.9	0.3	9	0.37	11.4	3.5	49	0.07	35.00	27.4	8.23	4.73	0.12
T3-10m	1/22/19	1114	0.10	3.1	0.11	1.6	0.06	0.9	0.6	16	0.37	11.6	2.3	33	0.06	35.03	25.2	8.22	5.70	0.17
T3-10m	4/16/19	1121	0.14	4.2	0.21	3.0	0.06	0.8	1.9	55	0.38	11.9	3.0	42	0.05	35.60	25.9	8.17	7.49	0.17
Geomean	FY '19		2.5		2.7		1.9				11.3		40		0.07					0.15
T3-10m	8/13/19	1103	0.06	1.9	0.16	2.3	0.25	3.5	2.1	59	0.29	9.0	2.4	34	0.12	35.62	28.3	8.22	6.95	0.14
T3-10m	11/19/19	1029	0.12	3.8	0.21	2.9	0.20	2.8	1.5	42	0.43	13.4	3.2	45	0.09	34.77	27.6	8.24	6.84	0.34
T3-10m	1/22/20	1051	0.13	3.9	0.01	0.1	0.09	1.3	0.8	23	0.40	12.4	2.9	40	0.07	34.91	25.1	8.22	6.91	0.16
T3-10m	6/24/20	1119	0.11	3.3	0.16	2.3	0.13	1.8	2.1	58	0.31	9.6	2.4	34	0.06	35.46	26.0	8.18	6.97	0.32
Geomean	FY '20		3.1		1.1		2.2				10.9		38		0.08					0.22

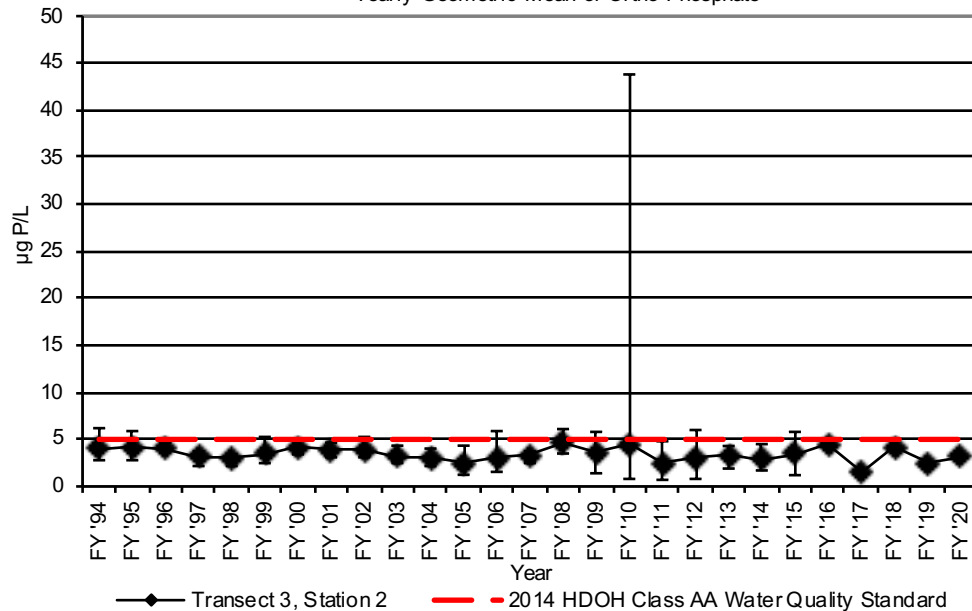
NELHA Water Quality Laboratory

Transect 3, Station 2

8/3/1993 - 7/16/20

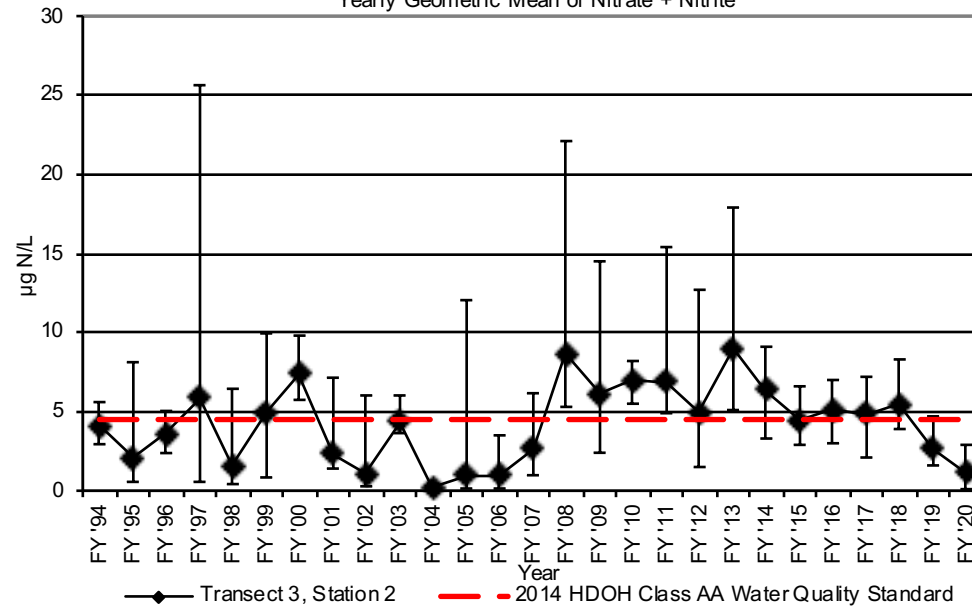
NELHA Offshore Transect 3, Station 2

Yearly Geometric Mean of Ortho-Phosphate



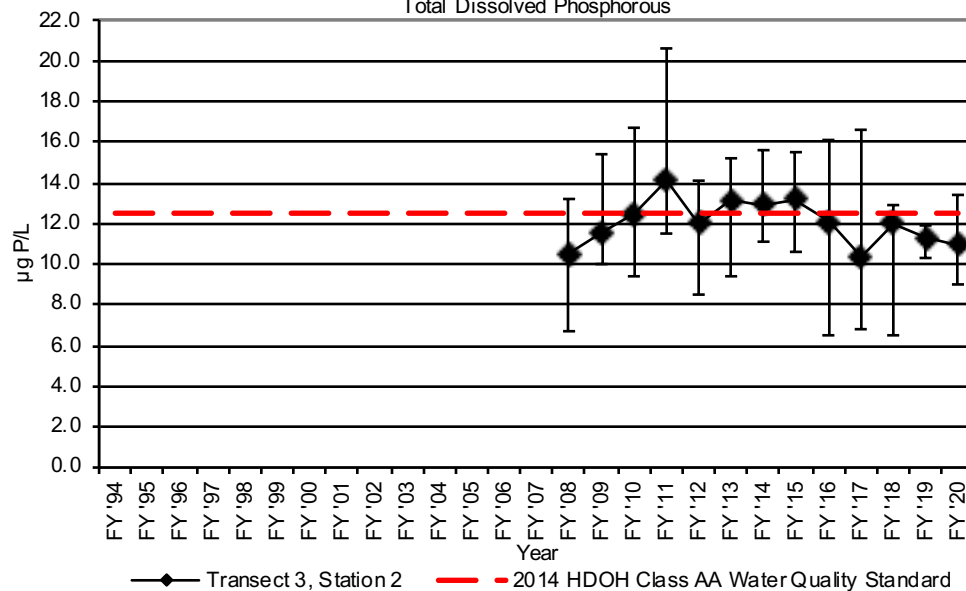
NELHA Offshore Transect 3, Station 2

Yearly Geometric Mean of Nitrate + Nitrite



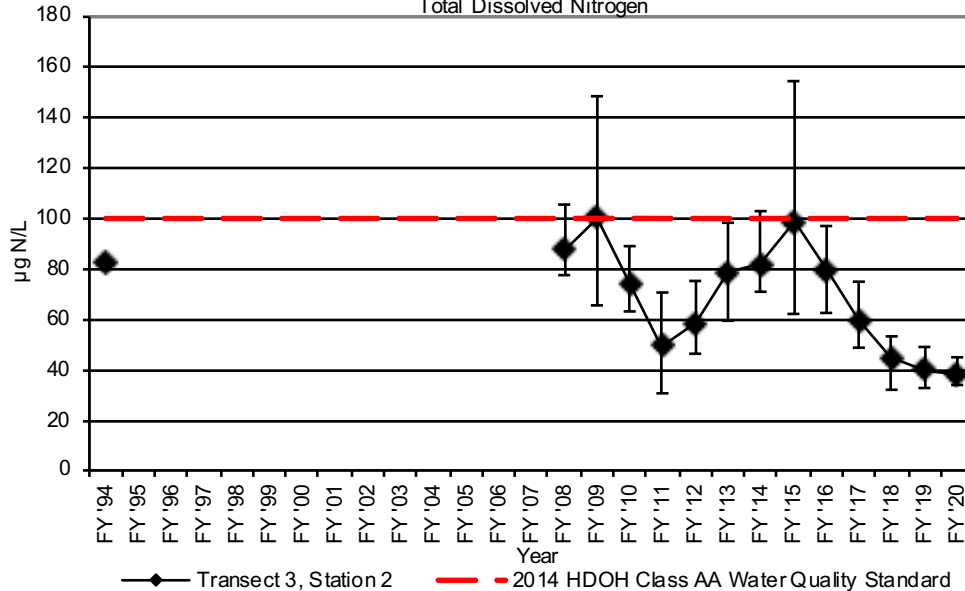
NELHA Offshore Transect 3, Station 2

Yearly Geometric Mean of
Total Dissolved Phosphorous



NELHA Offshore Transect 3, Station 2

Yearly Geometric Mean of
Total Dissolved Nitrogen



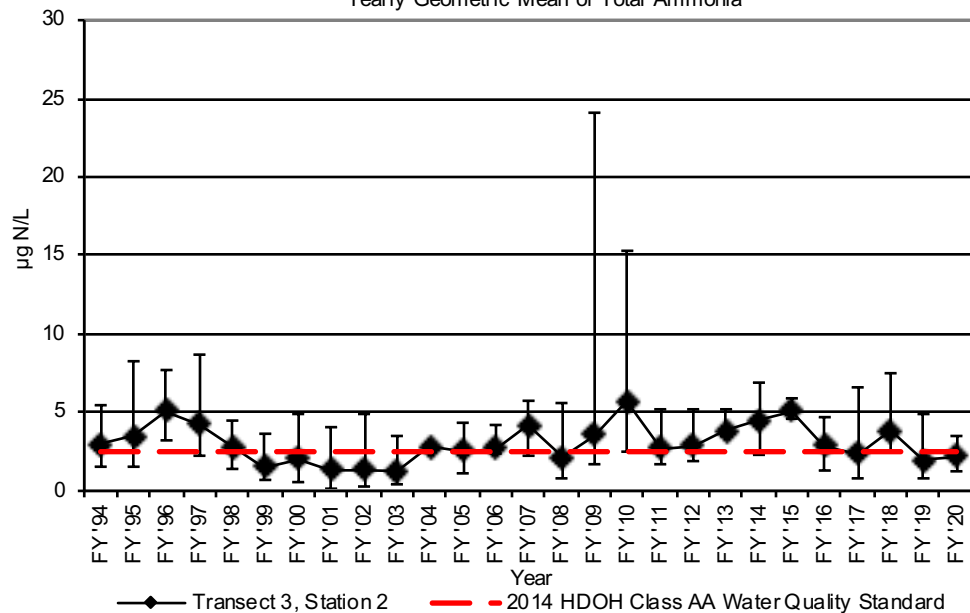
NELHA Water Quality Laboratory

Transect 3, Station 2

8/3/1993 - 7/16/20

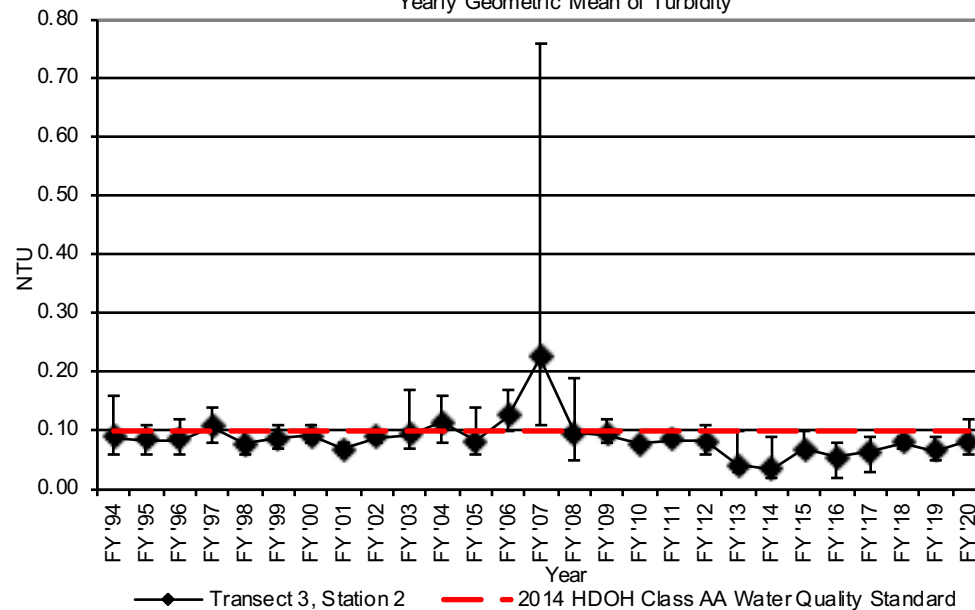
NELHA Offshore Transect 3, Station 2

Yearly Geometric Mean of Total Ammonia



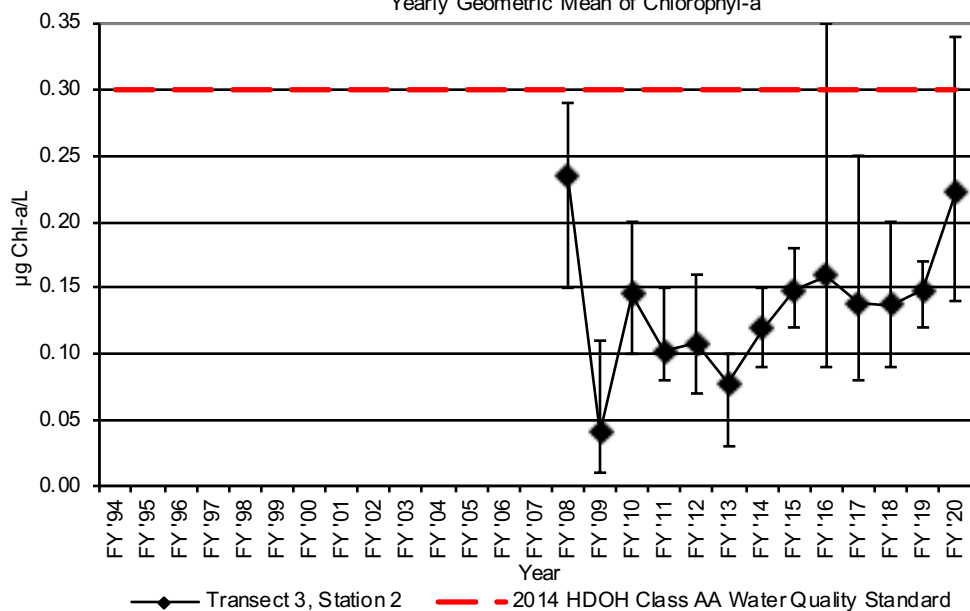
NELHA Offshore Transect 3, Station 2

Yearly Geometric Mean of Turbidity



NELHA Offshore Transect 3, Station 2

Yearly Geometric Mean of Chlorophyll-a



NELHA Water Quality Laboratory

Transect 3, Station 1

8/3/1993 - 7/16/20

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		TP		TOC	Turbidity	Salinity	Temp.	pH	DO	Chl a	Fecal Coli.	Entero.
	M/D/Y	(2400)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg N/L)	(μM)	(μg Si/L)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg P/L)	(mgC/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(μg/L)	(Bact/100 ml)	(Bact/100 ml)
DOH LIMIT			5		4.5		2.5				12.5		100					0.10					0.30		
O3-1S-8m	8/3/93	1056	0.12	3.7	0.34	4.8	0.43	6.0	3.7	103	0.30	9.3	8.1	113	0.38	11.77	1.00	0.11	34.508	26.9	8.24	7.07	0.10		
O3-1S-8m	12/8/93	1129	0.09	2.8	0.19	2.7	0.17	2.4	2.7	77	0.25	7.7	5.1	71	0.25	7.74	1.18	0.13	34.799	26.1	8.25	7.03	0.08		
O3-1S-8m	3/8/94	1027	0.22	6.8	0.43	6.0	0.25	3.5	3.5	99	0.33	10.2	5.9	82	0.33	10.22	1.13	0.14	34.200	25.2	8.25	7.28	0.01	<1	<1
O3-1S-8m	6/13/94	1020	0.15	4.6	0.37	5.2	0.16	2.2	4.4	122	0.32	9.9	7.4	104	0.32	9.91	1.05	0.18	34.510	25.6	8.23	7.23	0.07	<1	<1
Geomean FY '94			4.3		4.5		3.3				9.2		91					0.14					0.05		
O3-1S-8m	9/8/94	910	0.09	2.8	0.19	2.7	0.27	3.8	2.7	76	0.27	8.4	6.1	85	0.31	9.60	1.12	0.08	34.634	27.6	8.24	6.67	0.06	2	<1
O3-1S-8m	11/15/94	943	0.17	5.3	0.61	8.5	0.59	8.3	5.1	142	0.34	10.5	5.6	78	0.38	11.77	1.01	0.08	34.569	26.0	8.26	7.07	0.08	2	1
O3-1S-8m	3/21/95	841	0.19	5.9	0.14	2.0	0.15	2.1	5.3	147	0.32	9.9	5.5	78	0.32	9.91	1.10	0.09	34.231	25.0	8.22	7.25	0.16	1	1
O3-1S-8m	6/21/95	1001	0.11	3.4	0.09	1.3	0.35	4.9	4.8	136	0.29	9.0	6.8	96	0.29	8.98	1.03	0.06	34.476	26.3	8.23	7.14	0.08	<1	<1
Geomean FY '95			4.1		2.7		4.2				9.4		84					0.08					0.09		
O3-1S-8m	9/25/95	1154	0.19	5.9	0.29	4.1	0.28	3.9	4.0	113	0.30	9.3	8.5	118	0.30	9.29	1.17	0.11	34.522	27.3	8.27	7.04	0.05	1	<1
O3-1S-8m	11/13/95	817	0.15	4.6	0.20	2.8	0.45	6.3	1.7	47	0.31	9.6	5.1	71	0.31	9.60	1.00	0.06	34.391	26.7	8.26	7.00	0.12	<1	2
O3-1S-8m	3/11/96	1223	0.13	4.0	0.31	4.3	0.47	6.6	2.4	66	0.32	9.9	4.7	66	0.32	9.91	1.00	0.09	34.192	25.5	8.24	7.45	0.08	<1	<1
O3-1S-8m	5/13/96	1131	0.11	3.4	0.18	2.5	0.23	3.2	2.9	80	0.31	9.6	4.8	67	0.31	9.60	1.05	0.08	34.298	27.2	8.22	7.18	0.08	<1	<1
Geomean FY '96			4.4		3.3		4.8				9.6		78					0.08					0.08		
O3-1S-8m	7/30/96	949	0.11	3.4	0.47	6.6	0.29	4.1	3.0	84	0.26	8.1	4.5	63	0.26	8.05	0.94	0.13	34.483	28.4	8.24	6.82	0.12	<1	<1
O3-1S-8m	10/1/96	931	0.09	2.8	0.10	1.4	0.60	8.4	33.9	952	0.29	9.0	4.6	65	0.29	8.98	1.12	0.09	34.692	28.1	8.22	6.77	0.08	<1	<1
O3-1S-8m	1/6/97	931	0.13	4.0	0.67	9.4	0.16	2.2	4.0	112	0.35	10.8	5.4	75	0.35	10.84	1.28	0.07	34.654	25.5	8.27	6.97	0.04	<1	<1
O3-1S-8m	4/21/97	914	0.12	3.7	1.78	24.9	0.27	3.8	3.4	96	0.36	11.2	6.6	93	0.37	11.46	1.10	0.10	34.507	26.4	8.27	6.77	0.07	<1	<1
Geomean FY '97			3.5		6.8		4.1				9.7		73					0.10					0.07		
O3-1S-8m	8/18/97	908	0.12	3.7	0.60	8.4	0.21	2.9	3.9	110	0.37	11.5	5.0	70	0.44	13.63	1.10	0.18	34.614	26.9	8.39	6.67	0.15	<1	<1
O3-1S-8m	10/6/97	930	0.12	3.7	0.11	1.5	0.34	4.8	12.1	340	0.40	12.4	4.7	65	0.40	12.39	1.11	0.09	34.703	27.4	8.44	6.72	0.11	<1	<1
O3-1S-8m	3/3/98	931	0.11	3.4	0.43	6.0	0.24	3.4	3.6	102	0.32	9.9	5.2	72	0.32	9.91	0.99	0.07	35.000	24.8	8.21	6.86	0.02	<1	<1
O3-1S-8m	5/4/98	1241	0.12	3.7	0.43	6.0	0.13	1.8	4.0	111	0.41	12.7	5.1	72	0.42	13.01	0.92	0.07	35.030	24.0	8.24	7.18	0.19	<1	<1
Geomean FY '98			3.6		4.7		3.0				11.6		70					0.09					0.09		
O3-1S-8m	7/6/98	947	0.16	5.0	0.65	9.1	0.06	0.8	19.6	549	0.39	12.1	5.3	74	0.41	12.70	1.05	0.10	34.941	26.2	8.21	6.87	0.15	<1	<1
O3-1S-8m	10/5/98	923	0.11	3.4	0.11	1.5	0.09	1.3	11.5	324	0.39	12.1	6.0	84	0.42	13.01	1.14	0.08	35.101	27.0	8.23	7.38	0.08	6	<1
O3-1S-8m	1/13/99	921	0.12	3.7	1.14	16.0	0.26	3.6	4.5	126	0.36	11.2	5.6	79	0.36	11.15	1.16	0.07	35.039	24.8	8.22	6.99	0.09	1	<1
O3-1S-8m	4/13/99	916	0.17	5.3	0.60	8.4	0.12	1.7	6.7	188	0.42	13.0	4.7	67	0.46	14.25	1.01	0.12	34.633	24.2	8.18	7.17	0.13	<1	<1
Geomean FY '99			4.3		6.6		1.6				12.1		76					0.09					0.11		

NELHA Water Quality Laboratory

Transect 3, Station 1

8/3/1993 - 7/16/20

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		TP		TOC	Turbidity	Salinity	Temp.	pH	DO	Chl a	Fecal Coli.	Entero.
	M/D/Y	(2400)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg N/L)	(μM)	(μg Si/L)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg P/L)	(mgC/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(μg/L)	(Bact/100 ml)	(Bact/100 ml)
DOH LIMIT			5		4.5		2.5				12.5		100					0.10					0.30		
O3-1S-8m	7/13/99	950	0.14	4.3	0.49	6.9	0.04	0.6	4.0	112	0.39	12.1	6.2	86	0.41	12.70	1.07	0.14	34.916	26.0	8.21	6.91	0.16	<1	<1
O3-1S-8m	10/25/99	934	0.14	4.3	0.62	8.7	0.31	4.3	17.9	504	0.34	10.5	5.0	71	0.40	12.39	1.05	0.09	34.943	26.1	8.25	6.77	0.14	<1	<1
O3-1S-8m	1/4/00	944	0.13	4.0	0.81	11.3	0.35	4.9	4.3	122	0.34	10.5	6.0	84	0.34	10.53	0.98	0.08	35.051	24.8	8.22	6.89	0.05	<1	<1
O3-1S-8m	5/16/00	1008	0.17	5.3	0.41	5.7	0.09	1.3	5.1	144	0.37	11.5	6.5	91	0.36	11.15	0.99	0.10	34.664	25.2	8.25	7.13	0.20	<1	<1
Geomean FY '00			4.5		7.9		2.0				11.1		83					0.10					0.12		
O3-1S-8m	7/24/00	956	0.11	3.4	0.15	2.1	0.06	0.8	3.1	88	0.37	11.5	5.4	76	0.37	11.46	0.98	0.07	34.877	27.2	8.26	6.66	0.14	1	4
O3-1S-8m	10/30/00	1002	0.13	4.0	0.19	2.7	0.31	4.3	6.7	188	0.35	10.8	5.5	77	0.36	11.15	1.07	0.11	35.003	27.0	8.25	6.66	0.17	<1	1
O3-1S-8m	2/26/01	1003	0.13	4.0	0.12	1.7	0.16	2.2	3.7	104	0.39	12.1	5.7	79	0.40	12.39	1.48	0.11	34.719	24.8	8.20	6.73	0.09	<1	2
O3-1S-8m	5/8/01	923	0.14	4.3	0.66	9.2	0.19	2.7	4.3	119	0.33	10.2	5.4	75	0.35	10.84	1.04	0.09	34.793	24.9	8.20	7.06	0.14	<1	4
Geomean FY '01			3.9		3.1		2.2				11.1		77					0.09					0.13		
O3-1S-8m	8/13/01	947	0.12	3.7	0.04	0.6	0.29	4.1	18.1	509	0.30	9.3	5.1	72	0.33	10.22	1.07	0.10	34.898	26.5	8.21	6.90	0.11	<1	<1
O3-1S-8m	10/10/01	933	0.16	5.0	0.05	0.7	0.07	1.0	3.0	85	0.40	12.4	5.1	71	0.41	12.70	1.04	0.08	34.936	27.4	8.21	6.87	0.11	<1	1
O3-1S-8m	3/4/02	1103	0.10	3.1	0.47	6.6	0.02	0.3	5.1	144	0.39	12.1	6.3	88	0.39	12.08	0.98	0.07	34.687	24.1	8.23	6.88	0.13	<1	<1
O3-1S-8m	4/16/02	1117	0.18	5.6	0.46	6.4	0.32	4.5	5.7	161	0.39	12.1	6.2	86	0.39	12.08	0.96	0.08	34.401	25.7	8.20	6.78	0.17	<1	<1
Geomean FY '02			4.2		2.0		1.5				11.4		79					0.08					0.13		
O3-1S-8m	7/9/02	1006	0.13	4.0	0.54	7.6	0.15	2.1	4.3	122	0.36	11.2	7.6	106	0.40	12.39	1.09	0.08	34.630	26.6	8.20	6.78	0.18	<1	2
O3-1S-8m	10/7/02	1104	0.10	3.1	0.52	7.3	0.25	3.5	3.5	99	0.32	9.9	5.8	81	0.33	10.22	0.98	0.12	34.915	27.1	8.25	6.96	0.13	<1	<1
O3-1S-8m	3/10/03	1037	0.14	4.3	0.52	7.3	0.04	0.6	3.4	95	0.40	12.4	6.1	85	0.39	12.08	0.91	0.17	34.795	24.8	8.25	7.19	0.11	<1	<1
O3-1S-8m	4/22/03	1012	0.09	2.8	0.25	3.5	0.04	0.6	2.6	72	0.35	10.8	6.4	89	0.34	10.53	0.93	0.07	35.013	25.0	8.26	7.97	0.19	<1	<1
Geomean FY '03			3.5		6.1		1.2				11.0		90					0.10					0.15		
O3-1S-8m	8/19/03	1125	0.11	3.4	0.22	3.1	0.20	2.8	3.0	85	0.35	10.8	6.5	91	0.36	11.15	n/a	0.09	34.858	28.0	8.25	6.77	0.15	<1	1
O3-1S-8m	10/30/03	856	0.10	3.1	0.11	1.5	0.25	3.5	1.7	48	0.39	12.1	6.7	94	0.38	11.77	n/a	0.09	34.817	27.5	8.22	N/A	0.07	<1	<1
O3-1S-8m	3/17/04	1001	0.13	4.0	0.02	0.3	0.23	3.2	1.8	51	0.36	11.2	5.5	77	0.39	12.08	n/a	n/a	34.349	26.0	8.28	6.39	0.10	<1	9
O3-1S-8m	5/20/04	1106	0.14	4.3	0.13	1.8	0.20	2.8	2.3	65	0.38	11.8	5.7	80	0.39	12.08	n/a	n/a	33.50	26.8	8.25	7.12	0.01	<1	<1
Geomean FY '04			3.7		1.2		3.1				11.4		85					0.09					0.06		
O3-1S-8m	9/20/04	1054	0.09	2.8	0.03	0.4	0.24	3.4	2.0	55	0.33	10.2	5.2	73	0.34	10.53	n/a	0.11	33.76	28.1	8.26	6.74	0.15	3	1
O3-1S-8m	11/17/04	1021	0.08	2.5	0.12	1.7	0.29	4.1	1.4	38	0.30	9.3	3.4	48	0.31	9.60	n/a	0.09	33.77	27.2	8.30	6.82	0.10	<1	2
O3-1S-8m	1/13/05	1148	0.08	2.5	0.59	8.3	0.06	0.8	3.6	102	0.28	8.7	4.1	57	0.30	9.29	n/a	0.11	34.823	25.0	8.35	6.24	0.13	<1	<1
O3-1S-8m	4/11/05	1158	0.14	4.3	0.84	11.8	0.29	4.1	3.7	105	0.36	11.2	4.7	66	0.38	11.77	n/a	0.21	34.455	25.2	8.32	7.12	0.14	<1	<1
Geomean FY '05			2.9		2.9		2.6				9.8		60					0.12					0.13		

NELHA Water Quality Laboratory

Transect 3, Station 1

8/3/1993 - 7/16/20

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		TP		TOC	Turbidity	Salinity	Temp.	pH	DO	Chl a	Fecal Coli.	Entero.
	M/D/Y	(2400)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg N/L)	(μM)	(μg Si/L)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg P/L)	(mgC/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(μg/L)	(Bact/100 ml)	(Bact/100 ml)
DOH LIMIT			5		4.5		2.5				12.5		100					0.10					0.30		
O3-1S-8m	7/20/05	1144	0.09	2.8	0.30	4.2	0.13	1.8	3.0	84	0.32	9.9	3.3	46	0.34	10.53	n/a	0.16	34.684	26.7	8.25	6.85	0.06	<1	<1
O3-1S-8m	10/11/05	1035	0.05	1.5	0.01	0.1	0.15	2.1	1.7	47	0.31	9.6	3.0	42	0.32	9.91	1.00	0.12	34.859	27.5	8.29	6.67	0.08	<1	<1
O3-1S-8m	3/14/06	900	0.16	5.0	1.01	14.1	0.46	6.4	4.2	118	0.38	11.8	5.9	83	0.41	12.70	n/a	0.12	34.802	24.4	8.24	6.88	0.11	<1	3
O3-1S-8m	5/15/06	1105	0.12	3.7	1.17	16.4	0.27	3.8	4.7	131	0.39	12.1	6.8	95	0.47	14.56	1.06	0.17	34.676	24.9	8.27	6.97	0.41	<1	<1
Geomean FY '06			3.0		3.4		3.1				10.8		62					0.14					0.12		
O3-1S-8m	8/14/06	1105	0.13	4.0	0.28	3.9	0.25	3.5	2.7	77	0.43	13.3	5.2	73	0.45	13.94	1.07	0.10	34.500	26.9	8.25	7.16	0.15	<1	<1
O3-1S-8m	11/1/06	1114	0.09	2.8	0.24	3.4	0.47	6.6	2.1	60	0.35	10.8	6.2	87	0.35	10.84	1.28	1.45	34.812	27.3	8.27	6.78	0.11	<1	<1
O3-1S-8m	2/12/07	1131	0.14	4.3	0.28	3.9	0.41	5.7	2.2	62	0.34	10.5	5.5	77	0.38	11.77	1.17	0.13	34.491	24.7	8.23	7.61	0.12	<1	<1
O3-1S-8m	4/9/07	1108	0.14	4.3	0.26	3.6	0.30	4.2	4.7	132	0.36	11.2	5.1	71	0.39	12.08	0.97	0.49	34.623	25.4	8.22	6.64	0.02	<1	<1
Geomean FY '07			3.8		3.7		4.9				11.4		77					0.31					0.08		
T3-1m	9/26/07	1032	0.15	4.6	0.43	6.0	0.38	5.3	5.8	162	0.37	11.6	5.6	79				0.12	34.961	26.8	8.25	6.63	0.10		
T3-1m	12/13/07	1159	0.11	3.3	0.44	6.2			8.8	247	0.36	11.0	7.1	99				0.16	34.688	25.7	8.30	6.78	0.25		
T3-1m	3/10/08	1048	0.21	6.5	1.34	18.8	0.06	0.8	5.8	162	0.41	12.6	8.7	123				0.43	34.865	24.8	8.17	6.92	0.24		
T3-1m	6/5/08	1054	0.11	3.3	0.27	3.8	0.16	2.2	19.0	533	0.21	6.4	9.8	138				0.06	34.812	25.1	8.18	6.79	0.35		
Geomean FY '08			4.2		7.2		2.1				10.1		107					0.15					0.21		
T3-1m	9/22/08	1143	0.06	2	0.24	3.3	0.31	4.3	1.9	54	0.26	8.1	4.8	67				0.06	34.853	26.9	8.06	6.62	0.04		
T3-1m	11/17/08	1026	0.14	4.2	0.21	3	0.14	1.9	2.5	71	0.29	8.9	4.1	58				0.12	34.955	26.0	8.26	6.25	0.04		
T3-1m	2/9/09	1031	0.19	6	0.99	13.8	0.12	1.7	3.2	91	0.39	12	11.2	157				0.08	35.600	25.0	8.06	6.50	0.06		
T3-1m	4/13/09	1012	0.24	7.5	0.96	13.4	0.31	4.4	3.8	106	0.57	17.6	5.6	78				0.10	34.955	23.9	8.19	6.20	0.07		
Geomean FY '09			4.4		6.5		2.8				11.1		83					0.09					0.05		
T3-1m	9/9/09	1031	0.15	4.7	0.46	6.5	0.12	1.7	6.5	183	0.63	19.5	5.1	72				0.07	35.22	27.1	8.22	5.80	0.27		
T3-1m	11/23/09	1040	0.03	0.9	0.51	7.2	0.09	1.3	46.6	1309	0.37	11.6	5.3	75				0.07	35.23	25.1	8.28	6.60	0.11		
T3-1m	2/23/10	1043	0.16	5.1	0.35	4.9	0.41	5.8	17.5	491	0.33	10.3	6.4	90				0.10	35.02	24.6	8.20	6.36	0.35		
T3-1m	5/25/10	952	0.05	1.7	0.46	6.4	0.29	4.1	6.1	172	0.33	10.3	5.6	78				0.06	34.94	25.0	8.21	6.98	0.05		
Geomean FY '10			2.5		6.2		2.7				12.4		78					0.07					0.15		
T3-1m	8/10/10	1046	0.06	1.9	0.73	10.2	0.12	1.7	2.2	62	0.31	9.7	4.5	63				0.07	35.22	27.10	8.22	5.80	0.27		
T3-1m	11/8/10	1027	0.02	0.7	0.39	5.5	0.29	4.0	3.1	88	0.39	12.1	6.0	84				0.07	35.23	25.10	8.28	6.60	0.11		
T3-1m	1/11/11	1040	0.14	4.4	0.29	4	0.44	6.1	3.1	88	0.42	13.1	4.8	68				0.10	35.02	24.62	8.20	6.36	0.35		
T3-1m	4/26/11	1044	0.11	3.4	0.37	5.2	0.29	4.0	5.6	158	0.46	14.4	3.4	48				0.06	34.94	25.03	8.21	6.98	0.05		
Geomean FY '11			2.1		5.8		3.6				12.2		64					0.07					0.15		

NELHA Water Quality Laboratory

Transect 3, Station 1

8/3/1993 - 7/16/20

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		TP		TOC	Turbidity	Salinity	Temp.	pH	DO	Chl a	Fecal Coli.	Enter.
	M/D/Y	(2400)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg N/L)	(μM)	(μg Si/L)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg P/L)	(mgC/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(μg/L)	(Bact/100 ml)	(Bact/100 ml)
DOH LIMIT			5		4.5		2.5				12.5		100					0.10					0.30		
T3-1m	7/26/11	1115	0.21	6.6	0.26	3.7	0.17	2.4	1.5	42	0.49	15.1	3.5	49				0.09	34.82	26.04	8.27	6.75	0.04		
T3-1m	10/18/11	1031	0.02	0.6	0.12	1.7	0.24	3.4	2.4	68	0.30	9.4	4.1	58				0.09	35.06	26.80	8.24	7.09	0.08		
T3-1m	1/25/12	1058	0.13	4	0.66	9.3	0.23	3.2	3.4	96	0.41	12.7	4.3	60				0.09	35.00	24.65	8.21	7.12	0.00		
T3-1m	4/24/12	1125	0.15	4.8	0.60	8.4	0.28	3.9	2.1	59	0.43	13.4	4.0	56				0.08	35.10	24.89	8.23	6.98	0.06		
Geomean FY '12			3.0		4.7		3.2				12.5		55					0.09					0.06		
T3-1m	7/24/12	1041	0.05	1.5	0.35	4.9	0.25	3.5	1.6	45	0.34	10.5	3.8	54				0.06	35.06	26.37	8.24	7.10	0.04		
T3-1m	11/27/12	1026	0.12	3.8	1.12	15.7	0.26	3.6	4.0	113	0.49	15.1	6.3	88				0.04	35.15	25.02	8.20	7.12	0.15		
T3-1m	1/23/13	1037	0.11	3.3	0.66	9.2	0.25	3.5	2.8	80	0.43	13.4	5.7	80				0.06	35.08	24.70	8.20	6.71	0.06		
T3-1m	4/16/13	1045	0.16	5	0.72	10.1	0.41	5.7	2.3	63	0.48	14.9	6.7	94				0.06	35.11	25.00	8.21	7.01	0.04		
Geomean FY '13			3.1		9.2		4.0				13.3		77					0.05					0.06		
T3-1m	8/1/13	952	0.04	1.2	0.11	1.5	0.08	1.1	2.3	64	0.44	13.5	5.2	73				0.11	35.25	26.3	8.26	7.02	0.14		
T3-1m	10/29/13	1021	0.15	4.7	0.50	7.0	0.34	4.7	2.5	72	0.46	14.1	6.2	87				0.06	35.25	27.1	8.22	6.54	0.12		
T3-1m	2/4/14	1033	0.10	3.2	0.54	7.6	0.56	7.8	2.1	59	0.38	11.9	4.0	57				0.02	35.10	25.2	8.20	6.56	0.14		
T3-1m	5/6/14	1034	0.11	3.5	0.43	6.0	0.28	3.9	3.1	88	0.45	13.9	5.4	76				0.08	34.72	25.9	8.20	6.11	0.16		
Geomean FY '14			2.8		4.7		3.5				13.3		72					0.06					0.14		
T3-1m	8/5/14	1034	0.20	6.1	0.25	3.5	0.68	9.5	1.3	37	0.53	16.5	5.0	70				0.10	34.95	26.8	8.22	6.04	0.03		
T3-1m	11/17/14	1210	0.17	5.4	0.33	4.6	0.42	5.9	0.3	9	0.48	14.8	5.9	83				0.08	34.96	27.2	8.22	6.97	0.14		
T3-1m	3/3/15	1038	0.11	3.3	0.81	11.3	0.10	1.4	2.4	69	0.33	10.2	8.7	121				0.08	34.83	25.6	8.18	7.24	0.15		
T3-1m	6/16/15	1247	0.14	4.3	0.59	8.2	0.42	5.9	2.8	80	0.44	13.7	10.2	144				0.07	34.24	26.9	8.22	6.35	0.09		
Geomean FY '15			4.6		6.2		4.6				13.6		100					0.08					0.09		
T3-1m	8/26/15	1024	0.18	5.6	0.40	5.6	0.26	3.7	17.5	490	0.23	7.2	6.6	92				0.05	34.29	28.3	8.22	6.32	0.11		
T3-1m	11/17/15	1051	0.17	5.3	0.54	7.5	0.69	9.6	7.5	210	0.52	16.2	5.6	78				0.07	33.99	27.4	8.24	6.60	0.17		
T3-1m	3/1/16	1057	0.19	5.8	0.53	7.4	0.32	4.5	1.0	29	0.52	16.0	4.5	63				0.09	34.74	25.4	8.25	5.98	0.11		
T3-1m	5/3/16	1021	0.13	3.9	0.13	1.8	0.21	3.0	1.0	28	0.40	12.5	5.3	75				0.05	34.68	25.7	8.24	6.49	0.12		
Geomean FY '16			5.1		4.9		4.7				12.4		76					0.06					0.13		
T3-1m	7/6/16	1138	0.11	3.3	0.20	2.8	0.36	5.0	0.8	22	0.61	18.8	5.8	81				0.12	34.59	27.2	8.29	6.86	0.17		
T3-1m	12/20/16	1110	0.09	2.9	0.57	8.0	0.22	3.1	2.5	70	0.36	11.0	4.7	66				0.03	34.70	25.5	8.28	5.98	0.12		
T3-1m	2/28/17	1004	0.03	0.8	0.46	6.5	0.46	6.5	1.2	34	0.29	9.1	4.6	65				0.10	34.63	24.7	8.21	5.75	0.15		
T3-1m	5/10/17	956	0.03	0.8	0.41	5.8	0.10	1.4	1.4	39	0.24	7.4	3.8	53				0.08	34.75	25.7	8.20	4.33	0.09		
Geomean FY '17			1.6		5.4		3.4				10.9		65					0.07					0.13		

NELHA Water Quality Laboratory

Transect 3, Station 1

8/3/1993 - 7/16/20

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		TP		TOC	Turbidity	Salinity	Temp.	pH	DO	Chl a	Fecal Coli.	Enter.
	M/D/Y	(2400)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg N/L)	(μM)	(μg Si/L)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg P/L)	(mgC/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(μg/L)	(Bact/100 ml)	(Bact/100 ml)
DOH LIMIT			5		4.5		2.5				12.5		100					0.10					0.30		
T3-1m	9/27/17	1203	0.13	4.1	0.34	4.7	0.20	2.8	1.2	35	0.43	13.2	2.8	40				0.11	34.80	27.9	8.20	4.39	0.18		
T3-1m	11/28/17	1146	0.13	4.0	0.53	7.4	0.48	6.7	2.1	60	0.38	11.8	4.1	58				0.10	35.05	26.2	8.21	4.94	0.20		
T3-1m	1/30/18	1130	0.13	4.0	0.59	8.2	0.21	2.9	3.4	95	0.38	11.8	4.0	56				0.08	34.81	24.6	8.18	5.46	0.19		
T3-1m	5/16/18	1124	0.10	3.2	0.34	4.7	0.21	3.0	2.9	83	0.36	11.0	2.5	35				0.03	34.73	25.7	8.19	6.32	0.13		
Geomean FY '18			3.8		6.1		3.6				11.9		46					0.07					0.17		
T3-1m	9/24/18	1058	0.07	2.3	0.16	2.3	0.21	3.0	0.6	17	0.33	10.3	2.7	38				0.09	34.77	27.7	8.16	5.30	0.14		
T3-1m	11/13/18	1126	0.05	1.4	0.42	5.9	0.39	5.5	0.6	17	0.40	12.4	3.7	52				0.11	35.00	27.4	8.23	4.71	0.12		
T3-1m	1/22/19	1111	0.11	3.4	0.25	3.5	0.06	0.9	1.0	29	0.41	12.7	2.5	34				0.07	35.02	25.1	8.22	5.84	0.22		
T3-1m	4/16/19	1115	0.15	4.5	0.26	3.6	0.10	1.4	2.0	55	0.40	12.5	2.7	38				0.07	35.59	25.9	8.17	7.59	0.17		
Geomean FY '19			2.6		3.6		2.1				11.9		40					0.08					0.16		
T3-1m	8/13/19	1056	0.05	1.6	0.16	2.3	0.22	3.1	2.1	58	0.29	9.0	2.0	28				0.11	35.58	28.3	8.21	7.00	0.13		
T3-1m	11/19/19	1025	0.12	3.7	0.24	3.4	0.09	1.2	0.4	12	0.43	13.4	3.0	43				0.09	34.80	27.6	8.24	6.83	0.36		
T3-1m	1/22/20	1046	0.13	3.9	0.02	0.3	0.09	1.3	0.8	22	0.40	12.4	3.0	41				0.04	34.94	25.1	8.22	6.88	0.12		
T3-1m	6/24/20	1114	0.10	3.2	0.16	2.3	0.06	0.8	2.2	62	0.29	8.9	2.6	36				0.07	35.46	26.0	8.19	7.05	0.29		
Geomean FY '20			2.9		1.5		1.4				10.7		37					0.07					0.20		

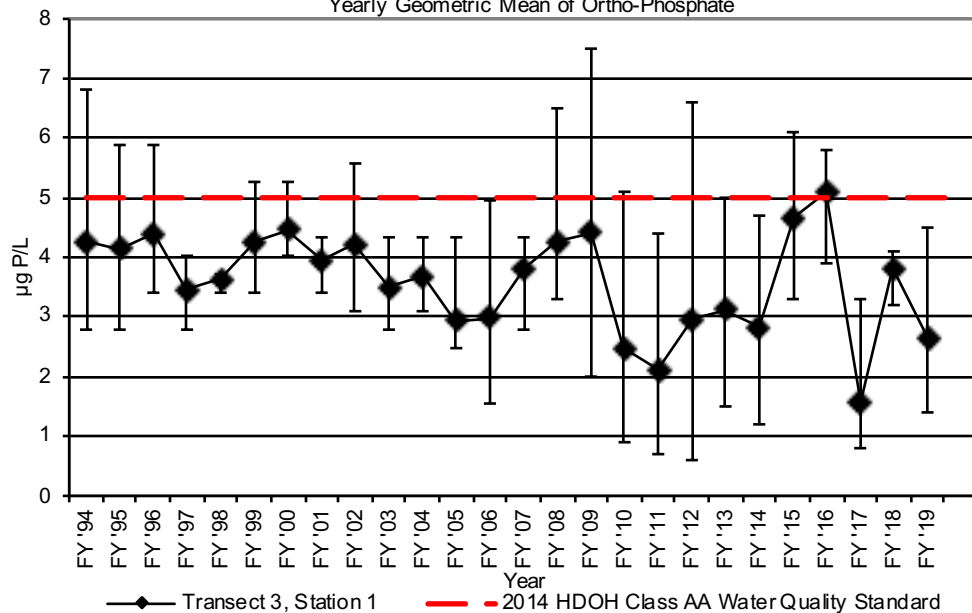
NELHA Water Quality Laboratory

Transect 3, Station 1

8/3/1993 - 7/16/20

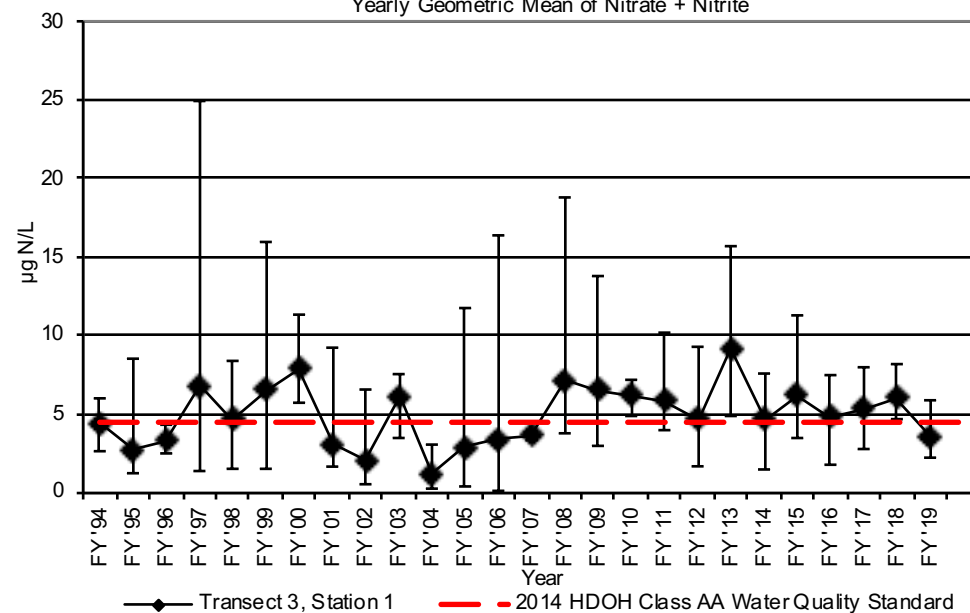
NELHA Offshore Transect 3, Station 1

Yearly Geometric Mean of Ortho-Phosphate



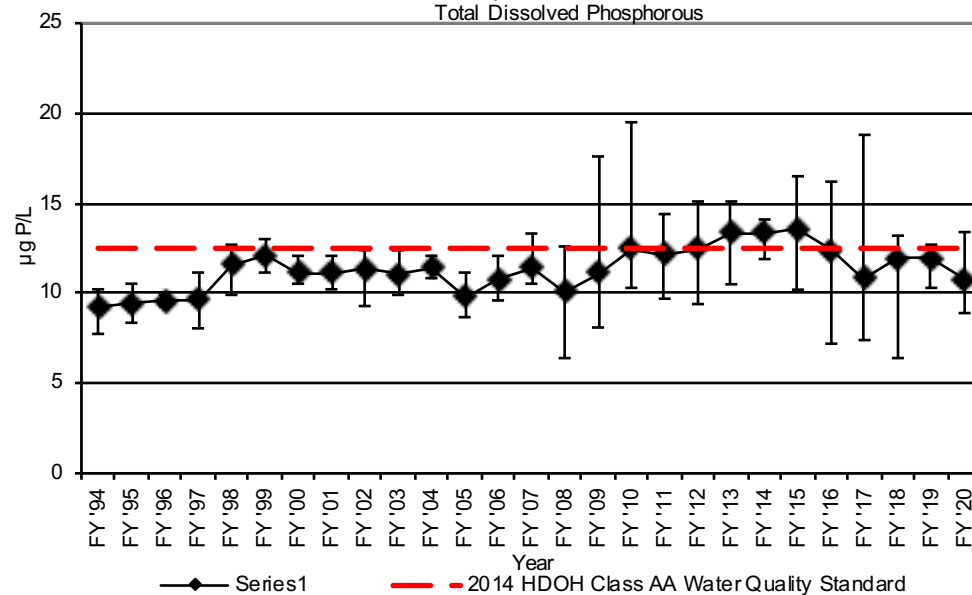
NELHA Offshore Transect 3, Station 1

Yearly Geometric Mean of Nitrate + Nitrite



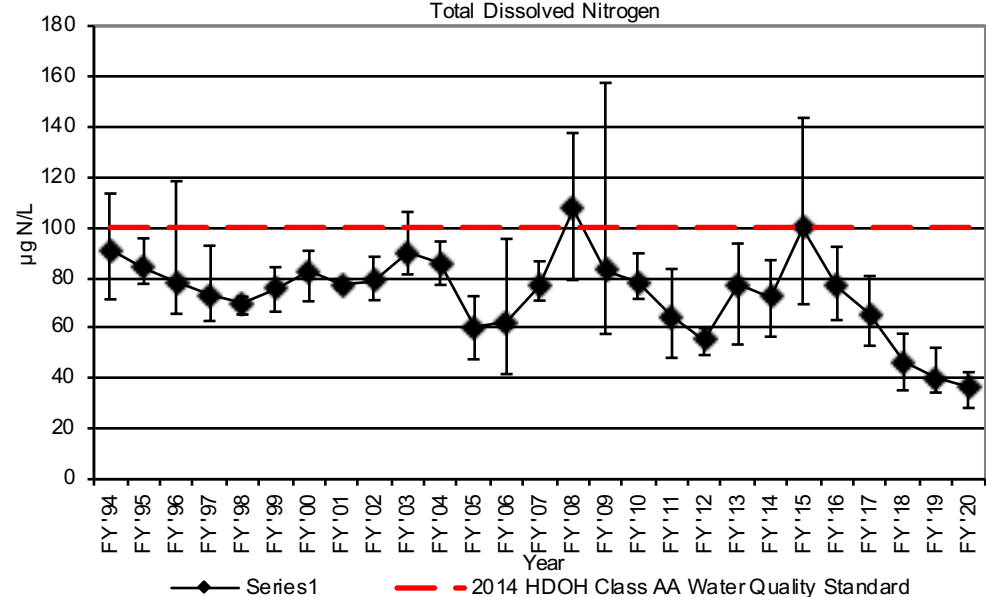
NELHA Offshore Transect 3, Station 1

Yearly Geometric Mean of
Total Dissolved Phosphorous



NELHA Offshore Transect 3, Station 1

Yearly Geometric Mean of
Total Dissolved Nitrogen



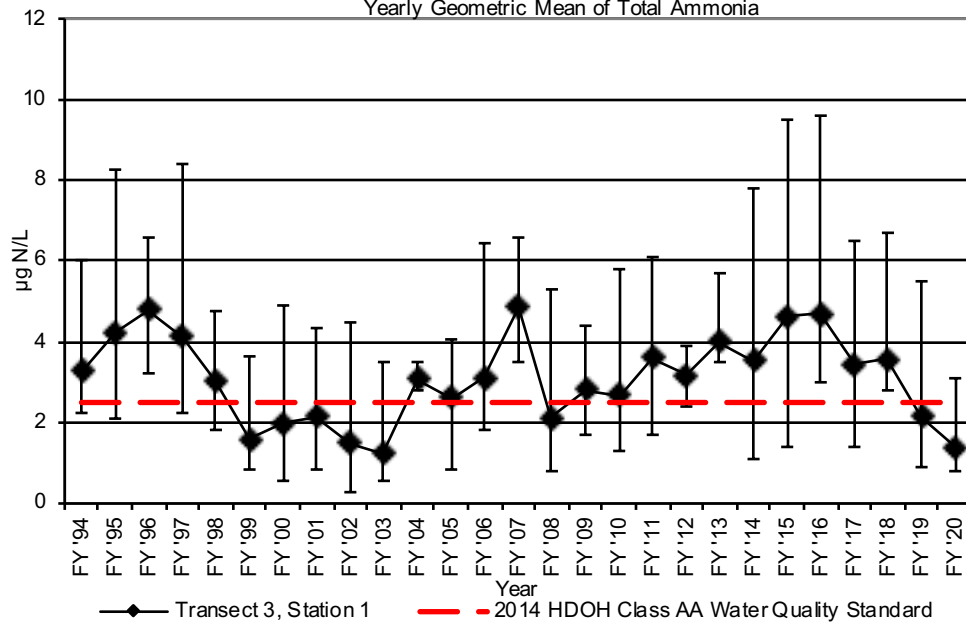
NELHA Water Quality Laboratory

Transect 3, Station 1

8/3/1993 - 7/16/20

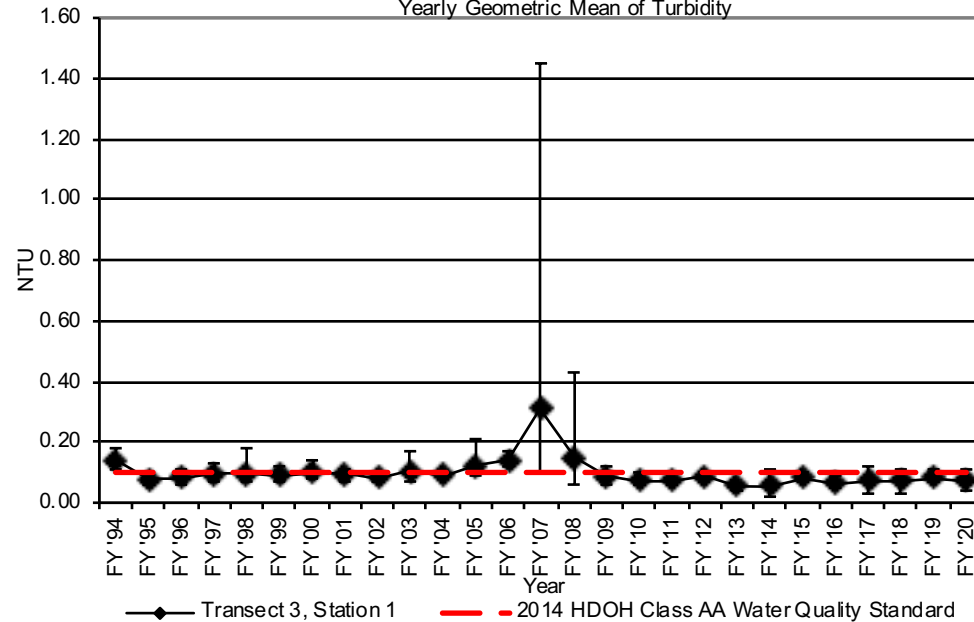
NELHA Offshore Transect 3, Station 1

Yearly Geometric Mean of Total Ammonia



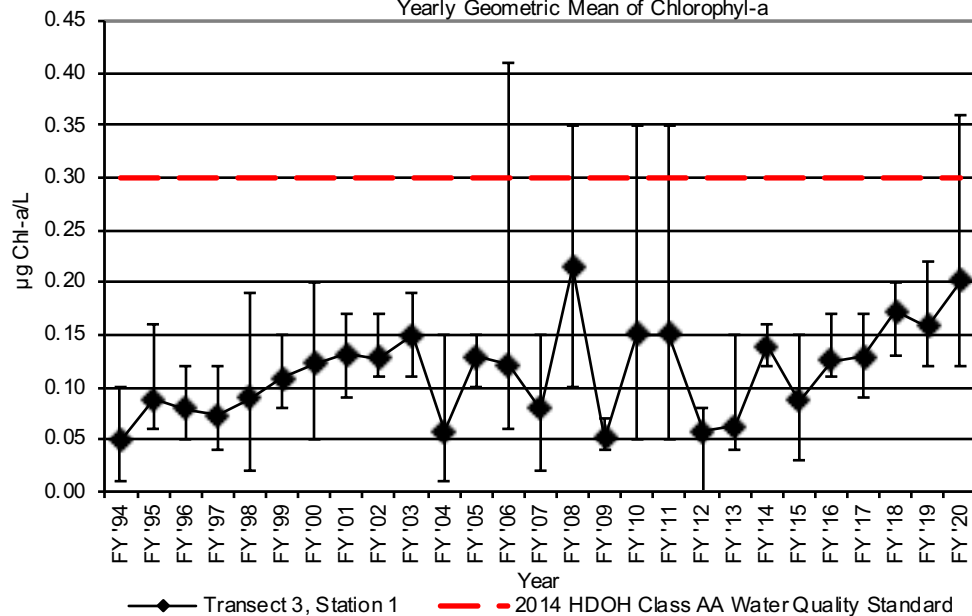
NELHA Offshore Transect 3, Station 1

Yearly Geometric Mean of Turbidity



NELHA Offshore Transect 3, Station 1

Yearly Geometric Mean of Chlorophyll-a



NELHA Water Quality Laboratory

Transect 3, Station 3

8/3/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O3-3S-38m	8/3/93	1039	0.12	3.7	0.12	1.7	0.35	4.9	2.5	70					0.07	34.472	26.9			
O3-3S-38m	12/8/93	1052	0.10	3.1	0.14	2.0	0.11	1.5	2.8	78					0.10	34.796	25.7			
O3-3S-38m	3/8/94	1015	0.19	5.9	0.31	4.3	0.26	3.6	3.5	98					0.07	34.213	25.1			
O3-3S-38m	6/13/94	1006	0.12	3.7	0.30	4.2	0.06	0.8	5.7	160					0.12	34.527	25.6			
Geomean	FY '94		4.0		2.8		2.2								0.09					
O3-3S-38m	9/8/94	850	0.08	2.5	0.09	1.3	0.20	2.8	2.0	55					0.10	34.624	27.6			
O3-3S-38m	11/15/94	927	0.16	5.0	0.41	5.7	0.61	8.5	4.3	122					0.07	34.581	26.0			
O3-3S-38m	3/21/95	823	0.20	6.2	0.12	1.7	0.06	0.8	4.7	132					0.09	34.226	24.9			
O3-3S-38m	6/21/95	945	0.08	2.5	0.07	1.0	0.35	4.9	2.7	77					0.08	34.478	26.3			
Geomean	FY '95		3.7		1.9		3.2								0.08					
O3-3S-38m	9/25/95	1220	0.17	5.3	0.29	4.1	0.34	4.8	4.3	120					0.14	34.492	27.3			
O3-3S-38m	11/13/95	835	0.14	4.3	0.14	2.0	0.50	7.0	8.7	245					0.05	34.395	26.7			
O3-3S-38m	3/11/96	1216	0.13	4.0	0.23	3.2	0.41	5.7	2.2	61					0.12	34.202	25.5			
O3-3S-38m	5/13/96	1120	0.10	3.1	0.09	1.3	0.17	2.4	2.7	76					0.12	34.297	27.2			
Geomean	FY '96		4.1		2.4		4.6								0.10					
O3-3S-38m	7/30/96	1040	0.11	3.4	0.55	7.7	0.31	4.3	4.1	114					0.10	34.422	28.4			
O3-3S-38m	10/1/96	919	0.07	2.2	0.01	0.1	0.66	9.2	2.2	63					0.11	34.689	27.9			
O3-3S-38m	1/6/97	921	0.12	3.7	0.77	10.8	0.18	2.5	4.3	120					0.07	34.661	25.3			
O3-3S-38m	4/21/97	903	0.11	3.4	1.23	17.2	0.27	3.8	8.6	240					0.09	34.534	26.4			
Geomean	FY '97		3.1		3.8		4.4								0.09					
O3-3S-38m	8/18/97	858	0.11	3.4	0.37	5.2	0.19	2.7	4.0	112					0.10	34.620	27.0			
O3-3S-38m	10/6/97	916	0.10	3.1	0.01	0.1	0.27	3.8	2.5	71					0.07	34.708	27.5			
O3-3S-38m	3/3/98	918	0.08	2.5	0.13	1.8	0.27	3.8	5.2	146					0.07	35.028	24.9			
O3-3S-38m	5/4/98	1229	0.09	2.8	0.05	0.7	0.09	1.3	2.8	77					0.07	35.086	24.0			
Geomean	FY '98		2.9		1.0		2.6								0.08					
O3-3S-38m	7/6/98	935	0.12	3.7	0.58	8.1	0.06	0.8	5.6	157					0.08	34.944	26.2			
O3-3S-38m	10/5/98	910	0.06	1.9	0.01	0.1	0.04	0.6	1.4	38					0.07	35.117	27.2			
O3-3S-38m	1/13/99	911	0.07	2.2	0.21	2.9	0.26	3.6	2.9	82					0.06	35.089	24.8			
O3-3S-38m	4/13/99	906	0.17	5.3	0.60	8.4	0.11	1.5	4.4	122					0.08	34.617	24.2			
Geomean	FY '99		3.0		2.3		1.3								0.07					

NELHA Water Quality Laboratory

Transect 3, Station 3

8/3/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (μM) (μg P/L)		TDN (μM) (μg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (μg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O3-3S-38m	7/13/99	937	0.12	3.7	0.31	4.3	0.02	0.3	3.6	101					0.08	34.898	26.0			
O3-3S-38m	10/25/99	922	0.12	3.7	0.56	7.8	0.31	4.3	4.0	112					0.08	34.935	26.1			
O3-3S-38m	1/4/00	932	0.11	3.4	0.54	7.6	0.33	4.6	3.8	106					0.08	35.065	24.8			
O3-3S-38m	5/16/00	1002	0.15	4.6	0.26	3.6	0.05	0.7	4.0	111					0.08	34.671	25.3			
Geomean	FY '00		3.8		5.5		1.4								0.08					
O3-3S-38m	7/24/00	942	0.11	3.4	0.29	4.1	0.01	0.1	2.7	74					0.07	34.874	27.3			
O3-3S-38m	10/30/00	950	0.12	3.7	0.04	0.6	0.31	4.3	3.5	99					0.08	34.986	27.0			
O3-3S-38m	2/26/01	953	0.16	5.0	0.22	3.1	0.16	2.2	4.2	117					0.07	34.729	24.8			
O3-3S-38m	5/8/01	917	0.13	4.0	0.67	9.4	0.20	2.8	4.1	116					0.07	34.769	24.8			
Geomean	FY '01		4.0		2.8		1.4								0.07					
O3-3S-38m	8/13/01	940	0.10	3.1	0.06	0.8	0.29	4.1	3.0	85					0.13	34.885	26.6			
O3-3S-38m	10/10/01	924	0.14	4.3	0.08	1.1	0.01	0.1	5.7	161					0.07	34.930	27.4			
O3-3S-38m	3/4/02	1056	0.14	4.3	0.53	7.4	0.02	0.3	4.5	126					0.11	34.648	24.2			
O3-3S-38m	4/16/02	1107	0.19	5.9	0.47	6.6	0.44	6.2	5.4	151					0.08	34.396	25.8			
Geomean	FY '02		4.3		2.6		1.0								0.09					
O3-3S-38m	7/9/02	957	0.13	4.0	0.31	4.3	0.14	2.0	4.3	121					0.07	34.635	26.6			
O3-3S-38m	10/7/02	1051	0.08	2.5	0.29	4.1	0.22	3.1	5.4	150					0.11	34.918	27.1			
O3-3S-38m	3/10/03	1021	0.12	3.7	0.10	1.4	0.04	0.6	2.4	67					0.13	34.825	24.8			
O3-3S-38m	4/22/03	1001	0.08	2.5	0.29	4.1	0.06	0.8	2.2	63					0.08	35.011	25.1			
Geomean	FY '03		3.1		3.2		1.3								0.09					
O3-3S-38m	8/19/03	1057	0.06	1.9	0.01	0.1	0.20	2.8	1.4	40					0.07	34.874	28.1			
O3-3S-38m	10/30/03	833	0.09	2.8	0.02	0.3	0.20	2.8	1.9	52					0.11	34.816	27.4			
O3-3S-38m	3/17/04	942	0.12	3.7	0.01	0.1	0.20	2.8	3.9	110					n/a	34.356	26.0			
O3-3S-38m	5/20/04	1115	0.12	3.7	0.01	0.1	0.17	2.4	1.7	47					n/a	33.46	26.7			
Geomean	FY '04		2.9		0.2		2.7								0.09					
O3-3S-38m	9/20/04	1041	0.07	2.2	0.01	0.1	0.26	3.6	2.0	55					0.08	33.68	28.0			
O3-3S-38m	11/17/04	1013	0.06	1.9	0.01	0.1	0.12	1.7	1.6	44					0.06	33.66	27.2			
O3-3S-38m	1/13/05	1135	0.04	1.2	0.06	0.8	0.14	2.0	1.8	51					0.07	34.870	24.8			
O3-3S-38m	4/11/05	1148	0.13	4.0	0.52	7.3	0.18	2.5	3.7	103					0.12	34.460	25.2			
Geomean	FY '05		2.1		0.6		2.3								0.08					

NELHA Water Quality Laboratory

Transect 3, Station 3

8/3/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O3-3S-38m	7/20/05	1132	0.09	2.8	0.26	3.6	0.17	2.4	3.4	95					0.14	34.688	26.5			
O3-3S-38m	10/11/05	1022	0.05	1.5	0.01	0.1	0.18	2.5	1.3	36					0.10	34.868	27.4			
O3-3S-38m	3/14/06	846	0.10	3.1	0.07	1.0	0.26	3.6	9.1	256					0.09	34.867	24.4			
O3-3S-38m	5/15/06	1053	0.15	4.6	0.11	1.5	0.13	1.8	1.6	45					0.16	34.756	24.9			
Geomean	FY '06		2.8		0.9		2.5								0.12					
O3-3S-38m	8/14/06	1053	0.13	4.0	0.14	2.0	0.24	3.4	3.1	86					0.10	34.593	26.7			
O3-3S-38m	11/1/06	1100	0.09	2.8	0.13	1.8	0.37	5.2	2.0	56					0.36	34.801	27.3			
O3-3S-38m	2/12/07	1119	0.12	3.7	0.08	1.1	0.28	3.9	1.3	37					0.15	34.462	24.7			
O3-3S-38m	4/9/07	1053	0.21	6.5	0.37	5.2	0.27	3.8	4.0	113					0.18	34.622	25.4			
Geomean	FY '07		4.1		2.1		4.0								0.18					
T3-50m	9/26/07	1047	0.12	3.7	0.37	5.2	0.44	6.2	4.0	113	0.42	13.0	8.7	121	0.11	34.964	26.8	8.22	6.35	0.07
T3-50m	12/13/07	1206	0.08	2.5	0.28	3.9			8.3	232	0.37	11.6	5.6	78	0.08	34.694	25.9	8.23	6.54	0.25
T3-50m	3/10/08	1053	0.14	4.4	0.76	10.7	0.06	0.8	22.9	644	0.42	13.1	7.1	99	0.50	34.872	24.9	8.17	6.83	0.24
T3-50m	6/5/08	1057	0.14	4.2	0.44	6.1	0.16	2.2	15.6	437	0.32	9.8	10.6	149	0.05	34.7972	25.3	8.15	6.68	0.2
Geomean	FY '08		3.6		6.0		2.2				11.8		109		0.12					0.17
T3-50m	9/22/08	1154	0.30	9.2	0.11	1.6	0.16	2.2	2.3	64	0.76	23.6	4.0	57	0.16	34.830	26.6	8.04	6.34	0.09
T3-50m	11/17/08	1035	0.16	5	0.16	2.2	0.14	1.9	2.4	66	0.37	11.5	6.1	86	0.09	34.968	26.2	8.26	5.75	0.02
T3-50m	2/9/09	1043	0.13	4	0.83	11.6	0.12	1.7	3.1	86	0.25	7.8	5.4	76	0.14	35.066	24.9	8.05	6.23	0.07
T3-50m	4/13/09	1021	0.23	7	0.29	4	0.25	3.5	2.9	83	0.50	15.4	6.0	84	0.10	34.940	23.9	8.20	6.80	0.07
Geomean	FY '09		6.0		3.6		2.2				13.4		75		0.12					0.05
T3-50m	9/9/09	1046	0.16	4.9	0.08	1.1	0.35	4.9	4.6	129	0.53	16.3	5.1	71	0.02	35.24	27.5	8.22	5.46	0.1
T3-50m	11/23/09	1050	0.03	0.8	0.26	3.6	0.11	1.5	11.7	328	0.44	13.5	4.2	59	0.06	35.24	25.3	8.30	6.32	0.08
T3-50m	2/23/10	1056	0.17	5.2	0.20	2.8	0.44	6.1	14.4	404	0.40	12.5	6.3	88	0.16	35.10	24.7	8.17	6.10	0.37
T3-50m	5/25/10	1002	0.06	1.8	0.41	5.8	0.11	1.5	2.8	79	0.29	9.1	4.3	60	0.05	34.97	25.0	8.21	6.96	0.09
Geomean	FY '10		2.5		2.8		2.9				12.6		69		0.06					0.13
T3-50m	8/10/10	1055	0.07	2.3	0.99	13.8	0.12	1.7	4.4	125	0.26	8.2	4.1	57	0.07	34.81	26.28	8.24	6.50	0.09
T3-50m	11/8/10	1034	0.04	1.3	0.31	4.4	0.33	4.6	9.6	269	0.39	12.1	4.7	66	0.10	35.35	26.67	8.27	6.24	0.04
T3-50m	1/11/11	1050	0.14	4.2	0.20	2.8	0.19	2.6	3.4	96	0.44	13.6	4.7	66	0.04	34.98	24.97	8.22	6.52	0.15
T3-50m	4/26/11	1053	0.14	4.2	0.31	4.4	0.22	3.1	8.0	226	0.45	14	3.9	55	0.07	34.98	25.02	8.21	6.53	0.08
Geomean	FY '11		2.7		5.2		2.8				11.7		61		0.07					0.08

NELHA Water Quality Laboratory

Transect 3, Station 3

8/3/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
T3-50m	7/26/11	1126	0.20	6.3	0.31	4.3	0.44	6.1	2.0	56	0.47	14.7	4.3	61	0.04	34.80	26.05	8.27	6.62	0.07
T3-50m	10/18/11	1042	0.02	0.6	0.10	1.4	0.16	2.2	2.0	56	0.30	9.2	3.6	50	0.04	35.06	26.81	8.24	7.08	0.07
T3-50m	1/25/12	1110	0.09	2.9	0.26	3.7	0.12	1.7	2.3	66	0.38	11.9	3.6	50	0.09	35.01	24.78	8.21	7.04	0.01
T3-50m	4/24/12	1138	0.16	4.9	0.64	9	0.33	4.6	3.2	89	0.42	13	4.0	56	0.10	35.05	25.04	8.22	6.93	0.18
Geomean	FY '12		2.7		3.8		3.2				12.0		54		0.06					0.05
T3-50m	7/24/12	1051	0.06	1.9	0.29	4	0.30	4.2	1.4	40	0.32	9.8	3.9	55	0.07	35.06	26.39	8.24	6.98	0.07
T3-50m	11/27/12	1033	0.09	2.8	0.41	5.8	0.27	3.8	2.2	62	0.38	11.8	4.2	59	0.04	35.20	25.06	8.21	6.91	0.04
T3-50m	1/23/13	1045	0.09	2.8	0.35	4.9	0.24	3.3	2.8	78	0.43	13.4	4.3	60	0.04	35.07	24.78	8.22	6.44	0.04
T3-50m	4/16/13	1053	0.16	5	0.74	10.4	0.16	2.2	2.8	80	0.48	14.9	5.9	82	0.08	35.10	25.00	8.20	6.88	0.08
Geomean	FY '13		2.9		5.9		3.3				12.3		63		0.05					0.05
T3-50m	8/1/13	1000	0.04	1.2	0.16	2.2	0.12	1.7	2.4	67	0.45	13.9	6.6	92	0.08	35.28	26.3	8.26	6.89	0.19
T3-50m	10/29/13	1029	0.13	4.0	0.38	5.3	0.40	5.6	2.5	71	0.45	13.9	5.1	71	0.02	35.25	27.1	8.22	6.43	0.21
T3-50m	2/4/14	1044	0.12	3.6	0.59	8.3	0.49	6.8	2.0	56	0.37	11.5	4.2	58	0.02	35.09	25.2	8.20	6.46	0.25
T3-50m	5/6/14	1049	0.12	3.7	0.56	7.9	0.23	3.2	4.3	121	0.42	13.1	6.3	89	0.08	34.74	25.9	8.19	6.35	0.18
Geomean	FY '14		2.8		5.3		3.8				13.1		76		0.04					0.21
T3-50m	8/5/14	1040	0.20	6.2	0.10	1.4	0.38	5.3	1.0	28	0.49	15.3	5.3	74	0.16	34.94	26.7	8.23	6.00	0.13
T3-50m	11/17/14	1217	0.17	5.3	0.14	2.0	0.35	4.9	0.0	0	0.46	14.4	5.5	78	0.07	34.95	27.3	8.22	6.74	0.16
T3-50m	3/3/15	1047	0.04	1.1	0.06	0.8	0.16	2.3	0.7	21	0.30	9.4	6.3	88	0.09	34.87	25.5	8.18	6.99	0.13
T3-50m	6/16/15	1259	0.09	2.9	1.03	14.4	0.46	6.4	2.7	76	0.32	9.9	7.5	106	0.05	34.23	26.9	8.23	6.30	0.17
Geomean	FY '15		3.2		2.4		4.4				12.0		85		0.08					0.15
T3-50m	8/26/15	1035	0.15	4.7	0.07	1.0	0.21	2.9	3.1	86	0.37	11.6	3.8	53	0.02	34.38	28.5	8.22	6.04	0.31
T3-50m	11/17/15	1102	0.15	4.7	0.46	6.4	0.19	2.6	4.0	111	0.52	16.2	5.6	78	0.06	34.00	27.4	8.23	6.39	0.15
T3-50m	3/1/16	1110	0.18	5.6	0.48	6.7	0.39	5.4	0.1	3	0.49	15.3	3.8	53	0.07	34.79	25.4	8.24	5.97	0.13
T3-50m	5/3/16	1032	0.07	2.3	0.18	2.5	0.16	2.3	0.6	16	0.46	14.3	11.2	157	0.07	34.67	25.8	8.27	6.41	0.19
Geomean	FY '16		4.1		3.2		3.1				14.2		77		0.05					0.18
T3-50m	7/6/16	1158	0.08	2.4	0.22	3.1	0.31	4.4	0.2	6	0.40	12.3	3.0	43	0.09	34.63	27.3	8.29	6.70	0.20
T3-50m	12/20/16	1124	0.05	1.7	0.19	2.6	0.25	3.5	1.5	41	0.34	10.4	2.9	41	0.03	34.74	25.6	8.28	5.95	0.17
T3-50m	2/28/17	1014	0.03	1.0	0.49	6.9	0.11	1.6	1.0	29	0.33	10.3	4.5	63	0.10	34.65	24.7	8.21	5.57	0.14
T3-50m	5/10/17	1004	0.04	1.2	0.08	1.1	0.09	1.2	0.4	12	0.23	7.0	3.0	42	0.06	34.81	25.8	8.21	4.11	0.04
Geomean	FY '17		1.5		2.8		2.3				9.8		46		0.06					0.12

NELHA Water Quality Laboratory

Transect 3, Station 3

8/3/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
T3-50m	9/27/17	1150	0.14	4.2	0.23	3.2	0.19	2.7	0.9	26	0.41	12.7	3.1	44	0.11	34.79	27.9	8.20	4.22	0.16
T3-50m	11/28/17	1158	0.11	3.3	0.31	4.3	0.58	8.1	1.8	51	0.38	11.9	5.0	70	0.10	35.06	26.3	8.21	4.75	0.14
T3-50m	1/30/18	1145	0.12	3.8	0.35	4.9	0.39	5.4	3.1	86	0.40	12.5	4.1	57	0.07	34.82	24.6	8.17	5.36	0.10
T3-50m	5/16/18	1134	0.11	3.4	0.16	2.2	0.23	3.2	2.6	73	0.36	11.2	2.9	40	0.04	34.69	25.9	8.18	6.28	0.12
Geomean	FY '18		3.7		3.5		4.4				12.1		52		0.07					0.13
T3-50m	9/24/18	1115	0.04	1.3	0.18	2.5	0.32	4.5	0.1	3	0.48	14.9	1.9	27	0.07	34.81	27.9	8.16	5.07	0.13
T3-50m	11/13/18	1135	0.05	1.4	0.30	4.2	0.24	3.3	0.2	4	0.32	9.9	3.2	45	0.07	34.99	27.6	8.24	4.71	0.10
T3-50m	1/22/19	1119	0.10	3.0	0.06	0.8	0.09	1.3	0.1	2	0.38	11.9	2.5	35	0.05	35.02	25.2	8.22	5.70	0.14
T3-50m	4/16/19	1127	0.14	4.3	0.36	5.1	0.09	1.2	3.3	93	0.38	11.7	3.0	43	0.06	35.54	26.0	8.16	7.33	0.17
Geomean	FY '19		2.2		2.6		2.2				12.0		36		0.06					0.13
T3-50m	8/13/19	1111	0.05	1.6	0.16	2.3	0.22	3.1	2.6	74	0.30	9.2	2.4	34	0.09	35.63	28.3	8.19	6.74	0.18
T3-50m	11/19/19	1033	0.12	3.7	0.26	3.6	0.04	0.5	0.7	18	0.42	12.9	3.0	42	0.08	34.78	27.6	8.25	6.61	0.16
T3-50m	1/22/20	1058	0.11	3.4	0.01	0.1	0.09	1.3	0.7	21	0.40	12.4	2.4	34	0.04	34.94	25.1	8.22	6.69	0.17
T3-50m	6/24/20	1123	0.09	2.9	0.16	2.3	0.09	1.3	2.1	59	0.32	9.8	2.6	36	0.07	35.49	26.0	8.18	6.83	0.28
Geomean	FY '20		2.8		1.2		1.2				11.0		36		0.07					0.19

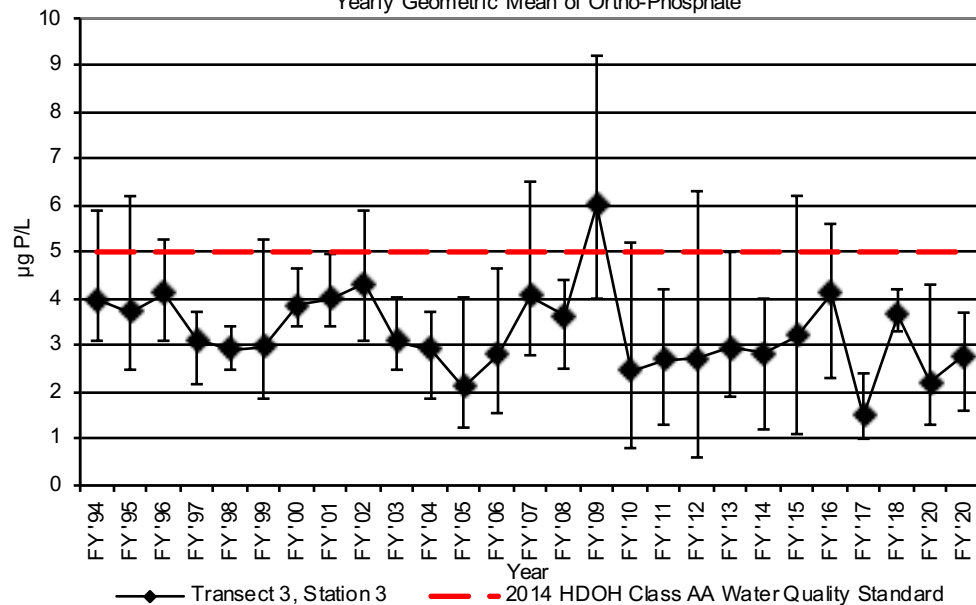
NELHA Water Quality Laboratory

Transect 3, Station 3

8/3/1993 - 7/16/20

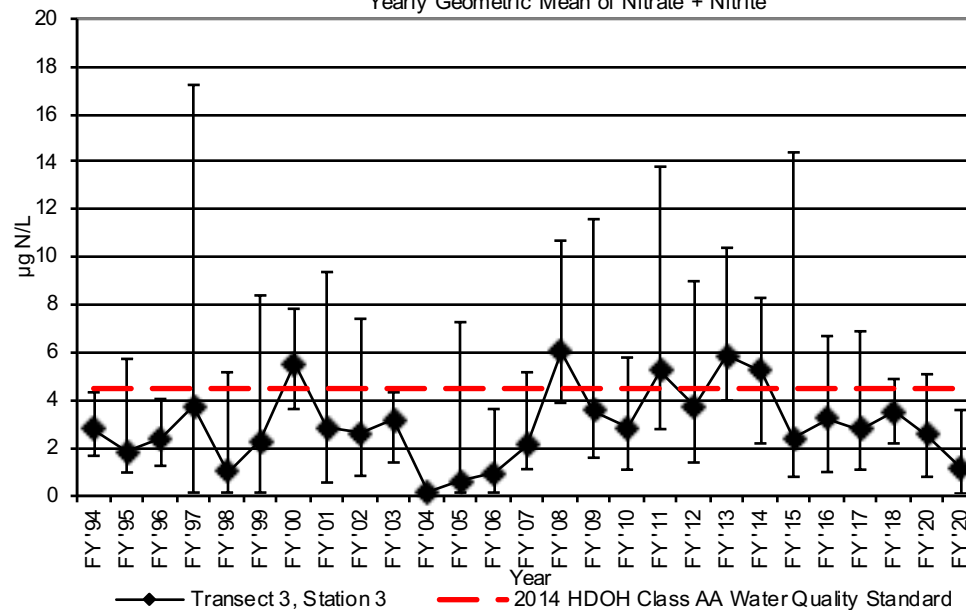
NELHA Offshore Transect 3, Station 3

Yearly Geometric Mean of Ortho-Phosphate



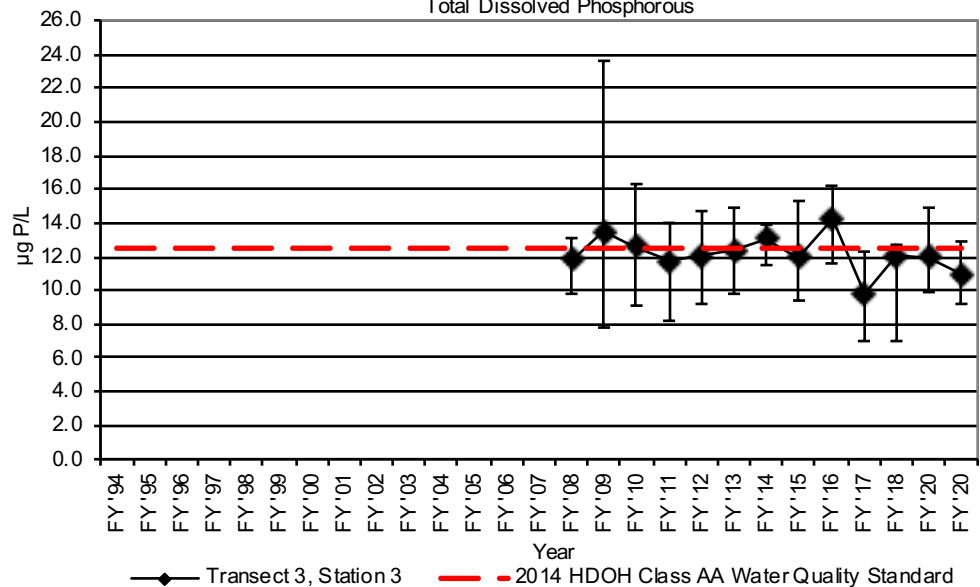
NELHA Offshore Transect 3, Station 3

Yearly Geometric Mean of Nitrate + Nitrite



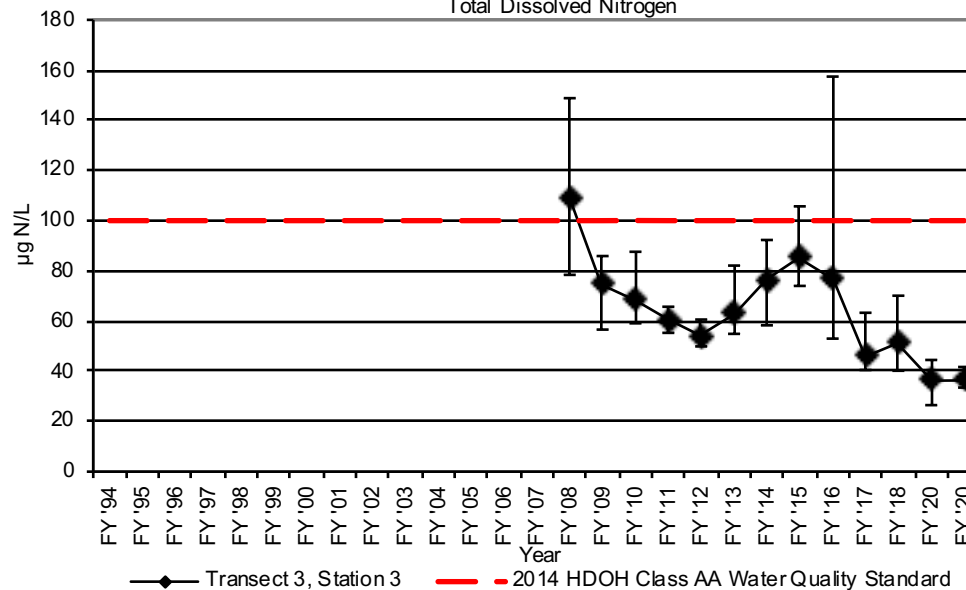
NELHA Offshore Transect 3, Station 3

Yearly Geometric Mean of
Total Dissolved Phosphorous



NELHA Offshore Transect 3, Station 3

Yearly Geometric Mean of
Total Dissolved Nitrogen



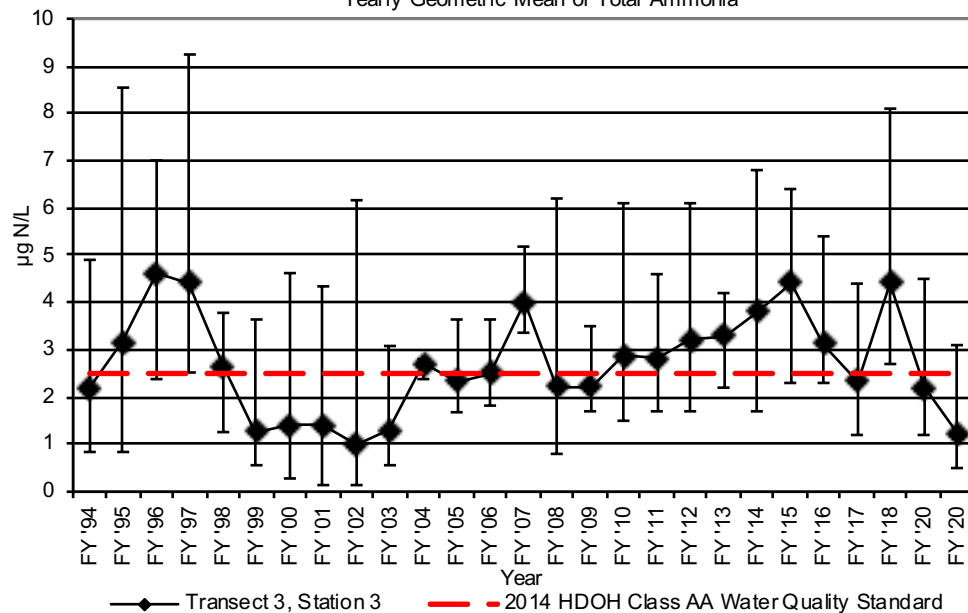
NELHA Water Quality Laboratory

Transect 3, Station 3

8/3/1993 - 7/16/20

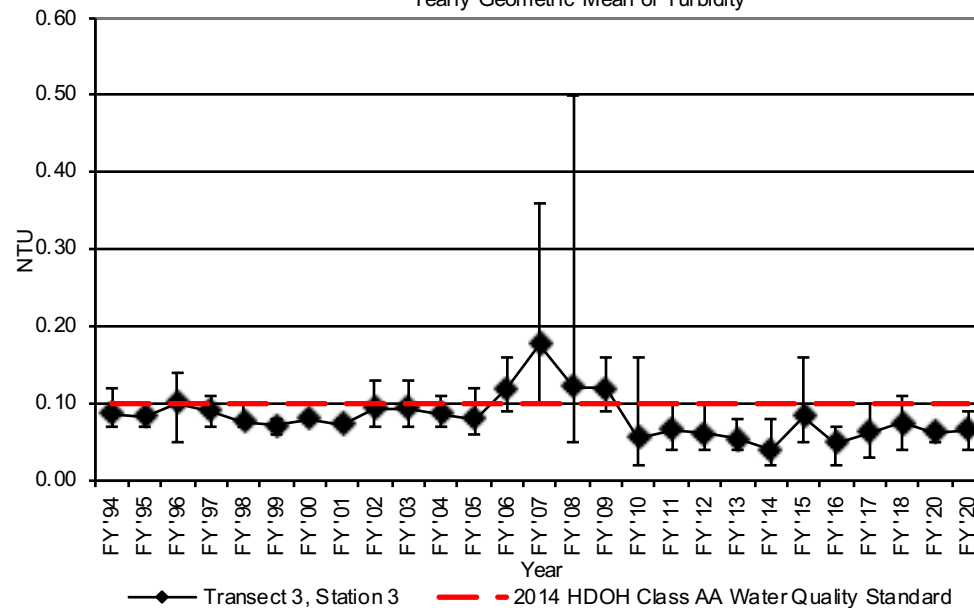
NELHA Offshore Transect 3, Station 3

Yearly Geometric Mean of Total Ammonia



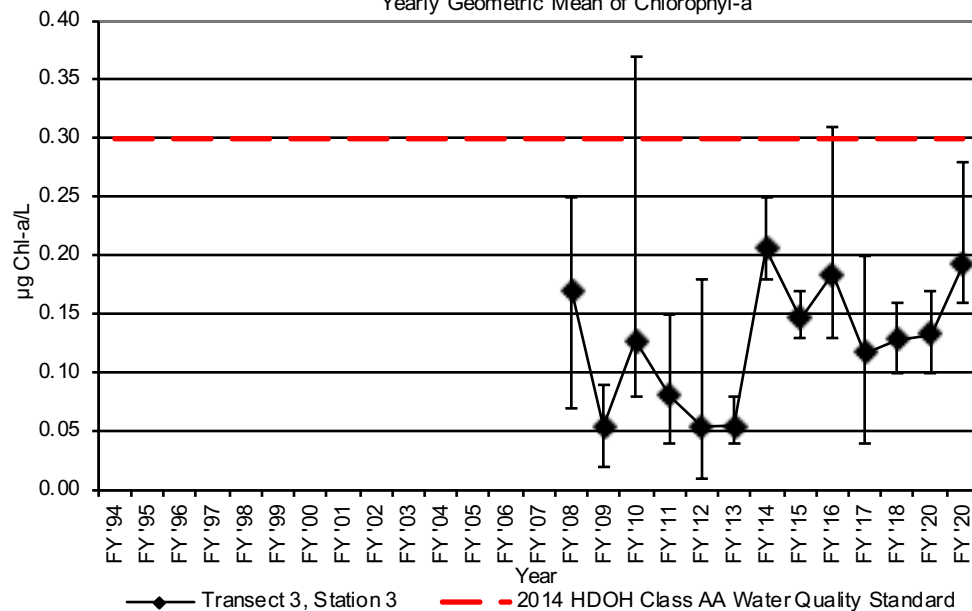
NELHA Offshore Transect 3, Station 3

Yearly Geometric Mean of Turbidity



NELHA Offshore Transect 3, Station 3

Yearly Geometric Mean of Chlorophyll-a



NELHA Water Quality Laboratory

Transect 3, Station 4

8/3/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (μM) (μg P/L)		TDN (μM) (μg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (μg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O3-4S-53m	8/3/93	1028	0.10	3.1	0.21	2.9	0.35	4.9	2.9	82					0.07	34.503	26.8			
O3-4S-53m	12/8/93	1044	0.12	3.7	0.14	2.0	0.11	1.5	4.7	132					0.07	34.790	25.7			
O3-4S-53m	3/8/94	1004	0.21	6.5	0.46	6.4	0.24	3.4	3.4	95					0.08	34.194	25.1			
O3-4S-53m	6/13/94	1000	0.11	3.4	0.13	1.8	0.11	1.5	4.4	124					0.09	34.537	25.6			
Geomean	FY '94		4.0		2.9		2.5								0.08					
O3-4S-53m	9/8/94	844	0.07	2.2	0.02	0.3	0.20	2.8	1.8	50					0.06	34.630	27.6			
O3-4S-53m	11/15/94	923	0.16	5.0	0.49	6.9	0.56	7.8	4.6	130					0.08	34.565	26.0			
O3-4S-53m	3/21/95	813	0.18	5.6	0.08	1.1	0.09	1.3	2.7	75					0.09	34.228	25.0			
O3-4S-53m	6/21/95	938	0.09	2.8	0.07	1.0	0.35	4.9	4.0	112					0.07	34.484	26.3			
Geomean	FY '95		3.6		1.2		3.4								0.07					
O3-4S-53m	9/25/95	1234	0.12	3.7	0.37	5.2	0.21	2.9	6.0	167					0.18	34.438	27.3			
O3-4S-53m	11/13/95	842	0.14	4.3	0.16	2.2	0.54	7.6	1.8	49					0.07	34.389	26.7			
O3-4S-53m	3/11/96	1210	0.12	3.7	0.22	3.1	0.40	5.6	2.1	59					0.07	34.205	25.5			
O3-4S-53m	5/13/96	1115	0.10	3.1	0.03	0.4	0.14	2.0	2.3	63					0.06	34.308	27.2			
Geomean	FY '96		3.7		2.0		4.0								0.09					
O3-4S-53m	7/30/96	1035	0.11	3.4	0.44	6.2	0.29	4.1	4.8	135					0.09	34.421	28.4			
O3-4S-53m	10/1/96	914	0.07	2.2	0.01	0.1	0.62	8.7	2.3	65					0.08	34.686	27.9			
O3-4S-53m	1/6/97	916	0.11	3.4	0.52	7.3	0.17	2.4	3.7	103					0.08	34.680	25.5			
O3-4S-53m	4/21/97	858	0.09	2.8	0.88	12.3	0.20	2.8	2.3	63					0.10	34.565	26.4			
Geomean	FY '97		2.9		3.0		3.9								0.09					
O3-4S-53m	8/18/97	854	0.10	3.1	0.27	3.8	0.23	3.2	3.6	100					0.09	34.624	27.0			
O3-4S-53m	10/6/97	911	0.10	3.1	0.02	0.3	0.30	4.2	2.4	68					0.07	34.702	27.4			
O3-4S-53m	3/3/98	912	0.09	2.8	0.10	1.4	0.21	2.9	2.3	64					0.07	35.029	24.8			
O3-4S-53m	5/4/98	1219	0.09	2.8	0.03	0.4	0.11	1.5	3.4	95					0.08	35.076	24.0			
Geomean	FY '98		2.9		0.9		2.8								0.08					
O3-4S-53m	7/6/98	928	0.10	3.1	0.39	5.5	0.02	0.3	5.3	149					0.08	34.954	26.2			
O3-4S-53m	10/5/98	905	0.06	1.9	0.01	0.1	0.03	0.4	2.6	74					0.06	35.121	27.3			
O3-4S-53m	1/13/99	907	0.08	2.5	0.13	1.8	0.15	2.1	3.2	89					0.08	35.090	24.9			
O3-4S-53m	4/13/99	902	0.17	5.3	0.40	5.6	0.11	1.5	7.2	203					0.13	34.621	24.2			
Geomean	FY '99		2.9		1.7		0.8								0.08					

NELHA Water Quality Laboratory

Transect 3, Station 4

8/3/1993 - 7/16/20

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		Turbidity	Salinity	Temp.	pH	DO	Chl a
	M/D/Y	(2400)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg N/L)	(μM)	(μg Si/L)	(μM)	(μg P/L)	(μM)	(μg N/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(μg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O3-4S-53m	7/13/99	932	0.12	3.7	0.16	2.2	0.03	0.4	3.1	87					0.09	34.911	26.1			
O3-4S-53m	10/25/99	918	0.12	3.7	0.42	5.9	0.31	4.3	3.5	98					0.13	34.939	26.1			
O3-4S-53m	1/4/00	927	0.10	3.1	0.51	7.1	0.33	4.6	4.4	123					0.08	35.080	24.8			
O3-4S-53m	5/16/00	958	0.12	3.7	0.24	3.4	0.09	1.3	3.2	89					0.06	34.685	25.5			
Geomean	FY '00		3.6		4.2		1.8								0.09					
O3-4S-53m	7/24/00	939	0.10	3.1	0.14	2.0	0.01	0.1	3.4	95					0.05	34.873	27.3			
O3-4S-53m	10/30/00	943	0.12	3.7	0.06	0.8	0.38	5.3	3.1	87					0.07	34.991	27.0			
O3-4S-53m	2/26/01	947	0.15	4.6	0.07	1.0	0.14	2.0	3.9	110					0.08	34.731	24.8			
O3-4S-53m	5/8/01	913	0.14	4.3	0.31	4.3	0.21	2.9	9.0	253					0.10	34.780	24.9			
Geomean	FY '01		3.9		1.6		1.4								0.07					
O3-4S-53m	8/13/01	935	0.10	3.1	0.01	0.1	0.24	3.4	4.3	121					0.04	34.873	26.7			
O3-4S-53m	10/10/01	918	0.13	4.0	0.09	1.3	0.04	0.6	3.3	93					0.08	34.929	27.4			
O3-4S-53m	3/4/02	1051	0.12	3.7	0.06	0.8	0.02	0.3	1.6	46					0.08	34.649	24.2			
O3-4S-53m	4/16/02	1102	0.15	4.6	0.15	2.1	0.44	6.2	4.5	125					0.07	34.443	25.8			
Geomean	FY '02		3.8		0.7		1.3								0.07					
O3-4S-53m	7/9/02	953	0.11	3.4	0.40	5.6	0.17	2.4	3.6	100					0.11	34.662	26.5			
O3-4S-53m	10/7/02	1046	0.08	2.5	0.02	0.3	0.18	2.5	3.4	97					0.06	34.938	27.1			
O3-4S-53m	3/10/03	1011	0.10	3.1	0.03	0.4	0.03	0.4	1.9	53					0.07	34.842	24.7			
O3-4S-53m	4/22/03	955	0.08	2.5	0.25	3.5	0.05	0.7	4.4	124					0.06	35.009	25.0			
Geomean	FY '03		2.8		1.2		1.2								0.07					
O3-4S-53m	8/19/03	1045	0.05	1.5	0.01	0.1	0.20	2.8	1.5	41					0.08	34.849	28.2			
O3-4S-53m	10/30/03	825	0.09	2.8	0.02	0.3	0.20	2.8	2.8	78					0.12	34.825	27.4			
O3-4S-53m	3/17/04	937	0.12	3.7	0.01	0.1	0.19	2.7	1.3	35					n/a	34.396	26.0			
O3-4S-53m	5/20/04	1119	0.12	3.7	0.01	0.1	0.22	3.1	1.3	36					n/a	33.45	26.9			
Geomean	FY '04		2.8		0.2		2.8								0.10					
O3-4S-53m	9/20/04	1034	0.09	2.8	0.01	0.1	0.30	4.2	1.9	53					0.06	33.72	28.1			
O3-4S-53m	11/17/04	1008	0.06	1.9	0.01	0.1	0.14	2.0	1.7	49					0.08	33.66	27.2			
O3-4S-53m	1/13/05	1130	0.06	1.9	0.38	5.3	0.12	1.7	2.7	75					0.08	34.820	25.0			
O3-4S-53m	4/11/05	1138	0.12	3.7	0.05	0.7	0.19	2.7	2.0	56					0.09	34.475	25.2			
Geomean	FY '05		2.4		0.5		2.5								0.08					

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		Turbidity	Salinity	Temp.	pH	DO	Chl a
---------	------	------	-------------------------------	--	---	--	--	--	----	--	-----	--	-----	--	-----------	----------	-------	----	----	-------

NELHA Water Quality Laboratory

Transect 3, Station 4

8/3/1993 - 7/16/20

M/D/Y	(2400)	(µM)	(µg P/L)	(µM)	(µg N/L)	(µM)	(µg N/L)	(µM)	(µg Si/L)	(µM)	(µg P/L)	(µM)	(µg N/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(µg/L)
DOH LIMIT		5		4.5		2.5				12.5		100		0.10					0.30
O3-4S-53m	7/20/05 1126	0.08	2.5	0.15	2.1	0.17	2.4	3.9	109					0.09	34.656	26.5			
O3-4S-53m	10/11/05 1017	0.05	1.5	0.01	0.1	0.18	2.5	1.3	37					0.10	34.887	27.5			
O3-4S-53m	3/14/06 842	0.09	2.8	0.04	0.6	0.28	3.9	3.2	89					0.10	34.877	24.4			
O3-4S-53m	5/15/06 1046	0.07	2.2	0.07	1.0	0.10	1.4	3.4	94					0.08	34.720	24.9			
Geomean	FY '06	2.2		0.6		2.4								0.09					
O3-4S-53m	8/14/06 1048	0.12	3.7	0.24	3.4	0.25	3.5	3.4	96					0.13	34.600	26.9			
O3-4S-53m	11/1/06 1053	0.08	2.5	0.20	2.8	0.34	4.8	2.3	63					1.00	34.792	27.4			
O3-4S-53m	2/12/07 1114	0.13	4.0	0.07	1.0	0.35	4.9	1.3	35					0.48	34.444	24.6			
O3-4S-53m	4/9/07 1047	0.12	3.7	0.10	1.4	0.22	3.1	3.2	90					0.18	34.671	25.4			
Geomean	FY '07	3.4		1.9		4.0								0.33					
T3-100m	9/26/07 1056	0.13	4.1	0.31	4.4	0.31	4.3	5.9	165	0.37	11.4	6.7	94	0.09	34.943	26.9	8.23	6.42	0.10
T3-100m	12/13/07 1212	0.07	2.2	0.07	1.0			5.2	147	0.36	11.1	5.2	73	0.08	34.730	26.0	8.23	6.34	0.25
T3-100m	3/10/08 1056	0.19	5.8	0.64	9.0	0.06	0.8	3.8	107	0.31	9.6	7.2	101	0.12	34.894	24.9	8.18	6.76	0.26
T3-100m	6/5/08 1101	0.06	2.0	0.13	1.8	0.16	2.2	17.0	479	0.24	7.4	6.1	85	0.06	34.8335	25.1	8.14	6.56	0.11
Geomean	FY '08	3.2		2.9		2.0				9.7		87		0.08					0.16
T3-100m	9/22/08 1159	0.62	19.1	0.06	0.8	0.10	1.4	1.9	55	1.54	47.7	4.9	68	0.11	34.805	26.7	8.03	6.52	0.07
T3-100m	11/17/08 1040	0.16	4.9	0.06	0.8	0.14	1.9	2.1	59	0.39	12.1	5.8	81	0.08	34.974	26.2	8.27	6.10	0.05
T3-100m	2/9/09 1048	0.10	3.1	0.54	7.6	0.12	1.7	2.2	62	0.23	7	5.2	73	0.08	35.094	25.1	8.05	6.27	0.02
T3-100m	4/13/09 1026	0.22	6.7	0.10	1.4	0.26	3.7	2.9	82	0.47	14.6	4.6	65	0.10	34.946	24.0	8.19	6.56	0.02
Geomean	FY '09	6.6		1.6		2.0				15.6		71		0.09					0.03
T3-100m	9/9/09 1056	0.21	6.4	0.04	0.5	0.16	2.2	7.4	209	0.56	17.5	5.5	77	0.06	35.20	27.6	8.21	5.48	0.11
T3-100m	11/23/09 1100	0.03	0.8	0.07	1	0.14	1.9	28.6	803	0.41	12.6	4.9	69	0.04	35.25	25.4	8.28	6.23	0.17
T3-100m	2/23/10 1100	0.15	4.6	0.04	0.5	0.34	4.8	9.9	277	0.40	12.5	6.2	87	0.15	35.09	24.9	8.17	6.14	0.44
T3-100m	5/25/10 1007	0.05	1.7	0.20	2.8	0.05	0.7	2.0	56	0.29	8.9	4.9	69	0.13	35.00	25.0	8.22	6.94	0.08
Geomean	FY '10	2.5		0.9		1.9				12.5		75		0.08					0.16
T3-100m	8/10/10 1100	0.01	0.4	0.07	1	0.05	0.7	2.4	66	0.27	8.3	2.6	37	0.09	34.92	26.24	8.24	6.59	0.09
T3-100m	11/8/10 1039	0.02	0.7	0.04	0.6	0.09	1.3	2.8	80	0.46	14.4	4.7	66	0.10	35.38	26.72	8.26	6.30	0.02
T3-100m	1/11/11 1056	0.13	4	0.26	3.6	0.02	0.3	7.8	220	0.43	13.4	4.1	57	0.04	34.96	24.97	8.22	6.42	0.07
T3-100m	4/26/11 1059	0.16	5.1	0.24	3.4	0.26	3.7	2.5	71	0.49	15.1	3.6	50	0.08	34.49	24.98	8.21	6.50	0.16
Geomean	FY '11	1.5		1.6		1.0				12.5		51		0.07					0.07

SITE ID	DATE	TIME	PO ₄ ³⁻	NO ₃ ⁻ & NO ₂ ⁻	NH ₄ ⁺ & NH ₃	Si	TDP	TDN	Turbidity	Salinity	Temp.	pH	DO	Chl a
	M/D/Y	(2400)	(µM) (µg P/L)	(µM) (µg N/L)	(µM) (µg N/L)	(µM) (µg Si/L)	(µM) (µg P/L)	(µM) (µg N/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(µg/L)

NELHA Water Quality Laboratory

Transect 3, Station 4

8/3/1993 - 7/16/20

DOH LIMIT			5		4.5		2.5		0.3/1993 - 7/10/20		12.5		100		0.10					0.30
T3-100m 7/26/11 1137			0.22	6.7	0.12	1.7	0.04	0.6	0.9	25	0.46	14.2	2.8	40	0.07	34.80	26.05	8.27	6.62	0.07
T3-100m 10/18/11 1047			0.02	0.7	0.06	0.9	0.14	1.9	1.6	45	0.32	9.8	3.9	55	0.08	35.06	26.81	8.24	7.08	0.07
T3-100m 1/25/12 1117			0.07	2.2	0.04	0.5	0.07	1	1.4	41	0.40	12.3	4.4	61	0.09	35.01	24.78	8.21	7.04	0.01
T3-100m 4/24/12 1150			0.10	3.1	0.02	0.3	0.26	3.6	0.6	16	0.38	11.9	2.9	41	0.10	35.05	25.04	8.22	6.93	0.18
Geomean FY '12			2.4		0.7		1.4				11.9		48		0.08					0.05
T3-100m 7/24/12 1055			0.03	0.8	0.11	1.6	0.11	1.6	1.2	33	0.36	11.3	4.8	67	0.06	35.06	26.39	8.25	6.84	0.13
T3-100m 11/27/12 1036			0.08	2.5	0.29	4.1	0.54	7.5	2.4	67	0.57	17.6	4.8	68	0.02	35.21	25.19	8.21	6.83	0.20
T3-100m 1/23/13 1050			0.10	3	0.66	9.2	0.36	5	4.8	134	0.45	14	5.4	75	0.07	35.09	24.73	8.22	6.29	0.07
T3-100m 4/16/13 1058			0.16	4.9	0.56	7.8	0.17	2.4	1.8	51	0.47	14.5	5.9	82	0.02	35.10	24.95	8.21	6.78	0.09
Geomean FY '13			2.3		4.7		3.5				14.2		73		0.04					0.11
T3-100m 8/1/13 1006			0.05	1.4	0.05	0.7	0.32	4.5	2.0	57	0.38	11.8	5.5	77	0.24	35.22	26.4	8.26	6.80	0.14
T3-100m 10/29/13 1035			0.11	3.3	0.36	5.0	0.31	4.4	2.3	65	0.44	13.6	5.3	74	0.02	35.26	27.1	8.20	6.47	0.19
T3-100m 2/4/14 1051			0.09	2.9	0.24	3.3	0.39	5.4	1.9	52	0.37	11.6	4.8	67	0.02	35.09	25.2	8.20	6.48	0.09
T3-100m 5/6/14 1055			0.14	4.2	0.51	7.2	0.18	2.5	4.2	118	0.44	13.7	5.8	81	0.04	34.73	26.0	8.20	6.15	0.20
Geomean FY '14			2.7		3.0		4.0				12.6		75		0.04					0.15
T3-100m 8/5/14 1044			0.18	5.5	0.03	0.4	0.26	3.6	0.4	11	0.49	15.2	3.9	55	0.12	34.93	26.8	8.22	5.90	0.12
T3-100m 11/17/14 1221			0.22	6.9	0.08	1.1	0.46	6.5	0.0	0	0.49	15.1	5.6	78	0.08	34.95	27.2	8.22	6.80	0.14
T3-100m 3/3/15 1055			0.07	2.3	0.06	0.8	0.21	3.0	0.3	9	0.33	10.2	6.8	96	0.10	34.86	25.8	8.19	6.96	0.07
T3-100m 6/16/15 1306			0.08	2.5	0.39	5.4	0.37	5.2	2.3	63	0.36	11.3	7.0	98	0.05	34.32	27.0	8.22	6.04	0.10
Geomean FY '15			3.8		1.2		4.4				12.8		80		0.08					0.10
T3-100m 8/26/15 1040			0.14	4.3	0.08	1.1	0.14	1.9	3.0	83	0.31	9.7	5.8	82	0.03	34.35	28.7	8.25	5.98	0.26
T3-100m 11/17/15 1108			0.16	4.9	0.51	7.2	0.10	1.4	4.1	116	0.54	16.8	5.9	83	0.06	34.01	27.5	8.25	6.48	0.15
T3-100m 3/1/16 1115			0.18	5.5	0.51	7.2	0.31	4.4	0.3	8	0.51	15.8	6.0	84	0.08	34.77	25.4	8.23	5.96	0.08
T3-100m 5/3/16 1038			0.25	7.8	0.14	1.9	0.06	0.9	0.5	14	0.42	13.1	6.4	89	0.07	34.66	25.8	8.27	6.48	0.21
Geomean FY '16			5.5		3.2		1.8				13.6		84		0.06					0.16
T3-100m 7/6/16 1207			0.10	3.1	0.25	3.5	0.35	4.9	0.1	3	0.41	12.7	3.9	54	0.24	34.68	27.2	8.70	6.76	0.20
T3-100m 12/20/16 1131			0.05	1.5	0.15	2.1	0.13	1.8	1.8	51	0.33	10.2	3.1	44	0.04	34.74	25.6	8.28	6.59	0.17
T3-100m 2/28/17 1019			0.00	0.1	0.11	1.6	0.16	2.3	0.3	9	0.29	9.0	3.6	51	0.09	34.67	24.7	8.21	5.51	0.18
T3-100m 5/10/17 1009			0.06	1.8	0.05	0.7	0.12	1.7	0.7	19	0.20	6.2	3.1	44	0.07	34.81	25.9	8.21	4.13	0.07
Geomean FY '17			1.0		1.7		2.4				9.2		48		0.09					0.14

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		Turbidity	Salinity	Temp.	pH	DO	Chl a
	M/D/Y	(2400)	(µM)	(µg P/L)	(µM)	(µg N/L)	(µM)	(µg N/L)	(µM)	(µg Si/L)	(µM)	(µg P/L)	(µM)	(µg N/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30

NELHA Water Quality Laboratory

Transect 3, Station 4

8/3/1993 - 7/16/20

T3-100m	9/27/17	1142	0.12	3.8	0.19	2.7	0.10	1.4	0.7	20	0.40	12.5	3.1	44	0.09	34.79	27.9	8.21	4.22	0.11
T3-100m	11/28/17	1204	0.10	3.1	0.27	3.8	0.44	6.2	1.6	44	0.38	11.7	5.2	73	0.06	35.07	26.3	8.20	4.71	0.13
T3-100m	1/30/18	1152	0.09	2.9	0.13	1.8	0.12	1.7	1.2	34	0.35	10.8	2.8	40	0.07	34.87	24.6	8.17	5.20	0.18
T3-100m	5/16/18	1139	0.11	3.3	0.11	1.6	0.20	2.8	2.2	61	0.35	10.7	1.8	26	0.04	34.70	25.9	8.17	6.17	0.11
Geomean	FY '18		3.3		2.3		2.5				11.4		43		0.06					0.13
T3-100m	9/24/18	1119	0.01	0.2	0.16	2.3	0.24	3.3	0.0	1	0.33	10.1	2.0	27	0.09	34.82	28.2	8.16	5.33	0.21
T3-100m	11/13/18	1139	0.03	0.8	0.14	1.9	0.19	2.7	0.0	1	0.32	9.8	2.8	39	0.08	34.99	27.6	8.24	4.73	0.09
T3-100m	1/22/19	1124	0.08	2.6	0.04	0.5	0.21	2.9	0.1	3	0.36	11.3	2.3	33	0.06	35.02	25.2	8.21	5.64	0.14
T3-100m	4/16/19	1133	0.15	4.5	0.53	7.4	0.11	1.5	4.8	134	0.40	12.4	2.8	40	0.07	35.52	26.0	8.16	7.21	0.21
Geomean	FY '19		1.2		2.0		2.5				10.9		34		0.07					0.15
T3-100m	8/13/19	1118	0.07	2.2	0.21	2.9	0.24	3.4	7.3	205	0.32	10.0	2.8	39	0.09	35.56	28.4	8.20	6.44	0.18
T3-100m	11/19/19	1038	0.11	3.3	0.06	0.8	0.09	1.3	0.2	5	0.41	12.8	2.5	35	0.08	34.78	27.7	8.24	6.58	0.21
T3-100m	1/22/20	1104	0.13	4.1	0.16	2.3	0.09	1.3	-0.4	-11	0.40	12.3	2.7	39	0.06	34.94	25.1	8.22	6.66	0.12
T3-100m	6/24/20	1129	0.08	2.5	0.16	2.3	0.09	1.3	1.0	29	0.28	8.8	2.0	28	0.06	35.43	26.2	8.19	6.93	0.24
Geomean	FY '20		2.9		1.9		1.6				10.8		35		0.07					0.18

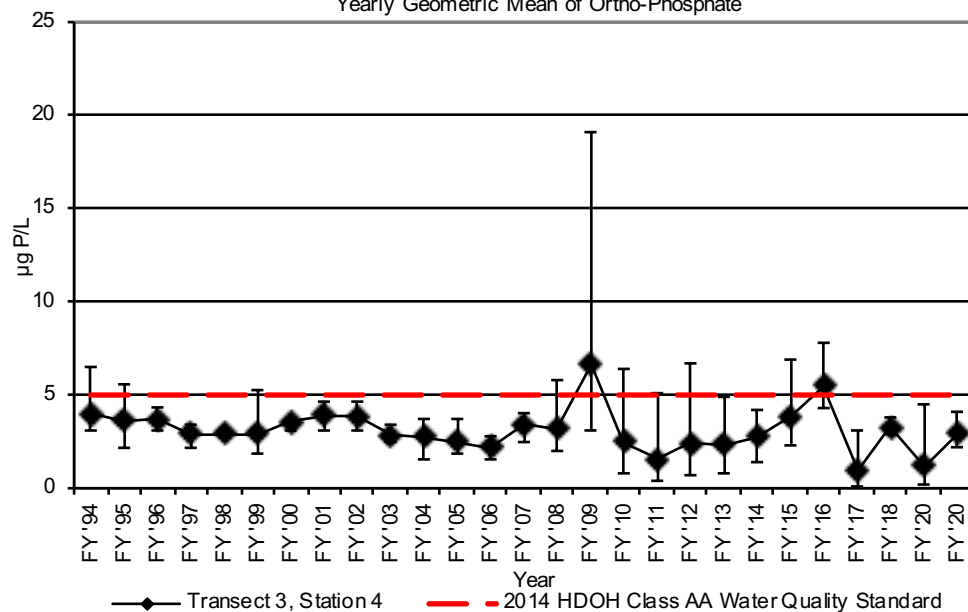
NELHA Water Quality Laboratory

Transect 3, Station 4

8/3/1993 - 7/16/20

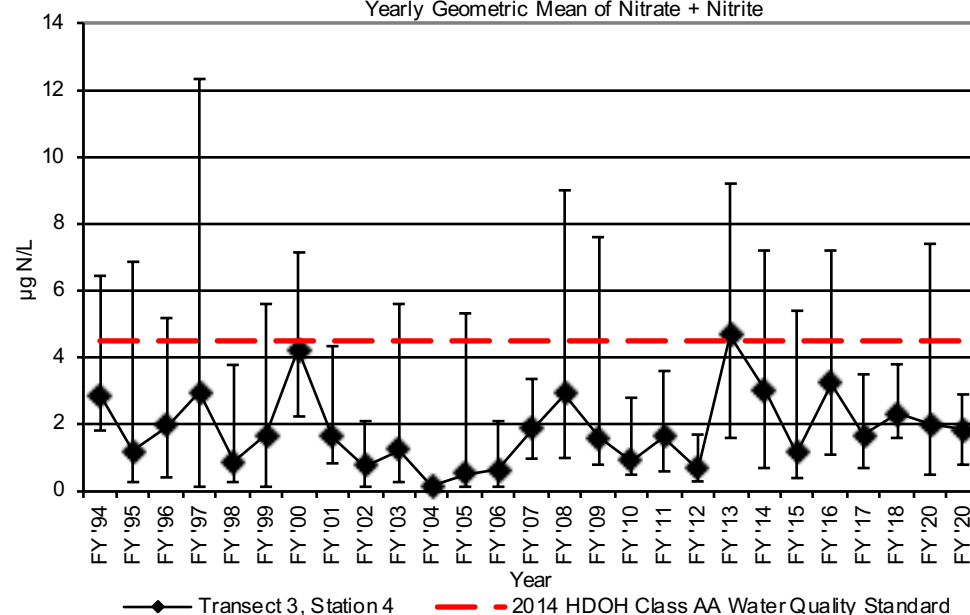
NELHA Offshore Transect 3, Station 4

Yearly Geometric Mean of Ortho-Phosphate



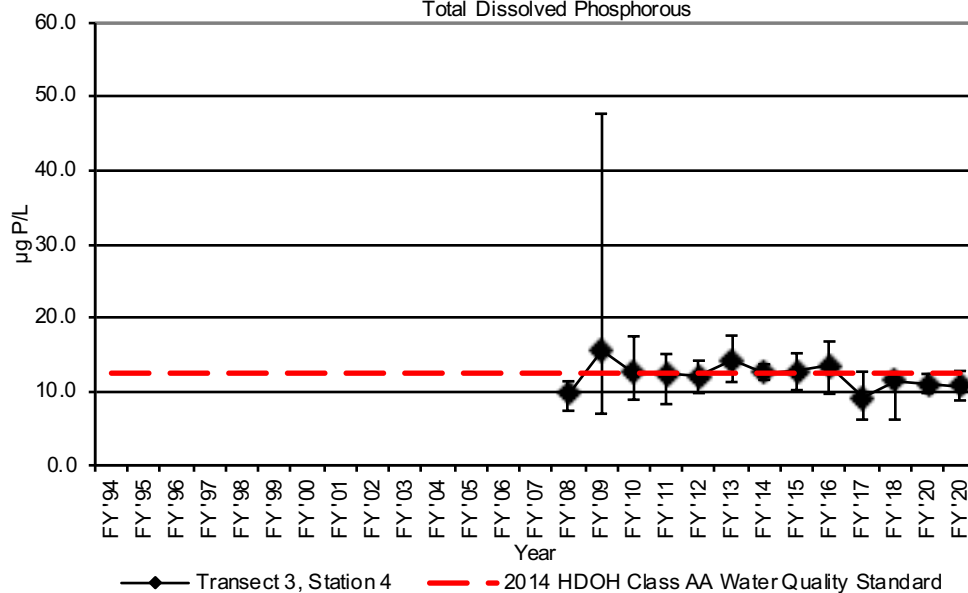
NELHA Offshore Transect 3, Station 4

Yearly Geometric Mean of Nitrate + Nitrite



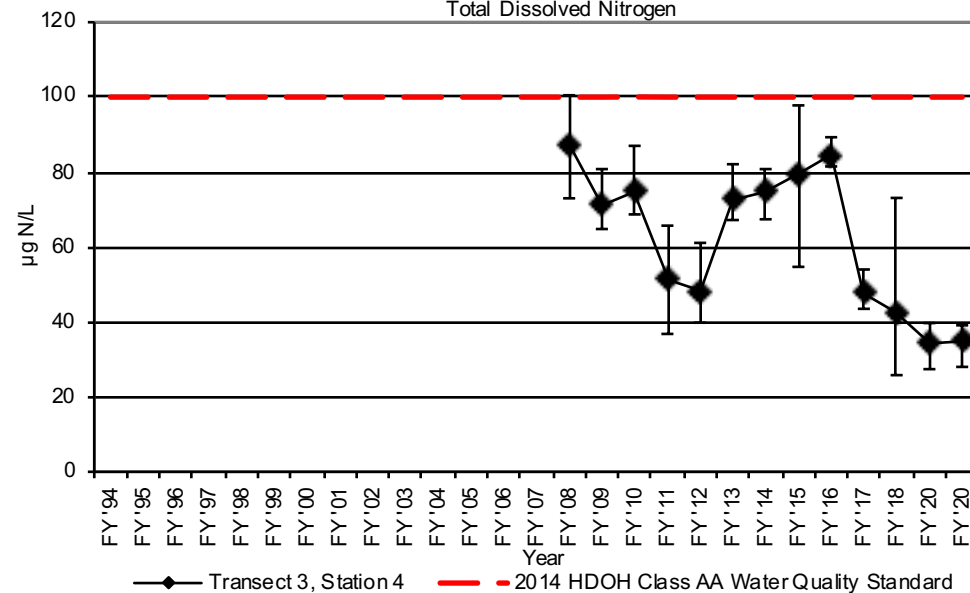
NELHA Offshore Transect 3, Station 4

Yearly Geometric Mean of
Total Dissolved Phosphorous



NELHA Offshore Transect 3, Station 4

Yearly Geometric Mean of
Total Dissolved Nitrogen



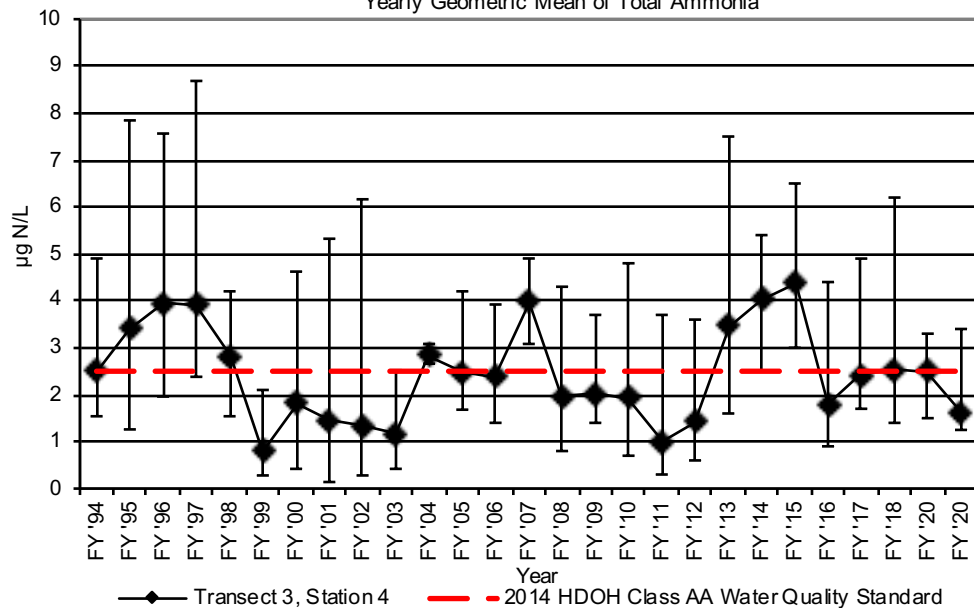
NELHA Water Quality Laboratory

Transect 3, Station 4

8/3/1993 - 7/16/20

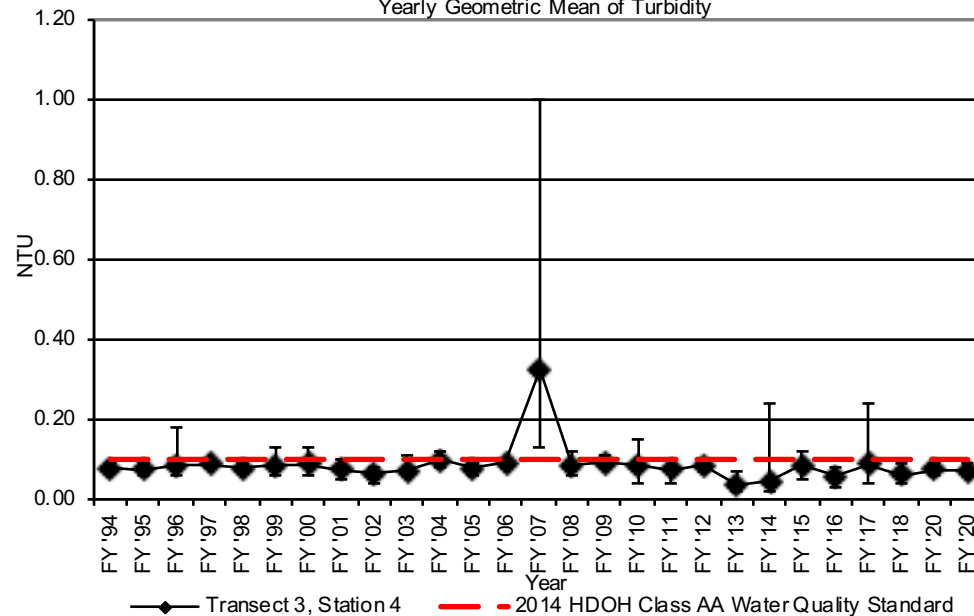
NELHA Offshore Transect 3, Station 4

Yearly Geometric Mean of Total Ammonia



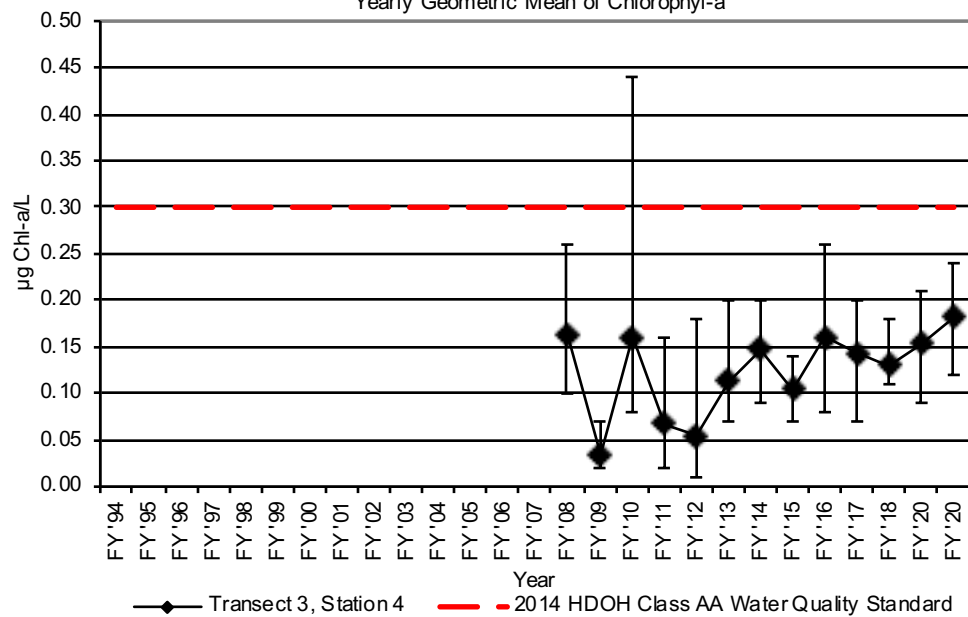
NELHA Offshore Transect 3, Station 4

Yearly Geometric Mean of Turbidity



NELHA Offshore Transect 3, Station 4

Yearly Geometric Mean of Chlorophyll-a



NELHA Water Quality Laboratory

Transect 3, Station 5

8/3/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (μM) (μg P/L)		TDN (μM) (μg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (μg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O3-5S-69m	8/3/93	1018	0.12	3.7	0.21	2.9	0.39	5.5	3.0	85					0.12	34.507	26.8			
O3-5S-69m	12/8/93	1036	0.12	3.7	0.08	1.1	0.11	1.5	5.1	144					0.06	34.794	25.7			
O3-5S-69m	3/8/94	1009	0.18	5.6	0.22	3.1	0.21	2.9	2.5	71					0.07	34.225	25.2			
O3-5S-69m	6/13/94	953	0.13	4.0	0.19	2.7	0.06	0.8	7.0	198					0.11	34.532	25.6			
Geomean	FY '94		4.2		2.3		2.1								0.09					
O3-5S-69m	9/8/94	839	0.07	2.2	0.01	0.1	0.10	1.4	5.9	166					0.07	34.624	27.6			
O3-5S-69m	11/15/94	921	0.16	5.0	0.43	6.0	0.45	6.3	4.3	120					0.08	34.577	26.0			
O3-5S-69m	3/21/95	802	0.18	5.6	0.07	1.0	0.06	0.8	8.7	245					0.10	34.230	24.9			
O3-5S-69m	6/21/95	937	0.08	2.5	0.07	1.0	0.33	4.6	1.5	42					0.06	34.476	26.2			
Geomean	FY '95		3.5		0.9		2.4								0.08					
O3-5S-69m	9/25/95	1248	0.11	3.4	0.31	4.3	0.20	2.8	5.6	158					0.11	34.447	27.3			
O3-5S-69m	11/13/95	848	0.14	4.3	0.12	1.7	0.48	6.7	2.7	77					0.07	34.419	26.8			
O3-5S-69m	3/11/96	1205	0.12	3.7	0.21	2.9	0.42	5.9	2.2	61					0.06	34.201	25.6			
O3-5S-69m	5/13/96	1109	0.09	2.8	0.02	0.3	0.14	2.0	2.1	58					0.07	34.310	27.4			
Geomean	FY '96		3.5		1.6		3.8								0.08					
O3-5S-69m	7/30/96	1031	0.10	3.1	0.38	5.3	0.23	3.2	5.4	153					0.08	34.388	28.3			
O3-5S-69m	10/1/96	908	0.07	2.2	0.01	0.1	0.58	8.1	2.3	65					0.07	34.684	27.9			
O3-5S-69m	1/6/97	908	0.07	2.2	0.12	1.7	0.11	1.5	2.3	64					0.09	34.721	25.4			
O3-5S-69m	4/21/97	852	0.09	2.8	0.75	10.5	0.17	2.4	3.0	85					0.08	34.535	26.3			
Geomean	FY '97		2.5		1.9		3.1								0.08					
O3-5S-69m	8/18/97	848	0.10	3.1	0.27	3.8	0.22	3.1	3.2	90					0.10	34.638	27.0			
O3-5S-69m	10/6/97	903	0.11	3.4	0.01	0.1	0.33	4.6	5.0	140					0.08	34.704	27.4			
O3-5S-69m	3/3/98	907	0.08	2.5	0.06	0.8	0.19	2.7	4.7	132					0.08	35.030	24.9			
O3-5S-69m	5/4/98	905	0.08	2.5	0.09	1.3	0.11	1.5	3.3	91					0.09	35.039	24.1			
Geomean	FY '98		2.8		0.9		2.8								0.09					
O3-5S-69m	7/6/98	920	0.09	2.8	0.25	3.5	0.02	0.3	8.5	240					0.10	34.961	26.2			
O3-5S-69m	10/5/98	858	0.07	2.2	0.02	0.3	0.09	1.3	1.3	37					0.07	35.123	27.2			
O3-5S-69m	1/13/99	902	0.07	2.2	0.05	0.7	0.22	3.1	4.2	119					0.06	35.098	25.0			
O3-5S-69m	4/13/99	856	0.16	5.0	0.33	4.6	0.12	1.7	3.7	104					0.07	34.641	24.3			
Geomean	FY '99		2.8		1.3		1.2								0.07					

NELHA Water Quality Laboratory

Transect 3, Station 5

8/3/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (μM) (μg P/L)		TDN (μM) (μg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (μg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O3-5S-69m	7/13/99	924	0.11	3.4	0.06	0.8	0.06	0.8	4.5	127					0.07	34.907	26.2			
O3-5S-69m	10/25/99	915	0.14	4.3	0.19	2.7	0.31	4.3	21.9	614					0.09	34.950	26.1			
O3-5S-69m	1/4/00	921	0.10	3.1	0.61	8.5	0.35	4.9	3.9	109					0.08	35.063	24.8			
O3-5S-69m	5/16/00	954	0.11	3.4	0.18	2.5	0.09	1.3	2.4	69					0.09	34.704	25.5			
Geomean	FY '00		3.5		2.6		2.2								0.08					
O3-5S-69m	7/24/00	927	0.10	3.1	0.16	2.2	0.03	0.4	2.8	79					0.06	34.881	27.3			
O3-5S-69m	10/30/00	936	0.12	3.7	0.08	1.1	0.37	5.2	2.7	76					0.08	34.983	27.0			
O3-5S-69m	2/26/01	942	0.13	4.0	0.04	0.6	0.14	2.0	3.6	102					0.07	34.744	24.8			
O3-5S-69m	5/8/01	907	0.13	4.0	0.15	2.1	0.18	2.5	3.1	87					0.07	34.795	24.8			
Geomean	FY '01		3.7		1.3		1.8								0.07					
O3-5S-69m	8/13/01	930	0.09	2.8	0.05	0.7	0.24	3.4	6.4	179					0.09	34.860	26.7			
O3-5S-69m	10/10/01	911	0.11	3.4	0.07	1.0	0.01	0.1	3.0	85					0.06	34.948	27.4			
O3-5S-69m	3/4/02	1046	0.14	4.3	0.03	0.4	0.02	0.3	2.8	77					0.14	34.645	24.2			
O3-5S-69m	4/16/02	1054	0.12	3.7	0.18	2.5	0.20	2.8	4.6	128					0.11	34.464	25.9			
Geomean	FY '02		3.5		0.9		0.8								0.10					
O3-5S-69m	7/9/02	948	0.10	3.1	0.24	3.4	0.11	1.5	4.2	117					0.07	34.626	26.5			
O3-5S-69m	10/7/02	1040	0.08	2.5	0.32	4.5	0.25	3.5	2.0	55					0.06	34.937	27.2			
O3-5S-69m	3/10/03	1000	0.08	2.5	0.03	0.4	0.03	0.4	2.1	58					0.07	34.823	24.7			
O3-5S-69m	4/22/03	949	0.09	2.8	0.06	0.8	0.05	0.7	2.0	57					0.08	35.022	25.0			
Geomean	FY '03		2.7		1.5		1.1								0.07					
O3-5S-69m	8/19/03	1032	0.06	1.9	0.01	0.1	0.20	2.8	1.3	36					0.06	34.841	28.2			
O3-5S-69m	10/30/03	820	0.09	2.8	0.02	0.3	0.20	2.8	2.4	67					0.23	34.805	27.5			
O3-5S-69m	3/17/04	932	0.12	3.7	0.03	0.4	0.21	2.9	1.7	47					n/a	34.346	25.8			
O3-5S-69m	5/20/04	1124	0.12	3.7	0.07	1.0	0.21	2.9	1.3	35					n/a	33.40	26.9			
Geomean	FY '04		2.9		0.4		2.9								0.12					
O3-5S-69m	9/20/04	1027	0.08	2.5	0.07	1.0	0.34	4.8	1.8	49					0.07	33.73	28.0			
O3-5S-69m	11/17/04	1004	0.06	1.9	0.07	1.0	0.12	1.7	1.6	46					0.08	33.67	27.1			
O3-5S-69m	1/13/05	1123	0.04	1.2	0.26	3.6	0.12	1.7	2.4	67					0.10	34.850	24.9			
O3-5S-69m	4/11/05	1131	0.12	3.7	0.06	0.8	0.20	2.8	2.6	72					0.10	34.471	25.3			
Geomean	FY '05		2.1		1.3		2.5								0.09					

NELHA Water Quality Laboratory

Transect 3, Station 5

8/3/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O3-5S-69m	7/20/05	1121	0.07	2.2	0.21	2.9	0.15	2.1	4.2	117					0.17	34.648	26.7			
O3-5S-69m	10/11/05	1012	0.05	1.5	0.01	0.1	0.18	2.5	4.2	119					0.18	34.848	27.5			
O3-5S-69m	3/14/06	835	0.09	2.8	0.06	0.8	0.26	3.6	1.4	39					0.09	34.859	24.4			
O3-5S-69m	5/15/06	1040	0.06	1.9	0.07	1.0	0.07	1.0	1.8	51					0.08	34.767	24.8			
Geomean	FY '06		2.0		0.8		2.1								0.12					
O3-5S-69m	8/14/06	1041	0.12	3.7	0.21	2.9	0.20	2.8	3.0	84					0.11	34.607	26.9			
O3-5S-69m	11/1/06	1045	0.10	3.1	0.09	1.3	0.47	6.6	2.0	57					0.71	34.817	27.4			
O3-5S-69m	2/12/07	1107	0.12	3.7	0.07	1.0	0.37	5.2	1.2	33					0.33	34.443	24.5			
O3-5S-69m	4/9/07	1040	0.11	3.4	0.07	1.0	0.31	4.3	2.4	66					2.64	34.712	25.1			
Geomean	FY '07		3.5		1.4		4.5								0.51					
T3-500m	9/26/07	1008	0.14	4.2	0.07	1.0	0.11	1.6	2.2	62	0.33	10.3	5.2	72	0.05	34.979	26.9	8.20	6.33	0.04
T3-500m	12/13/07	1220	0.07	2.2	0.07	1.0			2.9	81	0.39	12.1	4.8	68	0.12	34.775	26.2	8.2	6.23	0.43
T3-500m	3/10/08	1115	0.15	4.5	0.05	0.7	0.06	0.8	6.9	193	0.38	11.7	5.8	82	0.14	34.930	25.0	8.18	6.56	0.34
T3-500m	6/5/08	1104	0.06	2.0	0.13	1.8	0.16	2.2	10.4	293	0.24	7.3	5.5	77	0.06	34.7875	25.6	8.13	6.52	0.11
Geomean	FY '08		3.0		1.1		1.4				10.2		74		0.08					0.16
T3-500m	9/22/08	1207	0.09	2.7	0.03	0.4	0.04	0.6	1.5	41	0.37	11.5	4.8	68	0.07	34.865	27.0	8.04	6.29	0.06
T3-500m	11/17/08	1048	0.14	4.4	0.00	0.01	0.14	1.9	1.6	46	0.37	11.5	5.5	77	0.26	34.966	26.4	8.26	6.03	0.03
T3-500m	2/9/09	1059	0.07	2.3	0.10	1.4	0.12	1.7	2.2	62	0.26	8	5.8	82	0.08	35.106	25.0	8.06	5.97	0.01
T3-500m	4/13/09	1034	0.20	6.1	0.11	1.6	0.56	7.9	3.2	89	0.49	15.1	5.5	77	0.10	34.971	24.0	8.20	6.51	0.04
Geomean	FY '09		3.6		0.3		2.0				11.2		76		0.11					0.03
T3-500m	9/9/09	1100	0.14	4.4	0.03	0.4	0.07	1	5.9	165	0.56	17.4	5.9	82	0.11	35.24	27.7	8.20	5.33	0.19
T3-500m	11/23/09	1109	0.03	0.8	0.09	1.2	0.01	0.1	22.5	632	0.44	13.5	4.8	67	0.06	35.24	25.4	8.28	6.26	0.09
T3-500m	2/23/10	1109	0.14	4.4	0.01	0.1	0.39	5.5	9.7	271	0.39	12.2	6.4	90	0.08	35.08	24.9	8.18	5.94	0.36
T3-500m	5/25/10	1012	0.03	1	0.01	0.1	0.14	2	1.4	40	0.26	8.1	4.8	67	0.08	35.04	25.2	8.22	6.85	0.05
Geomean	FY '10		2.0		0.3		1.0				12.3		76		0.08					0.13
T3-500m	8/10/10	1106	0.01	0.2	0.01	0.2	0.05	0.7	1.9	52	0.29	9	2.9	40	0.04	34.91	26.43	8.25	6.58	0.13
T3-500m	11/8/10	1109	0.02	0.7	0.04	0.6	0.02	0.3	5.3	148	0.36	11.2	4.3	60	0.07	35.39	26.71	8.27	6.24	0.07
T3-500m	1/11/11	1109	0.12	3.7	0.01	0.2	0.03	0.4	2.1	59	0.43	13.2	3.9	55	0.04	35.01	25.07	8.22	6.32	0.11
T3-500m	4/26/11	1012	0.15	4.6	0.03	0.4	0.04	0.5	1.3	36	0.46	14.3	4.4	62	0.09	34.92	24.89	8.21	6.41	0.12
Geomean	FY '11		1.2		0.3		0.5				11.7		54		0.06					0.10

NELHA Water Quality Laboratory

Transect 3, Station 5

8/3/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
T3-500m	7/26/11	1146	0.18	5.5	0.01	0.1	0.02	0.3	0.1	3	0.47	14.6	4.4	62	0.09	34.87	26.27	8.26	6.40	0.04
T3-500m	10/18/11	1055	0.01	0.3	0.04	0.5	0.10	1.4	1.6	46	0.36	11.3	4.8	67	0.07	35.05	26.80	8.23	6.78	0.11
T3-500m	1/25/12	1139	0.05	1.6	0.01	0.2	0.02	0.3	1.4	40	0.33	10.3	3.8	54	0.08	35.09	25.08	8.22	6.81	0.07
T3-500m	4/24/12	1202	0.12	3.7	0.04	0.6	0.23	3.2	0.4	12	0.43	13.3	3.3	47	0.05	35.07	24.97	8.22	6.71	0.07
Geomean	FY '12		1.8		0.3		0.8				12.3		57		0.07					0.07
T3-500m	7/24/12	1102	0.02	0.6	0.09	1.2	0.14	1.9	2.2	61	0.37	11.5	3.7	53	0.12	35.02	26.35	8.26	6.86	0.14
T3-500m	11/27/12	1042	0.06	1.9	0.04	0.6	0.26	3.7	1.3	35	0.36	11.2	4.8	67	0.03	35.23	25.51	8.21	6.87	0.18
T3-500m	1/23/13	1059	0.07	2.3	0.01	0.1	0.26	3.6	1.0	27	0.41	12.8	5.2	73	0.08	35.12	24.90	8.23	6.42	0.08
T3-500m	4/16/13	1106	0.13	4.1	0.09	1.3	0.11	1.6	0.4	12	0.48	14.9	5.5	78	0.02	35.12	24.94	8.22	6.86	0.50
Geomean	FY '13		1.8		0.6		2.5				12.5		67		0.05					0.18
T3-500m	8/1/13	1015	0.02	0.6	0.08	1.1	0.03	0.4	2.0	57	0.38	11.9	5.0	70	0.13	35.25	26.6	8.26	6.82	0.07
T3-500m	10/29/13	1049	0.09	2.7	0.09	1.3	0.37	5.2	1.6	45	0.47	14.6	5.9	83	0.02	35.28	27.2	8.22	6.23	0.17
T3-500m	2/4/14	1101	0.09	2.9	0.06	0.8	0.29	4.1	1.5	42	0.37	11.5	3.7	52	0.02	35.12	25.3	8.20	6.25	0.11
T3-500m	5/6/14	1103	0.12	3.8	0.06	0.8	0.50	7.0	1.1	32	0.42	13.1	6.0	84	0.03	34.85	26.2	8.20	6.06	0.16
Geomean	FY '14		2.1		1.0		2.8				12.7		71		0.04					0.12
T3-500m	8/5/14	1051	0.19	5.8	0.03	0.4	0.51	7.2	0.5	15	0.50	15.5	4.9	69	0.09	34.93	27.1	8.22	5.86	0.10
T3-500m	11/17/14	1227	0.16	4.9	0.01	0.1	0.40	5.6	0.0	0	0.46	14.4	6.4	90	0.05	34.96	27.4	8.22	6.70	0.16
T3-500m	3/3/15	1103	0.05	1.7	0.01	0.1	0.14	2.0	0.1	3	0.33	10.2	6.9	96	0.10	34.79	25.7	8.19	6.97	0.04
T3-500m	6/16/15	1314	0.08	2.5	0.10	1.4	0.43	6.0	2.0	57	0.11	3.5	7.9	111	0.07	34.29	27.0	8.22	6.04	0.14
Geomean	FY '15		3.3		0.3		4.7				9.4		90		0.07					0.10
T3-500m	8/26/15	1048	0.16	5.0	0.06	0.8	0.22	3.1	1.1	32	0.20	6.3	4.5	64	0.02	34.47	28.7	8.23	5.99	0.13
T3-500m	11/17/15	1121	0.12	3.8	0.39	5.5	0.32	4.5	4.3	120	0.53	16.3	5.6	78	0.06	34.01	27.5	8.24	6.43	0.13
T3-500m	3/1/16	1123	0.15	4.6	0.35	4.9	0.42	5.9	0.3	9	0.49	15.3	5.2	73	0.08	34.78	25.5	8.24	5.73	0.09
T3-500m	5/3/16	1045	0.18	5.7	0.13	1.8	0.08	1.1	0.1	2	0.46	14.2	7.2	101	0.09	34.65	26.2	8.26	6.45	0.22
Geomean	FY '16		4.7		2.5		3.1				12.2		78		0.05					0.14
T3-500m	7/6/16	1214	0.06	2.0	0.26	3.6	0.19	2.7	0.4	12	0.42	13.1	4.6	65	0.10	34.78	27.3	8.30	6.61	0.26
T3-500m	12/20/16	1141	0.04	1.3	0.09	1.3	0.09	1.2	1.6	45	0.33	10.1	2.7	38	0.03	34.75	25.7	8.27	5.33	0.09
T3-500m	2/28/17	1027	0.02	0.5	0.02	0.3	0.11	1.6	0.1	2	0.27	8.5	4.3	60	0.11	34.70	24.7	8.22	5.54	0.10
T3-500m	5/10/17	1017	0.05	1.6	0.01	0.1	0.17	2.4	0.0	0	0.22	6.7	3.0	42	0.11	34.81	26.0	8.22	4.10	0.04
Geomean	FY '17		1.2		0.6		1.9				9.3		50		0.08					0.10

NELHA Water Quality Laboratory

Transect 3, Station 5

8/3/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
T3-500m	9/27/17	1047	0.09	2.9	0.09	1.2	0.09	1.3	0.2	7	0.40	12.4	3.1	44	0.07	34.81	28.2	8.23	4.25	0.09
T3-500m	11/28/17	1211	0.08	2.4	0.11	1.5	0.39	5.5	0.9	25	0.34	10.5	2.9	40	0.05	35.11	26.6	8.21	4.73	0.08
T3-500m	1/30/18	1202	0.08	2.4	0.13	1.8	0.14	2.0	1.4	39	0.36	11.2	2.8	40	0.07	34.87	24.6	8.17	5.23	0.08
T3-500m	5/16/18	1146	0.06	2.0	0.16	2.3	0.09	1.3	1.0	29	0.35	10.9	3.0	41	0.03	34.66	26.4	8.17	5.95	0.07
Geomean	FY '18		2.4		1.7		2.1				11.2		41		0.05					0.08
T3-500m	9/24/18	1128	0.04	1.2	0.16	2.3	0.19	2.7	0.0	1	0.34	10.4	2.7	38	0.07	34.82	27.8	8.16	5.10	0.15
T3-500m	11/13/18	1147	0.04	1.2	0.09	1.3	0.12	1.7	0.0	1	0.33	10.3	4.5	64	0.06	35.01	27.7	8.24	4.55	0.06
T3-500m	1/22/19	1133	0.09	2.7	0.07	1.0	0.06	0.8	0.1	3	0.36	11.1	2.1	30	0.06	34.99	25.1	8.22	5.65	0.08
T3-500m	4/16/19	1141	0.10	3.2	0.03	0.4	0.14	2.0	1.7	49	0.36	11.3	2.0	28	0.03	35.59	26.1	8.17	7.08	0.15
Geomean	FY '19		1.9		1.0		1.6				10.8		38		0.05					0.10
T3-500m	8/13/19	1128	0.03	1.0	0.16	2.3	0.39	5.5	1.5	41	0.28	8.6	1.8	25	0.08	35.66	28.4	8.20	6.48	0.18
T3-500m	11/19/19	1045	0.10	3.1	0.04	0.6	0.09	1.3	0.1	3	0.36	11.2	1.6	23	0.06	34.80	27.7	8.24	6.45	0.13
T3-500m	1/22/20	1113	0.12	3.6	0.16	2.3	0.09	1.3	0.7	19	0.37	11.6	1.9	27	0.04	34.95	25.1	8.22	6.65	0.10
T3-500m	6/24/20	1138	0.14	4.3	0.16	2.3	0.09	1.3	2.0	57	0.22	6.8	1.8	26	0.05	35.43	26.7	8.18	6.64	0.39
Geomean	FY '20		2.6		1.6		1.8				9.3		25		0.06					0.17

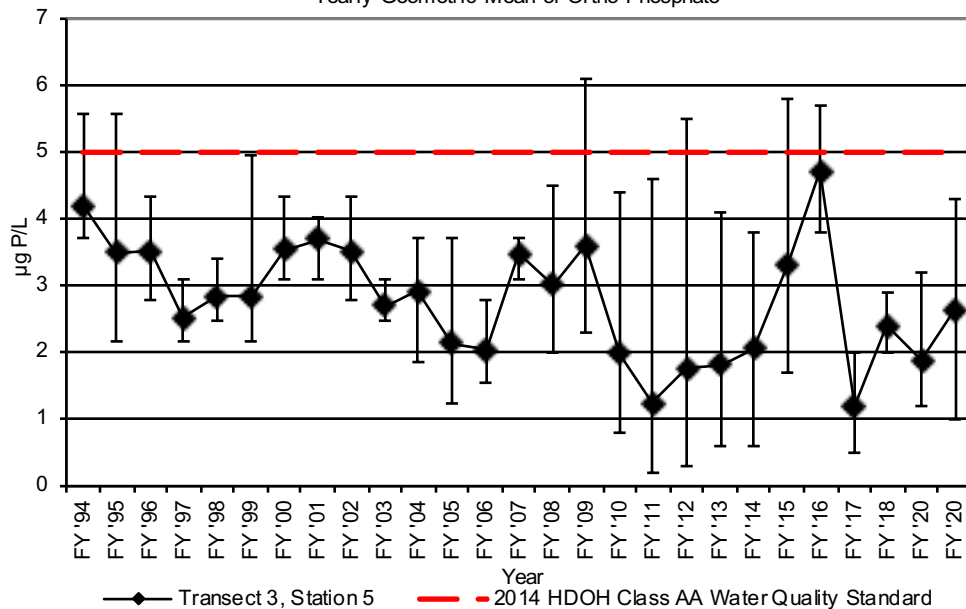
NELHA Water Quality Laboratory

Transect 3, Station 5

8/3/1993 - 7/16/20

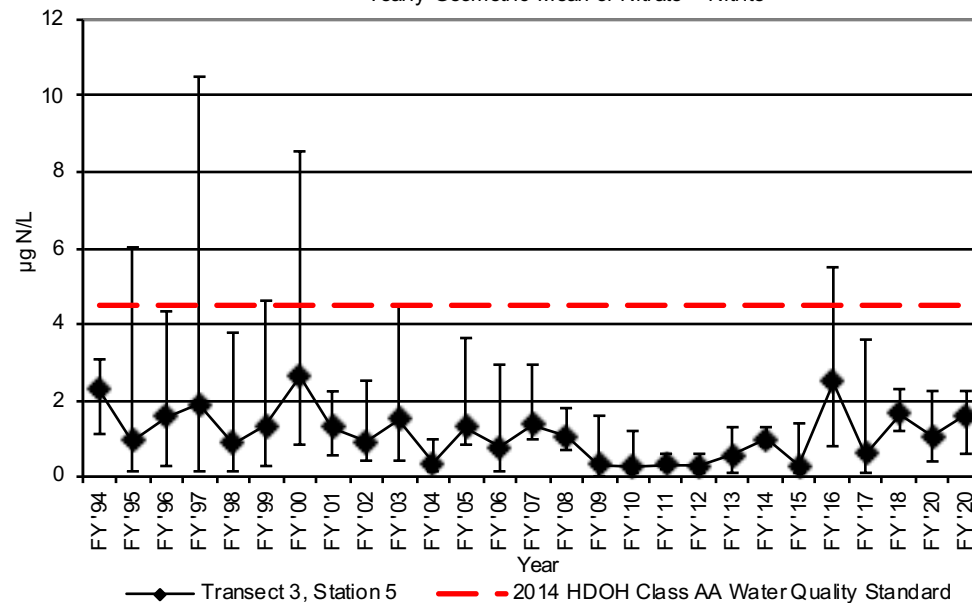
NELHA Offshore Transect 3, Station 5

Yearly Geometric Mean of Ortho-Phosphate



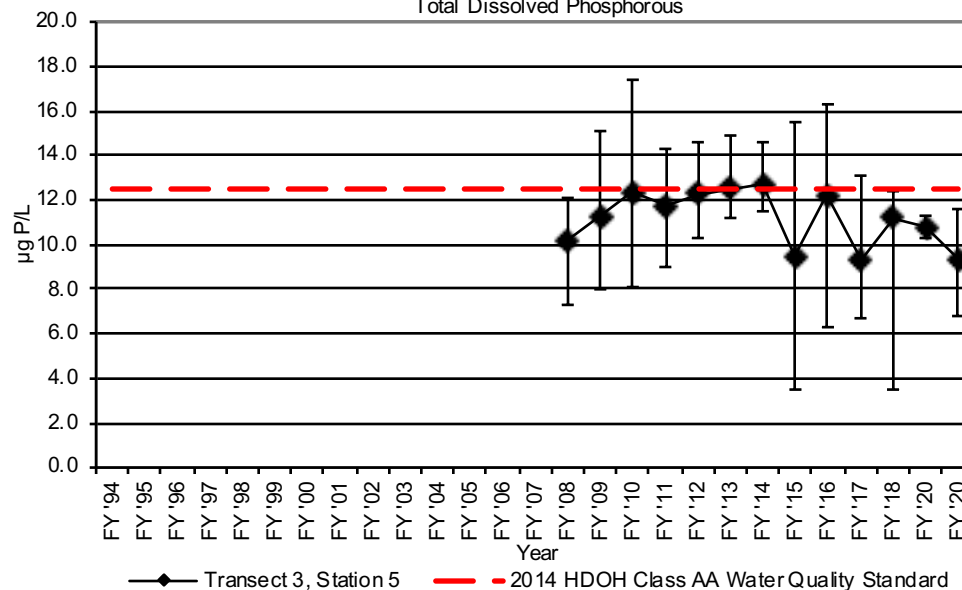
NELHA Offshore Transect 3, Station 5

Yearly Geometric Mean of Nitrate + Nitrite



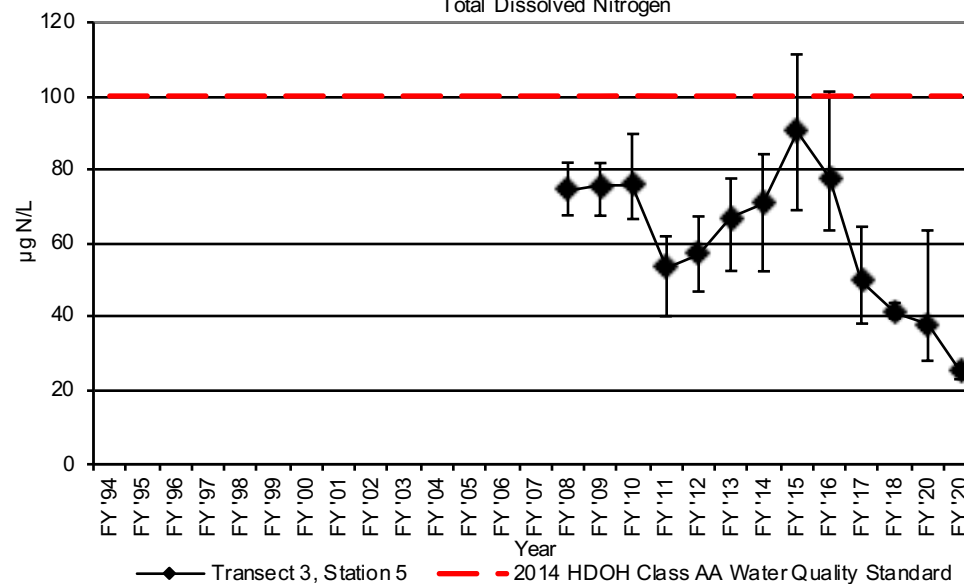
NELHA Offshore Transect 3, Station 5

Yearly Geometric Mean of
Total Dissolved Phosphorous



NELHA Offshore Transect 3, Station 5

Yearly Geometric Mean of
Total Dissolved Nitrogen



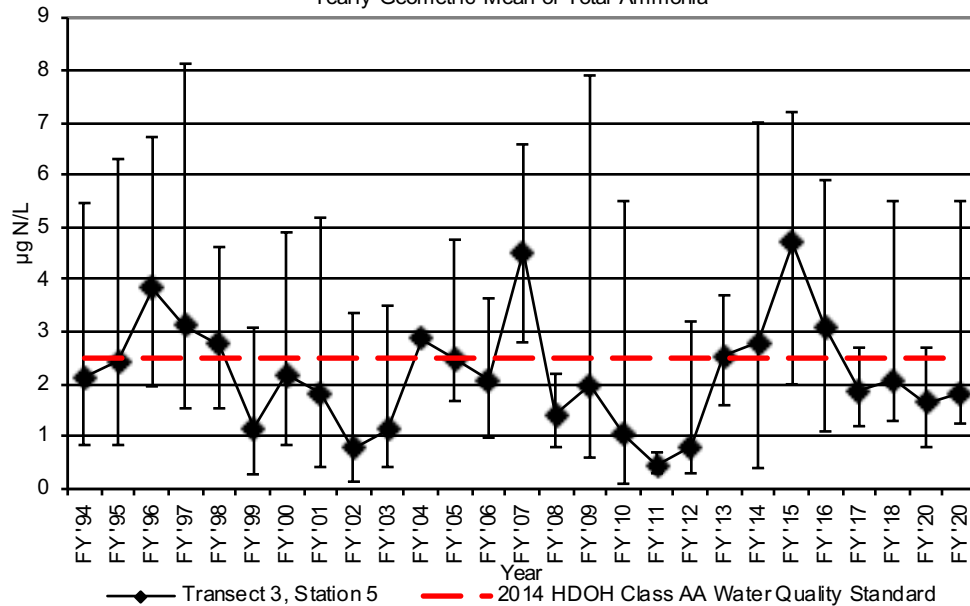
NELHA Water Quality Laboratory

Transect 3, Station 5

8/3/1993 - 7/16/20

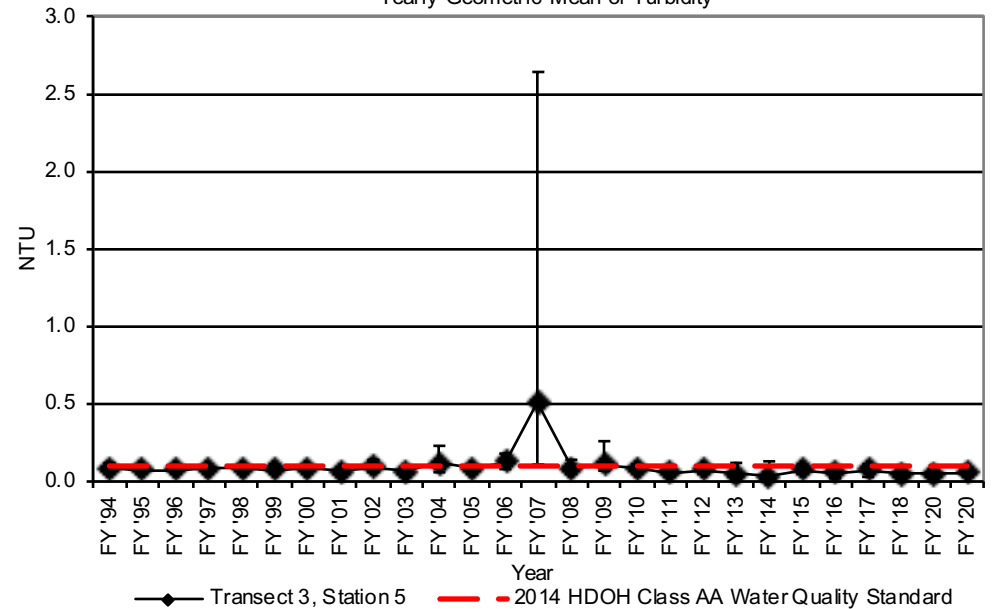
NELHA Offshore Transect 3, Station 5

Yearly Geometric Mean of Total Ammonia



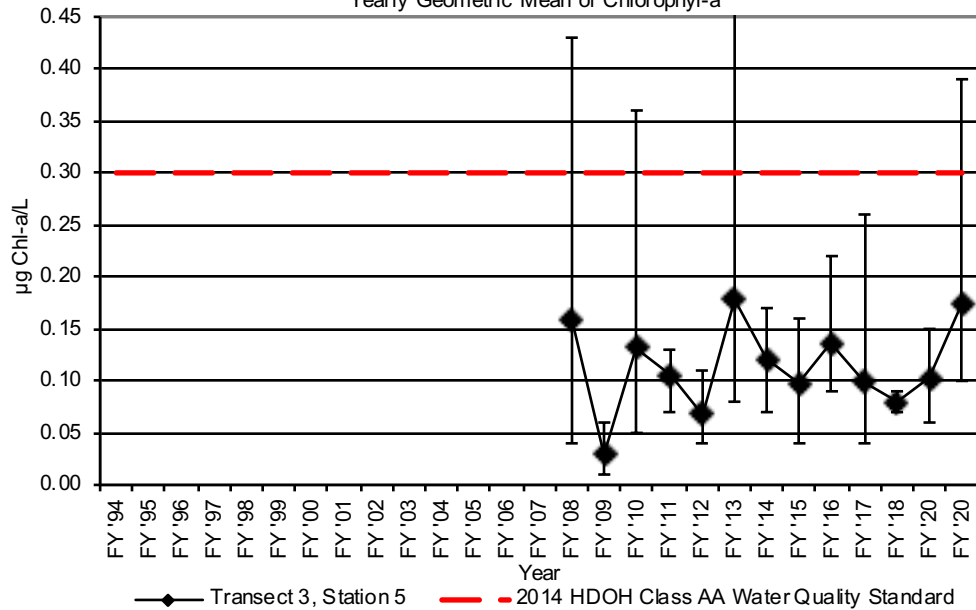
NELHA Offshore Transect 3, Station 5

Yearly Geometric Mean of Turbidity



NELHA Offshore Transect 3, Station 5

Yearly Geometric Mean of Chlorophyll-a



NELHA Water Quality Laboratory

Transect 4

July 2018 - June 2019

SITE ID	DATE	TIME	Tide		PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		Turbidity	Salinity	Temp.	pH	DO	Chl a
	M/D/Y	(2400)	(ft)	(cycle)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg N/L)	(μM)	(μg Si/L)	(μM)	(μg P/L)	(μM)	(μg N/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(μg/L)
DOH LIMIT					0.16	5	0.32	4.5	0.18	2.5			0.40	12.5	7.1	100	0.10					0.30
T4-1m	9/26/18	1156	0.5	Flood	0.07	2.1	0.16	2.3	0.33	4.6	0.2	5	0.32	9.9	2.2	31	0.13	34.64	27.6	8.15	4.91	0.14
T4-1m	11/14/18	1015	1.7	High	0.05	1.6	0.29	4.1	0.31	4.3	0.1	3	0.33	10.3	6.9	97	0.08	34.90	27.3	8.19	6.09	0.15
T4-1m	1/23/19	959	0.8	Ebb	0.15	4.7	0.50	7.0	0.15	2.1	2.8	79	0.41	12.6	2.7	38	0.11	34.85	24.9	8.16	5.24	0.22
T4-1m	4/17/19	950	0.0	Flood	0.15	4.5	0.41	5.7	0.24	3.3	2.1	59	0.41	12.6	2.6	36	0.06	34.70	25.7	8.11	7.13	0.14
Geomean	FY '19				0.09	2.9	0.31	4.4	0.2	3.4			0.4	11.3	3.2	45	0.09					0.16
T4-10m	9/26/18	1201	0.5	Flood	0.01	0.4	0.16	2.3	0.23	3.2	0.0	1	0.36	11.3	3.7	51	0.08	34.71	27.5	8.40	4.79	0.17
T4-10m	11/14/18	1020	1.7	High	0.04	1.3	0.30	4.2	0.25	3.5	0.1	2	0.34	10.5	5.7	80	0.06	34.91	27.3	8.18	6.04	0.13
T4-10m	1/23/19	1003	0.8	Ebb	0.12	3.7	0.23	3.2	0.16	2.3	2.7	76	0.42	13.0	3.0	42	0.11	34.89	24.9	8.17	5.13	0.22
T4-10m	4/17/19	954	0.0	Flood	0.15	4.6	0.44	6.1	0.29	4.0	2.2	62	0.41	12.7	2.9	40	0.09	34.75	25.7	8.10	7.04	0.13
Geomean	FY '19				0.06	1.7	0.26	3.7	0.23	3.2			0.38	11.8	3.7	51	0.08					0.16
T4-50m	9/26/18	1208	0.5	Flood	0.03	0.9	0.16	2.3	0.42	5.9	0.5	13	0.33	10.1	2.0	28	0.09	34.72	27.7	8.15	4.70	0.18
T4-50m	11/14/18	1024	1.7	High	0.06	1.8	0.24	3.3	0.25	3.5	0.1	3	0.34	10.6	3.9	55	0.08	34.91	27.3	8.17	6.07	0.14
T4-50m	1/23/19	1008	0.8	Ebb	0.08	2.6	0.16	2.3	0.08	1.1	0.8	24	0.36	11.2	3.5	49	0.15	34.92	24.9	8.18	5.11	0.15
T4-50m	4/17/19	1000	0.0	Flood	0.13	4.0	0.20	2.8	0.11	1.5	1.3	37	0.38	11.8	2.7	37	0.03	34.76	25.7	8.10	6.91	0.10
Geomean	FY '19				0.07	2.0	0.19	2.6	0.17	2.4			0.35	10.9	2.9	41	0.08					0.14
T4-100m	9/26/18	1220	0.5	Flood	0.03	1.0	0.16	2.3	0.38	5.3	0.3	10	0.36	11.0	2.3	33	0.09	34.74	27.6	8.14	4.71	0.19
T4-100m	11/14/18	1029	1.7	High	0.03	0.9	0.14	2.0	0.19	2.7	3.2	89	0.35	10.8	4.1	58	0.08	34.91	27.3	8.19	6.11	0.16
T4-100m	1/23/19	1019	0.8	Ebb	0.07	2.3	0.04	0.6	0.14	2.0	3.0	83	0.36	11.1	2.5	35	0.06	34.94	24.9	8.19	5.02	0.22
T4-100m	4/17/19	1005	0.0	Flood	0.12	3.7	0.08	1.1	0.20	2.8	7.9	222	0.38	11.7	2.4	34	0.02	34.75	25.8	8.10	6.70	0.10
Geomean	FY '19				0.05	1.7	0.09	1.3	0.21	3.0			0.36	11.1	2.8	39	0.05					0.16
T4-500m	9/26/18	1229	0.5	Flood	0.00	0.1	0.16	2.3	0.27	3.8	0.0	1	0.36	11.1	3.05	43	0.08	34.77	27.8	8.14	4.61	0.11
T4-500m	11/14/18	1040	1.7	High	0.03	0.8	0.13	1.8	0.26	3.7	0.0	1	0.35	10.8	3.33	47	0.07	34.91	27.4	8.19	6.07	0.12
T4-500m	1/23/19	1028	0.8	Ebb	0.07	2.1	0.01	0.2	0.06	0.9	0.4	10	0.36	11.0	2.42	34	0.06	34.95	25.0	8.19	5.05	0.19
T4-500m	4/17/19	1012	0.0	Flood	0.11	3.3	0.04	0.6	0.33	4.6	0.9	26	0.38	11.7	2.16	30	0.04	34.75	25.8	8.10	6.67	0.10
Geomean	FY '19				0.03	0.9	0.06	0.8	0.20	2.8			0.36	11.1	2.7	38	0.06					0.13

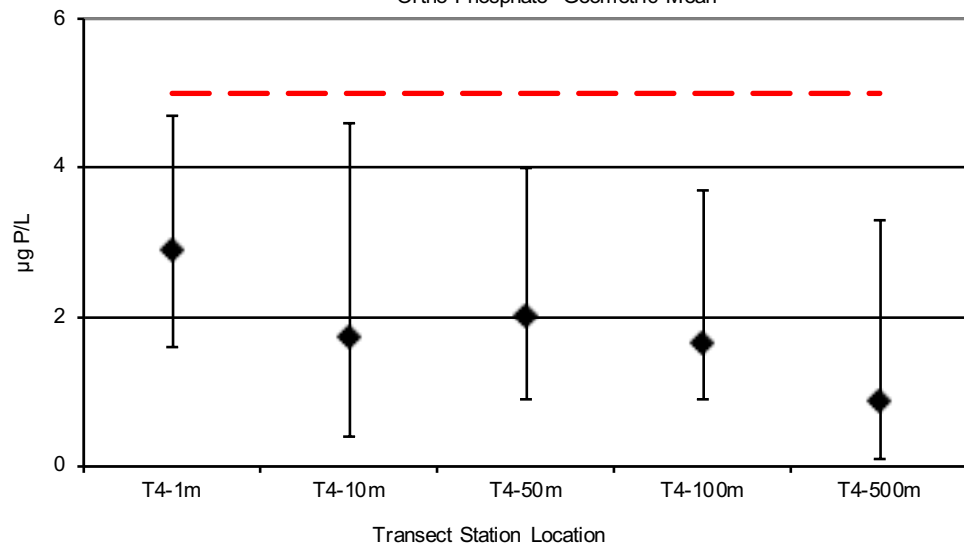
NELHA Water Quality Laboratory

Transect 4

Julv 2018 - June 2019

Transect 4 Station Summary

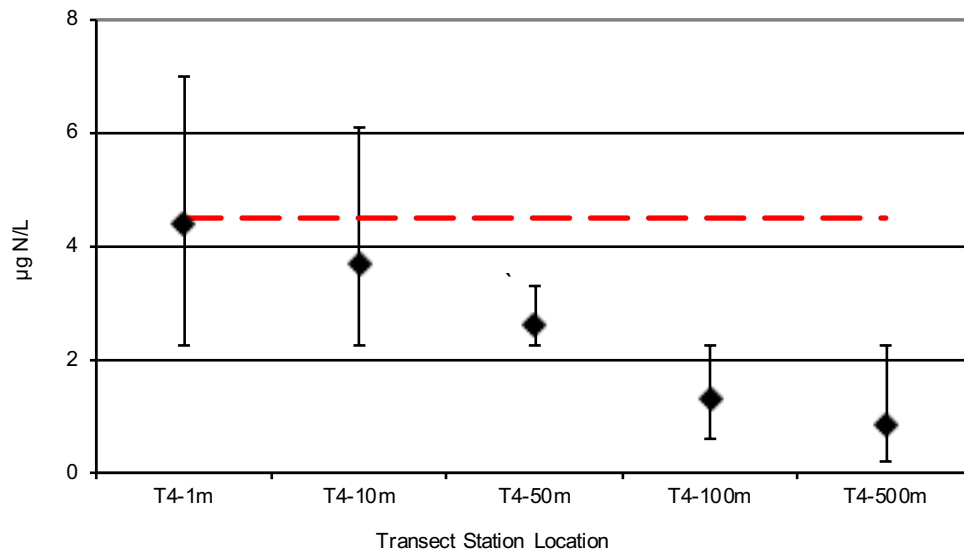
Ortho-Phosphate Geometric Mean



◆ Transect 4, July 2018 - June 2019 — 2014 HDOH Class AA Water Quality Standard

Transect 4 Station Summary

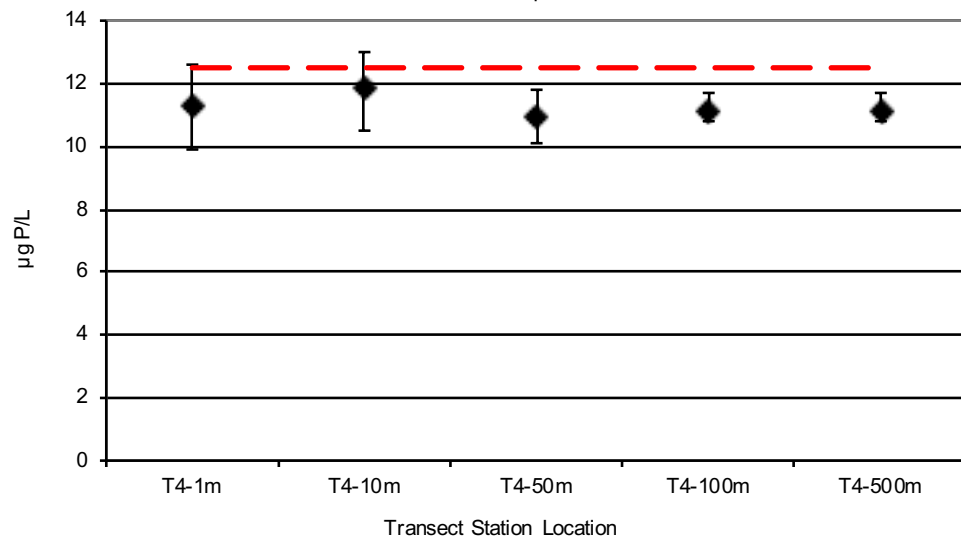
Nitrate + Nitrite Geometric Mean



◆ Transect 4, July 2018 - June 2019 — 2014 HDOH Class AA Water Quality Standard

Transect 4 Station Summary

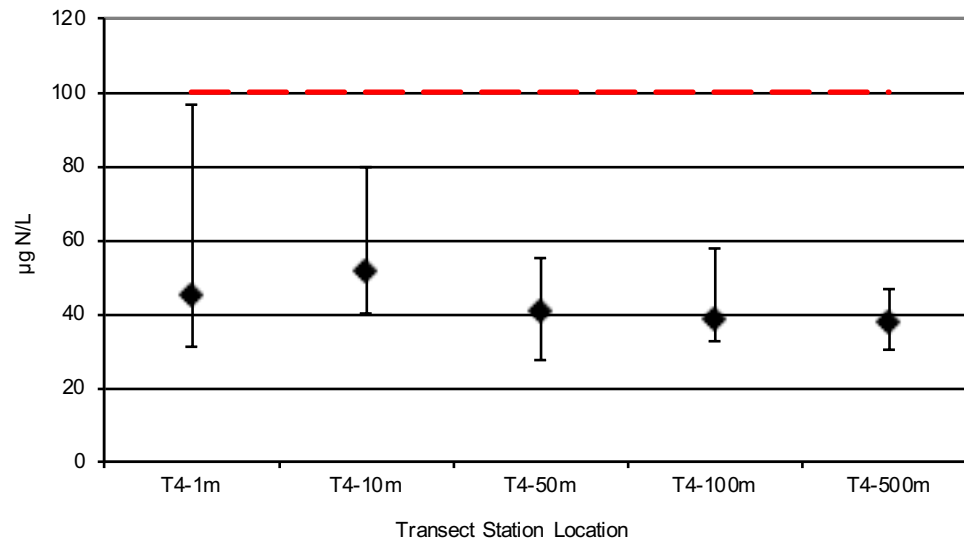
Total Dissolved Phosphorous Geometric Mean



◆ Transect 4, July 2018 - June 2019 — 2014 HDOH Class AA Water Quality Standard

Transect 4 Station Summary

Total Dissolved Nitrogen Geometric Mean



◆ Transect 4, July 2018 - June 2019 — 2014 HDOH Class AA Water Quality Standard

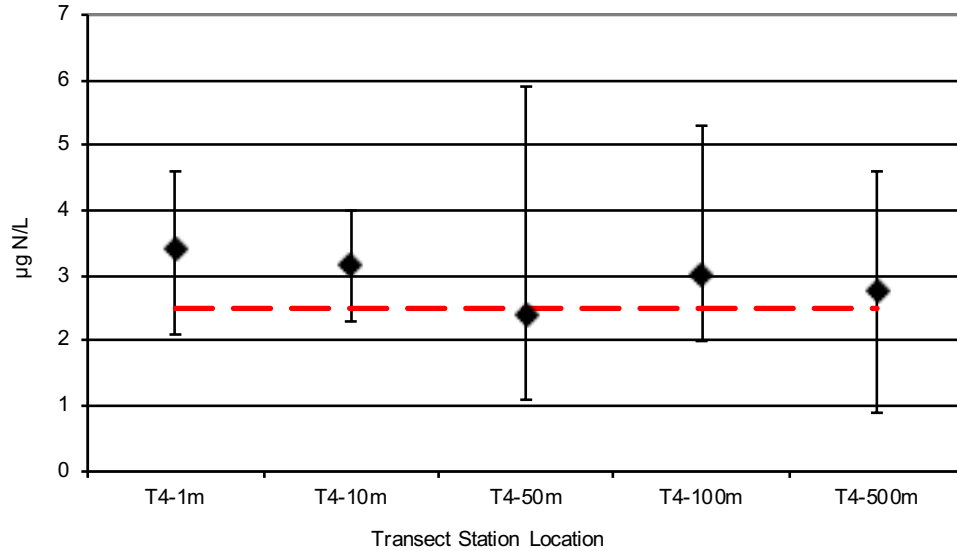
NELHA Water Quality Laboratory

Transect 4

July 2018 - June 2019

Transect 4 Station Summary

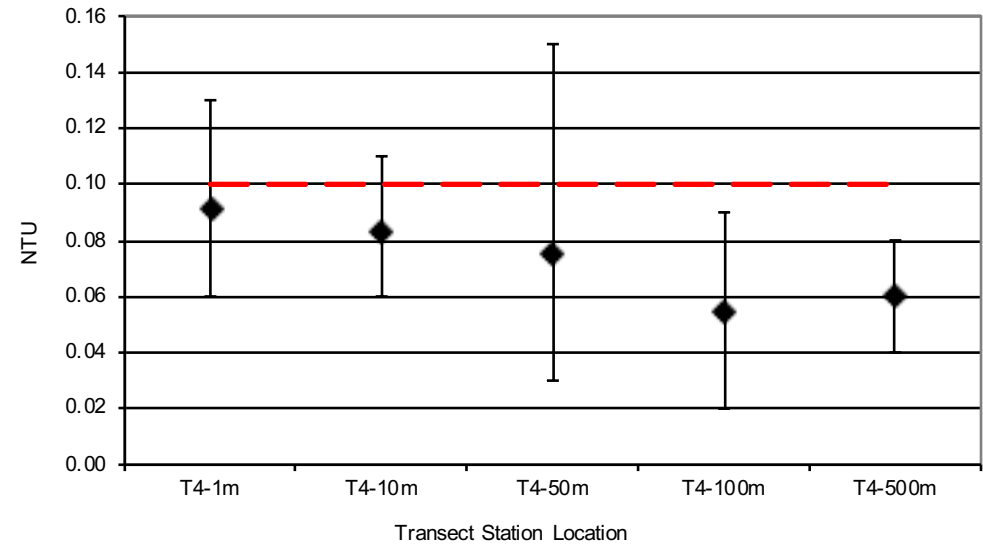
Total Ammonia Geometric Mean



◆ Transect 4, July 2018 - June 2019 - - - 2014 HDOH Class AA Water Quality Standard

Transect 4 Station Summary

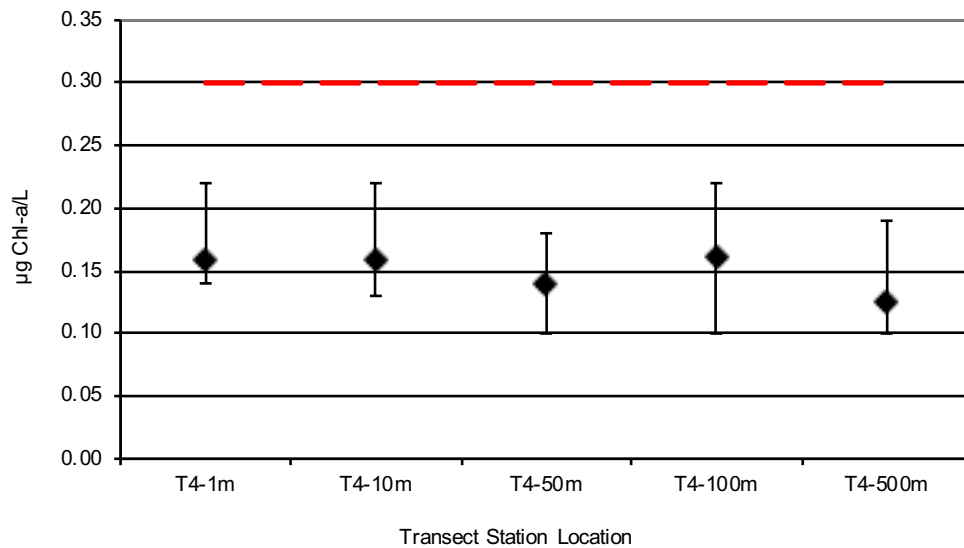
Turbidity Geometric Mean



◆ Transect 4, July 2018 - June 2019 - - - 2014 HDOH Class AA Water Quality Standard

Transect 4 Station Summary

Chlorophyll-a Geometric Mean



◆ Transect 4, July 2018 - June 2019 - - - 2014 HDOH Class AA Water Quality Standard

NELHA Water Quality Laboratory

Transect 4

July 2018 - June 2019

SITE ID	DATE	TIME	Tide		PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		Turbidity	Salinity	Temp.	pH	DO	Chl a
	M/D/Y	(2400)	(ft)	(cycle)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg N/L)	(μM)	(μg Si/L)	(μM)	(μg P/L)	(μM)	(μg N/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(μg/L)
DOH LIMIT					0.16	5	0.32	4.5	0.18	2.5			0.40	12.5	7.1	100	0.10					0.30
T4-1m	8/15/19	929	0.0	Low	0.07	2.1	0.16	2.3	0.25	3.5	2.9	81	0.31	9.5	1.9	27	0.12	35.17	28.2	8.16	6.74	0.20
T4-1m	11/19/19	1101	1.7	High	0.11	3.3	0.11	1.6	0.19	2.6	0.2	5	0.39	12.1	2.5	35	0.13	34.43	27.7	8.28	6.61	0.16
T4-1m	1/23/20	943	0.4	Low	0.09	2.8	0.16	2.3	0.09	1.3	0.0	0	0.38	11.8	2.0	28	0.08	34.95	25.0	8.20	6.74	0.10
T4-1m	6/25/20	908	0.5	Ebb	0.07	2.2	0.16	2.3	0.40	5.6	0.8	23	0.30	9.2	2.3	33	0.10	35.45	26.1	8.19	6.84	0.20
Geomean	FY '20				0.08	2.6	0.15	2.1	0.2	2.8			0.3	10.6	2.2	30	0.11					0.16
T4-10m	8/15/19	934	0.0	Low	0.05	1.7	0.16	2.3	0.17	2.4	2.7	76	0.32	9.9	2.1	30	0.11	35.19	28.2	8.21	6.68	0.15
T4-10m	11/19/19	1108	1.7	High	0.10	3.1	0.06	0.8	0.34	4.7	0.3	7	0.39	12	2.4	34	0.08	34.87	27.7	8.24	6.54	0.16
T4-10m	1/23/20	946	0.4	Low	0.08	2.6	0.16	2.3	0.09	1.3	0.0	0	0.39	12.1	2.9	41	0.06	34.95	25.0	8.20	6.75	0.10
T4-10m	6/25/20	913	0.5	Ebb	0.06	2.0	0.16	2.3	0.61	8.5	0.4	12	0.26	8.1	2.6	37	0.07	35.46	26.2	8.17	6.77	0.22
Geomean	FY '20				0.07	2.3	0.12	1.7	0.24	3.3			0.34	10.4	2.5	35	0.08					0.15
T4-50m	8/15/19	942	0.0	Low	0.03	0.8	0.16	2.3	0.20	2.8	2.0	55	0.29	9.1	2.0	28	0.08	35.24	28.2	8.2	6.62	0.17
T4-50m	11/19/19	1116	1.7	High	0.10	3.2	0.12	1.7	0.45	6.3	0.3	7	0.39	12.2	2.7	38	0.08	34.87	27.7	8.22	6.49	0.12
T4-50m	1/23/20	956	0.4	Low	0.08	2.5	0.16	2.3	0.09	1.25	0.0	0	0.39	12.0	2.6	36	0.06	34.98	25.0	8.25	6.70	0.10
T4-50m	6/25/20	917	0.5	Ebb	0.05	1.5	0.16	2.3	0.52	7.3	0.4	12	0.28	8.6	2.9	40	0.08	35.47	26.2	8.16	6.73	0.20
Geomean	FY '20				0.06	1.8	0.15	2.1	0.25	3.6			0.33	10.3	2.5	35	0.07					0.14
T4-100m	8/15/19	946	0.0	Low	0.03	0.8	0.16	2.3	0.22	3.1	3.2	89	0.29	9.1	2.4	33	0.11	35.25	28.2	8.19	6.57	0.19
T4-100m	11/19/19	1121	1.7	High	0.09	2.8	0.05	0.7	0.73	10.2	0.1	4	0.38	11.9	2.5	35	0.07	34.85	27.7	8.23	6.46	0.11
T4-100m	1/23/20	1001	0.4	Low	0.07	2.1	0.16	2.3	0.09	1.3	1.7	47	0.39	12.1	2.1	30	0.04	34.98	25.0	8.22	6.78	0.10
T4-100m	6/25/20	923	0.5	Ebb	0.05	1.6	0.16	2.3	0.29	4.1	0.3	9	0.28	8.7	1.5	21	0.06	35.47	26.2	8.17	6.64	0.15
Geomean	FY '20				0.05	1.7	0.12	1.7	0.25	3.6			0.33	10.3	2.1	29	0.07					0.13
T4-500m	8/15/19	952	0.0	Low	0.01	0.2	0.16	2.3	0.17	2.4	1.4	41	0.23	7.2	1.40	20	0.06	35.29	28.3	8.20	6.57	0.16
T4-500m	11/19/19	1128	1.7	High	0.10	3.1	0.05	0.7	0.60	8.4	0.2	6	0.40	12.3	2.39	34	0.06	34.81	27.8	8.22	6.45	0.12
T4-500m	1/23/20	1009	0.4	Low	0.07	2.1	0.16	2.3	0.09	1.3	0.0	0	0.38	11.9	2.21	31	0.05	34.99	25.1	8.22	6.68	0.07
T4-500m	6/25/20	930	0.5	Ebb	0.04	1.1	0.16	2.3	0.26	3.7	0.2	6	0.24	7.4	2.50	35	0.05	35.50	26.3	8.18	6.60	0.14
Geomean	FY '20				0.04	1.1	0.12	1.7	0.22	3.1			0.30	9.4	2.1	29	0.05					0.12

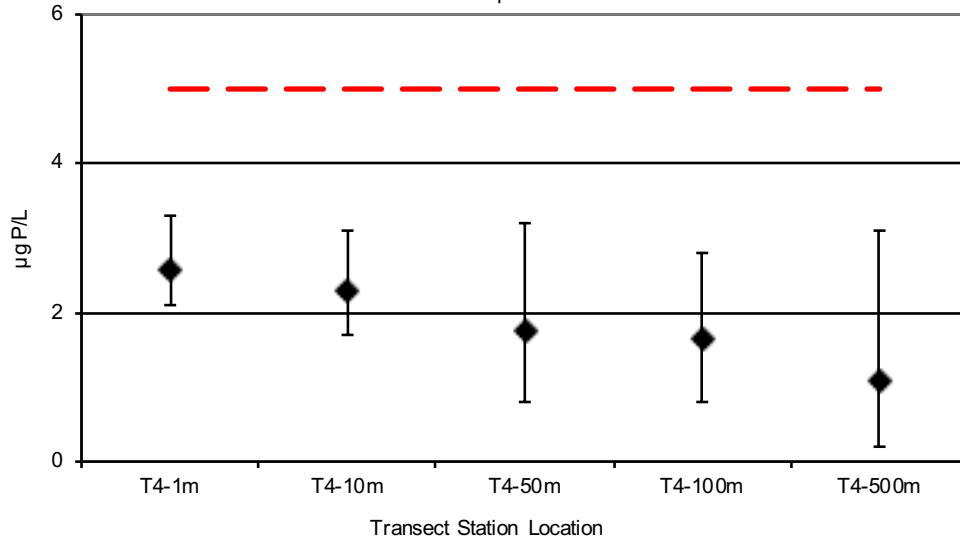
NELHA Water Quality Laboratory

Transect 4

July 2018 - June 2019

Transect 4 Station Summary

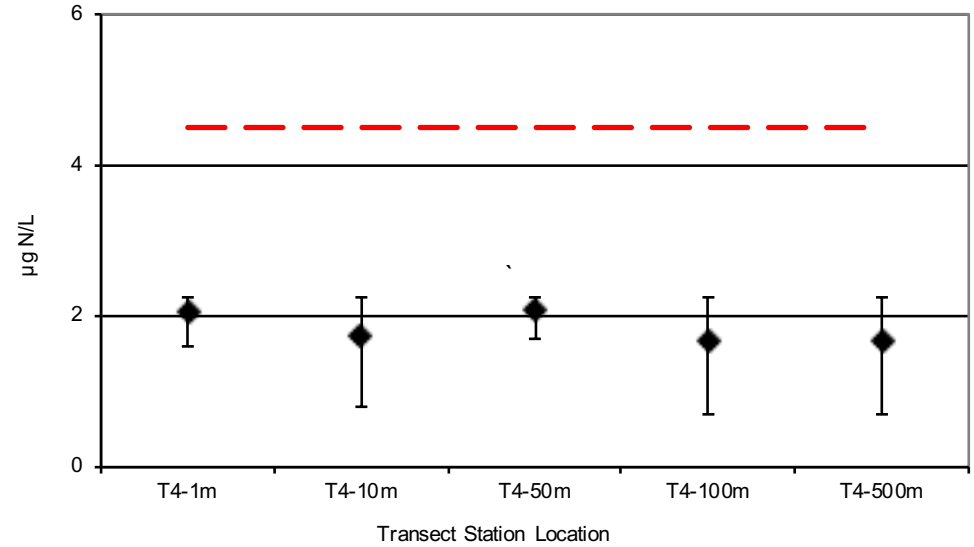
Ortho-Phosphate Geometric Mean



◆ Transect 4, July 2019 - June 2020 — 2014 HDOH Class AA Water Quality Standard

Transect 4 Station Summary

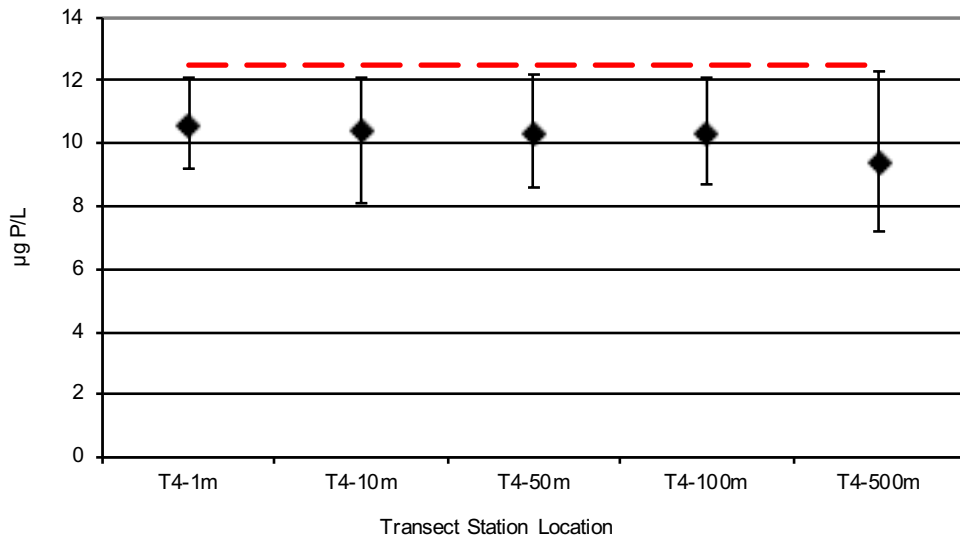
Nitrate + Nitrite Geometric Mean



◆ Transect 4, July 2019 - June 2020 — 2014 HDOH Class AA Water Quality Standard

Transect 4 Station Summary

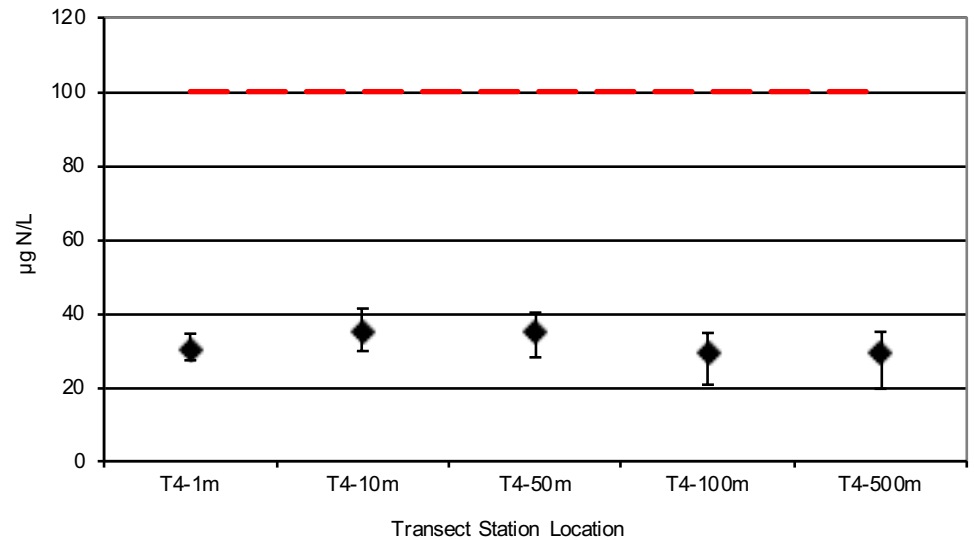
Total Dissolved Phosphorous Geometric Mean



◆ Transect 4, July 2019 - June 2020 — 2014 HDOH Class AA Water Quality Standard

Transect 4 Station Summary

Total Dissolved Nitrogen Geometric Mean



◆ Transect 4, July 2019 - June 2020 — 2014 HDOH Class AA Water Quality Standard

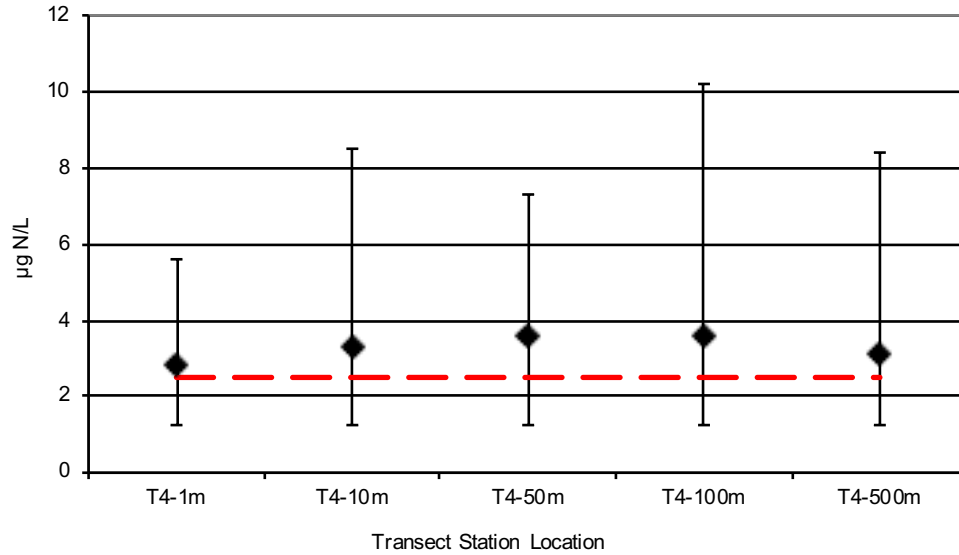
NELHA Water Quality Laboratory

Transect 4

July 2018 - June 2019

Transect 4 Station Summary

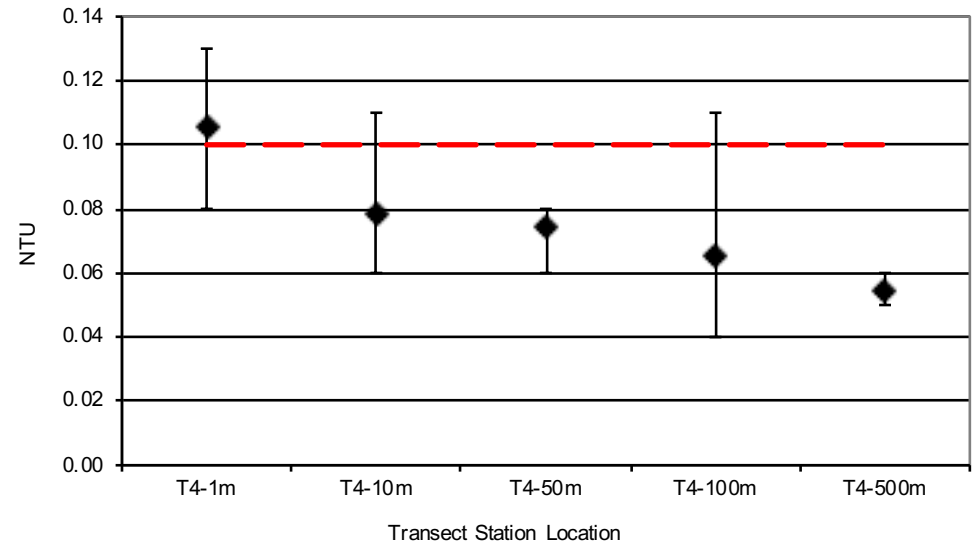
Total Ammonia Geometric Mean



◆ Transect 4, July 2019 - June 2020 - - - 2014 HDOH Class AA Water Quality Standard

Transect 4 Station Summary

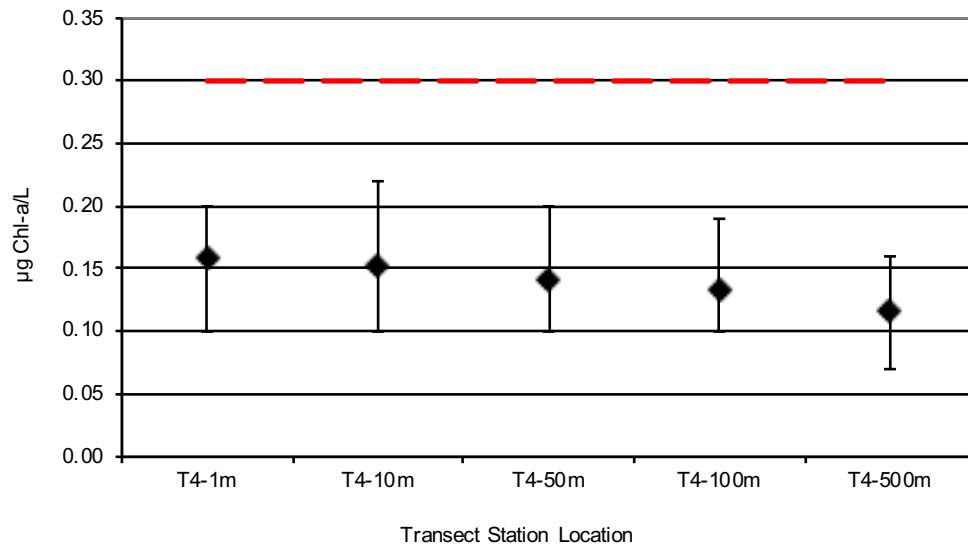
Turbidity Geometric Mean



◆ Transect 4, July 2019 - June 2020 - - - 2014 HDOH Class AA Water Quality Standard

Transect 4 Station Summary

Chlorophyll-a Geometric Mean



◆ Transect 4, July 2019 - June 2020 - - - 2014 HDOH Class AA Water Quality Standard

NELHA Water Quality Laboratory

Transect 4, Station 1

8/3/1993 - 7/16/20

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		TP		TOC	Turbidity	Salinity	Temp.	pH	DO	Chl a	Fecal Coli.	Entero.
	M/D/Y	(2400)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg N/L)	(μM)	(μg Si/L)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg P/L)	(mgC/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(μg/L)	(Bact/100 ml)	(Bact/100 ml)
DOH LIMIT			5		4.5		2.5				12.5		100					0.10					0.30		
O4-1S-8m	8/3/93	926	0.12	3.7	0.15	2.1	0.42	5.9	2.6	74	0.30	9.3	7.7	108	0.37	11.46	1.45	0.08	34.46	26.9	8.25	6.94			
O4-1S-8m	12/8/93	928	0.09	2.8	0.12	1.7	0.20	2.8	2.8	78	0.25	7.7	5.6	78	0.25	7.74	1.28	0.07	34.79	25.6	8.26	6.76			
O4-1S-8m	3/8/94	903	0.20	6.2	0.54	7.6	0.26	3.6	4.4	124	0.38	11.8	5.6	78	0.39	12.08	1.26	0.08	34.17	25.2	8.24	7.06	0.08	2	1
O4-1S-8m	6/13/94	908	0.15	4.6	0.45	6.3	0.14	2.0	4.9	138	0.32	9.9	6.8	96	0.32	9.91	1.25	0.12	34.51	25.5	8.22	7.10	0.07	<1	<1
Geomean FY '94			4.2		3.6		3.3				9.6		89					0.09					0.07		
O4-1S-8m	9/15/94	912	0.10	3.1	0.15	2.1	0.09	1.3	3.3	94	0.29	9.0	5.7	80	0.30	9.29	1.17	0.26	34.61	27.6	8.27	6.72	0.04	<1	<1
O4-1S-8m	11/15/94	822	0.17	5.3	0.48	6.7	0.45	6.3	5.4	153	0.36	11.2	5.8	81	0.39	12.08	1.02	0.09	34.54	26.0	8.24	6.83	0.19	3	1
O4-1S-8m	3/22/95	1208	0.21	6.5	0.39	5.5	0.43	6.0	4.9	138	0.34	10.5	5.4	75	0.34	10.53	1.02	0.11	34.15	25.3	8.26	7.34	0.20	<1	<1
O4-1S-8m	6/21/95	831	0.11	3.4	0.16	2.2	0.34	4.8	2.4	68	0.29	9.0	5.9	83	0.29	8.98	1.01	0.07	34.45	26.2	8.21	6.85	0.05	<1	<1
Geomean FY '95			4.4		3.6		3.9				9.9		80					0.12					0.09		
O4-1S-8m	9/28/95	800	0.10	3.1	0.19	2.7	0.33	4.6	3.1	88	0.28	8.7	10.4	146	0.28	8.67	1.31	0.16	34.60	27.2	8.29	6.78	0.08	2	<1
O4-1S-8m	11/14/95	831	0.11	3.4	0.09	1.3	0.60	8.4	2.7	76	0.31	9.6	5.5	77	0.31	9.60	1.24	0.07	34.36	26.7	8.27	6.65	0.03	<1	<1
O4-1S-8m	3/12/96	908	0.17	5.3	0.35	4.9	0.53	7.4	3.4	94	0.32	9.9	5.2	73	0.32	9.91	0.99	0.06	34.16	25.1	8.22	7.03	0.16	<1	<1
O4-1S-8m	5/14/96	847	0.13	4.0	0.57	8.0	0.19	2.7	4.0	111	0.29	9.0	5.4	76	0.32	9.91	0.94	0.09	34.28	27.0	8.21	7.23	0.17	<1	3
Geomean FY '96			3.9		3.4		5.3				9.3		89					0.09					0.09		
O4-1S-8m	7/31/96	930	0.07	2.2	0.07	1.0	0.33	4.6	2.1	59	0.25	7.7	5.1	72	0.25	7.74	1.07	0.07	34.50	27.9	8.26	6.66	0.11	<1	2
O4-1S-8m	10/2/96	858	0.06	1.9	0.07	1.0	0.16	2.2	3.5	97	0.29	9.0	4.4	62	0.29	8.98	1.09	0.09	34.65	28.1	8.22	6.49	0.09	<1	<1
O4-1S-8m	1/7/97	912	0.12	3.7	0.52	7.3	0.25	3.5	3.8	105	0.34	10.5	4.9	68	0.34	10.53	1.04	0.08	34.65	25.3	8.27	7.06	0.01	<1	1
O4-1S-8m	4/28/97	926	0.17	5.3	0.73	10.2	0.42	5.9	4.5	125	0.60	18.6	5.6	78	0.75	23.23	1.05	0.10	34.41	26.6	8.27	6.86	0.15	<1	<1
Geomean FY '97			3.0		2.9		3.8				10.8		70					0.08					0.06		
O4-1S-8m	8/19/97	914	0.11	3.4	0.47	6.6	0.24	3.4	4.9	136	0.34	10.5	4.8	68	0.35	10.84	1.05	0.09	34.63	26.9	8.38	7.00	0.11	<1	<1
O4-1S-8m	10/7/97	1157	0.13	4.0	0.20	2.8	0.43	6.0	3.1	88	0.33	10.2	4.7	66	0.33	10.22	1.04	0.12	34.74	27.7	8.45	6.81	0.11	<1	<1
O4-1S-8m	3/4/98	916	0.09	2.8	0.15	2.1	0.18	2.5	3.0	83	0.28	8.7	4.9	68	0.31	9.60	1.01	0.09	35.02	24.9	8.23	6.83	0.04	<1	<1
O4-1S-8m	5/5/98	929	0.09	2.8	0.18	2.5	0.15	2.1	3.5	99	0.35	10.8	5.3	75	0.35	10.84	0.98	0.08	35.05	24.1	8.22	7.01	0.06	<1	<1
Geomean FY '98			3.2		3.1		3.2				10.0		69					0.09					0.07		
O4-1S-8m	7/7/98	946	0.12	3.7	0.41	5.7	0.03	0.4	5.9	166	0.38	11.8	5.3	75	0.40	12.39	1.10	0.10	34.94	26.3	8.21	6.68	0.13	<1	<1
O4-1S-8m	10/6/98	905	0.11	3.4	0.26	3.6	0.06	0.8	2.4	67	0.38	11.8	5.9	82	0.43	13.32	1.07	0.08	35.10	27.1	8.22	7.23	0.13	<1	<1
O4-1S-8m	1/19/99	926	0.07	2.2	0.01	0.1	0.15	2.1	8.7	245	0.36	11.2	4.8	67	0.35	10.84	1.14	0.06	35.15	25.1	8.22	6.91	0.16	<1	<1
O4-1S-8m	4/13/99	1014	0.15	4.6	0.36	5.0	0.12	1.7	8.0	224	0.44	13.6	4.5	63	0.41	12.70	1.01	0.09	34.65	24.3	8.21	n/a	0.13	<1	<1
Geomean FY '99			3.4		2.0		1.1				12.0		71					0.08					0.14		

NELHA Water Quality Laboratory

Transect 4, Station 1

8/3/1993 - 7/16/20

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		TP		TOC	Turbidity	Salinity	Temp.	pH	DO	Chl a	Fecal Coli.	Entero.
	M/D/Y	(2400)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg N/L)	(μM)	(μg Si/L)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg P/L)	(mgC/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(μg/L)	(Bact/100 ml)	(Bact/100 ml)
DOH LIMIT			5		4.5		2.5				12.5		100					0.10					0.30		
O4-1S-8m	8/16/99	940	0.11	3.4	0.18	2.5	0.42	5.9	1.7	48	0.35	10.8	4.1	58	0.36	11.15	1.09	0.13	34.87	26.1	8.25	7.06	0.15	<1	1
O4-1S-8m	10/25/99	1035	0.13	4.0	0.28	3.9	0.27	3.8	3.9	109	0.37	11.5	5.3	74	0.37	11.46	1.06	0.11	34.93	26.2	8.28	7.02	0.11	<1	1
O4-1S-8m	1/12/00	946	0.10	3.1	0.03	0.4	0.26	3.6	1.9	52	0.30	9.3	5.1	72	0.30	9.29	0.98	0.05	35.13	24.7	8.26	6.84	0.11	<1	<1
O4-1S-8m	5/16/00	918	0.19	5.9	0.52	7.3	0.10	1.4	6.7	187	0.35	10.8	6.1	86	0.37	11.46	0.97	0.16	34.60	25.1	8.24	7.10	0.22	<1	<1
Geomean FY '00			4.0		2.3		3.3				10.6		72					0.10					0.14		
O4-1S-8m	7/25/00	943	0.10	3.1	0.14	2.0	0.34	4.8	4.5	127	0.37	11.5	5.2	73	0.36	11.15	1.04	0.08	34.86	26.8	8.28	6.71	0.12	<1	2
O4-1S-8m	10/31/00	937	0.10	3.1	0.08	1.1	0.27	3.8	12.9	363	0.36	11.2	5.1	71	0.37	11.46	1.11	0.07	34.96	27.0	8.25	6.57	0.10	<1	3
O4-1S-8m	3/6/01	928	0.16	5.0	0.49	6.9	0.08	1.1	3.9	110	0.39	12.1	6.5	91	0.40	12.39	1.12	0.07	34.70	24.8	8.20	6.59	0.10	<1	<1
O4-1S-8m	5/8/01	1022	0.13	4.0	0.35	4.9	0.19	2.7	6.3	177	0.37	11.5	5.1	71	0.37	11.46	1.03	0.09	34.77	25.0	8.21	6.88	0.11	<1	<1
Geomean FY '01			3.7		2.9		2.7				11.5		76					0.08					0.11		
O4-1S-8m	8/13/01	1032	0.10	3.1	0.01	0.1	0.51	7.1	2.6	72	0.34	10.5	5.3	74	0.34	10.53	1.06	0.09	34.89	26.6	8.23	6.77	0.12	<1	<1
O4-1S-8m	10/30/01	943	0.17	5.3	0.52	7.3	0.06	0.8	5.4	152	0.40	12.4	5.7	80	0.42	13.01	1.00	0.09	34.98	26.8	8.21	8.91	0.19	<1	<1
O4-1S-8m	3/4/02	1006	0.11	3.4	0.20	2.8	0.02	0.3	9.3	262	0.38	11.8	5.4	76	0.40	12.39	1.00	0.09	34.67	24.1	8.23	6.73	0.14	<1	<1
O4-1S-8m	4/16/02	1004	0.20	6.2	0.49	6.9	0.28	3.9	5.8	162	0.41	12.7	5.9	83	0.41	12.70	0.98	0.13	34.40	25.8	8.19	6.54	0.12	<1	<1
Geomean FY '02			4.3		2.1		1.6				11.8		78					0.10					0.14		
O4-1S-8m	7/9/02	1117	0.12	3.7	0.07	1.0	0.15	2.1	2.6	72	0.36	11.2	5.2	73	0.36	11.15	1.08	0.12	34.66	26.8	8.22	6.70	0.09	<1	<1
O4-1S-8m	10/7/02	959	0.11	3.4	0.14	2.0	0.21	2.9	3.1	88	0.32	9.9	5.3	74	0.32	9.91	1.03	0.06	34.95	27.1	8.25	6.74	0.09	<1	1
O4-1S-8m	3/10/03	1138	0.09	2.8	0.23	3.2	0.06	0.8	3.8	106	0.40	12.4	6.3	88	0.37	11.46	0.97	0.06	34.76	24.9	8.26	6.97	0.06	<1	<1
O4-1S-8m	4/22/03	1000	0.09	2.8	0.19	2.7	0.06	0.8	2.9	80	0.31	9.6	4.7	66	0.32	9.91	0.87	0.08	35.05	24.8	8.27	7.87	0.09	<1	<1
Geomean FY '03			3.1		2.0		1.4				10.7		75					0.08					0.08		
O4-1S-8m	8/19/03	1242	0.09	2.8	0.03	0.4	0.20	2.8	4.5	127	0.33	10.2	6.5	91	0.35	10.84	n/a	0.08	34.85	28.3	8.26	6.81	0.14	<1	<1
O4-1S-8m	10/30/03	948	0.10	3.1	0.20	2.8	0.20	2.8	1.6	44	0.38	11.8	6.7	94	0.37	11.46	n/a	0.10	34.83	27.5	8.23	n/a	0.07	<1	<1
O4-1S-8m	3/17/04	1023	0.14	4.3	0.10	1.4	0.15	2.1	2.6	73	0.35	10.8	3.7	51	0.34	10.53	n/a	n/a	34.37	26.0	8.28	6.32	0.14	<1	1
O4-1S-8m	5/24/04	947	0.16	5.0	0.40	5.6	0.12	1.7	3.9	108	0.46	14.2	6.0	83	0.47	14.56	n/a	n/a	33.39	26.7	8.24	6.10	0.01	<1	<1
Geomean FY '04			3.7		1.7		2.3				11.7		78					0.09					0.06		
O4-1S-8m	9/22/04	1022	0.08	2.5	0.01	0.1	0.21	2.9	1.7	46	0.30	9.3	4.3	60	0.30	9.29	n/a	0.08	33.83	27.9	8.24	6.61	0.10	<1	<1
O4-1S-8m	11/29/04	928	0.09	2.8	0.22	3.1	0.22	3.1	3.4	95	0.32	9.9	4.4	61	0.32	9.91	n/a	0.09	33.74	27.0	8.30	9.68	0.07	<1	<1
O4-1S-8m	1/24/05	1004	0.09	2.8	0.52	7.3	0.18	2.5	3.6	100	0.32	9.9	5.2	72	0.31	9.60	n/a	0.11	34.58	25.6	8.31	6.85	0.10	<1	<1
O4-1S-8m	4/13/05	1009	0.14	4.3	0.58	8.1	0.18	2.5	4.4	122	0.37	11.5	5.1	71	0.38	11.77	n/a	0.15	34.37	25.5	8.31	7.05	0.15	<1	<1
Geomean FY '05			3.0		2.2		2.8				10.1		66					0.10					0.10		

NELHA Water Quality Laboratory

Transect 4, Station 1

8/3/1993 - 7/16/20

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		TP		TOC	Turbidity	Salinity	Temp.	pH	DO	Chl a	Fecal Coli.	Entero.
	M/D/Y	(2400)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg N/L)	(μM)	(μg Si/L)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg P/L)	(mgC/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(μg/L)	(Bact/100 ml)	(Bact/100 ml)
DOH LIMIT			5		4.5		2.5				12.5		100					0.10					0.30		
O4-1S-8m	7/21/05	923	0.06	1.9	0.14	2.0	0.32	4.5	0.5	15	0.32	9.9	4.8	68	0.32	9.91	n/a	0.09	34.65	27.4	8.26	6.55	0.02	<1	<1
O4-1S-8m	10/13/05	903	0.06	1.9	0.01	0.1	0.20	2.8	1.7	49	0.32	9.9	4.6	64	0.31	9.60	1.11	0.16	34.82	27.1	8.29	6.58	0.11	<1	1
O4-1S-8m	3/14/06	945	0.13	4.0	0.74	10.4	0.41	5.7	4.2	118	0.37	11.5	3.6	51	0.36	11.15	n/a	0.11	34.81	24.5	8.27	7.00	0.12	<1	<1
O4-1S-8m	5/17/06	916	0.19	5.9	0.66	9.2	0.31	4.3	3.2	91	0.43	13.3	5.5	77	0.46	14.25	1.02	0.17	34.64	24.7	8.27	6.91	0.15	<1	<1
Geomean FY '06			3.0		2.3		4.2				11.1		64					0.13					0.08		
O4-1S-8m	8/16/06	919	0.14	4.3	0.28	3.9	0.27	3.8	2.0	55	0.36	11.2	5.3	75	0.39	12.08	0.96	0.12	34.64	26.8	8.23	7.08	0.09	<1	<1
O4-1S-8m	11/20/06	918	0.14	4.3	0.18	2.5	0.32	4.5	1.8	51	0.37	11.5	5.3	74	0.37	11.46	1.12	0.24	34.81	26.6	8.26	6.88	0.07	<1	<1
O4-1S-8m	2/12/07	1009	0.27	8.4	0.17	2.4	0.56	7.8	1.2	35	0.45	13.9	6.6	93	0.44	13.63	1.40	0.10	34.44	24.8	8.23	6.81	0.13	<1	<1
O4-1S-8m	4/16/07	1006	0.16	5.0	1.37	19.2	0.55	7.7	10.6	298	0.38	11.8	6.5	91	0.41	12.70	0.88	0.27	34.44	26.0	8.24	6.48	0.03	<1	<1
Geomean FY '07			5.3		4.6		5.7				12.0		83					0.17					0.07		
T4-1m	9/26/07	1138	0.14	4.2	0.27	3.8	0.39	5.5	2.6	74	0.36	11.1	5.2	73				0.10	34.96	26.8	8.10	6.12	0.09		
T4-1m	12/14/07	902	0.09	2.8	0.07	1.0			2.8	79	0.34	10.6	5.2	73				0.07	34.71	25.7	8.25	6.82	0.31		
T4-1m	3/11/08	912	0.14	4.2	0.78	10.9	0.06	0.8	12.4	350	0.24	7.5	6.6	92				0.09	34.85	24.8	8.07	6.65	0.65		
T4-1m	6/9/08	950	0.09	2.9	0.37	5.2	0.16	2.2	10.7	299	0.28	8.7	5.9	83				0.19	34.66	25.1	8.09	6.04	0.3		
Geomean FY '08			3.5		3.8		2.1				9.4		80					0.10					0.27		
T4-1m	9/23/08	1035	0.02	0.5	0.15	2.1	0.37	5.2	1.8	50	0.23	7.2	5.4	76				0.08	34.84	26.7	8.07	6.31	0.07		
T4-1m	12/8/08	937	0.16	5	0.28	3.9	0.14	1.9	2.1	59	0.26	8.1	5.4	76				0.13	34.97	26.0	8.29	5.64	0.10		
T4-1m	2/10/09	838	0.21	6.4	1.11	15.5	0.12	1.7	3.8	107	0.04	1.2	8.9	125				0.14	35.07	24.6	8.04	6.29	0.11		
T4-1m	6/30/09	923	0.25	7.8	0.33	4.6	0.81	11.4	4.2	118	0.35	10.8	4.4	61				0.27	34.89	26.8	8.21	5.95	0.15		
Geomean FY '09			3.3		4.9		3.7				5.2		81					0.14					0.10		
T4-1m	9/10/09	904	0.19	5.9	0.16	2.3	0.22	3.1	9.9	279	0.27	8.3	7.6	106				0.08	35.21	27.2	8.21	5.62	0.21		
T4-1m	11/24/09	905	0.03	1	0.17	2.4	0.69	9.6	9.6	271	0.24	7.5	6.3	89				0.11	35.25	25.2	8.25	6.50	0.14		
T4-1m	2/24/10	937	0.14	4.3	0.24	3.3	0.36	5.1	2.6	72	0.15	4.6	4.1	58				0.14	35.06	24.7	8.21	6.38	0.16		
T4-1m	5/25/10	915	0.05	1.4	0.36	5.1	0.14	2	3.2	90	0.04	1.1	4.3	60				0.06	34.88	25.1	8.23	7.06	0.10		
Geomean FY '10			2.4		3.1		4.2				4.2		75					0.09					0.15		
T4-1m	8/11/10	910	0.02	0.6	0.57	8	0.22	3.1	3.8	108	0.36	11.3	4.1	57				0.06	34.90	26.08	8.25	6.71	0.12		
T4-1m	11/9/10	910	0.05	1.7	0.25	3.5	0.10	1.4	4.8	135	0.46	14.4	6.8	95				0.07	34.92	26.31	8.26	6.35	0.05		
T4-1m	1/11/11	1126	0.15	4.8	0.28	3.9	0.20	2.8	2.5	70	0.44	13.7	3.9	55				0.09	35.01	24.98	8.21	6.42	0.08		
T4-1m	4/27/11	920	0.17	5.2	0.34	4.8	0.09	1.3	3.9	109	0.48	14.9	4.0	56				0.10	34.86	24.87	8.20	6.38	0.08		
Geomean FY '11			2.2		4.8		2.0				13.5		64					0.08					0.08		

NELHA Water Quality Laboratory

Transect 4, Station 1

8/3/1993 - 7/16/20

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		TP		TOC	Turbidity	Salinity	Temp.	pH	DO	Chl a	Fecal Coli.	Enter.
	M/D/Y	(2400)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg N/L)	(μM)	(μg Si/L)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg P/L)	(mgC/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(μg/L)	(Bact/100 ml)	(Bact/100 ml)
DOH LIMIT			5		4.5		2.5				12.5		100					0.10					0.30		
T4-1m	7/27/11	910	0.21	6.6	0.39	5.4	0.41	5.8	2.8	79	0.51	15.9	5.0	70				0.07	34.77	26.03	8.21	6.27	0.12		
T4-1m	10/19/11	942	0.06	1.9	0.16	2.3	0.14	1.9	2.5	72	0.38	11.8	4.6	64				0.05	35.08	26.52	8.24	7.30	0.10		
T4-1m	1/26/12	910	0.11	3.4	0.34	4.7	0.12	1.7	2.9	82	0.37	11.4	4.3	60				0.04	34.98	24.41	8.21	6.77	0.13		
T4-1m	4/25/12	932	0.21	6.5	0.47	6.6	0.46	6.4	2.2	62	0.54	16.6	5.5	77				0.23	34.89	24.82	8.19	6.99	0.10		
Geomean FY '12			4.1		4.4		3.3				13.7		67					0.08					0.11		
T4-1m	7/25/12	921	0.06	2	0.29	4	0.34	4.8	2.3	64	0.42	13	5.4	76				0.06	35.02	26.25	8.23	6.84	0.08		
T4-1m	11/28/12	924	0.12	3.6	0.19	2.6	0.31	4.4	2.0	57	0.45	13.9	5.7	80				0.10	35.20	25.28	8.20	6.82	0.08		
T4-1m	1/24/13	908	0.14	4.4	0.71	9.9	0.14	1.9	3.5	98	0.47	14.5	6.4	90				0.08	35.02	24.65	8.21	6.40	0.09		
T4-1m	4/17/13	1021	0.16	4.9	0.53	7.4	0.26	3.6	2.2	62	0.54	16.6	8.5	119				0.09	35.13	25.11	8.22	6.93	0.17		
Geomean FY '13			3.5		5.3		3.5				14.4		90					0.08					0.10		
T4-1m	8/6/13	929	0.10	3.2	0.01	0.2	0.11	1.5	2.8	79	0.38	11.8	7.0	99				0.11	35.11	26.3	8.26	7.09	0.17		
T4-1m	10/30/13	909	0.15	4.7	0.34	4.8	0.22	3.1	1.7	47	0.47	14.6	6.4	90				0.08	34.92	27.0	8.23	5.81	0.17		
T4-1m	2/5/14	928	0.17	5.2	0.34	4.8	0.28	3.9	2.3	64	0.46	14.1	5.6	78				0.02	34.93	25.2	8.21	6.48	0.08		
T4-1m	5/7/14	923	0.16	5.0	0.49	6.9	0.34	4.7	1.7	47	0.47	14.6	8.8	123				0.11	34.75	25.7	8.20	5.87	0.12		
Geomean FY '14			4.4		2.4		3.0				13.7		96					0.07					0.13		
T4-1m	8/6/14	919	0.18	5.5	0.11	1.5	0.31	4.4	0.8	23	0.50	15.4	6.4	89				0.10	34.92	26.8	8.23	6.51	0.13		
T4-1m	12/4/14	941	0.12	3.8	0.15	2.1	0.43	6.0	0.7	19	0.46	14.3	9.2	130				0.13	35.19	26.4	8.24	6.26	0.16		
T4-1m	3/5/15	932	0.07	2.3	0.55	7.7	0.41	5.8	1.2	34	0.26	8.0	7.6	106				0.11	34.72	25.4	8.20	6.88	0.14		
T4-1m	6/18/15	919	0.12	3.6	0.64	9.0	0.34	4.7	2.5	71	0.14	4.2	8.0	113				0.10	34.38	26.7	8.14	6.63	0.11		
Geomean FY '15			3.6		3.8		5.2				9.3		108					0.11					0.13		
T4-1m	8/29/15	933	0.16	4.9	0.24	3.4	0.31	4.3	7.1	200	0.27	8.5	5.4	75				0.06	34.49	28.5	8.20	6.25	0.20		
T4-1m	11/18/15	944	0.16	5.0	0.53	7.4	0.14	2.0	3.0	84	0.54	16.7	7.2	100				0.08	34.63	27.3	8.27	6.90	0.17		
T4-1m	3/2/16	836	0.18	5.5	0.43	6.0	0.27	3.8	0.0	0	0.56	17.2	5.7	79				0.09	34.69	25.2	8.24	5.89	0.16		
T4-1m	5/4/16	919	0.13	4.0	0.21	2.9	0.18	2.5	1.0	28	0.37	11.4	6.7	94				0.10	34.65	25.8	8.19	6.22	0.16		
Geomean FY '16			4.8		4.6		3.0				12.9		87					0.08					0.17		
T4-1m	7/7/16	930	0.13	4.0	0.14	1.9	0.59	8.3	0.9	26	0.46	14.1	3.6	50				0.14	34.67	26.8	8.30	6.89	0.17		
T4-1m	12/21/16	931	0.10	3.2	0.58	8.1	0.19	2.7	2.2	62	0.37	11.4	3.9	55				0.04	34.60	25.4	8.25	6.08	0.12		
T4-1m	3/1/17	1100	0.04	1.3	0.63	8.8	0.14	1.9	1.3	38	0.33	10.3	4.9	68				0.09	34.74	24.6	8.23	5.97	0.12		
T4-1m	5/10/17	1028	0.02	0.7	0.60	8.4	0.09	1.2	2.4	68	0.22	6.9	4.8	67				0.10	34.76	25.9	8.24	4.27	0.08		
Geomean FY '17			1.8		5.8		2.7				10.3		60					0.08					0.12		

NELHA Water Quality Laboratory

Transect 4, Station 1

8/3/1993 - 7/16/20

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		TP		TOC	Turbidity	Salinity	Temp.	pH	DO	Chl a	Fecal Coli.	Enter.
	M/D/Y	(2400)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg N/L)	(μM)	(μg Si/L)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg P/L)	(mgC/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(μg/L)	(Bact/100 ml)	(Bact/100 ml)
DOH LIMIT			5		4.5		2.5				12.5		100					0.10					0.30		
T4-1m	9/28/17	923	0.12	3.6	0.18	2.5	0.14	1.9	0.3	9	0.40	12.4	2.8	39				0.08	34.82	27.9	8.16	5.10	0.08		
T4-1m	11/30/17	913	0.12	3.7	0.48	6.7	0.54	7.5	2.2	61	0.37	11.5	3.9	54				0.11	35.12	26.3	8.20	5.74	0.18		
T4-1m	2/6/18	954	0.09	2.7	0.19	2.6	0.45	6.3	1.7	47	0.35	10.7	3.1	43				0.10	34.81	24.9	8.16	5.98	0.08		
T4-1m	5/17/18	927	0.13	4.1	0.35	4.9	0.26	3.7	3.0	84	0.39	12.1	5.2	73				0.12	34.72	26.0	8.14	6.65	0.10		
Geomean	FY '18		3.5		3.8		4.3				11.7		51					0.10					0.10		
T4-1m	9/26/18	1156	0.07	2.1	0.16	2.3	0.33	4.6	0.2	5	0.32	9.9	2.2	31				0.13	34.64	27.6	8.15	4.91	0.14		
T4-1m	11/14/18	1015	0.05	1.6	0.29	4.1	0.31	4.3	0.1	3	0.33	10.3	6.9	97				0.08	34.90	27.3	8.19	6.09	0.15		
T4-1m	1/23/19	959	0.15	4.7	0.50	7.0	0.15	2.1	2.8	79	0.41	12.6	2.7	38				0.11	34.85	24.9	8.16	5.24	0.22		
T4-1m	4/17/19	950	0.15	4.5	0.41	5.7	0.24	3.3	2.1	59	0.41	12.6	2.6	36				0.06	34.70	25.7	8.11	7.13	0.14		
Geomean	FY '19		2.9		4.4		3.4				11.3		45					0.09					0.16		
T4-1m	8/15/19	929	0.07	2.1	0.16	2.3	0.25	3.5	2.9	81	0.31	9.5	1.9	27				0.12	35.17	28.2	8.16	6.74	0.20		
T4-1m	11/19/19	1101	0.11	3.3	0.11	1.6	0.19	2.6	0.2	5	0.39	12.1	2.5	35				0.13	34.43	27.7	8.28	6.61	0.16		
T4-1m	1/23/20	943	0.09	2.8	0.16	2.3	0.09	1.3	0.0	0	0.38	11.8	2.0	28				0.08	34.95	25.0	8.20	6.74	0.10		
T4-1m	6/25/20	908	0.07	2.2	0.16	2.3	0.40	5.6	0.8	23	0.30	9.2	2.3	33				0.10	35.45	26.1	8.19	6.84	0.20		
Geomean	FY '20		2.6		2.1		2.8				10.6		30					0.11					0.16		

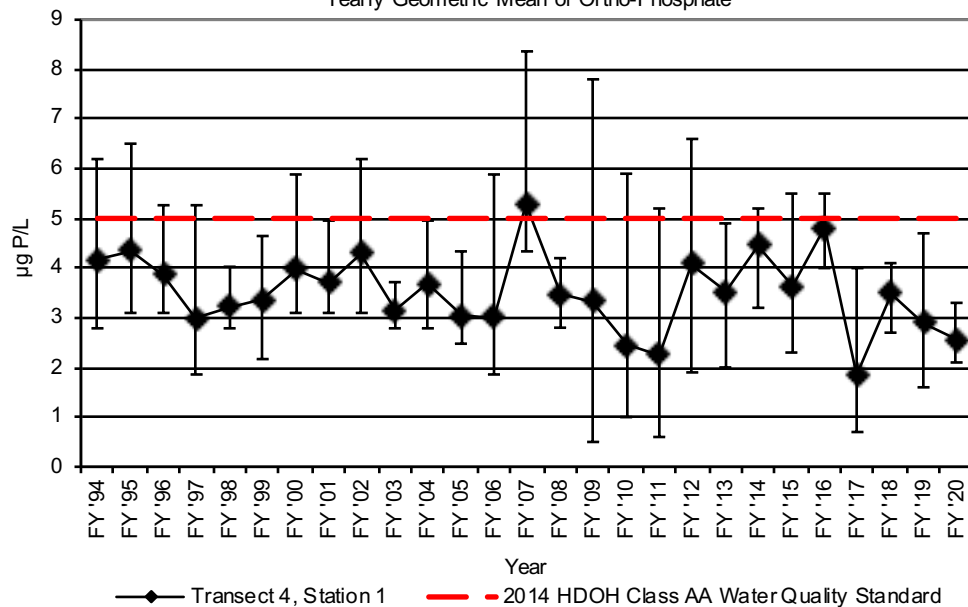
NELHA Water Quality Laboratory

Transect 4, Station 1

8/3/1993 - 7/16/20

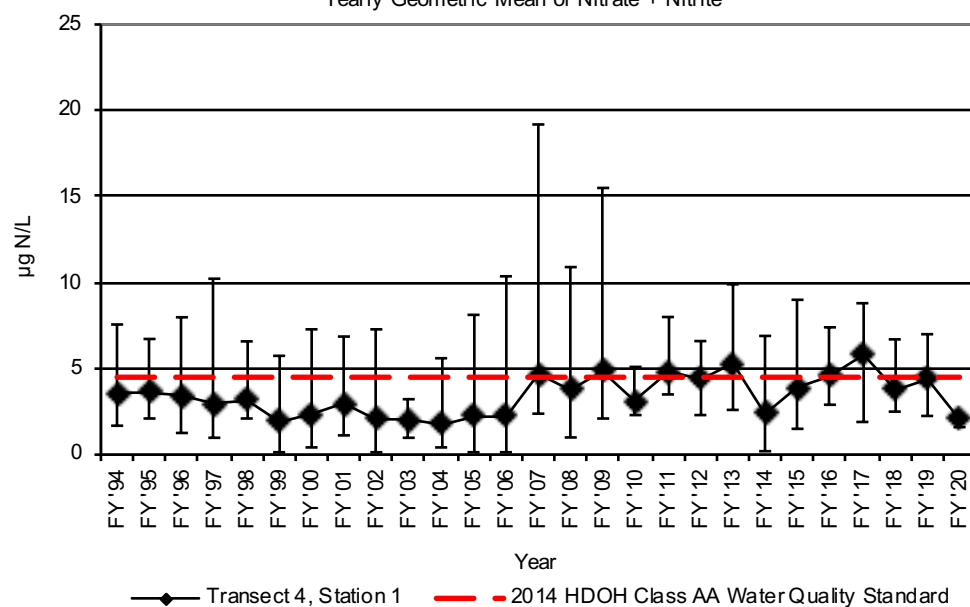
NELHA Offshore Transect 4, Station 1

Yearly Geometric Mean of Ortho-Phosphate



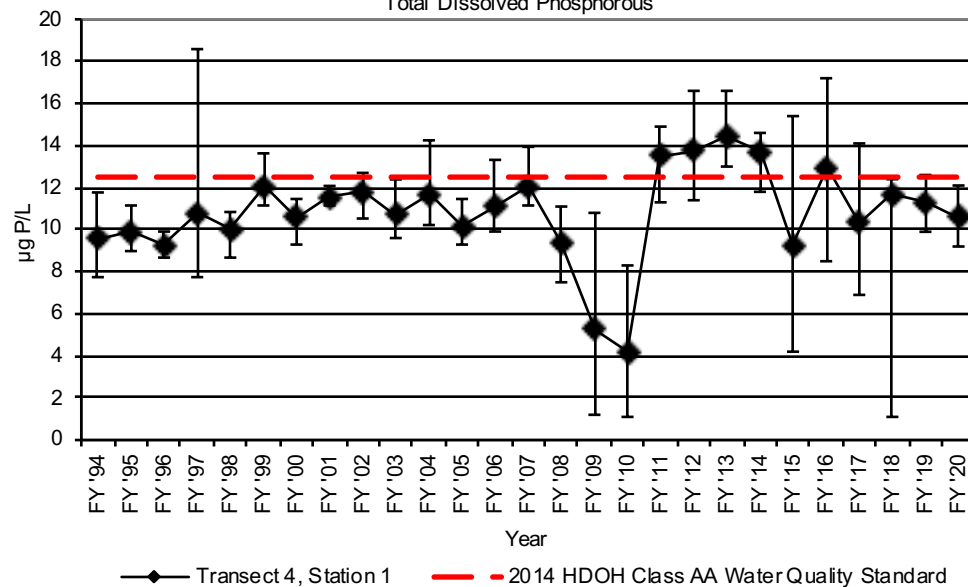
NELHA Offshore Transect 4, Station 1

Yearly Geometric Mean of Nitrate + Nitrite



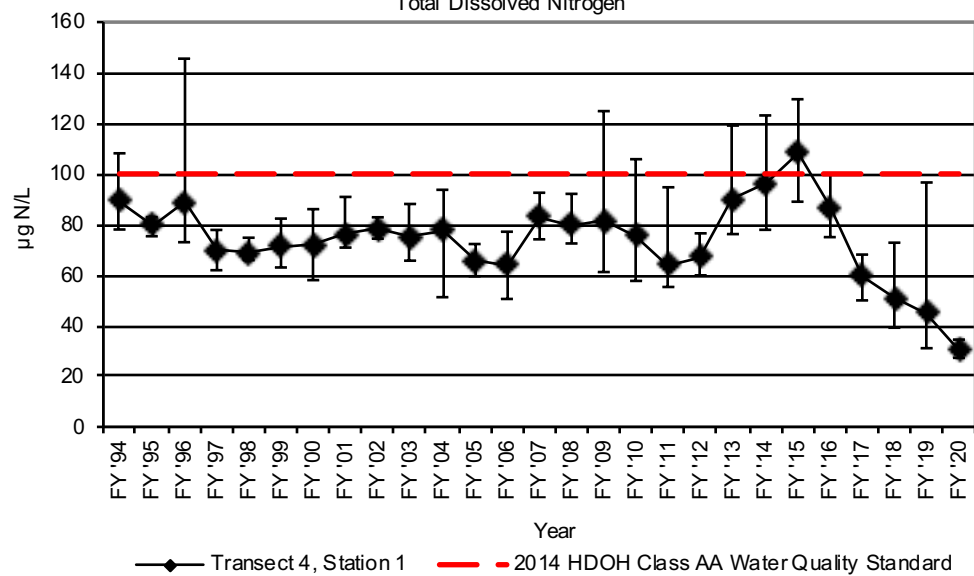
NELHA Offshore Transect 4, Station 1

Yearly Geometric Mean of
Total Dissolved Phosphorous



NELHA Offshore Transect 4, Station 1

Yearly Geometric Mean of
Total Dissolved Nitrogen



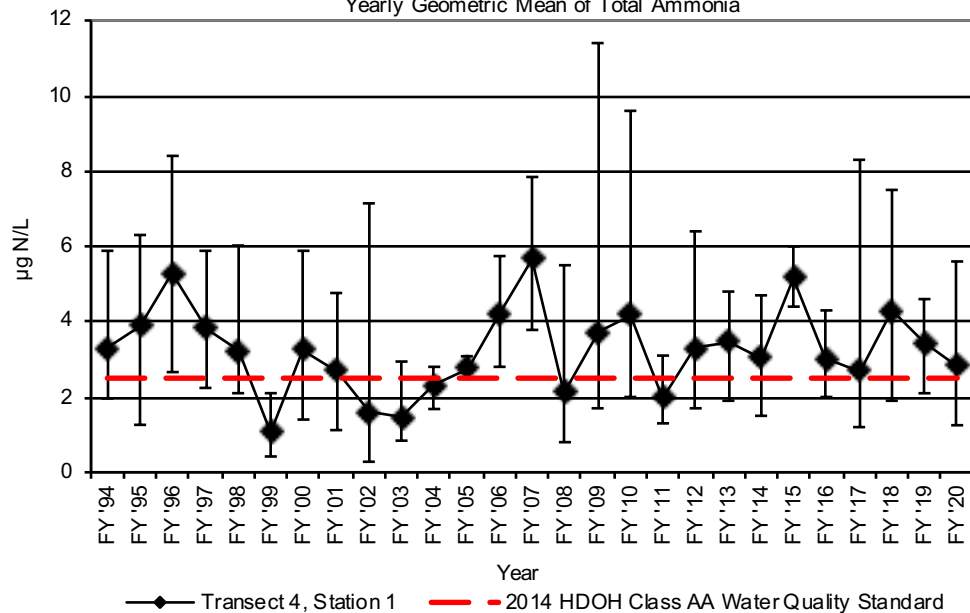
NELHA Water Quality Laboratory

Transect 4, Station 1

8/3/1993 - 7/16/20

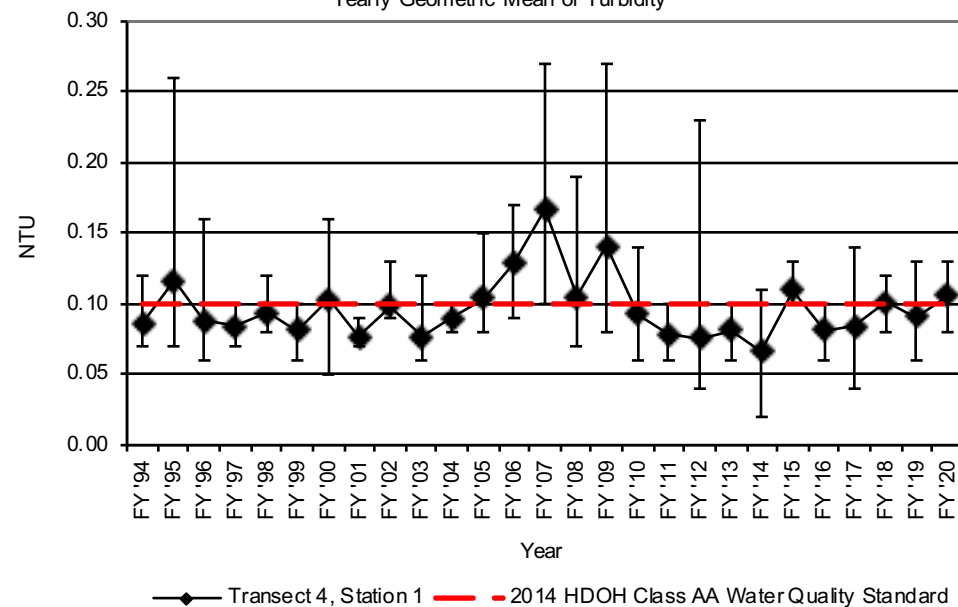
NELHA Offshore Transect 4, Station 1

Yearly Geometric Mean of Total Ammonia



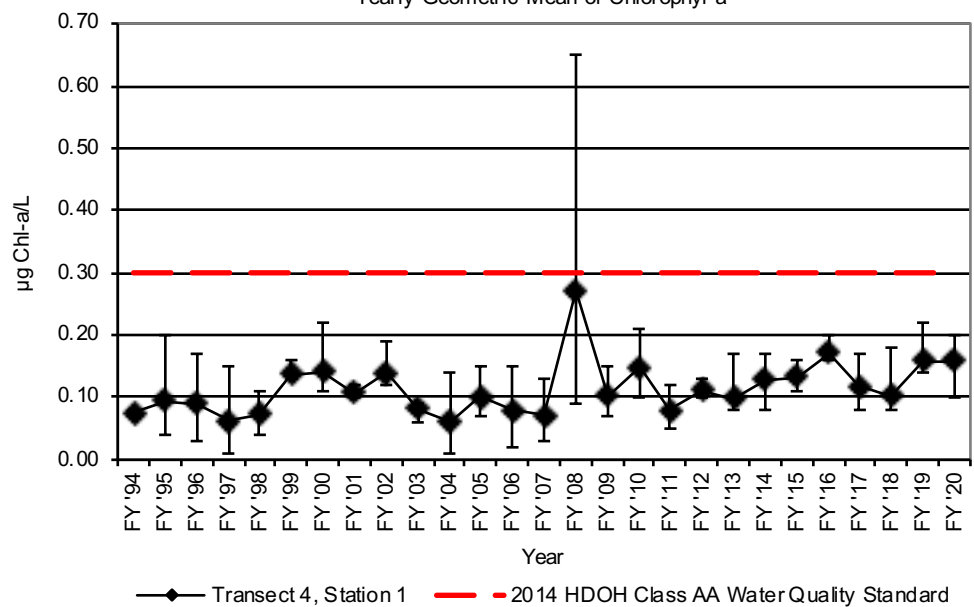
NELHA Offshore Transect 4, Station 1

Yearly Geometric Mean of Turbidity



NELHA Offshore Transect 4, Station 1

Yearly Geometric Mean of Chlorophyll-a



NELHA Water Quality Laboratory

Transect 4, Station 2

8/3/1993 - 7/16/20

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		Turbidity	Salinity	Temp.	pH	DO	Chl a			
	M/D/Y	(2400)	(µM)	(µg P/L)	(µM)	(µg N/L)	(µM)	(µg N/L)	(µM)	(µg Si/L)	(µM)	(µg P/L)	(µM)	(µg N/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(µg/L)			
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30			
O4-2S-23m	8/3/93	917	0.10	3.1	0.08	1.1	0.46	6.4	3.8	105			5.88 82.36		0.06	34.464	26.8						
O4-2S-23m	12/8/93	921	0.07	2.2	0.12	1.7	0.10	1.4	2.3	65					0.05	34.795	25.7						
O4-2S-23m	3/8/94	856	0.20	6.2	0.38	5.3	0.19	2.7	4.0	111					0.07	34.185	25.1						
O4-2S-23m	6/13/94	900	0.13	4.0	0.19	2.7	0.08	1.1	6.6	185					0.09	34.533	25.5						
Geomean	FY '94		3.6		2.3		2.3								0.07								
O4-2S-23m	9/15/94	857	0.08	2.5	0.09	1.3	0.14	2.0	3.2	91					0.11	34.610	27.6						
O4-2S-23m	11/15/94	814	0.15	4.6	0.37	5.2	0.45	6.3	4.7	131					0.07	34.567	26.0						
O4-2S-23m	3/22/95	1159	0.21	6.5	0.45	6.3	0.36	5.0	6.0	167					0.11	34.127	25.3						
O4-2S-23m	6/21/95	826	0.10	3.1	0.13	1.8	0.33	4.6	2.3	64					0.06	34.460	26.2						
Geomean	FY '95		3.9		2.9		4.1																
O4-2S-23m	9/28/95	1000	0.08	2.5	0.06	0.8	0.43	6.0	3.0	83					0.09	34.596	27.4						
O4-2S-23m	11/14/95	825	0.10	3.1	0.06	0.8	0.52	7.3	4.8	135					0.05	34.360	26.7						
O4-2S-23m	3/12/96	905	0.16	5.0	0.29	4.1	0.54	7.6	3.1	87					0.10	34.168	25.1						
O4-2S-23m	5/14/96	840	0.15	4.6	1.09	15.3	0.24	3.4	5.5	153					0.09	34.222	27.0						
Geomean	FY '96		3.6		2.6		5.8								0.08								
O4-2S-23m	7/31/96	920	0.07	2.2	0.05	0.7	0.35	4.9	3.4	96					0.09	34.503	27.9						
O4-2S-23m	10/2/96	853	0.07	2.2	0.03	0.4	0.15	2.1	2.8	77					0.07	34.649	28.0						
O4-2S-23m	1/7/97	908	0.11	3.4	0.44	6.2	0.22	3.1	4.5	127					0.07	34.655	25.4						
O4-2S-23m	4/28/97	920	0.15	4.6	0.50	7.0	0.46	6.4	5.2	145					0.11	34.400	26.6						
Geomean	FY '97		2.9		1.9		3.8																
O4-2S-23m	8/19/97	909	0.08	2.5	0.44	6.2	0.24	3.4	3.5	99					0.08	34.630	27.0						
O4-2S-23m	10/7/97	1152	0.14	4.3	0.17	2.4	0.44	6.2	3.3	92					0.10	34.732	27.7						
O4-2S-23m	3/4/98	912	0.09	2.8	0.09	1.3	0.23	3.2	3.8	105					0.06	35.011	24.9						
O4-2S-23m	5/5/98	923	0.08	2.5	0.18	2.5	0.14	2.0	3.6	100					0.07	35.028	24.1						
Geomean	FY '98		2.9		2.6		3.4								0.08								
O4-2S-23m	7/7/98	940	0.11	3.4	0.30	4.2	0.04	0.6	6.6	186					0.08	34.948	26.3						
O4-2S-23m	10/6/98	859	0.09	2.8	0.05	0.7	0.02	0.3	1.8	50					0.09	35.129	26.8						
O4-2S-23m	1/19/99	919	0.07	2.2	0.01	0.1	0.16	2.2	2.3	65					0.08	35.152	25.1						
O4-2S-23m	4/13/99	1009	0.15	4.6	0.32	4.5	0.10	1.4	5.0	140					0.09	34.646	24.3						
Geomean	FY '99		3.1		1.2		0.8																

NELHA Water Quality Laboratory

Transect 4, Station 2

8/3/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O4-2S-23m	8/16/99	938	0.10	3.1	0.18	2.5	0.42	5.9	1.7	48					0.08	34.876	26.1			
O4-2S-23m	10/25/99	1030	0.10	3.1	0.01	0.1	0.21	2.9	2.6	74					0.09	34.966	26.1			
O4-2S-23m	1/12/00	942	0.10	3.1	0.02	0.3	0.27	3.8	1.9	53					0.05	35.139	24.7			
O4-2S-23m	5/16/00	911	0.19	5.9	0.47	6.6	0.10	1.4	8.2	231					0.15	34.588	25.1			
Geomean	FY '00		3.6		0.9		3.1								0.09					
O4-2S-23m	7/25/00	938	0.09	2.8	0.10	1.4	0.05	0.7	5.7	161					0.06	34.859	26.8			
O4-2S-23m	10/31/00	934	0.09	2.8	0.07	1.0	0.19	2.7	2.7	75					0.05	34.961	26.9			
O4-2S-23m	3/6/01	925	0.14	4.3	0.15	2.1	0.08	1.1	3.5	99					0.10	34.697	24.8			
O4-2S-23m	5/8/01	1019	0.13	4.0	0.06	0.8	0.15	2.1	4.0	112					0.06	34.746	25.0			
Geomean	FY '01		3.4		1.2		1.4								0.07					
O4-2S-23m	8/13/01	1028	0.09	2.8	0.01	0.1	0.29	4.1	5.0	140					0.10	34.866	26.7			
O4-2S-23m	10/30/01	937	0.16	5.0	0.50	7.0	0.03	0.4	3.2	90					0.07	34.985	26.7			
O4-2S-23m	3/4/02	1001	0.11	3.4	0.12	1.7	0.01	0.1	5.7	161					0.09	34.671	24.1			
O4-2S-23m	4/16/02	1001	0.21	6.5	0.38	5.3	0.27	3.8	6.9	195					0.09	34.393	25.6			
Geomean	FY '02		4.2		1.7		1.0								0.09					
O4-2S-23m	7/9/02	1114	0.11	3.4	0.07	1.0	0.12	1.7	2.6	72					0.10	34.658	26.7			
O4-2S-23m	10/7/02	955	0.11	3.4	0.04	0.6	0.17	2.4	3.5	99					0.05	34.948	27.0			
O4-2S-23m	3/10/03	1123	0.10	3.1	0.09	1.3	0.06	0.8	3.6	100					0.07	34.684	25.1			
O4-2S-23m	4/22/03	956	0.08	2.5	0.04	0.6	0.03	0.4	2.2	62					0.06	35.038	24.9			
Geomean	FY '03		3.1		0.8		1.1								0.07					
O4-2S-23m	8/19/03	1227	0.07	2.2	0.01	0.1	0.20	2.8	1.4	40					0.08	34.883	28.2			
O4-2S-23m	10/30/03	933	0.09	2.8	0.10	1.4	0.20	2.8	4.7	132					0.10	34.822	27.5			
O4-2S-23m	3/17/04	1017	0.13	4.0	0.10	1.4	0.19	2.7	1.6	46					n/a	34.334	26.0			
O4-2S-23m	5/24/04	941	0.15	4.6	0.26	3.6	0.06	0.8	3.7	103					n/a	33.44	26.8			
Geomean	FY '04		3.3		1.0		2.0								0.09					
O4-2S-23m	9/22/04	1044	0.06	1.9	0.01	0.1	0.23	3.2	1.8	50					0.07	33.77	28.1			
O4-2S-23m	11/29/04	922	0.06	1.9	0.10	1.4	0.14	2.0	1.1	32					0.08	33.70	27.0			
O4-2S-23m	1/24/05	1001	0.11	3.4	0.19	2.7	0.09	1.3	2.4	68					0.08	34.777	25.5			
O4-2S-23m	4/13/05	1002	0.14	4.3	0.55	7.7	0.19	2.7	4.8	135					0.09	34.374	25.4			
Geomean	FY '05		2.7		1.4		2.1								0.08					

NELHA Water Quality Laboratory

Transect 4, Station 2

8/3/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O4-2S-23m	7/21/05	916	0.05	1.5	0.04	0.6	0.28	3.9	1.5	43					0.06	34.690	27.2			
O4-2S-23m	10/13/05	854	0.06	1.9	0.02	0.3	0.23	3.2	1.6	45					0.11	34.833	27.2			
O4-2S-23m	3/14/06	940	0.09	2.8	0.04	0.6	0.41	5.7	5.8	162					0.07	34.861	24.4			
O4-2S-23m	5/17/06	908	0.13	4.0	0.07	1.0	0.19	2.7	2.1	59					0.11	34.676	24.4			
Geomean	FY '06		2.4		0.5		3.7								0.08					
O4-2S-23m	8/16/06	912	0.12	3.7	0.30	4.2	0.16	2.2	2.4	69					0.14	34.633	26.8			
O4-2S-23m	11/20/06	909	0.11	3.4	0.13	1.8	0.24	3.4	1.6	46					0.19	34.807	26.7			
O4-2S-23m	2/12/07	1002	0.12	3.7	0.13	1.8	0.30	4.2	1.3	37					0.22	34.457	24.5			
O4-2S-23m	4/16/07	956	0.15	4.6	1.00	14.0	0.30	4.2	9.4	264					0.14	34.472	26.0			
Geomean	FY '07		3.8		3.7		3.4								0.17					
T4-10m	9/26/07	1147	0.13	4.0	0.61	8.5	0.25	3.5	13.6	383	0.41	12.6	5.9	82	0.10	34.929	26.9	8.24	6.78	0.17
T4-10m	12/14/07	904	0.08	2.4	0.05	0.7			3.4	95	0.31	9.5	6.1	85	0.12	34.722	25.6	8.22	6.70	0.31
T4-10m	3/11/08	914	0.21	6.5	0.55	7.7	0.06	0.8	3.1	86	0.26	7.9	5.0	70	0.11	34.865	24.8	8.08	6.63	0.51
T4-10m	6/9/08	955	0.07	2.2	0.32	4.5	0.16	2.2	7.6	214	0.34	10.4	6.0	84	0.12	34.6638	25.1	8.1	5.96	0.26
Geomean	FY '08		3.4		3.8		1.8				10.0		80		0.11					0.29
T4-10m	9/23/08	1042	0.03	0.8	0.14	1.9	0.44	6.2	1.7	48	0.31	9.7	4.6	64	0.08	34.836	26.8	8.06	6.21	0.1
T4-10m	12/8/08	949	0.17	5.4	0.32	4.5	0.29	4	2.2	62	0.55	17	5.2	73	0.08	34.982	26.1	8.30	5.64	0.07
T4-10m	2/10/09	846	0.11	3.4	0.58	8.1	0.12	1.7	2.3	64	0.22	6.8	8.0	113	0.18	35.079	24.7	8.05	5.98	0.08
T4-10m	6/30/09	929	0.27	8.5	0.30	4.2	0.12	1.7	6.1	171	0.39	12.1	5.2	72	0.12	34.876	26.7	8.20	6.13	0.08
Geomean	FY '09		3.3		4.1		2.9				10.8		78		0.11					0.08
T4-10m	9/10/09	910	0.10	3.2	0.16	2.2	0.10	1.4	4.7	133	0.44	13.6	5.6	79	0.06	35.18	27.2	8.26	5.88	0.06
T4-10m	11/24/09	908	0.03	0.8	0.16	2.2	0.19	2.7	23.6	662	0.32	9.9	5.8	81	0.05	35.26	25.2	8.26	6.58	0.15
T4-10m	2/24/10	941	0.15	4.5	0.25	3.5	0.37	5.2	3.0	84	0.27	8.5	4.2	59	0.15	35.08	24.7	8.24	5.96	0.27
T4-10m	5/25/10	921	0.04	1.2	0.39	5.4	0.11	1.5	2.9	80	0.14	4.4	6.4	89	0.06	34.89	25.1	8.22	7.10	0.03
Geomean	FY '10		1.9		3.1		2.3				8.4		76		0.07					0.09
T4-10m	8/11/10	915	0.05	1.4	0.53	7.4	0.28	3.9	3.0	85	0.32	9.9	3.5	50	0.07	34.92	26.07	8.24	6.72	0.10
T4-10m	11/9/10	914	0.05	1.5	0.25	3.5	0.10	1.4	7.7	217	0.45	14	5.0	70	0.09	34.91	26.28	8.27	6.39	0.05
T4-10m	1/11/11	1131	0.15	4.6	0.29	4.1	0.23	3.2	19.2	538	0.43	13.2	3.6	51	0.04	35.01	24.98	8.21	6.41	0.09
T4-10m	4/27/11	924	0.13	4	0.36	5.1	0.17	2.4	6.0	169	0.42	13	3.6	51	0.11	34.87	24.87	8.20	6.47	0.10
Geomean	FY '11		2.5		4.8		2.5				12.4		55		0.07					0.08

NELHA Water Quality Laboratory

Transect 4, Station 2

8/3/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
T4-10m	7/27/11	915	0.18	5.7	0.36	5	0.13	1.8	2.2	62	0.49	15.3	4.5	64	0.10	34.78	26.00	8.21	6.17	0.11
T4-10m	10/19/11	945	0.09	2.9	0.15	2.1	0.10	1.4	1.6	45	0.39	12	4.7	65	0.06	35.08	26.51	8.25	7.30	0.10
T4-10m	1/26/12	915	0.09	2.9	0.39	5.5	0.26	3.7	2.4	67	0.34	10.4	3.5	49	0.08	34.99	24.40	8.23	6.78	0.10
T4-10m	4/25/12	934	0.17	5.3	0.46	6.5	0.34	4.8	1.9	53	0.53	16.3	7.3	102	0.12	34.89	24.81	8.19	7.04	0.08
Geomean	FY '12		4.0		4.4		2.6				13.3		68		0.09					0.10
T4-10m	7/25/12	924	0.05	1.4	0.26	3.7	0.31	4.3	1.7	47	0.36	11.3	4.4	61	0.05	35.02	26.28	8.23	7.08	0.18
T4-10m	11/28/12	928	0.09	2.9	0.19	2.6	0.16	2.2	1.9	53	0.44	13.5	6.2	87	0.04	35.22	25.32	8.20	6.57	0.03
T4-10m	1/24/13	912	0.12	3.8	0.71	10	0.16	2.3	3.2	90	0.47	14.7	5.5	76	0.07	35.02	24.65	8.20	6.27	0.13
T4-10m	4/17/13	1026	0.18	5.5	0.54	7.5	0.26	3.6	2.2	61	0.52	16	5.0	70	0.04	35.13	25.13	8.21	6.93	0.18
Geomean	FY '13		3.0		5.2		3.0				13.8		73		0.05					0.11
T4-10m	8/6/13	934	0.12	3.8	0.02	0.3	0.00	0.1	2.4	67	0.38	11.8	7.4	104	0.10	35.14	26.3	8.26	7.10	0.14
T4-10m	10/30/13	913	0.15	4.7	0.33	4.6	0.37	5.2	1.5	43	0.46	14.4	5.9	82	0.02	34.91	27.0	8.23	5.87	0.18
T4-10m	2/5/14	933	0.15	4.7	0.41	5.7	0.34	4.7	2.3	66	0.41	12.6	5.4	76	0.02	34.94	25.2	8.20	6.33	0.15
T4-10m	5/7/14	929	0.13	4.0	0.46	6.5	0.20	2.8	1.5	42	0.69	21.5	7.2	101	0.08	34.76	25.7	8.21	5.87	0.14
Geomean	FY '14		4.3		2.7		1.4				14.6		90		0.04					0.15
T4-10m	8/6/14	922	0.16	5.0	0.08	1.1	0.27	3.8	0.8	22	0.53	16.5	5.4	76	0.06	34.93	26.8	8.23	6.55	0.13
T4-10m	12/4/14	945	0.10	3.0	0.12	1.7	0.51	7.1	0.5	15	0.36	11.3	6.6	92	0.07	35.20	26.4	8.23	6.38	0.14
T4-10m	3/5/15	936	0.04	1.1	0.17	2.4	0.42	5.9	0.5	14	0.32	10.0	7.9	111	0.10	34.73	25.4	8.22	6.75	0.09
T4-10m	6/18/15	924	0.09	2.7	0.50	7.0	0.19	2.7	2.4	67	0.36	11.2	6.0	84	0.08	34.41	26.7	8.13	6.56	0.11
Geomean	FY '15		2.6		2.4		4.6				12.0		90		0.08					0.12
T4-10m	8/29/15	936	0.13	3.9	0.26	3.7	0.31	4.4	7.3	205	0.13	4.1	5.4	76	0.04	34.63	28.5	8.20	5.97	0.24
T4-10m	11/18/15	950	0.13	4.0	0.64	8.9	0.34	4.7	4.2	119	0.49	15.3	6.5	91	0.07	34.63	27.3	8.26	6.75	0.15
T4-10m	3/2/16	841	0.15	4.8	0.31	4.3	0.17	2.4	0.1	2	0.49	15.2	4.8	67	0.07	34.70	25.2	8.23	5.87	0.11
T4-10m	5/4/16	925	0.13	4.0	0.11	1.5	0.10	1.4	0.6	17	0.45	13.9	4.9	69	0.10	34.68	25.8	8.19	6.08	0.12
Geomean	FY '16		4.2		3.8		2.9				10.7		75		0.07					0.15
T4-10m	7/7/16	935	0.10	3.1	0.17	2.4	0.36	5.1	0.4	10	0.46	14.2	3.2	45	0.11	34.68	26.9	8.31	6.95	0.20
T4-10m	12/21/16	937	0.08	2.4	0.41	5.7	0.22	3.1	2.1	59	0.35	10.7	2.8	39	0.05	34.65	25.4	8.25	5.80	0.14
T4-10m	3/1/17	1056	0.04	1.2	0.59	8.2	0.17	2.4	1.2	35	0.32	10.0	4.8	67	0.10	34.75	24.6	8.23	6.00	0.13
T4-10m	5/10/17	1035	0.01	0.2	0.56	7.9	0.10	1.4	2.3	65	0.28	8.7	3.6	51	0.09	34.78	25.8	8.25	4.27	0.14
Geomean	FY '17		1.2		5.5		2.7				10.7		49		0.08					0.15

NELHA Water Quality Laboratory

Transect 4, Station 2

8/3/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
T4-10m	9/28/17	931	0.13	4.0	0.16	2.3	0.19	2.7	0.4	11	0.42	13.1	3.2	44	0.07	34.82	27.9	8.16	5.05	0.18
T4-10m	11/30/17	917	0.09	2.9	0.28	3.9	0.35	4.9	1.8	50	0.38	11.7	3.9	55	0.08	35.15	26.3	8.21	5.65	0.16
T4-10m	2/6/18	958	0.08	2.4	0.05	0.7	0.39	5.4	1.3	37	0.35	10.8	1.9	27	0.11	34.83	24.9	8.16	5.91	0.08
T4-10m	5/17/18	931	0.09	2.8	0.04	0.6	0.20	2.8	2.0	56	0.38	11.7	3.7	52	0.03	34.79	26.1	8.14	6.48	0.07
Geomean	FY '18		3.0		1.4		3.8				11.8		43		0.07					0.11
T4-10m	9/26/18	1201	0.01	0.4	0.16	2.3	0.23	3.2	0.0	1	0.36	11.3	3.7	51	0.08	34.71	27.5	8.40	4.79	0.17
T4-10m	11/14/18	1020	0.04	1.3	0.30	4.2	0.25	3.5	0.1	2	0.34	10.5	5.7	80	0.06	34.91	27.3	8.18	6.04	0.13
T4-10m	1/23/19	1003	0.12	3.7	0.23	3.2	0.16	2.3	2.7	76	0.42	13.0	3.0	42	0.11	34.89	24.9	8.17	5.13	0.22
T4-10m	4/17/19	954	0.15	4.6	0.44	6.1	0.29	4.0	2.2	62	0.41	12.7	2.9	40	0.09	34.75	25.7	8.10	7.04	0.13
Geomean	FY '19		1.7		3.7		3.2				11.8		51		0.08					0.16
T4-10m	8/15/19	934	0.05	1.7	0.16	2.3	0.17	2.4	2.7	76	0.32	9.9	2.1	30	0.11	35.19	28.2	8.21	6.68	0.15
T4-10m	11/19/19	1108	0.10	3.1	0.06	0.8	0.34	4.7	0.3	7	0.39	12.0	2.4	34	0.08	34.87	27.7	8.24	6.54	0.16
T4-10m	1/23/20	946	0.08	2.6	0.16	2.3	0.09	1.3	0.0	0	0.39	12.1	2.9	41	0.06	34.95	25.0	8.20	6.75	0.10
T4-10m	6/25/20	913	0.06	2.0	0.16	2.3	0.61	8.5	0.4	12	0.26	8.1	2.6	37	0.07	35.46	26.2	8.17	6.77	0.22
Geomean	FY '20		2.3		1.7		3.3				10.4		35		0.08					0.15

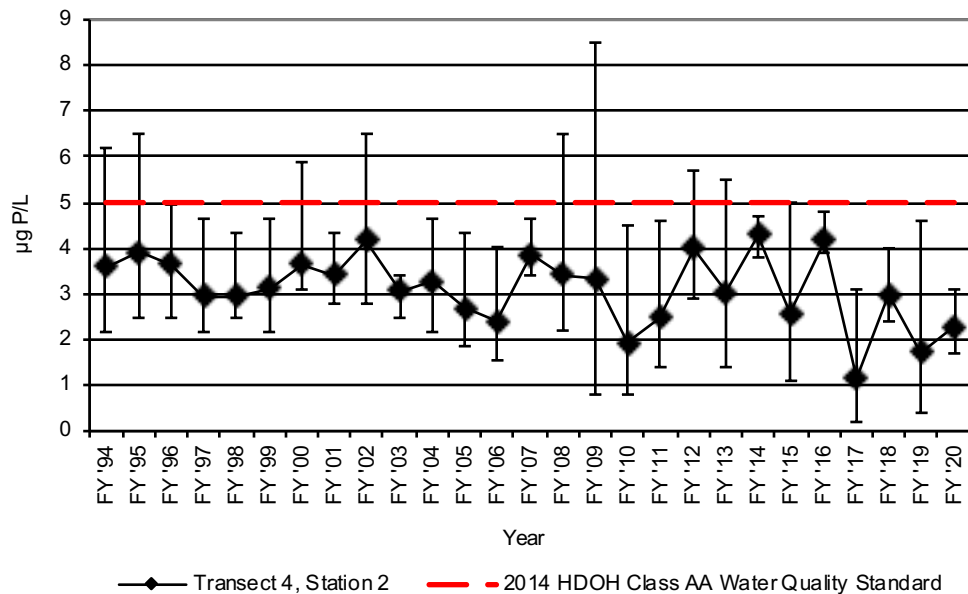
NELHA Water Quality Laboratory

Transect 4, Station 2

8/3/1993 - 7/16/20

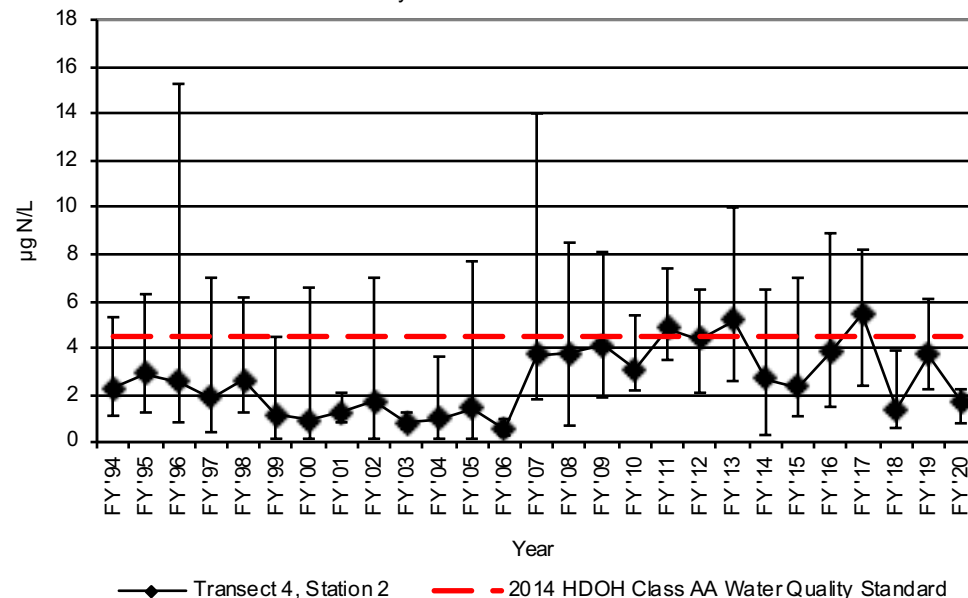
NELHA Offshore Transect 4, Station 2

Yearly Geometric Mean of Ortho-Phosphate



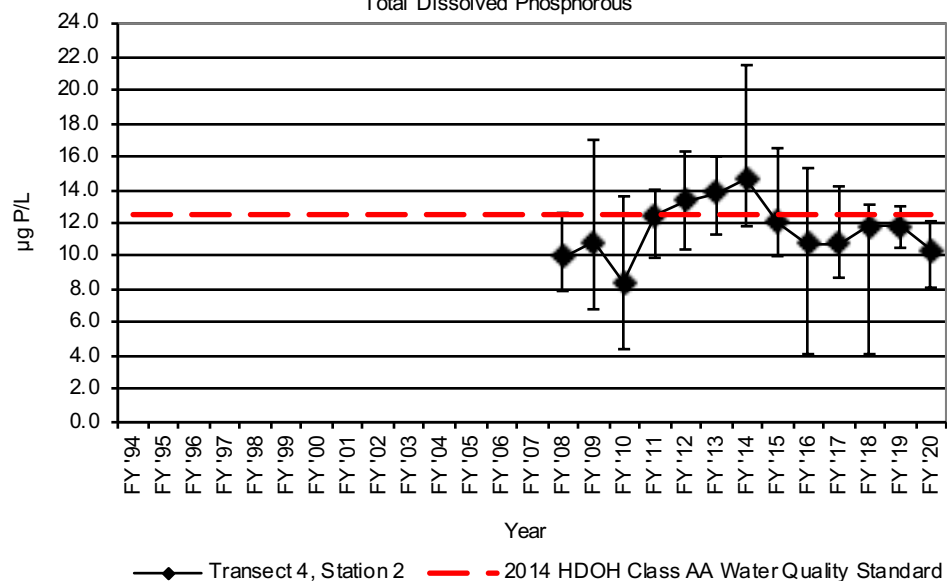
NELHA Offshore Transect 4, Station 2

Yearly Geometric Mean of Nitrate + Nitrite



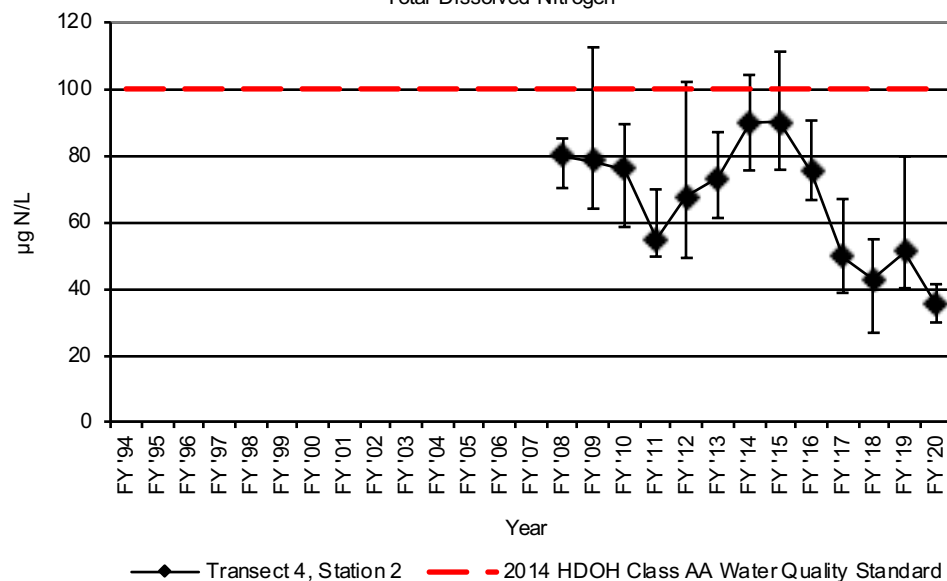
NELHA Offshore Transect 4, Station 2

Yearly Geometric Mean of
Total Dissolved Phosphorous



NELHA Offshore Transect 4, Station 2

Yearly Geometric Mean of
Total Dissolved Nitrogen



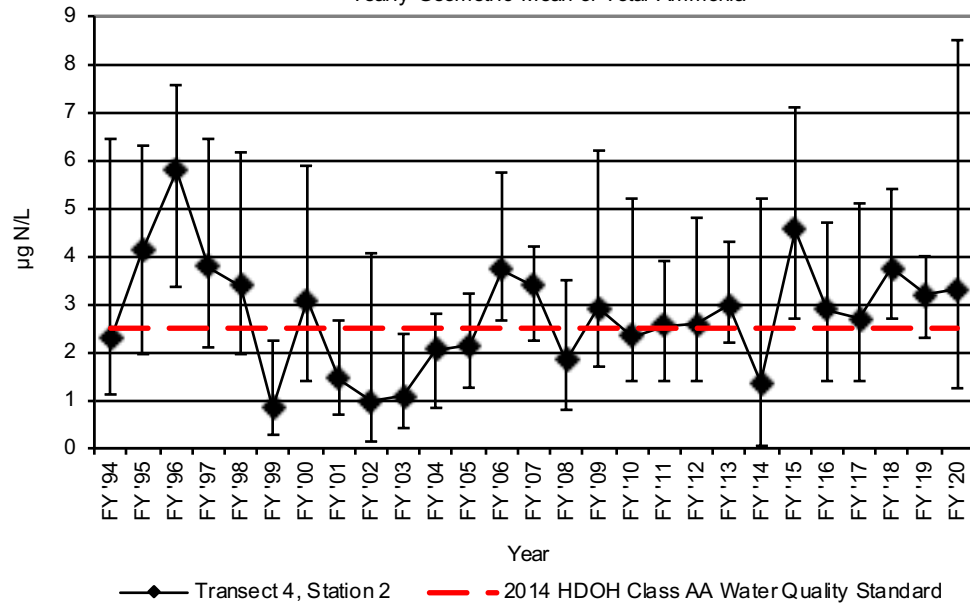
NELHA Water Quality Laboratory

Transect 4, Station 2

8/3/1993 - 7/16/20

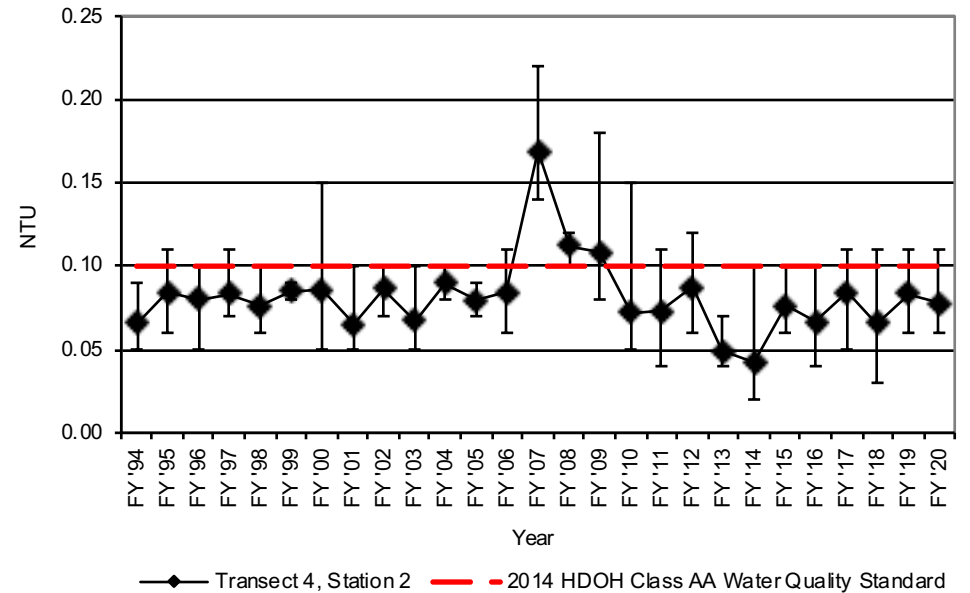
NELHA Offshore Transect 4, Station 2

Yearly Geometric Mean of Total Ammonia



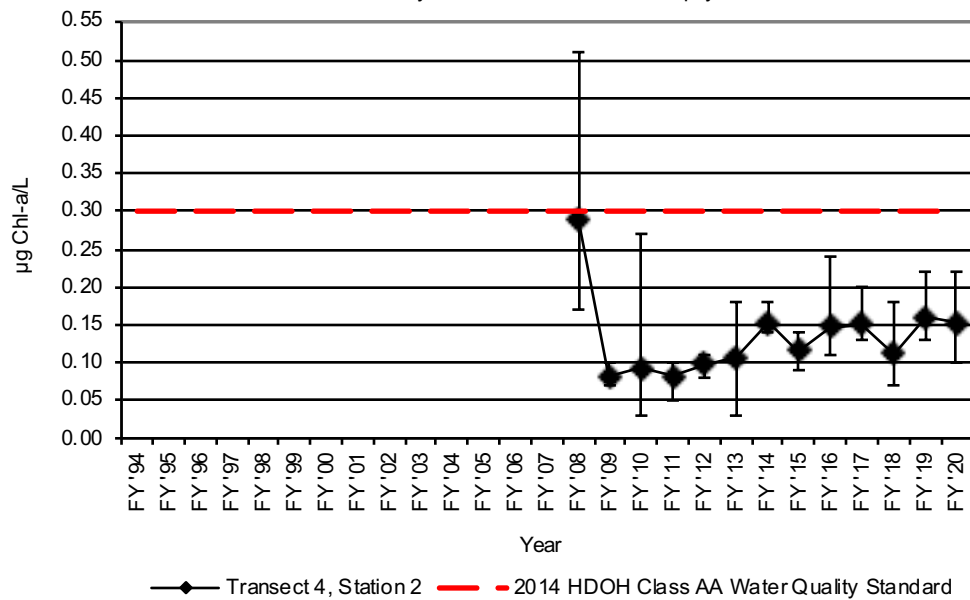
NELHA Offshore Transect 4, Station 2

Yearly Geometric Mean of Turbidity



NELHA Offshore Transect 4, Station 2

Yearly Geometric Mean of Chlorophyll-a



NELHA Water Quality Laboratory

Transect 4, Station 3

8/3/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (μM) (μg P/L)		TDN (μM) (μg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (μg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O4-3S-38m	8/3/93	907	0.12	3.7	0.03	0.4	0.43	6.0	3.1	86					0.07	34.452	26.8			
O4-3S-38m	12/8/93	914	0.07	2.2	0.10	1.4	0.09	1.3	2.2	62					0.11	34.802	25.7			
O4-3S-38m	3/8/94	850	0.18	5.6	0.13	1.8	0.12	1.7	2.8	79					0.06	34.223	25.1			
O4-3S-38m	6/13/94	854	0.13	4.0	0.19	2.7	0.11	1.5	6.6	186					0.09	34.534	25.5			
Geomean	FY '94		3.7		1.3		2.1								0.08					
O4-3S-38m	9/15/94	851	0.08	2.5	0.06	0.8	0.17	2.4	2.5	70					0.08	34.626	27.6			
O4-3S-38m	11/15/94	812	0.13	4.0	0.20	2.8	0.52	7.3	3.3	94					0.08	34.609	26.0			
O4-3S-38m	3/22/95	1152	0.18	5.6	0.36	5.0	0.35	4.9	6.0	169					0.10	34.129	25.3			
O4-3S-38m	6/21/95	818	0.09	2.8	0.12	1.7	0.33	4.6	2.4	68					0.06	34.456	26.2			
Geomean	FY '95		3.5		2.1		4.5								0.08					
O4-3S-38m	9/28/95	1010	0.09	2.8	0.07	1.0	0.52	7.3	2.9	80					0.11	34.596	27.3			
O4-3S-38m	11/14/95	821	0.10	3.1	0.04	0.6	0.52	7.3	3.6	101					0.05	34.360	26.7			
O4-3S-38m	3/12/96	901	0.14	4.3	0.30	4.2	0.52	7.3	3.4	95					0.06	34.165	25.1			
O4-3S-38m	5/14/96	835	0.11	3.4	0.79	11.1	0.33	4.6	4.9	136					0.10	34.247	27.0			
Geomean	FY '96		3.4		2.2		6.5								0.08					
O4-3S-38m	7/31/96	910	0.07	2.2	0.04	0.6	0.35	4.9	2.9	80					0.07	34.483	28.0			
O4-3S-38m	10/2/96	848	0.06	1.9	0.02	0.3	0.17	2.4	2.8	77					0.08	34.644	27.9			
O4-3S-38m	1/7/97	903	0.10	3.1	0.31	4.3	0.20	2.8	3.5	98					0.07	34.671	25.4			
O4-3S-38m	4/28/97	915	0.15	4.6	0.24	3.4	0.44	6.2	5.2	146					0.11	34.406	26.7			
Geomean	FY '97		2.8		1.2		3.8								0.08					
O4-3S-38m	8/19/97	906	0.08	2.5	0.46	6.4	0.26	3.6	3.5	99					0.09	34.630	27.0			
O4-3S-38m	10/7/97	1144	0.13	4.0	0.21	2.9	0.45	6.3	4.0	111					0.11	34.729	27.8			
O4-3S-38m	3/4/98	907	0.07	2.2	0.05	0.7	0.16	2.2	3.1	86					0.06	35.029	25.0			
O4-3S-38m	5/5/98	918	0.08	2.5	0.13	1.8	0.15	2.1	6.8	192					0.06	35.051	24.1			
Geomean	FY '98		2.7		2.2		3.2								0.08					
O4-3S-38m	7/7/98	935	0.11	3.4	0.28	3.9	0.03	0.4	9.9	277					0.07	34.950	26.4			
O4-3S-38m	10/6/98	854	0.08	2.5	0.01	0.1	0.02	0.3	1.6	44					0.07	35.127	26.9			
O4-3S-38m	1/19/99	915	0.07	2.2	0.02	0.3	0.05	0.7	3.1	86					0.06	35.145	25.1			
O4-3S-38m	4/13/99	1004	0.15	4.6	0.44	6.2	0.10	1.4	6.1	172					0.07	34.647	24.3			
Geomean	FY '99		3.0		1.0		0.6								0.07					

NELHA Water Quality Laboratory

Transect 4, Station 3

8/3/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O4-3S-38m	8/16/99	932	0.11	3.4	0.20	2.8	0.40	5.6	1.7	49					0.18	34.873	26.1			
O4-3S-38m	10/25/99	1026	0.11	3.4	0.02	0.3	0.21	2.9	4.2	117					0.08	34.963	26.1			
O4-3S-38m	1/12/00	937	0.10	3.1	0.03	0.4	0.27	3.8	1.8	51					0.05	35.134	24.7			
O4-3S-38m	5/16/00	907	0.17	5.3	0.33	4.6	0.09	1.3	5.6	156					0.08	34.606	25.1			
Geomean	FY '00		3.7		1.1		3.0								0.09					
O4-3S-38m	7/25/00	934	0.09	2.8	0.10	1.4	0.05	0.7	2.7	75					0.06	34.861	26.8			
O4-3S-38m	10/31/00	930	0.10	3.1	0.05	0.7	0.21	2.9	3.0	85					0.05	34.961	26.9			
O4-3S-38m	3/6/01	919	0.18	5.6	0.52	7.3	0.12	1.7	4.1	114					0.12	34.688	24.8			
O4-3S-38m	5/8/01	1016	0.10	3.1	0.08	1.1	0.18	2.5	6.4	178					0.06	34.731	25.0			
Geomean	FY '01		3.5		1.7		1.7								0.07					
O4-3S-38m	8/13/01	1024	0.09	2.8	0.01	0.1	0.26	3.6	12.3	345					0.12	34.880	26.5			
O4-3S-38m	10/30/01	932	0.15	4.6	0.39	5.5	0.06	0.8	3.2	90					0.06	34.982	26.7			
O4-3S-38m	3/4/02	956	0.13	4.0	0.13	1.8	0.01	0.1	1.9	53					0.11	34.685	24.2			
O4-3S-38m	4/16/02	954	0.16	5.0	0.52	7.3	0.21	2.9	6.8	192					0.08	34.407	25.5			
Geomean	FY '02		4.0		1.8		1.1								0.09					
O4-3S-38m	7/9/02	1109	0.10	3.1	0.07	1.0	0.11	1.5	2.5	71					0.07	34.668	26.8			
O4-3S-38m	10/7/02	949	0.06	1.9	0.02	0.3	0.30	4.2	2.3	63					0.05	34.945	27.0			
O4-3S-38m	3/10/03	1115	0.12	3.7	0.18	2.5	0.04	0.6	3.6	100					0.06	34.766	24.9			
O4-3S-38m	4/22/03	952	0.08	2.5	0.17	2.4	0.06	0.8	2.7	77					0.09	35.023	24.8			
Geomean	FY '03		2.7		1.1		1.3								0.07					
O4-3S-38m	8/19/03	1215	0.06	1.9	0.01	0.1	0.20	2.8	1.7	48					0.05	34.840	28.2			
O4-3S-38m	10/30/03	926	0.11	3.4	0.13	1.8	0.30	4.2	2.0	56					0.11	34.821	27.4			
O4-3S-38m	3/17/04	1014	0.12	3.7	0.06	0.8	0.15	2.1	1.5	43					n/a	34.417	26.0			
O4-3S-38m	5/24/04	936	0.15	4.6	0.18	2.5	0.06	0.8	3.5	97					n/a	33.36	26.8			
Geomean	FY '04		3.2		0.9		2.1								0.07					
O4-3S-38m	9/22/04	1008	0.06	1.9	0.01	0.1	0.20	2.8	1.5	42					0.11	33.80	27.9			
O4-3S-38m	11/29/04	918	0.06	1.9	0.16	2.2	0.12	1.7	1.2	33					0.05	33.74	26.9			
O4-3S-38m	1/24/05	951	0.09	2.8	0.02	0.3	0.09	1.3	1.8	49					0.10	34.809	25.5			
O4-3S-38m	4/13/05	955	0.13	4.0	0.46	6.4	0.23	3.2	3.5	99					0.11	34.431	25.4			
Geomean	FY '05		2.5		0.9		2.1								0.09					

NELHA Water Quality Laboratory

Transect 4, Station 3

8/3/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O4-3S-38m	7/21/05	909	0.05	1.5	0.09	1.3	0.28	3.9	1.3	36					0.07	34.730	27.4			
O4-3S-38m	10/13/05	847	0.06	1.9	0.13	1.8	0.18	2.5	2.2	63					0.16	34.880	27.2			
O4-3S-38m	3/14/06	934	0.09	2.8	0.07	1.0	0.29	4.1	7.8	220					0.08	34.858	24.5			
O4-3S-38m	5/17/06	904	0.09	2.8	0.07	1.0	0.20	2.8	1.3	38					0.07	34.659	24.6			
Geomean	FY '06		2.2		1.2		3.3								0.09					
O4-3S-38m	8/16/06	906	0.14	4.3	0.27	3.8	0.21	2.9	2.9	83					0.15	34.644	26.8			
O4-3S-38m	11/20/06	901	0.10	3.1	0.11	1.5	0.56	7.8	1.7	47					0.12	34.819	26.7			
O4-3S-38m	2/12/07	954	0.14	4.3	0.14	2.0	0.40	5.6	0.7	21					0.17	34.431	24.5			
O4-3S-38m	4/16/07	951	0.17	5.3	1.32	18.5	0.31	4.3	12.8	359					0.11	34.35	26.1			
Geomean	FY '07		4.2		3.8		4.9								0.14					
T4-50m	9/26/07	1155	0.15	4.8	0.30	4.2	0.26	3.7	24.2	681	0.40	12.4	6.8	96	0.10	34.952	26.9	8.20	6.63	0.18
T4-50m	12/14/07	907	0.08	2.4	0.01	0.1			4.8	135	0.36	11.0	5.1	71	0.10	34.735	25.6	8.22	6.70	0.22
T4-50m	3/11/08	919	0.28	8.6	0.46	6.4	0.06	0.8	6.5	182	0.23	7.1	6.3	89	0.12	34.863	24.7	8.08	6.53	0.39
T4-50m	6/9/08	959	0.07	2.1	0.09	1.2	0.16	2.2	13.0	366	0.34	10.6	9.6	134	0.08	34.6742	25.2	8.1	5.82	0.13
Geomean	FY '08		3.8		1.3		1.9				10.1		95		0.10					0.21
T4-50m	9/23/08	1047	0.02	0.6	0.04	0.5	0.30	4.2	1.3	36	0.36	11.2	5.3	74	0.06	34.834	26.7	8.06	5.92	0.07
T4-50m	12/8/08	955	0.16	5.1	0.34	4.7	0.22	3.1	2.2	63	0.65	20	5.7	81	0.07	34.985	26.1	8.30	5.42	0.12
T4-50m	2/10/09	851	0.10	3	0.48	6.7	0.12	1.7	2.4	67	0.38	11.7	9.6	134	0.08	35.048	24.7	8.05	5.98	0.04
T4-50m	6/30/09	935	0.25	7.8	0.44	6.1	0.16	2.2	6.9	193	0.43	13.4	4.6	64	0.09	34.887	26.7	8.21	6.04	0.13
Geomean	FY '09		2.9		3.1		2.6				13.7		85		0.07					0.08
T4-50m	9/10/09	922	0.09	2.8	0.06	0.9	0.10	1.4	4.8	136	0.42	12.9	5.7	80	0.21	35.21	27.3	8.23	5.90	0.08
T4-50m	11/24/09	913	0.03	0.8	0.19	2.7	0.25	3.5	14.6	411	0.37	11.6	5.5	78	0.05	35.26	25.2	8.25	6.59	0.19
T4-50m	2/24/10	945	0.15	4.5	0.22	3.1	0.34	4.8	3.8	107	0.37	11.6	5.5	78	0.08	35.09	24.6	8.23	5.59	0.24
T4-50m	5/25/10	925	0.02	0.7	0.34	4.8	0.05	0.7	2.6	73	0.24	7.4	5.5	77	0.07	34.93	25.0	8.21	6.94	0.09
Geomean	FY '10		1.6		2.5		2.0				10.6		78		0.09					0.13
T4-50m	8/11/10	919	0.02	0.6	0.09	1.2	0.02	0.3	1.8	50	0.29	8.9	2.9	41	0.04	34.96	26.01	8.23	6.67	0.05
T4-50m	11/9/10	917	0.04	1.1	0.20	2.8	0.09	1.3	3.4	96	0.35	10.9	3.6	50	0.11	34.95	26.38	8.27	6.21	0.04
T4-50m	1/11/11	1138	0.14	4.3	0.34	4.8	0.12	1.7	5.1	144	0.42	12.9	3.7	51	0.03	35.02	24.97	8.20	6.46	0.09
T4-50m	4/27/11	928	0.12	3.6	0.46	6.5	0.14	2.0	4.2	117	0.45	13.9	4.3	61	0.09	34.89	24.91	8.21	6.31	0.09
Geomean	FY '11		1.8		3.2		1.1				11.5		50		0.06					0.06

NELHA Water Quality Laboratory

Transect 4, Station 3

8/3/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
T4-50m	7/27/11	921	0.18	5.7	0.35	4.9	0.15	2.1	2.2	63	0.48	14.8	4.0	57	0.05	34.78	26.03	8.21	6.10	0.11
T4-50m	10/19/11	948	0.04	1.2	0.10	1.4	0.03	0.4	1.6	46	0.51	15.7	3.6	51	0.02	35.09	26.46	8.23	7.02	0.08
T4-50m	1/26/12	919	0.06	1.9	0.11	1.6	0.07	1	1.7	48	0.33	10.2	3.5	50	0.06	35.04	24.43	8.24	6.60	0.09
T4-50m	4/25/12	935	0.16	5	0.14	1.9	0.39	5.4	4.2	119	0.45	13.9	4.4	61	0.04	34.88	24.85	8.18	6.76	0.10
Geomean	FY '12		2.8		2.1		1.5				13.5		54		0.04					0.09
T4-50m	7/25/12	929	0.03	1	0.14	2	0.19	2.7	1.4	38	0.36	11.2	4.6	65	0.10	35.08	26.36	8.24	6.75	0.09
T4-50m	11/28/12	932	0.08	2.5	0.08	1.1	0.20	2.8	1.3	37	0.35	10.8	4.1	58	0.04	35.26	25.35	8.20	6.69	0.09
T4-50m	1/24/13	917	0.10	3.2	0.52	7.3	0.15	2.1	2.9	81	0.45	14	5.0	69	0.03	35.04	24.70	8.20	6.25	0.10
T4-50m	4/17/13	1031	0.18	5.5	0.51	7.1	0.34	4.8	1.8	51	0.48	14.8	4.7	65	0.04	35.16	25.07	8.20	6.90	0.10
Geomean	FY '13		2.6		3.3		3.0				12.6		64		0.05					0.09
T4-50m	8/6/13	940	0.11	3.4	0.12	1.7	0.14	1.9	2.0	55	0.40	12.5	8.3	116	0.07	35.17	26.3	8.27	6.99	0.11
T4-50m	10/30/13	916	0.17	5.3	0.53	7.4	0.24	3.3	2.6	74	0.47	14.7	5.2	72	0.02	34.86	27.0	8.23	5.85	0.10
T4-50m	2/5/14	937	0.14	4.4	0.29	4.0	0.28	3.9	2.5	71	0.50	15.4	4.1	58	0.02	34.92	25.1	8.20	6.24	0.14
T4-50m	5/7/14	933	0.12	3.6	0.29	4.1	0.15	2.1	1.6	45	0.56	17.5	7.0	98	0.07	34.79	25.8	8.21	5.67	0.15
Geomean	FY '14		4.1		3.8		2.7				14.9		83		0.04					0.12
T4-50m	8/6/14	927	0.16	5.1	0.06	0.8	0.24	3.4	0.8	22	0.47	14.7	3.5	49	0.05	34.93	26.9	8.23	6.54	0.11
T4-50m	12/4/14	952	0.10	3.2	0.12	1.7	0.54	7.6	0.6	16	0.40	12.3	6.0	84	0.11	35.21	26.4	8.23	6.23	0.17
T4-50m	3/5/15	942	0.02	0.5	0.15	2.1	0.24	3.3	0.5	15	0.31	9.7	6.5	91	0.08	34.70	25.4	8.22	6.80	0.09
T4-50m	6/18/15	928	0.11	3.5	0.19	2.6	0.13	1.8	2.7	77	0.16	4.9	7.3	103	0.06	34.41	26.6	8.12	6.36	0.09
Geomean	FY '15		2.3		1.7		3.5				9.6		79		0.07					0.11
T4-50m	8/29/15	940	0.20	6.2	0.26	3.6	0.27	3.8	4.3	121	0.35	10.9	6.9	96	0.04	34.64	28.5	8.24	6.01	0.11
T4-50m	11/18/15	957	0.13	4.1	0.50	7.0	0.29	4.0	4.6	130	0.48	14.9	4.6	64	0.02	34.63	27.4	8.27	6.57	0.09
T4-50m	3/2/16	847	0.15	4.7	0.32	4.5	0.42	5.9	0.4	11	0.47	14.5	4.2	59	0.08	34.71	25.2	8.23	5.82	0.08
T4-50m	5/4/16	932	0.20	6.1	0.19	2.6	0.21	3.0	0.8	22	0.42	13.1	6.3	89	0.06	34.68	25.8	8.18	6.19	0.15
Geomean	FY '16		5.2		4.1		4.0				13.3		75		0.04					0.10
T4-50m	7/7/16	941	0.06	1.9	0.27	3.8	0.16	2.2	0.5	13	0.41	12.8	1.9	26	0.08	34.72	27.1	8.32	6.88	0.25
T4-50m	12/21/16	943	0.07	2.3	0.31	4.4	0.01	0.1	1.7	47	0.35	10.7	3.0	42	0.04	34.66	25.4	8.26	5.89	0.14
T4-50m	3/1/17	1050	0.02	0.6	0.23	3.2	0.06	0.8	0.5	14	0.31	9.5	4.8	67	0.09	34.76	24.6	8.23	6.50	0.16
T4-50m	5/10/17	1040	0.05	1.6	0.14	2.0	0.13	1.8	0.7	20	0.23	7.2	3.2	44	0.09	34.79	25.8	8.25	4.29	0.08
Geomean	FY '17		1.4		3.2		0.8				9.8		42		0.07					0.15

NELHA Water Quality Laboratory

Transect 4, Station 3

8/3/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (μM) (μg P/L)		TDN (μM) (μg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (μg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
T4-50m	9/28/17	936	0.11	3.3	0.06	0.9	0.09	1.3	0.3	7	0.38	11.9	2.6	37	0.06	34.84	27.9	8.18	5.04	0.12
T4-50m	11/30/17	921	0.08	2.5	0.16	2.3	0.32	4.5	1.4	39	0.36	11.3	3.5	50	0.08	35.17	26.4	8.21	5.72	0.15
T4-50m	2/6/18	1003	0.07	2.2	0.04	0.5	0.31	4.3	1.3	36	0.34	10.5	3.1	44	0.10	34.84	24.9	8.16	5.89	0.08
T4-50m	5/17/18	937	0.09	2.7	0.11	1.6	0.12	1.7	1.2	34	0.37	11.6	1.8	26	0.02	34.82	26.1	8.15	6.46	0.07
Geomean	FY '18		2.6		1.1		2.6				11.3		38		0.06					0.10
T4-50m	9/26/18	1208	0.03	0.9	0.16	2.3	0.42	5.9	0.5	13	0.33	10.1	2.0	28	0.09	34.72	27.7	8.15	4.70	0.18
T4-50m	11/14/18	1024	0.06	1.8	0.24	3.3	0.25	3.5	0.1	3	0.34	10.6	3.9	55	0.08	34.91	27.3	8.17	6.07	0.14
T4-50m	1/23/19	1008	0.08	2.6	0.16	2.3	0.08	1.1	0.8	24	0.36	11.2	3.5	49	0.15	34.92	24.9	8.18	5.11	0.15
T4-50m	4/17/19	1000	0.13	4.0	0.20	2.8	0.11	1.5	1.3	37	0.38	11.8	2.7	37	0.03	34.76	25.7	8.10	6.91	0.10
Geomean	FY '19		2.0		2.6		2.4				10.9		41		0.08					0.14
T4-50m	8/15/19	942	0.03	0.8	0.16	2.3	0.20	2.8	2.0	55	0.29	9.1	2.0	28	0.08	35.24	28.2	8.20	6.62	0.17
T4-50m	11/19/19	1116	0.10	3.2	0.12	1.7	0.45	6.3	0.3	7	0.39	12.2	2.7	38	0.08	34.87	27.7	8.22	6.49	0.12
T4-50m	1/23/20	956	0.08	2.5	0.16	2.3	0.09	1.3	0.0	0	0.39	12.0	2.6	36	0.06	34.98	25.0	8.25	6.70	0.10
T4-50m	6/25/20	917	0.05	1.5	0.16	2.3	0.52	7.3	0.4	12	0.28	8.6	2.9	40	0.08	35.47	26.2	8.16	6.73	0.20
Geomean	FY '20		1.8		2.1		3.6				10.3		35		0.07					0.14

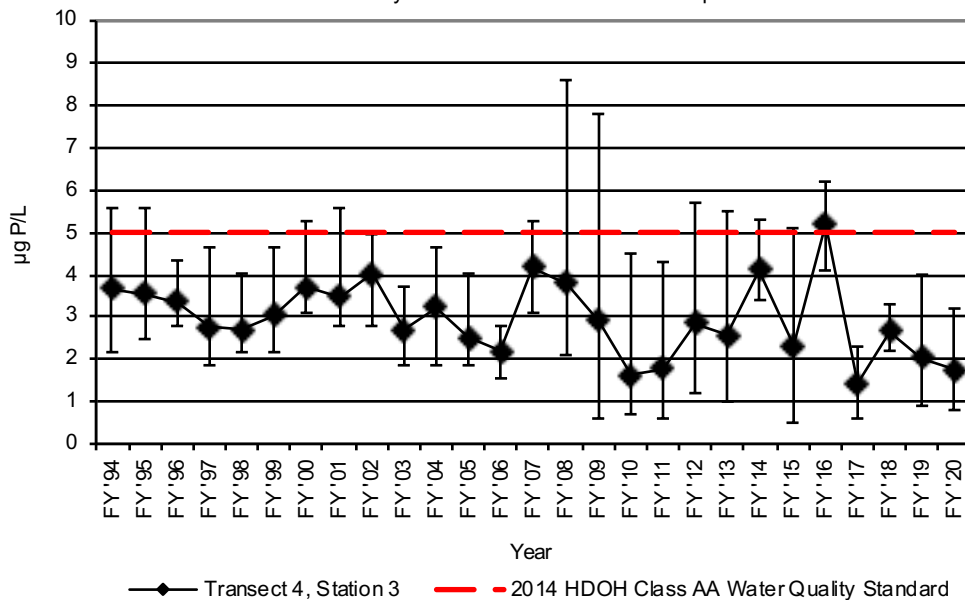
NELHA Water Quality Laboratory

Transect 4, Station 3

8/3/1993 - 7/16/20

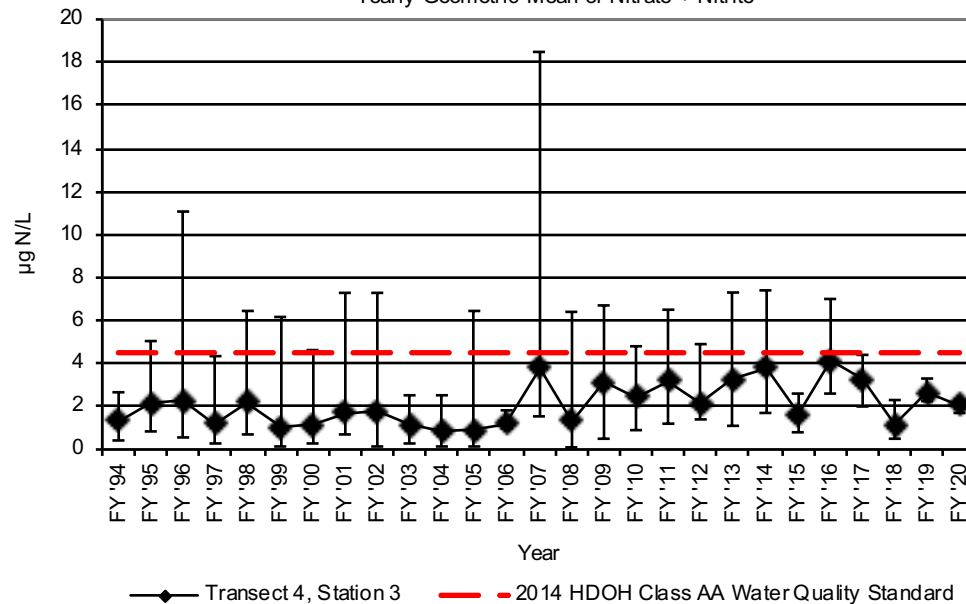
NELHA Offshore Transect 4, Station 3

Yearly Geometric Mean of Ortho-Phosphate



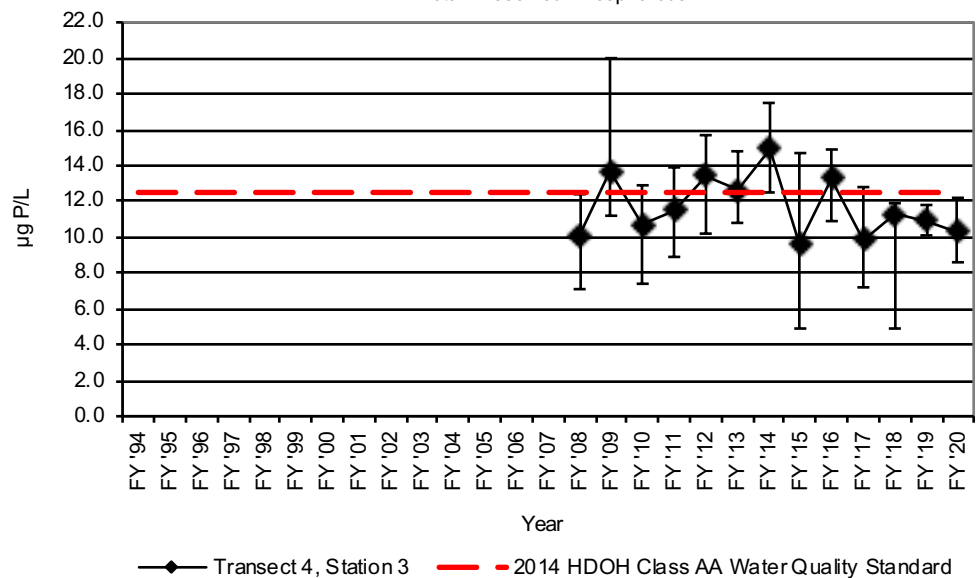
NELHA Offshore Transect 4, Station 3

Yearly Geometric Mean of Nitrate + Nitrite



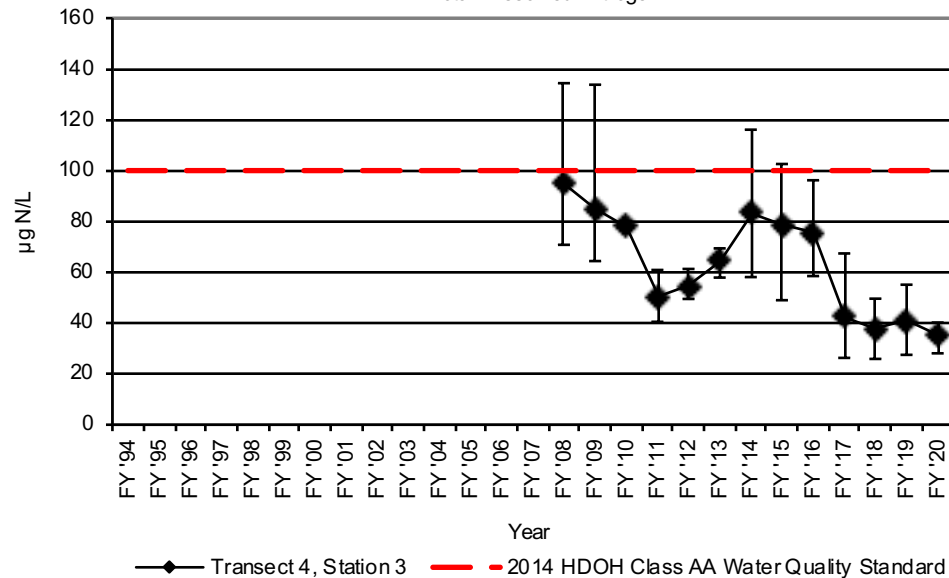
NELHA Offshore Transect 4, Station 3

Yearly Geometric Mean of
Total Dissolved Phosphorous



NELHA Offshore Transect 4, Station 3

Yearly Geometric Mean of
Total Dissolved Nitrogen



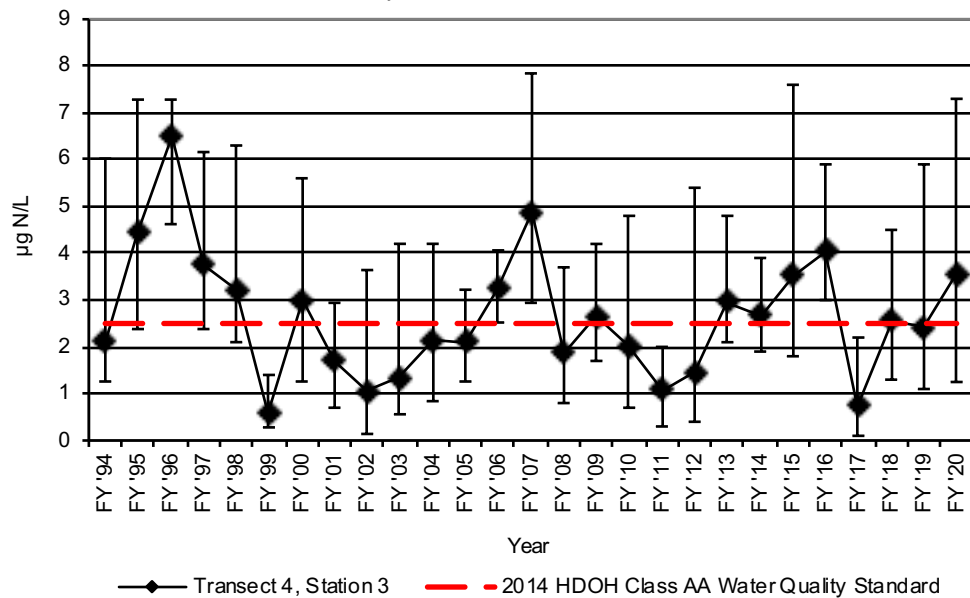
NELHA Water Quality Laboratory

Transect 4, Station 3

8/3/1993 - 7/16/20

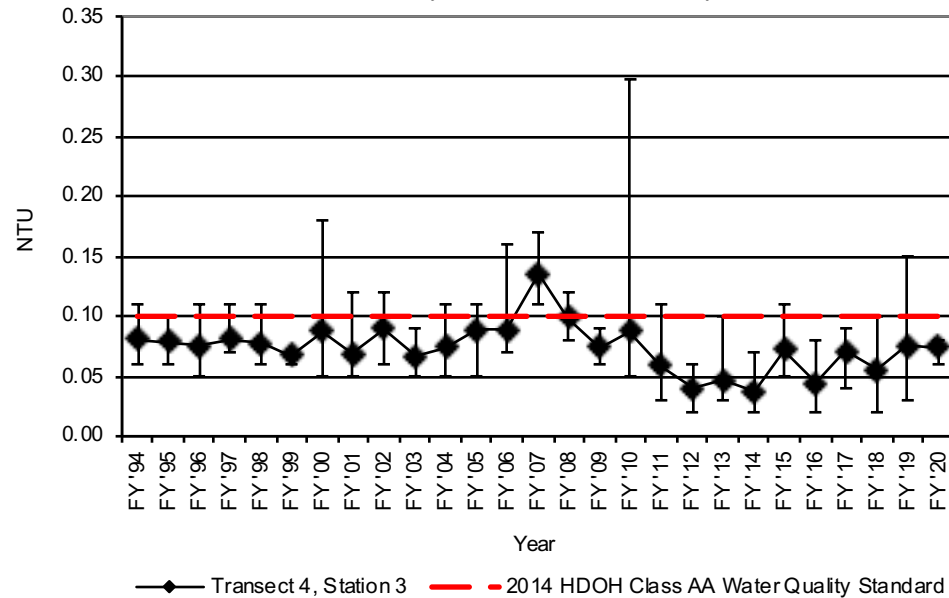
NELHA Offshore Transect 4, Station 3

Yearly Geometric Mean of Total Ammonia



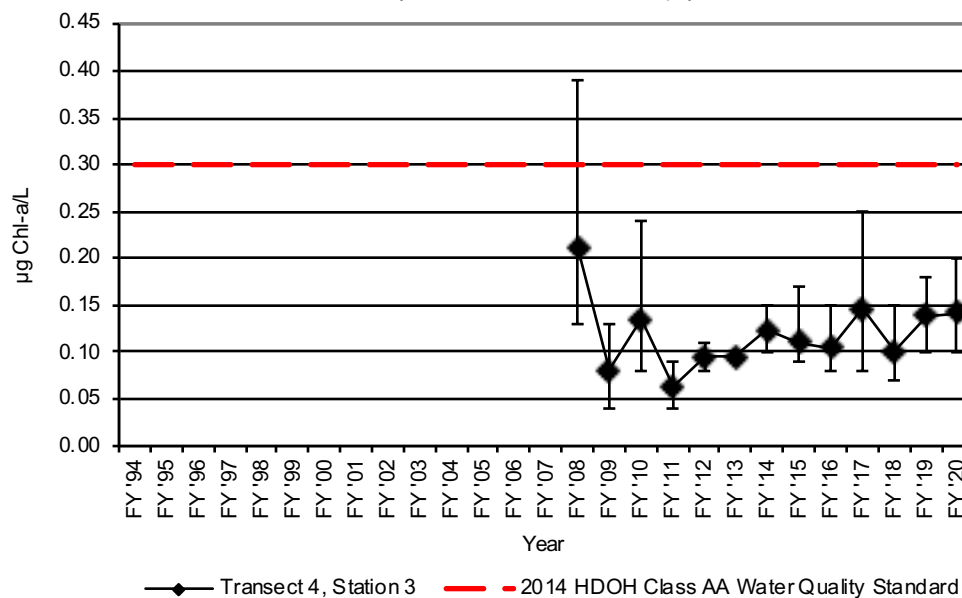
NELHA Offshore Transect 4, Station 3

Yearly Geometric Mean of Turbidity



NELHA Offshore Transect 4, Station 3

Yearly Geometric Mean of Chlorophyll-a



NELHA Water Quality Laboratory

Transect 4, Station 4

8/3/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O4-4S-53m	8/3/93	854	0.12	3.7	0.02	0.3	0.41	5.7	1.9	54					0.06	34.457	26.8			
O4-4S-53m	12/8/93	905	0.07	2.2	0.09	1.3	0.10	1.4	4.3	120					0.05	34.793	25.7			
O4-4S-53m	3/8/94	843	0.18	5.6	0.18	2.5	0.18	2.5	3.9	108					0.09	34.214	25.1			
O4-4S-53m	6/13/94	848	0.13	4.0	0.19	2.7	0.21	2.9	6.4	181					0.09	34.529	25.5			
Geomean	FY '94		3.7		1.2		2.8								0.07					
O4-4S-53m	9/15/94	848	0.07	2.2	0.02	0.3	0.15	2.1	4.7	133					0.07	34.636	27.6			
O4-4S-53m	11/15/94	806	0.14	4.3	0.28	3.9	0.51	7.1	3.9	110					0.08	34.587	26.0			
O4-4S-53m	3/22/95	1145	0.18	5.6	0.36	5.0	0.35	4.9	5.4	151					0.09	34.144	25.3			
O4-4S-53m	6/21/95	811	0.09	2.8	0.13	1.8	0.35	4.9	2.5	70					0.06	34.455	26.2			
Geomean	FY '95		3.5		1.8		4.4								0.07					
O4-4S-53m	9/28/95	1017	0.08	2.5	0.07	1.0	0.46	6.4	1.9	54					0.07	34.613	27.3			
O4-4S-53m	11/14/95	817	0.11	3.4	0.11	1.5	0.43	6.0	3.7	103					0.05	34.363	26.7			
O4-4S-53m	3/12/96	854	0.14	4.3	0.27	3.8	0.46	6.4	3.1	88					0.06	34.165	25.0			
O4-4S-53m	5/14/96	830	0.10	3.1	0.80	11.2	0.25	3.5	4.9	138					0.08	34.242	26.9			
Geomean	FY '96		3.3		2.8		5.4								0.06					
O4-4S-53m	7/31/96	900	0.07	2.2	0.05	0.7	0.37	5.2	4.0	111					0.07	34.471	28.2			
O4-4S-53m	10/2/96	843	0.06	1.9	0.03	0.4	0.18	2.5	3.2	91					0.08	34.644	27.9			
O4-4S-53m	1/7/97	858	0.08	2.5	0.16	2.2	0.17	2.4	3.5	98					0.08	34.719	25.4			
O4-4S-53m	4/28/97	910	0.13	4.0	0.31	4.3	0.44	6.2	4.0	112					0.13	34.410	26.8			
Geomean	FY '97		2.5		1.3		3.7								0.09					
O4-4S-53m	8/19/97	902	0.06	1.9	0.21	2.9	0.20	2.8	2.7	77					0.10	34.661	27.1			
O4-4S-53m	10/7/97	1139	0.13	4.0	0.15	2.1	0.38	5.3	3.9	109					0.11	34.739	27.7			
O4-4S-53m	3/4/98	902	0.08	2.5	0.05	0.7	0.15	2.1	2.7	76					0.06	35.035	24.9			
O4-4S-53m	5/5/98	913	0.08	2.5	0.17	2.4	0.14	2.0	4.1	116					0.06	35.051	24.0			
Geomean	FY '98		2.6		1.8		2.8								0.08					
O4-4S-53m	7/7/98	929	0.11	3.4	0.36	5.0	0.01	0.1	5.3	149					0.09	34.950	26.3			
O4-4S-53m	10/6/98	848	0.08	2.5	0.01	0.1	0.02	0.3	1.5	42					0.08	35.125	26.9			
O4-4S-53m	1/19/99	909	0.07	2.2	0.02	0.3	0.03	0.4	2.7	75					0.06	35.150	25.1			
O4-4S-53m	4/13/99	1000	0.15	4.6	0.44	6.2	0.07	1.0	4.3	122					0.08	34.638	24.3			
Geomean	FY '99		3.0		1.1		0.4								0.08					

NELHA Water Quality Laboratory

Transect 4, Station 4

8/3/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (μM) (μg P/L)		TDN (μM) (μg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (μg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O4-4S-53m	8/16/99	924	0.11	3.4	0.30	4.2	0.40	5.6	1.8	52					0.11	34.877	26.1			
O4-4S-53m	10/25/99	1020	0.09	2.8	0.01	0.1	0.28	3.9	6.0	167					0.08	34.959	26.2			
O4-4S-53m	1/12/00	932	0.12	3.7	0.03	0.4	0.29	4.1	4.2	119					0.04	35.198	24.7			
O4-4S-53m	5/16/00	903	0.15	4.6	0.23	3.2	0.05	0.7	4.0	111					0.05	34.642	25.1			
Geomean	FY '00		3.6		0.9		2.8								0.06					
O4-4S-53m	7/25/00	929	0.10	3.1	0.13	1.8	0.05	0.7	2.7	75					0.05	34.862	26.7			
O4-4S-53m	10/31/00	923	0.09	2.8	0.04	0.6	0.24	3.4	3.2	88					0.09	34.964	26.9			
O4-4S-53m	3/6/01	915	0.18	5.6	0.50	7.0	0.04	0.6	4.5	126					0.09	34.696	24.8			
O4-4S-53m	5/8/01	1013	0.11	3.4	0.10	1.4	0.15	2.1	4.2	118					0.11	34.745	24.9			
Geomean	FY '01		3.6		1.8		1.3								0.08					
O4-4S-53m	8/13/01	1020	0.08	2.5	0.03	0.4	0.26	3.6	2.8	79					0.09	34.878	26.6			
O4-4S-53m	10/30/01	925	0.11	3.4	0.05	0.7	0.02	0.3	1.7	49					0.06	35.026	26.8			
O4-4S-53m	3/4/02	951	0.13	4.0	0.12	1.7	0.01	0.1	2.6	73					0.11	34.668	24.1			
O4-4S-53m	4/16/02	949	0.16	5.0	0.32	4.5	0.25	3.5	6.1	170					0.12	34.389	25.6			
Geomean	FY '02		3.6		1.2		0.8								0.09					
O4-4S-53m	7/9/02	1103	0.11	3.4	0.01	0.1	0.17	2.4	2.3	64					0.06	34.674	26.7			
O4-4S-53m	10/7/02	945	0.06	1.9	0.02	0.3	0.20	2.8	2.4	68					0.06	34.942	27.0			
O4-4S-53m	3/10/03	1108	1.10	34.1	0.14	2.0	0.04	0.6	2.9	83					0.06	34.760	25.0			
O4-4S-53m	4/22/03	948	0.07	2.2	0.03	0.4	0.03	0.4	3.4	95					0.06	35.041	24.8			
Geomean	FY '03		4.7		0.4		1.1								0.06					
O4-4S-53m	8/19/03	1204	0.06	1.9	0.01	0.1	0.20	2.8	1.5	42					0.05	34.841	28.2			
O4-4S-53m	10/30/03	919	0.10	3.1	0.13	1.8	0.24	3.4	1.8	52					0.08	34.823	27.5			
O4-4S-53m	3/17/04	1009	0.12	3.7	0.04	0.6	0.15	2.1	1.8	50					n/d	34.389	26.0			
O4-4S-53m	5/24/04	931	0.15	4.6	0.07	1.0	0.06	0.8	2.7	75					n/d	33.36	26.8			
Geomean	FY '04		3.2		0.6		2.0								0.06					
O4-4S-53m	9/22/04	1000	0.07	2.2	0.01	0.1	0.26	3.6	1.4	40					0.08	33.78	27.6			
O4-4S-53m	11/29/04	913	0.06	1.9	0.10	1.4	0.10	1.4	1.1	30					0.05	33.70	26.9			
O4-4S-53m	1/24/05	950	0.08	2.5	0.45	6.3	0.12	1.7	3.0	83					0.11	35.257	25.4			
O4-4S-53m	4/13/05	948	0.13	4.0	0.48	6.7	0.17	2.4	3.0	85					0.11	34.441	25.5			
Geomean	FY '05		2.5		1.7		2.1								0.08					

NELHA Water Quality Laboratory

Transect 4, Station 4

8/3/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O4-4S-53m	7/21/05	904	0.06	1.9	0.17	2.4	0.28	3.9	3.1	86					0.09	34.693	27.4			
O4-4S-53m	10/13/05	839	0.05	1.5	0.01	0.1	0.18	2.5	2.3	63					0.14	34.900	27.2			
O4-4S-53m	3/14/06	930	0.10	3.1	0.11	1.5	0.33	4.6	6.1	172					0.09	34.847	24.5			
O4-4S-53m	5/17/06	858	0.09	2.8	0.11	1.5	0.05	0.7	1.3	37					0.09	34.682	24.6			
Geomean	FY '06		2.2		0.9		2.4								0.10					
O4-4S-53m	8/16/06	901	0.11	3.4	0.27	3.8	0.20	2.8	2.5	71					0.14	34.641	26.8			
O4-4S-53m	11/20/06	854	0.10	3.1	0.13	1.8	0.53	7.4	1.6	45					0.14	34.798	26.7			
O4-4S-53m	2/12/07	947	0.17	5.3	0.15	2.1	0.35	4.9	0.9	26					0.14	34.448	24.5			
O4-4S-53m	4/16/07	944	0.16	5.0	0.40	5.6	0.32	4.5	6.6	186					0.13	34.547	25.9			
Geomean	FY '07		4.1		3.0		4.6								0.14					
T4-100m	9/26/07	1211	0.15	4.8	0.14	2.0	0.10	1.4	5.2	147	0.47	14.5	5.8	81	0.08	34.977	26.8	8.21	6.62	0.09
T4-100m	12/14/07	913	0.08	2.4	0.01	0.1			3.7	104	0.30	9.3	7.0	98	0.07	34.729	25.7	8.22	6.59	0.17
T4-100m	3/11/08	922	0.35	10.9	0.33	4.6	0.06	0.8	6.5	182	0.14	4.2	7.3	102	0.08	34.826	24.7	8.08	6.48	0.38
T4-100m	6/9/08	1014	0.07	2.1	0.08	1.1	0.02	0.3	10.4	293	0.24	7.5	6.3	88	0.13	34.6992	25.8	8.11	5.7	0.1
Geomean	FY '08		4.0		1.0		0.7				8.1		92		0.09					0.16
T4-100m	9/23/08	1052	0.17	5.3	0.00	0.01	0.19	2.6	1.7	47	0.36	11.2	5.1	71	0.08	34.830	26.6	8.06	5.81	0.07
T4-100m	12/8/08	1000	0.15	4.7	0.24	3.4	0.13	1.8	2.6	73	0.40	12.4	5.6	78	0.07	34.967	26.2	8.28	5.15	0.06
T4-100m	2/10/09	856	0.09	2.9	0.29	4	0.12	1.7	2.0	56	0.23	7	7.6	107	0.15	35.100	24.7	8.05	6.10	0.03
T4-100m	6/30/09	941	0.24	7.3	0.24	3.3	0.12	1.7	4.2	117	0.38	11.9	5.2	72	0.17	34.899	26.7	8.19	5.88	0.1
Geomean	FY '09		4.8		0.8		1.9				10.4		81		0.11					0.06
T4-100m	9/10/09	929	0.16	5	0.09	1.2	0.03	0.4	13.7	385	0.40	12.5	6.2	87	0.08	35.22	27.4	8.21	5.86	0.18
T4-100m	11/24/09	917	0.03	0.8	0.21	3	0.15	2.1	2.1	59	0.36	11.3	5.2	73	0.04	35.27	25.2	8.25	6.47	0.14
T4-100m	2/24/10	949	0.15	4.8	0.22	3.1	0.39	5.5	3.3	92	0.36	11.0	6.8	95	0.06	35.09	24.6	8.23	5.47	0.17
T4-100m	5/25/10	930	0.01	0.2	0.06	0.9	0.51	7.2	1.8	51	0.23	7.2	6.7	94	0.04	34.93	25.0	8.20	6.84	0.08
Geomean	FY '10		1.4		1.8		2.4				10.3		86		0.05					0.14
T4-100m	8/11/10	926	0.01	0.4	0.06	0.9	0.01	0.2	1.6	46	0.29	9.1	2.8	39	0.06	34.97	26.01	8.23	6.56	0.14
T4-100m	11/9/10	923	0.04	1.3	0.11	1.5	0.04	0.5	1.1	30	0.43	13.2	3.9	55	0.07	34.88	26.04	8.28	6.26	0.01
T4-100m	1/11/11	1147	0.16	5.1	0.51	7.2	0.40	5.6	3.0	85	0.43	13.4	3.9	55	0.08	35.01	24.97	8.21	6.47	0.11
T4-100m	4/27/11	932	0.13	3.9	0.37	5.2	0.19	2.7	3.4	96	0.45	13.9	4.2	59	0.08	34.91	24.91	8.22	6.31	0.18
Geomean	FY '11		1.8		2.7		1.1				12.2		51		0.07					0.07

NELHA Water Quality Laboratory

Transect 4, Station 4

8/3/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
T4-100m	7/27/11	926	0.18	5.7	0.29	4.1	0.16	2.2	1.7	48	0.46	14.2	4.8	68	0.04	34.79	26.02	8.21	6.12	0.11
T4-100m	10/19/11	953	0.03	1	0.06	0.9	0.04	0.6	1.8	50	0.48	14.9	4.6	64	0.03	35.10	26.49	8.24	7.07	0.08
T4-100m	1/26/12	923	0.06	1.8	0.14	1.9	0.01	0.1	1.8	50	0.34	10.4	3.9	54	0.05	35.03	24.42	8.26	6.65	0.11
T4-100m	4/25/12	938	0.14	4.4	0.08	1.1	0.22	3.1	0.8	23	0.44	13.5	5.0	69	0.03	34.88	24.86	8.18	6.77	0.04
Geomean	FY '12		2.6		1.7		0.8				13.1		63		0.04					0.08
T4-100m	7/25/12	934	0.03	1	0.14	2	0.49	6.9	1.4	38	0.37	11.5	5.8	81	0.09	35.10	26.40	8.23	6.75	0.08
T4-100m	11/28/12	936	0.09	2.7	0.04	0.5	0.11	1.5	1.0	29	0.48	15	6.5	91	0.04	35.27	25.32	8.20	6.58	0.09
T4-100m	1/24/13	920	0.05	1.7	0.01	0.2	0.05	0.7	1.2	34	0.46	14.1	3.9	54	0.06	35.10	24.80	8.23	6.43	0.05
T4-100m	4/17/13	1037	0.17	5.2	0.31	4.3	0.15	2.1	1.2	32	1.18	36.7	5.5	77	0.02	35.17	25.00	8.20	6.56	0.09
Geomean	FY '13		2.2		1.0		2.0				17.3		74		0.05					0.08
T4-100m	8/6/13	946	0.11	3.5	0.01	0.1	0.20	2.8	0.5	15	0.36	11.3	5.3	74	0.02	35.21	26.6	8.27	7.01	0.05
T4-100m	10/30/13	921	0.14	4.2	0.22	3.1	0.14	2.0	1.8	49	0.43	13.4	5.5	77	0.08	34.90	27.0	8.23	5.80	0.17
T4-100m	2/5/14	941	0.14	4.2	0.23	3.2	0.24	3.3	2.5	70	0.46	14.3	5.4	75	0.02	34.94	25.1	8.20	6.28	0.12
T4-100m	5/7/14	938	0.10	3.1	0.06	0.8	0.11	1.5	0.9	27	0.46	14.1	6.3	88	0.10	34.33	26.0	8.21	5.59	0.13
Geomean	FY '14		3.7		0.9		2.3				13.2		79		0.04					0.11
T4-100m	8/6/14	931	0.16	4.9	0.01	0.2	0.28	3.9	0.5	14	0.49	15.3	4.2	59	0.07	34.96	27.0	8.22	6.50	0.11
T4-100m	12/4/14	1000	0.09	2.9	0.01	0.2	0.52	7.3	0.2	4	0.44	13.5	7.4	104	0.05	35.23	26.4	8.24	6.26	0.13
T4-100m	3/5/15	952	0.01	0.2	0.04	0.5	0.26	3.6	0.1	4	0.31	9.5	5.3	74	0.09	34.69	25.4	8.24	6.89	0.11
T4-100m	6/18/15	933	0.09	2.8	0.65	9.1	0.23	3.2	2.6	72	0.28	8.7	6.6	93	0.07	34.42	26.6	8.14	6.51	0.16
Geomean	FY '15		1.7		0.7		4.3				11.4		81		0.07					0.13
T4-100m	8/29/15	945	0.13	4.0	0.28	3.9	0.21	2.9	5.1	142	0.40	12.4	3.8	53	0.02	34.63	28.5	8.24	5.94	0.17
T4-100m	11/18/15	1004	0.14	4.4	0.61	8.5	0.11	1.6	8.7	245	0.49	15.3	4.1	58	0.07	34.65	27.4	8.27	6.69	0.12
T4-100m	3/2/16	851	0.14	4.2	0.26	3.6	0.31	4.3	0.8	23	0.46	14.1	3.1	44	0.09	34.69	25.2	8.23	5.87	0.12
T4-100m	5/4/16	938	0.18	5.7	0.12	1.7	0.14	1.9	1.3	37	0.42	12.9	8.0	112	0.08	34.69	25.9	8.19	6.17	0.15
Geomean	FY '16		4.5		3.8		2.5				13.6		62		0.06					0.14
T4-100m	7/7/16	947	0.06	1.8	0.27	3.8	0.15	2.1	0.3	8	0.44	13.5	4.3	61	0.07	34.71	26.9	8.30	6.72	0.23
T4-100m	12/21/16	951	0.06	1.9	0.42	5.9	0.34	4.8	3.3	92	0.35	10.8	4.2	59	0.04	34.67	25.4	8.25	5.77	0.14
T4-100m	3/1/17	1044	0.01	0.2	0.17	2.4	0.02	0.3	0.5	15	0.29	9.0	4.8	68	0.09	34.77	24.6	8.23	5.89	0.10
T4-100m	5/10/17	1046	0.02	0.7	0.26	3.6	0.20	2.8	1.3	38	0.23	7.2	4.8	67	0.06	34.82	25.8	8.23	4.24	0.09
Geomean	FY '17		0.8		3.7		1.7				9.9		63		0.06					0.13

NELHA Water Quality Laboratory

Transect 4, Station 4

8/3/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (μM) (μg P/L)		TDN (μM) (μg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (μg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
T4-100m	9/28/17	941	0.12	3.7	0.10	1.4	0.09	1.2	0.5	13	0.38	11.8	4.0	57	0.05	34.83	27.8	8.17	5.04	0.10
T4-100m	11/30/17	926	0.07	2.2	0.14	2.0	0.28	3.9	1.1	30	0.28	8.8	5.9	83	0.08	35.21	26.4	8.21	5.70	0.11
T4-100m	2/6/18	1009	0.07	2.2	0.03	0.4	0.36	5.1	1.3	36	0.34	10.6	2.1	30	0.09	34.84	24.9	8.15	5.88	0.08
T4-100m	5/17/18	943	0.08	2.4	0.15	2.1	0.10	1.4	1.0	28	0.36	11.2	1.8	26	0.02	34.83	26.0	8.15	6.37	0.07
Geomean	FY '18		2.6		1.2		2.4				10.5		43		0.05					0.09
T4-100m	9/26/18	1220	0.03	1.0	0.16	2.3	0.38	5.3	0.3	10	0.36	11.0	2.3	33	0.09	34.74	27.6	8.14	4.71	0.19
T4-100m	11/14/18	1029	0.03	0.9	0.14	2.0	0.19	2.7	3.2	89	0.35	10.8	4.1	58	0.08	34.91	27.3	8.19	6.11	0.16
T4-100m	1/23/19	1019	0.07	2.3	0.04	0.6	0.14	2.0	3.0	83	0.36	11.1	2.5	35	0.06	34.94	24.9	8.19	5.02	0.22
T4-100m	4/17/19	1005	0.12	3.7	0.08	1.1	0.20	2.8	7.9	222	0.38	11.7	2.4	34	0.02	34.75	25.8	8.10	6.70	0.10
Geomean	FY '19		1.7		1.3		3.0				11.1		39		0.05					0.16
T4-100m	8/15/19	946	0.03	0.8	0.16	2.3	0.22	3.1	3.2	89	0.29	9.1	2.4	33	0.11	35.25	28.2	8.19	6.57	0.19
T4-100m	11/19/19	1121	0.09	2.8	0.05	0.7	0.73	10.2	0.1	4	0.38	11.9	2.5	35	0.07	34.85	27.7	8.23	6.46	0.11
T4-100m	1/23/20	1001	0.07	2.1	0.16	2.3	0.09	1.3	1.7	47	0.39	12.1	2.1	30	0.04	34.98	25.0	8.22	6.78	0.10
T4-100m	6/25/20	923	0.05	1.6	0.16	2.3	0.29	4.1	0.3	9	0.28	8.7	1.5	21	0.06	35.47	26.2	8.17	6.64	0.15
Geomean	FY '20		1.7		1.7		3.6				10.3		29		0.07					0.13

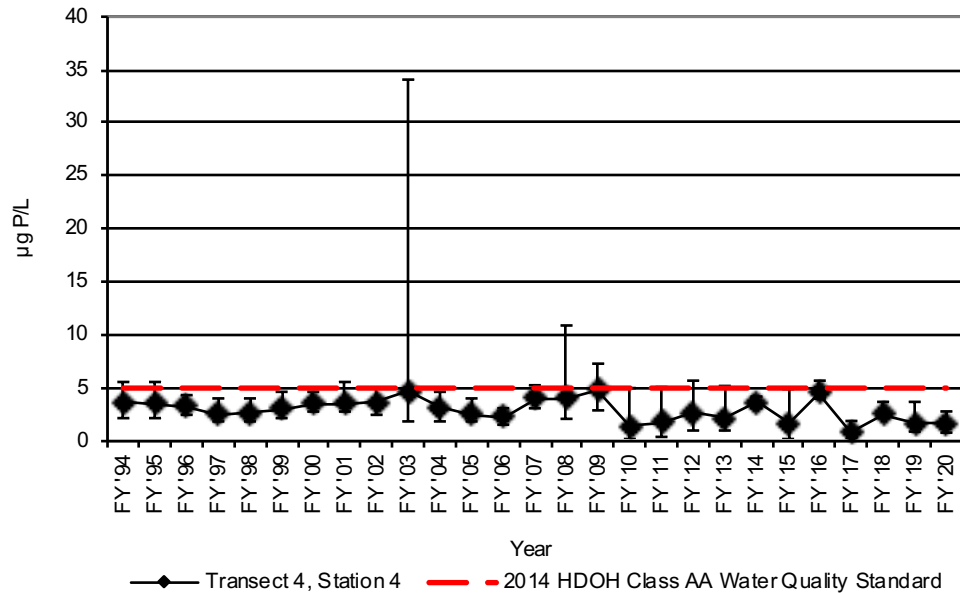
NELHA Water Quality Laboratory

Transect 4, Station 4

8/3/1993 - 7/16/20

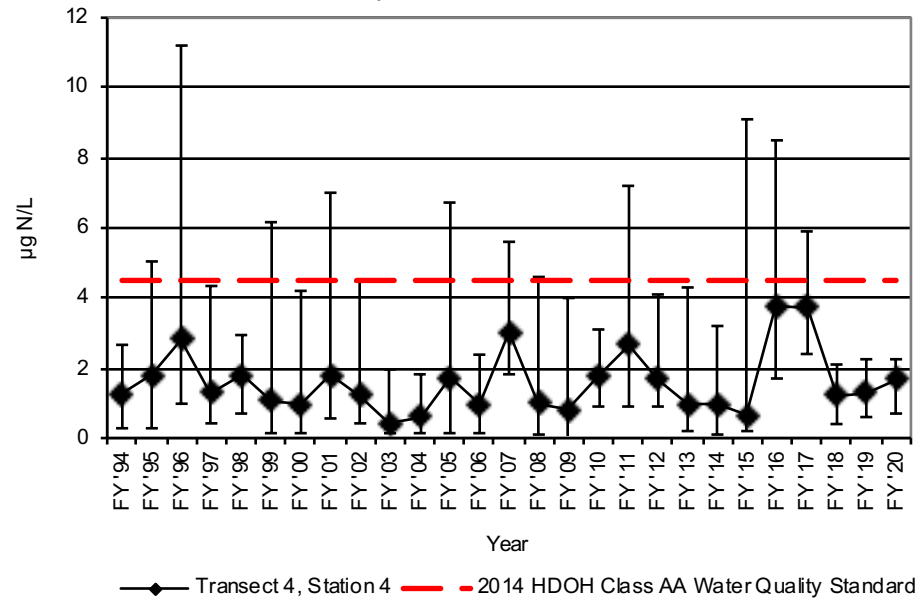
NELHA Offshore Transect 4, Station 4

Yearly Geometric Mean of Ortho-Phosphate



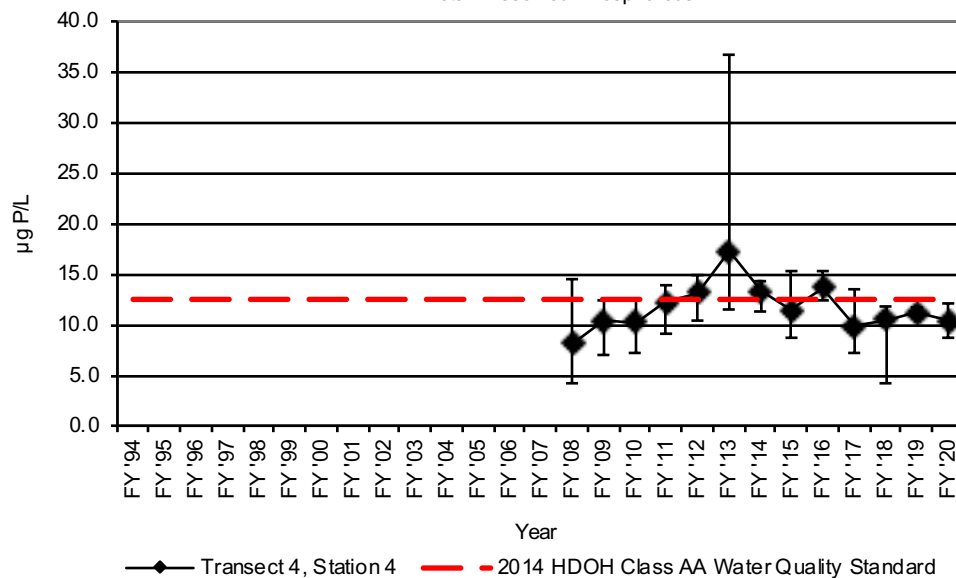
NELHA Offshore Transect 4, Station 4

Yearly Geometric Mean of Nitrate + Nitrite



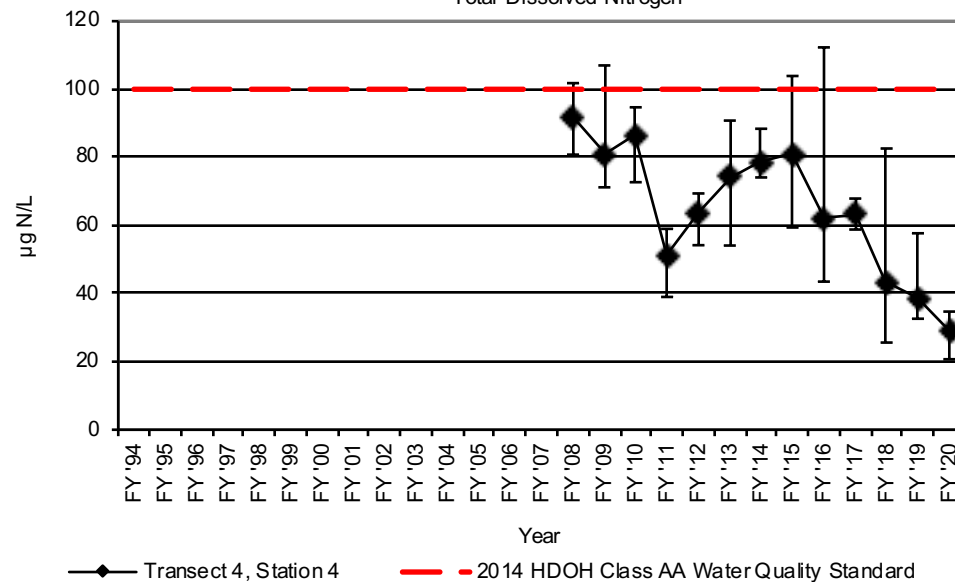
NELHA Offshore Transect 4, Station 4

Yearly Geometric Mean of
Total Dissolved Phosphorous



NELHA Offshore Transect 4, Station 4

Yearly Geometric Mean of
Total Dissolved Nitrogen



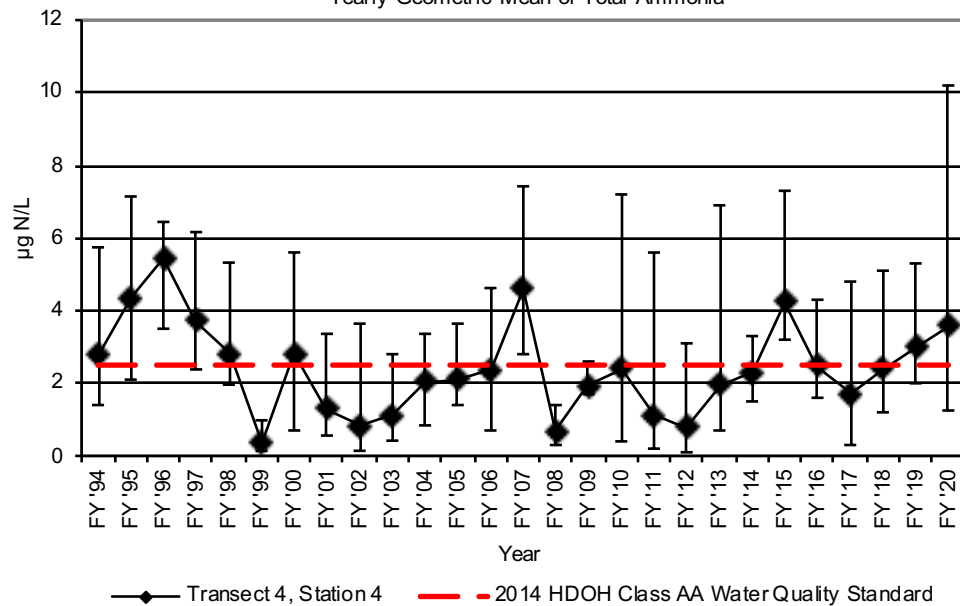
NELHA Water Quality Laboratory

Transect 4, Station 4

8/3/1993 - 7/16/20

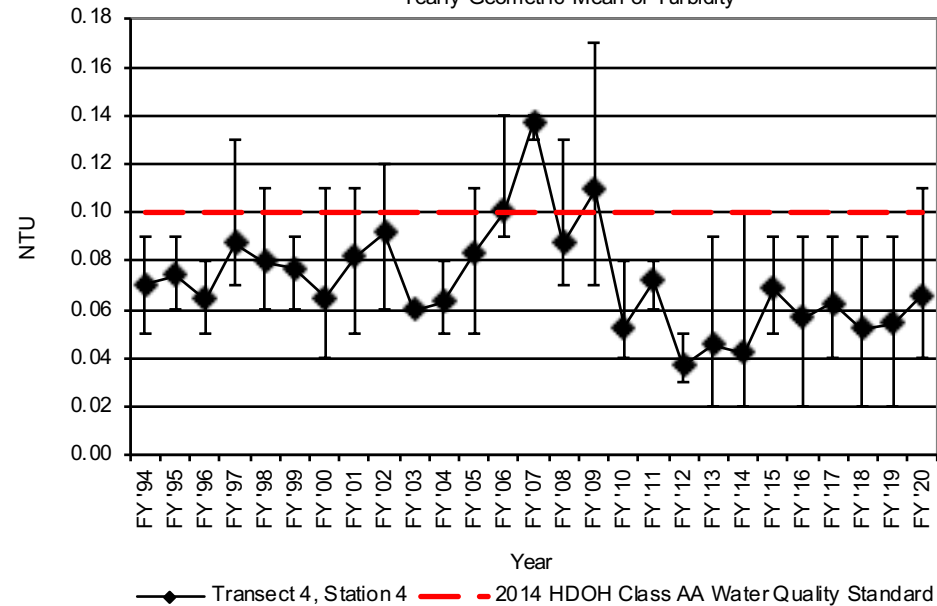
NELHA Offshore Transect 4, Station 4

Yearly Geometric Mean of Total Ammonia



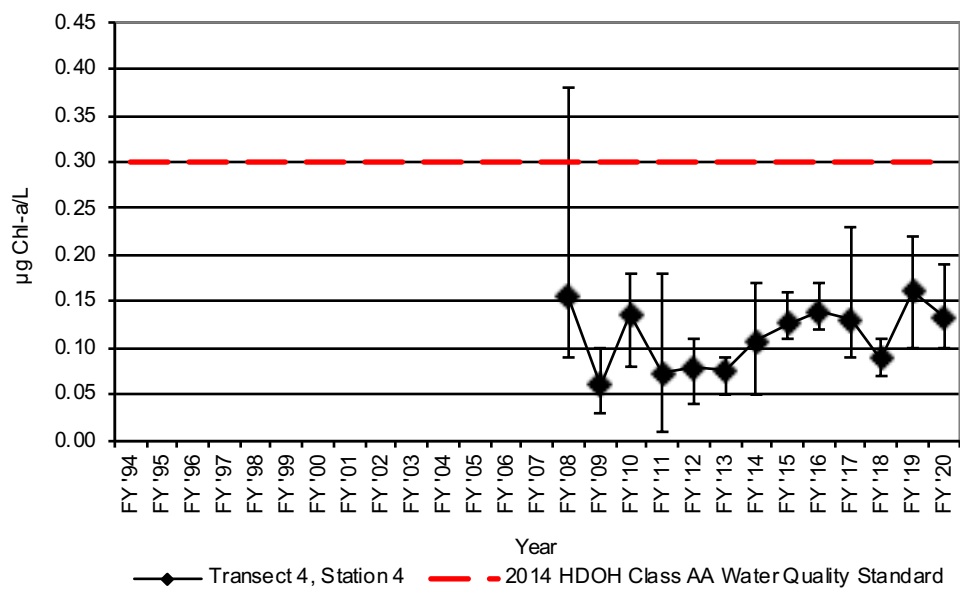
NELHA Offshore Transect 4, Station 4

Yearly Geometric Mean of Turbidity



NELHA Offshore Transect 4, Station 4

Yearly Geometric Mean of Chlorophyll-a



NELHA Water Quality Laboratory

Transect 4, Station 5

8/3/1993 - 7/16/20

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		Turbidity	Salinity	Temp.	pH	DO	Chl a
	M/D/Y	(2400)	(µM)	(µg P/L)	(µM)	(µg N/L)	(µM)	(µg N/L)	(µM)	(µg Si/L)	(µM)	(µg P/L)	(µM)	(µg N/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O4-5S-69m	8/3/93	842	0.12	3.7	0.05	0.7	0.50	7.0	1.6	44					0.06	34.460	26.8			
O4-5S-69m	12/8/93	856	0.06	1.9	0.09	1.3	0.10	1.4	2.2	61					0.06	34.796	25.7			
O4-5S-69m	3/8/94	836	0.18	5.6	0.21	2.9	0.17	2.4	3.2	90					0.07	34.205	25.1			
O4-5S-69m	6/13/94	839	0.11	3.4	0.03	0.4	0.06	0.8	6.0	169					0.08	34.550	25.5			
Geomean	FY '94		3.4		1.0		2.1								0.07					
O4-5S-69m	9/15/94	842	0.07	2.2	0.06	0.8	0.14	2.0	2.5	69					0.08	34.633	27.8			
O4-5S-69m	11/15/94	802	0.14	4.3	0.52	7.3	0.62	8.7	5.2	146					0.08	34.545	26.0			
O4-5S-69m	3/22/95	1138	0.19	5.9	0.38	5.3	0.37	5.2	5.8	162					0.11	34.123	25.3			
O4-5S-69m	6/21/95	810	0.10	3.1	0.15	2.1	0.35	4.9	2.4	66					0.07	34.448	26.2			
Geomean	FY '95		3.6		2.9		4.6								0.08					
O4-5S-69m	9/28/95	1026	0.10	3.1	0.07	1.0	0.46	6.4	1.9	53					0.07	34.615	27.4			
O4-5S-69m	11/14/95	811	0.10	3.1	0.06	0.8	0.46	6.4	1.9	53					0.06	34.361	26.7			
O4-5S-69m	3/12/96	850	0.14	4.3	0.22	3.1	0.48	6.7	2.9	81					0.15	34.174	25.0			
O4-5S-69m	5/14/96	824	0.15	4.6	0.51	7.1	0.27	3.8	4.0	113					0.08	34.265	26.9			
Geomean	FY '96		3.7		2.1		5.7								0.08					
O4-5S-69m	7/31/96	842	0.08	2.5	0.23	3.2	0.37	5.2	8.0	225					0.08	34.410	27.8			
O4-5S-69m	10/2/96	837	0.05	1.5	0.01	0.1	0.18	2.5	2.8	79					0.08	34.641	27.9			
O4-5S-69m	1/7/97	852	0.08	2.5	0.17	2.4	0.20	2.8	2.7	76					0.09	34.718	25.4			
O4-5S-69m	4/28/97	905	0.17	5.3	0.21	2.9	0.40	5.6	9.1	256					0.12	34.411	26.8			
Geomean	FY '97		2.7		1.3		3.8								0.09					
O4-5S-69m	8/19/97	857	0.05	1.5	0.04	0.6	0.20	2.8	2.9	81					0.08	34.663	27.2			
O4-5S-69m	10/7/97	1132	0.12	3.7	0.08	1.1	0.44	6.2	2.9	83					0.11	34.752	27.8			
O4-5S-69m	3/4/98	857	0.08	2.5	0.07	1.0	0.16	2.2	4.2	118					0.06	35.023	25.0			
O4-5S-69m	5/5/98	905	0.09	2.8	0.14	2.0	0.15	2.1	3.2	90					0.08	35.062	24.1			
Geomean	FY '98		2.5		1.0		3.0								0.08					
O4-5S-69m	7/7/98	923	0.11	3.4	0.30	4.2	0.01	0.1	6.5	183					0.07	34.962	26.4			
O4-5S-69m	10/6/98	841	0.09	2.8	0.01	0.1	0.01	0.1	1.5	43					0.09	35.122	26.9			
O4-5S-69m	1/19/99	902	0.07	2.2	0.02	0.3	0.05	0.7	2.5	69					0.08	35.134	25.1			
O4-5S-69m	4/13/99	954	0.14	4.3	0.31	4.3	0.10	1.4	5.5	154					0.08	34.633	24.3			
Geomean	FY '99		3.1		0.9		0.4								0.08					

NELHA Water Quality Laboratory

Transect 4, Station 5

8/3/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O4-5S-69m	8/16/99	915	0.11	3.4	0.18	2.5	0.45	6.3	1.7	49					0.10	34.867	26.1			
O4-5S-69m	10/25/99	1015	0.09	2.8	0.02	0.3	0.28	3.9	5.4	151					0.08	34.963	26.1			
O4-5S-69m	1/12/00	925	0.11	3.4	0.04	0.6	0.27	3.8	2.1	59					0.09	35.132	24.8			
O4-5S-69m	5/16/00	857	0.14	4.3	0.36	5.0	0.05	0.7	5.1	142					0.08	34.628	25.2			
Geomean	FY '00		3.4		1.2		2.8								0.09					
O4-5S-69m	7/25/00	925	0.10	3.1	0.09	1.3	0.05	0.7	15.0	421					0.06	34.871	26.7			
O4-5S-69m	10/31/00	917	0.09	2.8	0.03	0.4	0.22	3.1	2.3	64					0.10	34.962	27.0			
O4-5S-69m	3/6/01	909	0.18	5.6	0.42	5.9	0.08	1.1	3.7	104					0.09	34.702	24.8			
O4-5S-69m	5/8/01	1008	0.14	4.3	0.22	3.1	0.13	1.8	4.7	131					0.07	34.752	24.9			
Geomean	FY '01		3.8		1.8		1.4								0.08					
O4-5S-69m	8/13/01	1016	0.08	2.5	0.03	0.4	0.32	4.5	7.7	217					0.09	34.882	26.5			
O4-5S-69m	10/30/01	920	0.11	3.4	0.02	0.3	0.03	0.4	1.7	48					0.11	35.028	26.8			
O4-5S-69m	3/4/02	945	0.12	3.7	0.08	1.1	0.01	0.1	3.3	92					0.08	34.668	24.2			
O4-5S-69m	4/16/02	945	0.17	5.3	0.40	5.6	0.27	3.8	9.7	271					0.07	34.375	25.6			
Geomean	FY '02		3.6		0.9		1.0								0.09					
O4-5S-69m	7/9/02	1058	0.09	2.8	0.01	0.1	0.16	2.2	4.3	119					0.07	34.658	26.7			
O4-5S-69m	10/7/02	940	0.07	2.2	0.02	0.3	0.20	2.8	2.2	60					0.05	34.939	27.0			
O4-5S-69m	3/10/03	1059	0.08	2.5	0.10	1.4	0.03	0.4	3.1	87					0.06	34.790	24.9			
O4-5S-69m	4/22/03	942	0.07	2.2	0.03	0.4	0.05	0.7	3.1	88					0.08	35.016	24.8			
Geomean	FY '03		2.4		0.4		1.2								0.06					
O4-5S-69m	8/19/03	1051	0.07	2.2	0.01	0.1	0.20	2.8	1.6	44					0.06	34.838	28.2			
O4-5S-69m	10/30/03	912	0.10	3.1	0.10	1.4	0.20	2.8	1.9	54					0.13	34.824	27.5			
O4-5S-69m	3/17/04	1003	0.11	3.4	0.04	0.6	0.21	2.9	1.4	39					n/a	34.354	26.0			
O4-5S-69m	5/24/04	925	0.15	4.6	0.18	2.5	0.09	1.3	3.2	88					n/a	33.37	26.8			
Geomean	FY '04		3.2		0.7		2.3								0.09					
O4-5S-69m	9/22/04	950	0.06	1.9	0.01	0.1	0.26	3.6	1.4	38					0.06	33.80	27.7			
O4-5S-69m	11/29/04	910	0.07	2.2	0.10	1.4	0.12	1.7	1.2	32					0.05	33.79	26.9			
O4-5S-69m	1/24/05	943	0.05	1.5	0.07	1.0	0.14	2.0	2.3	65					0.09	34.849	25.6			
O4-5S-69m	4/13/05	942	0.13	4.0	0.36	5.0	0.17	2.4	2.8	79					0.13	34.436	25.6			
Geomean	FY '05		2.2		1.0		2.3								0.08					

NELHA Water Quality Laboratory

Transect 4, Station 5

8/3/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O4-5S-69m	7/21/05	858	0.05	1.5	0.03	0.4	0.37	5.2	3.3	92					0.08	34.711	27.4			
O4-5S-69m	10/13/05	830	0.08	2.5	0.13	1.8	0.18	2.5	3.3	92					0.14	34.863	27.4			
O4-5S-69m	3/14/06	922	0.09	2.8	0.07	1.0	0.33	4.6	1.6	45					0.10	34.849	24.5			
O4-5S-69m	5/17/06	851	0.10	3.1	0.09	1.3	0.09	1.3	1.3	36					0.08	34.615	24.8			
Geomean	FY '06		2.4		1.0		3.0								0.10					
O4-5S-69m	8/16/06	854	0.09	2.8	0.22	3.1	0.16	2.2	2.8	79					0.17	34.632	26.8			
O4-5S-69m	11/20/06	848	0.10	3.1	0.13	1.8	0.51	7.1	1.6	45					0.09	34.811	26.6			
O4-5S-69m	2/12/07	939	0.18	5.6	0.14	2.0	0.35	4.9	0.7	21					0.12	34.437	24.8			
O4-5S-69m	4/16/07	935	0.18	5.6	1.46	20.4	0.46	6.4	10.4	292					0.20	34.415	26.5			
Geomean	FY '07		4.0		3.9		4.7								0.14					
T4-500m	9/26/07	1220	0.15	4.6	0.01	0.1	0.16	2.2	2.3	66	0.01	0.3	5.9	83	0.05	34.975	26.9	8.17	6.26	0.06
T4-500m	12/14/07	818	0.08	2.6	0.01	0.1			2.3	66	0.34	10.6	6.4	89	0.08	34.747	25.8	8.23	6.59	0.09
T4-500m	3/11/08	928	0.03	0.8	0.14	1.9	0.06	0.8	8.3	232	0.07	2.2	6.8	95	0.12	34.867	24.8	8.1	6.54	0.36
T4-500m	6/9/08	1008	0.07	2.3	0.06	0.8	0.74	10.4	6.7	189	0.10	3.1	7.6	106	0.15	34.7106	25.8	8.11	5.66	0.17
Geomean	FY '08		2.2		0.4		2.6				2.2		93		0.09					0.13
T4-500m	9/23/08	1100	0.03	0.9	0.00	0.01	0.18	2.5	1.1	30	0.16	5.1	4.7	66	0.06	34.833	26.7	8.07	6.07	0.03
T4-500m	12/8/08	1008	0.14	4.3	0.04	0.6	0.09	1.2	1.9	54	0.21	6.6	4.7	66	0.06	34.982	26.2	8.30	5.07	0.04
T4-500m	2/10/09	903	0.08	2.4	0.10	1.4	0.12	1.7	2.0	56	0.24	7.3	6.5	90	0.08	35.096	24.7	8.07	6.08	0.03
T4-500m	6/30/09	951	0.26	7.9	0.39	5.5	0.56	7.9	5.1	144	0.37	11.4	4.4	62	0.05	34.908	26.8	8.20	5.82	0.1
Geomean	FY '09		2.9		0.5		2.5				7.3		70		0.06					0.04
T4-500m	9/10/09	942	0.12	3.6	0.06	0.8	0.69	9.7	47.4	1330	0.37	11.5	5.5	77	0.07	35.24	27.5	8.22	5.56	0.1
T4-500m	11/24/09	924	0.03	0.8	0.03	0.4	0.11	1.6	2.3	66	0.33	10.2	4.4	61	0.03	35.27	25.2	8.23	6.51	0.11
T4-500m	2/24/10	956	0.12	3.7	0.01	0.2	0.35	4.9	1.9	54	0.29	8.9	3.4	48	0.05	35.12	24.7	8.20	5.48	0.17
T4-500m	5/25/10	939	0.01	0.2	0.05	0.7	0.08	1.1	1.5	42	0.28	8.6	5.9	82	0.05	35.01	24.9	8.21	6.62	0.08
Geomean	FY '10		1.2		0.5		3.0				9.7		66		0.05					0.11
T4-500m	8/11/10	934	0.02	0.6	0.02	0.3	0.01	0.1	1.9	53	0.30	9.4	2.7	38	0.05	34.96	26.21	8.23	6.61	0.16
T4-500m	11/9/10	929	0.01	0.3	0.08	1.1	0.11	1.5	3.1	86	0.38	11.8	2.2	32	0.07	34.98	26.54	8.28	6.31	0.02
T4-500m	1/11/11	1155	0.12	3.6	0.01	0.2	0.27	3.8	3.5	97	0.41	12.7	2.9	41	0.04	35.04	25.12	8.21	6.34	0.13
T4-500m	4/27/11	940	0.09	2.8	0.34	4.8	0.11	1.5	4.8	134	0.44	13.7	3.9	55	0.09	34.85	25.03	8.22	6.13	0.14
Geomean	FY '11		1.2		0.8		1.0				11.8		41		0.06					0.09

NELHA Water Quality Laboratory

Transect 4, Station 5

8/3/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
T4-500m	7/27/11	936	0.17	5.4	0.26	3.6	0.18	2.5	1.9	52	0.49	15.3	5.9	83	0.05	34.80	25.91	8.22	6.23	0.13
T4-500m	10/19/11	1001	0.01	0.3	0.04	0.5	0.04	0.5	2.1	60	0.34	10.6	4.5	64	0.08	35.10	26.61	8.25	7.01	0.11
T4-500m	1/26/12	930	0.05	1.4	0.04	0.6	0.02	0.3	1.3	36	0.40	12.3	6.2	87	0.02	35.06	24.59	8.25	6.63	0.10
T4-500m	4/25/12	944	0.15	4.6	0.15	2.1	0.26	3.6	1.9	53	0.54	16.8	9.2	128	0.11	34.82	24.88	8.19	6.71	0.04
Geomean	FY '12		1.8		1.2		1.1				13.5		88		0.05					0.09
T4-500m	7/25/12	941	0.02	0.6	0.21	2.9	0.26	3.7	2.7	75	0.36	11.1	4.9	69	0.07	35.06	26.37	8.24	6.78	0.11
T4-500m	11/28/12	943	0.07	2.3	0.03	0.4	0.21	2.9	4.0	114	0.42	13	5.9	82	0.06	35.29	25.47	8.21	6.79	0.05
T4-500m	1/24/13	929	0.05	1.5	0.01	0.1	0.04	0.5	1.1	30	0.61	18.9	4.8	67	0.04	35.10	24.69	8.22	6.33	0.09
T4-500m	4/17/13	1045	0.16	5	0.15	2.1	0.20	2.8	0.8	22	0.61	18.8	5.0	70	0.02	35.12	25.13	8.20	6.56	0.05
Geomean	FY '13		1.8		0.7		2.0				15.0		72		0.04					0.07
T4-500m	8/6/13	949	0.11	3.4	0.01	0.1	0.08	1.2	0.5	14	0.34	10.4	5.5	77	0.05	35.20	26.9	8.27	6.99	0.08
T4-500m	10/30/13	927	0.13	4.1	0.06	0.8	0.15	2.1	1.1	31	0.52	16.1	5.9	83	0.02	34.91	27.1	8.23	5.97	0.23
T4-500m	2/5/14	947	0.14	4.2	0.09	1.2	0.59	8.3	1.4	41	0.46	14.3	5.9	82	0.02	34.97	25.2	8.20	6.20	0.13
T4-500m	5/7/14	946	0.11	3.3	0.05	0.7	0.21	2.9	1.2	33	0.52	16.0	7.2	101	0.03	34.80	25.9	8.21	5.60	0.11
Geomean	FY '14		3.7		0.5		2.8				14.0		85		0.03					0.13
T4-500m	8/6/14	938	0.16	5.1	0.02	0.3	0.36	5.0	0.4	12	0.48	15.0	4.9	69	0.04	35.01	27.0	8.22	6.43	0.07
T4-500m	12/4/14	1008	0.09	2.7	0.01	0.2	0.38	5.3	0.0	0	0.25	7.8	6.3	88	0.11	35.25	26.5	8.24	6.35	0.10
T4-500m	3/5/15	959	0.02	0.7	0.01	0.1	0.18	2.5	0.1	4	0.30	9.2	5.1	72	0.07	34.73	25.4	8.24	6.84	0.08
T4-500m	6/18/15	940	0.07	2.2	0.21	2.9	0.26	3.6	1.9	53	0.28	8.6	5.4	76	0.06	34.48	26.9	8.14	6.40	0.08
Geomean	FY '15		2.1		0.4		3.9				9.8		76		0.07					0.08
T4-500m	8/29/15	951	0.12	3.7	0.03	0.4	0.18	2.5	1.1	31	0.39	12.2	4.8	67	0.03	34.65	28.6	8.24	5.91	0.14
T4-500m	11/18/15	1050	0.10	3.2	0.44	6.1	0.26	3.7	3.3	93	0.48	15.0	4.3	61	0.04	34.55	27.2	8.22	6.68	0.06
T4-500m	3/2/16	859	0.13	3.9	0.23	3.2	0.38	5.3	0.9	26	0.45	13.9	4.1	58	0.06	34.76	25.3	8.24	5.74	0.10
T4-500m	5/4/16	950	0.13	4.1	0.01	0.2	0.23	3.2	0.2	4	0.41	12.6	6.4	90	0.08	34.67	26.0	8.19	6.40	0.13
Geomean	FY '16		3.7		1.1		3.5				13.4		68		0.05					0.10
T4-500m	7/7/16	955	0.06	2.0	0.26	3.7	0.21	2.9	0.6	16	0.47	14.7	2.8	39	0.11	34.71	27.1	8.33	6.71	0.33
T4-500m	12/21/16	1000	0.04	1.1	0.06	0.9	0.49	6.9	1.2	33	0.33	10.1	2.6	36	0.05	34.67	25.6	8.27	5.96	0.14
T4-500m	3/1/17	1033	0.01	0.3	0.07	1.0	0.01	0.2	0.2	6	0.28	8.7	3.8	54	0.09	34.72	24.6	8.23	6.21	0.20
T4-500m	5/10/17	1052	0.08	2.4	0.01	0.1	0.16	2.3	0.2	5	0.21	6.5	2.4	33	0.09	34.85	26.1	8.23	4.05	0.05
Geomean	FY '17		1.1		0.8		1.7				9.6		40		0.08					0.15

NELHA Water Quality Laboratory

Transect 4, Station 5

8/3/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
T4-500m	9/28/17	948	0.09	2.9	0.13	1.8	0.08	1.1	0.2	5	0.39	12.1	3.9	54	0.04	34.86	28.2	8.17	4.85	0.09
T4-500m	11/30/17	937	0.08	2.4	0.15	2.1	0.31	4.4	1.1	32	0.36	11.2	3.5	50	0.05	35.21	26.5	8.21	5.57	0.13
T4-500m	2/6/18	1016	0.05	1.5	0.13	1.8	0.37	5.2	0.4	11	0.33	10.2	4.0	57	0.08	34.91	25.1	8.16	5.74	0.04
T4-500m	5/17/18	951	0.07	2.1	0.16	2.3	0.14	2.0	0.9	25	0.35	10.8	2.2	31	0.02	34.87	26.3	8.16	6.39	0.09
Geomean	FY '18		2.2		2.0		2.7				11.1		47		0.04					0.08
T4-500m	9/26/18	1229	0.00	0.1	0.16	2.3	0.27	3.8	0.0	1	0.36	11.1	3.0	43	0.08	34.77	27.8	8.14	4.61	0.11
T4-500m	11/14/18	1040	0.03	0.8	0.13	1.8	0.26	3.7	0.0	1	0.35	10.8	3.3	47	0.07	34.91	27.4	8.19	6.07	0.12
T4-500m	1/23/19	1028	0.07	2.1	0.01	0.2	0.06	0.9	0.4	10	0.36	11.0	2.4	34	0.06	34.95	25.0	8.19	5.05	0.19
T4-500m	4/17/19	1012	0.11	3.3	0.04	0.6	0.33	4.6	0.9	26	0.38	11.7	2.2	30	0.04	34.75	25.8	8.10	6.67	0.10
Geomean	FY '19		0.9		0.8		2.8				11.1		38		0.06					0.13
T4-500m	8/15/19	952	0.01	0.2	0.16	2.3	0.17	2.4	1.4	41	0.23	7.2	1.4	20	0.06	35.29	28.3	8.20	6.57	0.16
T4-500m	11/19/19	1128	0.10	3.1	0.05	0.7	0.60	8.4	0.2	6	0.40	12.3	2.4	34	0.06	34.81	27.8	8.22	6.45	0.12
T4-500m	1/23/20	1009	0.07	2.1	0.16	2.3	0.09	1.3	0.0	0	0.38	11.9	2.2	31	0.05	34.99	25.1	8.22	6.68	0.07
T4-500m	6/25/20	930	0.04	1.1	0.16	2.3	0.26	3.7	0.2	6	0.24	7.4	2.5	35	0.05	35.50	26.3	8.18	6.60	0.14
Geomean	FY '20		1.1		1.7		3.1				9.4		29		0.05					0.12

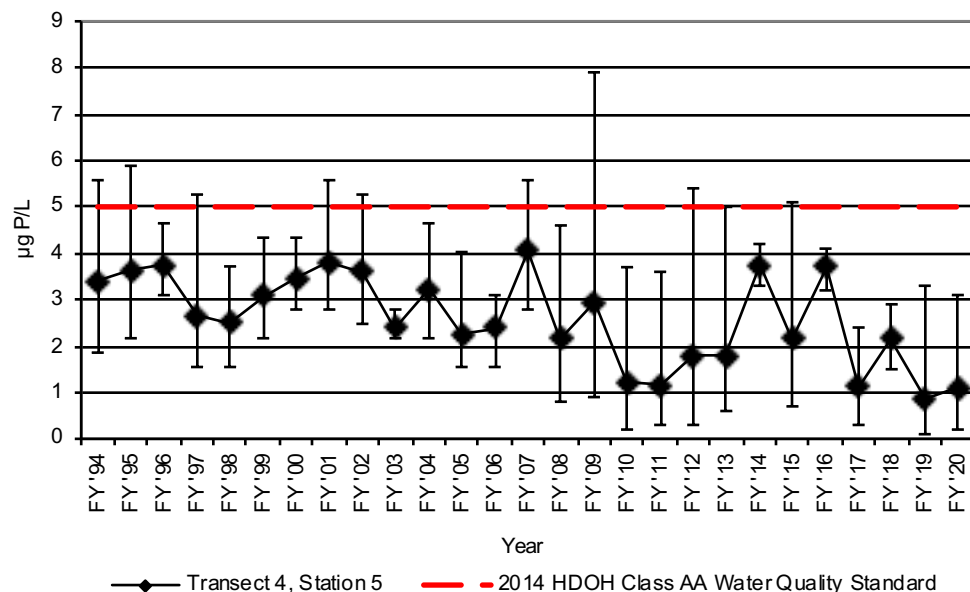
NELHA Water Quality Laboratory

Transect 4, Station 5

8/3/1993 - 7/16/20

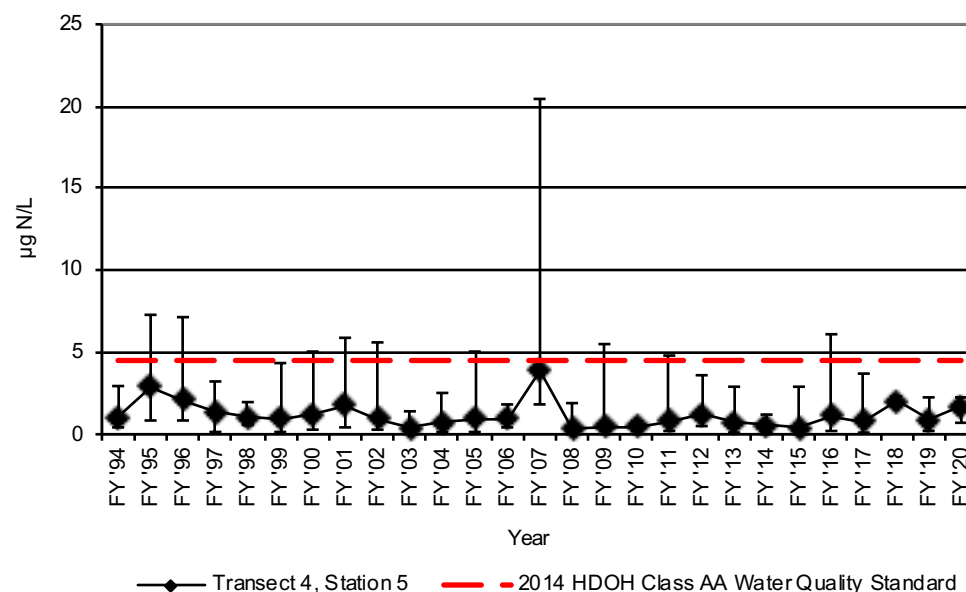
NELHA Offshore Transect 4, Station 5

Yearly Geometric Mean of Ortho-Phosphate



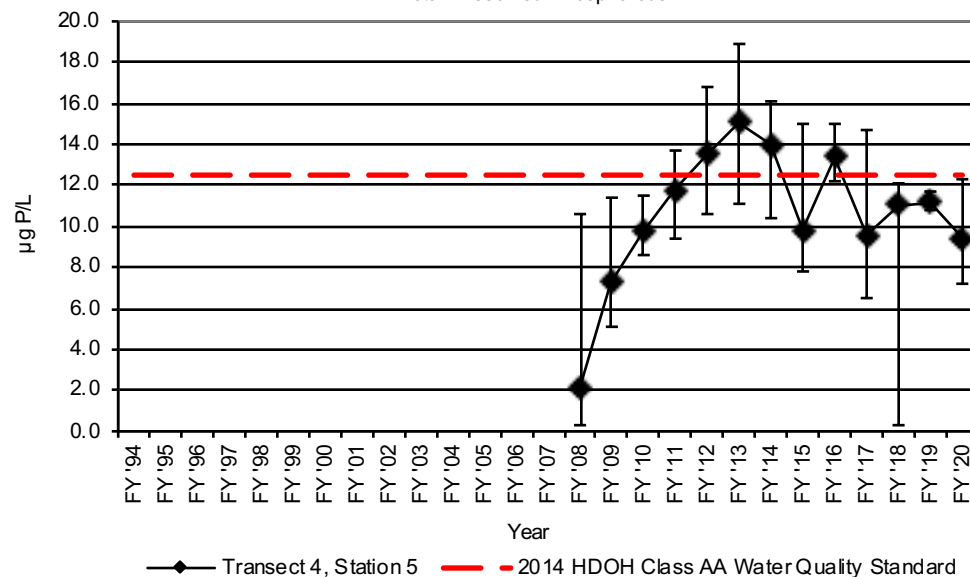
NELHA Offshore Transect 4, Station 5

Yearly Geometric Mean of Nitrate + Nitrite



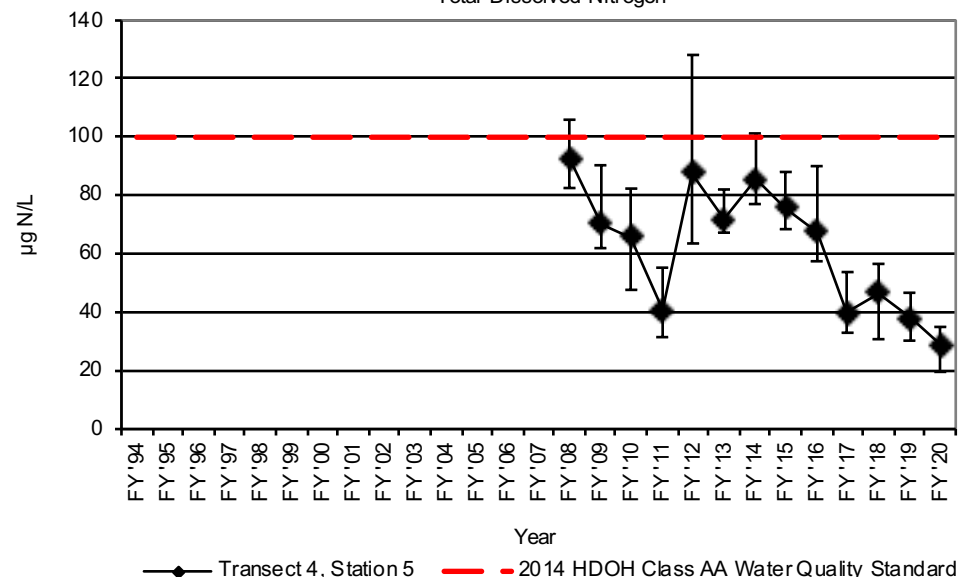
NELHA Offshore Transect 4, Station 5

Yearly Geometric Mean of
Total Dissolved Phosphorous



NELHA Offshore Transect 4, Station 5

Yearly Geometric Mean of
Total Dissolved Nitrogen



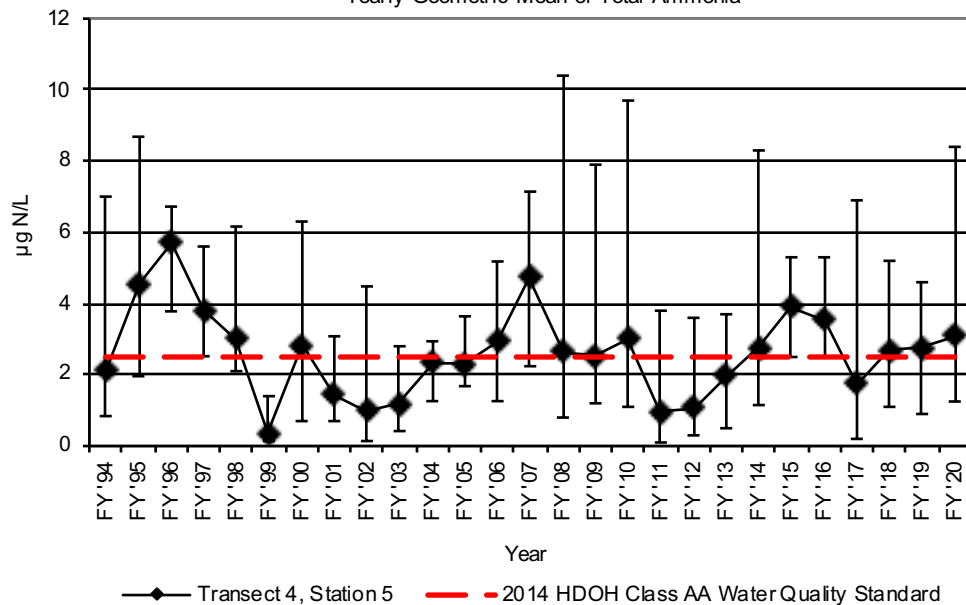
NELHA Water Quality Laboratory

Transect 4, Station 5

8/3/1993 - 7/16/20

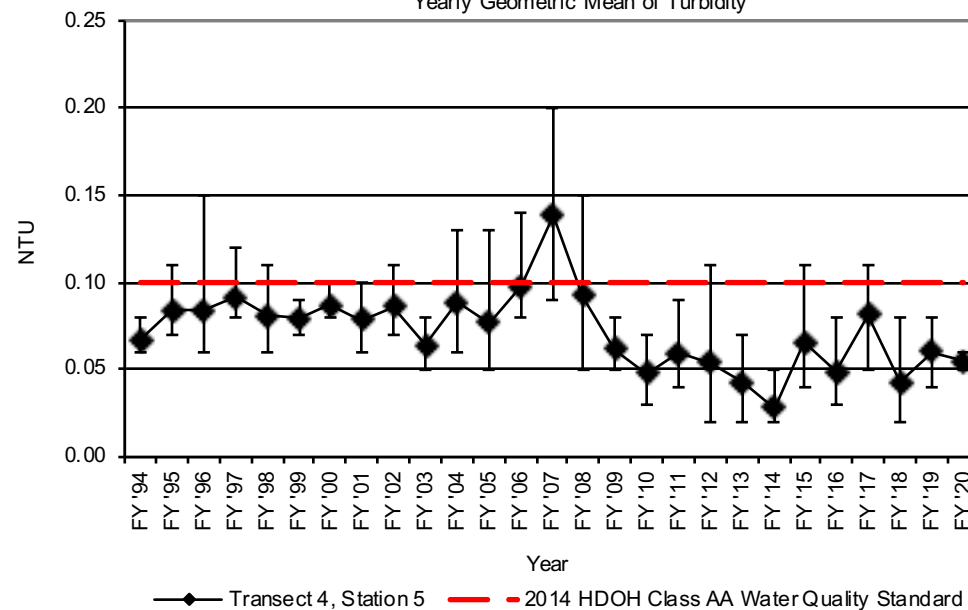
NELHA Offshore Transect 4, Station 5

Yearly Geometric Mean of Total Ammonia



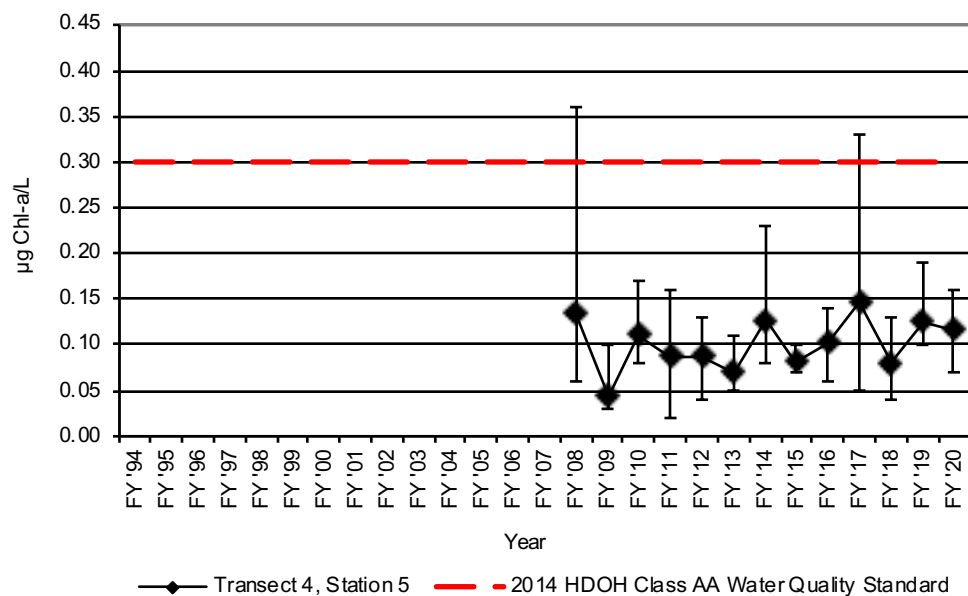
NELHA Offshore Transect 4, Station 5

Yearly Geometric Mean of Turbidity



NELHA Offshore Transect 4, Station 5

Yearly Geometric Mean of Chlorophyll-a



NELHA Water Quality Laboratory

Transect 5

July 2018 - June 2019

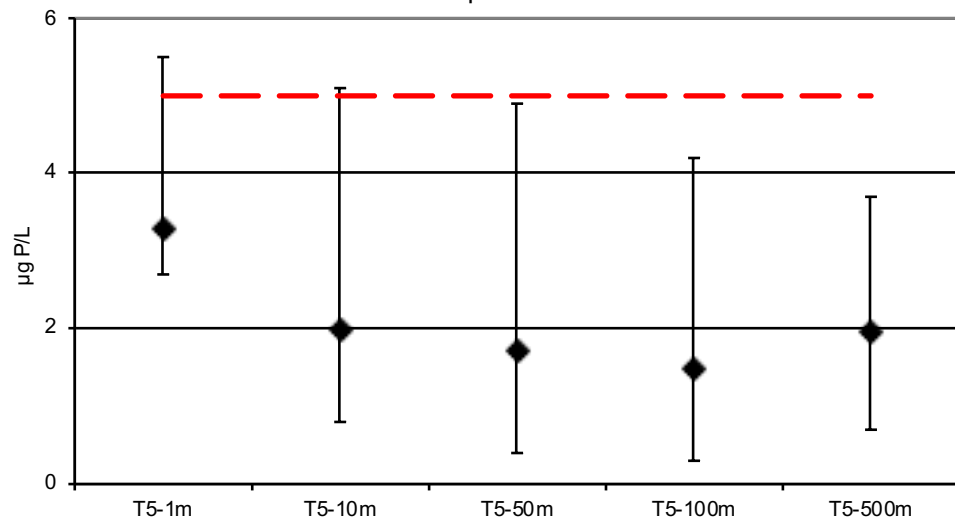
SITE ID	DATE	TIME	Tide		PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		Turbidity	Salinity	Temp.	pH	DO	Chl a
	M/D/Y	(2400)	(ft)	(cycle)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg N/L)	(μM)	(μg Si/L)	(μM)	(μg P/L)	(μM)	(μg N/L)	(NTU)	(o/oo)	(°C)		(ppm)	(μg/L)
DOH LIMIT					0.16	5	0.32	4.5	0.18	2.5			0.40	12.5	7.1	100	0.10					0.3
T5-1m	9/26/18	1243	0.7	Flood	0.09	2.7	0.16	2.3	0.14	1.9	0.9	26	0.29	8.9	1.7	23	0.09	34.73	27.6	8.17	4.88	0.15
T5-1m	11/14/18	1051	1.6	Ebb	0.09	2.7	0.40	5.6	0.26	3.7	0.4	11	0.33	10.3	3.2	44	0.08	34.90	27.3	8.21	6.20	0.16
T5-1m	1/23/19	1038	0.5	Ebb	0.09	2.9	0.18	2.5	0.15	2.1	1.8	51	0.37	11.4	2.6	37	0.07	34.88	24.9	8.19	5.23	0.21
T5-1m	4/17/19	1028	0.5	Flood	0.18	5.5	0.56	7.9	0.23	3.2	4.1	115	0.42	13.1	3.2	45	0.05	34.65	25.7	8.12	7.21	0.13
Geomean FY '19					0.11	3.3	0.28	4.0	0.2	2.6			0.3	10.8	2.6	36	0.07					0.16
T5-10m	9/26/18	1251	0.7	Flood	0.03	0.8	0.16	2.3	0.10	1.4	0.1	4	0.27	8.5	1.6	23	0.09	34.74	27.6	8.16	4.82	0.13
T5-10m	11/14/18	1056	1.6	Ebb	0.04	1.2	0.33	4.6	0.21	2.9	0.1	4	0.30	9.3	2.6	37	0.08	34.90	27.3	8.20	6.25	0.15
T5-10m	1/23/19	1043	0.5	Ebb	0.10	3.1	0.15	2.1	0.23	3.2	2.1	59	0.36	11.2	2.0	28	0.09	34.89	24.9	8.20	5.23	0.24
T5-10m	4/17/19	1033	0.5	Flood	0.16	5.1	0.51	7.2	0.31	4.4	4.2	117	0.38	11.7	2.6	36	0.08	34.69	25.7	8.12	7.03	0.14
Geomean FY '19					0.06	2.0	0.25	3.5	0.20	2.7			0.33	10.1	2.2	30	0.08					0.16
T5-50m	9/26/18	1257	0.7	Flood	0.01	0.4	0.16	2.3	0.09	1.3	0.2	6	0.30	9.2	1.4	20	0.1	34.74	27.6	8.16	4.79	0.13
T5-50m	11/14/18	1102	1.6	Ebb	0.06	1.8	0.21	3.0	0.14	2.0	0.1	3	0.34	10.5	4.4	62	0.09	34.90	27.3	8.20	6.07	0.13
T5-50m	1/23/19	1048	0.5	Ebb	0.08	2.5	0.16	2.3	0.09	1.2	1.0	27	0.35	10.9	2.9	41	0.07	34.94	24.9	8.19	4.99	0.22
T5-50m	4/17/19	1039	0.5	Flood	0.16	4.9	0.33	4.6	0.17	2.4	9.2	257	0.41	12.7	2.9	41	0.06	34.72	25.7	8.12	7.01	0.12
Geomean FY '19					0.06	1.7	0.21	2.9	0.12	1.6			0.35	10.8	2.7	38	0.08					0.15
T5-100m	9/26/18	1302	0.7	Flood	0.01	0.3	0.16	2.3	0.34	4.7	0.3	8	0.32	9.9	2.4	34	0.09	34.73	27.6	8.16	4.75	0.11
T5-100m	11/14/18	1107	1.6	Ebb	0.05	1.6	0.11	1.6	0.39	5.5	0.0	1	0.34	10.4	3.3	46	0.07	34.90	27.3	8.20	6.01	0.16
T5-100m	1/23/19	1053	0.5	Ebb	0.08	2.4	0.16	2.3	0.09	1.2	1.2	34	0.35	10.9	2.1	29	0.06	34.94	24.9	8.19	4.99	0.23
T5-100m	4/17/19	1045	0.5	Flood	0.14	4.2	0.24	3.3	0.23	3.2	0.9	25	0.38	11.8	2.4	34	0.04	34.74	25.7	8.12	6.87	0.10
Geomean FY '19					0.05	1.5	0.16	2.3	0.23	3.2			0.35	10.7	2.5	35	0.06					0.14
T5-500m	9/26/18	1309	0.7	Flood	0.08	2.5	0.16	2.3	0.26	3.6	0.0	1	0.32	9.8	2.01	28	0.09	34.75	27.7	8.15	4.54	0.10
T5-500m	11/14/18	1116	1.6	Ebb	0.02	0.7	0.06	0.9	0.34	4.8	0.0	1	0.38	11.7	3.58	50	0.07	34.91	27.4	8.20	6.08	0.12
T5-500m	1/23/19	1100	0.5	Ebb	0.07	2.3	0.16	2.3	0.16	2.2	0.5	14	0.36	11.3	2.06	29	0.06	34.95	25.0	8.19	4.96	0.13
T5-500m	4/17/19	1054	0.5	Flood	0.12	3.7	0.14	1.9	0.15	2.1	1.0	27	0.38	11.8	2.92	41	0.05	34.73	25.7	8.12	6.85	0.09
Geomean FY '19					0.06	2.0	0.12	1.7	0.21	3.0			0.36	11.1	2.6	36	0.07					0.11

NELHA Water Quality Laboratory

Transect 5

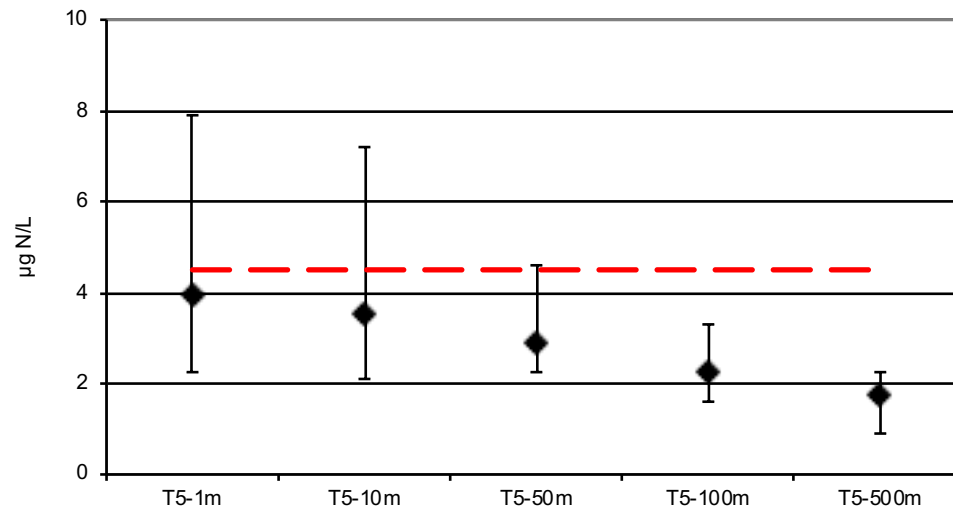
Julv 2018 - June 2019

Transect 5 Station Summary
Ortho-Phosphate Geometric Mean



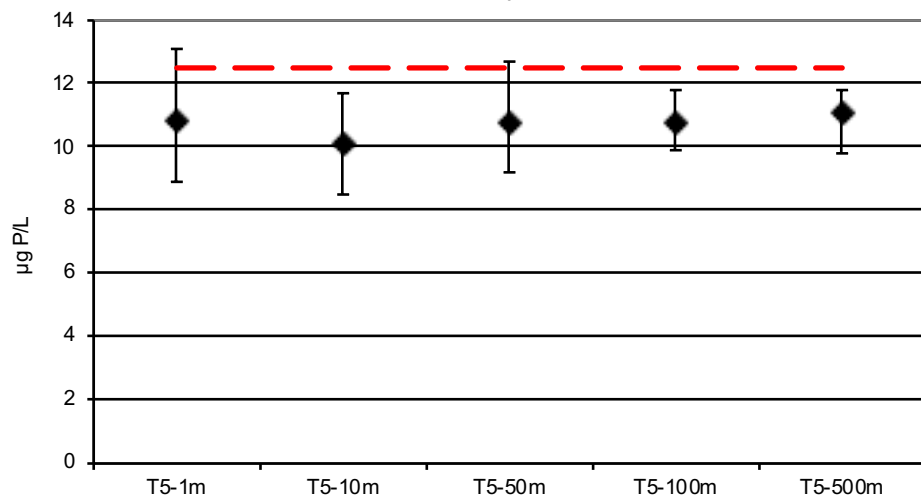
◆ Transect 5, July 2018 - June 2019 - - - 2014 HDOH Class AA Water Quality Standard

Transect 5 Station Summary
Nitrate + Nitrite Geometric Mean



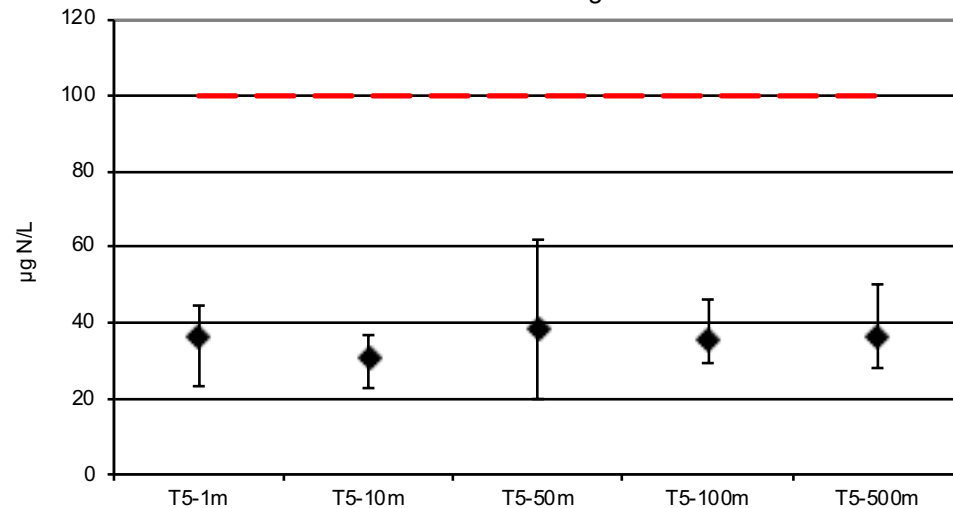
◆ Transect 5, July 2018 - June 2019 - - - 2014 HDOH Class AA Water Quality Standard

Transect 5 Station Summary
Total Dissolved Phosphorous Geometric Mean



◆ Transect 5, July 2018 - June 2019 - - - 2014 HDOH Class AA Water Quality Standard

Transect 5 Station Summary
Total Dissolved Nitrogen Geometric Mean



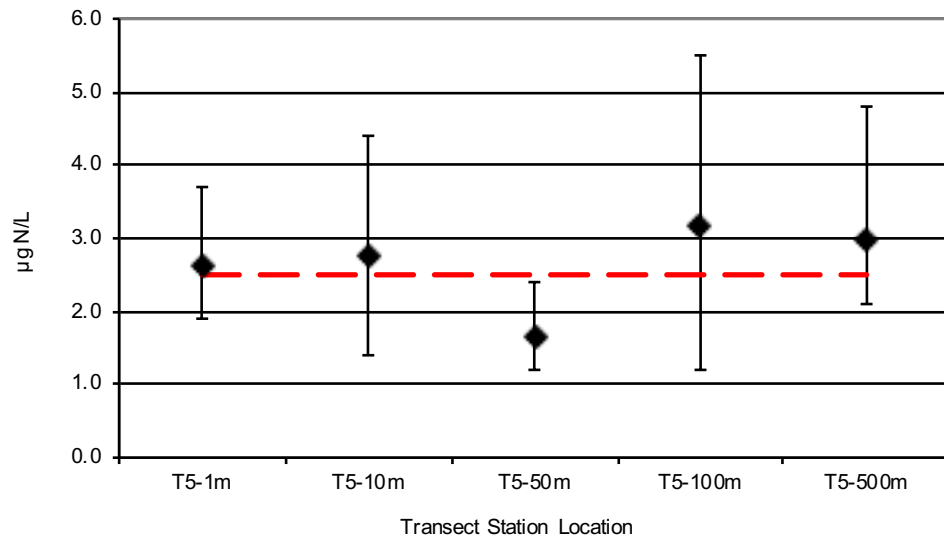
◆ Transect 5, July 2018 - June 2019 - - - 2014 HDOH Class AA Water Quality Standard

NELHA Water Quality Laboratory

Transect 5

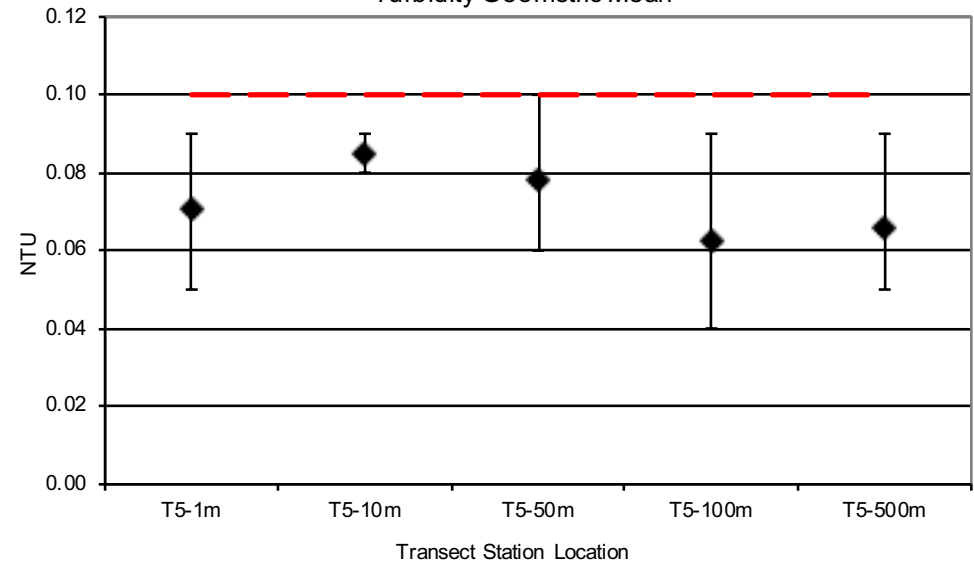
July 2018 - June 2019

Transect 5 Station Summary
Total Ammonia Geometric Mean



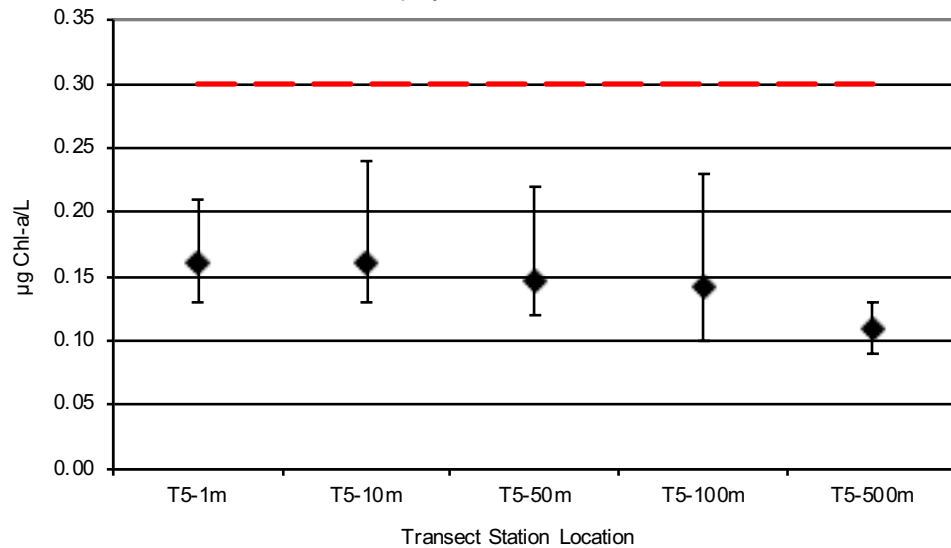
◆ Transect 5, July 2018 - June 2019 - - - 2014 HDOH Class AA Water Quality Standard

Transect 5 Station Summary
Turbidity Geometric Mean



◆ Transect 5, July 2018 - June 2019 - - - 2014 HDOH Class AA Water Quality Standard

Transect 5 Station Summary
Chlorophyll-a Geometric Mean



◆ Transect 5, July 2018 - June 2019 - - - 2014 HDOH Class AA Water Quality Standard

NELHA Water Quality Laboratory

Transect 5

July 2018 - June 2019

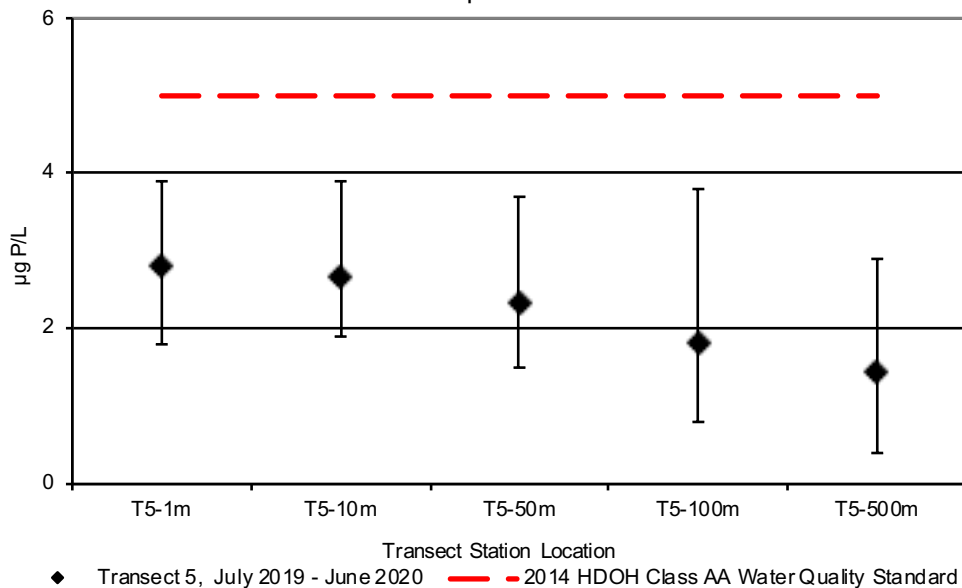
SITE ID	DATE	TIME	Tide		PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		Turbidity	Salinity	Temp.	pH	DO	Chl a
	M/D/Y	(2400)	(ft)	(cycle)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg N/L)	(μM)	(μg Si/L)	(μM)	(μg P/L)	(μM)	(μg N/L)	(NTU)	(o/oo)	(°C)		(ppm)	(μg/L)
DOH LIMIT					0.16	5	0.32	4.5	0.18	2.5			0.40	12.5	7.1	100	0.10					0.3
T5-1m	8/15/19	1003	0.1	Flood	0.06	1.8	0.16	2.3	0.41	5.8	3.1	86	0.30	9.4	2.3	32	0.10	35.24	28.2	8.26	6.77	0.14
T5-1m	11/20/19	1108	1.9	High	0.13	3.9	0.31	4.3	0.17	2.4	0.8	24	0.44	13.7	3.2	45	0.09	35.20	27.5	8.22	6.88	0.13
T5-1m	1/23/20	1021	0.3	Low	0.12	3.8	0.16	2.3	0.09	1.3	1.1	31	0.42	12.9	2.3	33	0.08	34.92	24.9	8.22	7.09	0.10
T5-1m	6/25/20	942	0.4	Ebb	0.07	2.3	0.01	0.2	0.25	3.5	1.7	48	0.27	8.3	2.7	38	0.08	35.47	26.1	8.17	6.70	0.20
Geomean	FY '20				0.09	2.8	0.10	1.4	0.2	2.8			0.3	10.8	2.6	37	0.09					0.14
T5-10m	8/15/19	1007	0.1	Flood	0.06	2.0	0.16	2.3	0.31	4.3	3.5	100	0.30	9.2	1.8	25	0.08	35.24	28.2	8.26	6.75	0.17
T5-10m	11/20/19	1113	1.9	High	0.13	3.9	0.31	4.3	0.01	0.2	0.8	23	0.45	13.8	3.3	46	0.09	35.19	27.5	8.22	6.79	0.10
T5-10m	1/23/20	1026	0.3	Low	0.11	3.4	0.16	2.3	0.09	1.3	3.3	92	0.38	11.9	2.6	36	0.11	34.91	24.9	8.23	7.12	0.11
T5-10m	6/25/20	946	0.4	Ebb	0.06	1.9	0.16	2.3	0.06	0.8	1.6	46	0.28	8.7	1.5	21	0.07	35.48	26.1	8.18	6.73	0.22
Geomean	FY '20				0.09	2.7	0.19	2.6	0.07	1.0			0.35	10.7	2.2	31	0.09					0.14
T5-50m	8/15/19	1011	0.1	Flood	0.05	1.5	0.16	2.3	0.24	3.3	3.1	86	0.29	9.1	2.0	28	0.12	35.25	28.2	8.26	6.52	0.15
T5-50m	11/20/19	1117	1.9	High	0.12	3.7	0.29	4.0	0.07	1.0	0.9	24	0.43	13.4	3.3	46	0.09	35.20	27.5	8.21	6.71	0.10
T5-50m	1/23/20	1030	0.3	Low	0.11	3.3	0.16	2.3	0.09	1.3	0.8	24	0.41	12.8	3.0	42	0.07	34.94	25.0	8.22	6.98	0.10
T5-50m	6/25/20	950	0.4	Ebb	0.05	1.6	0.16	2.3	0.23	3.2	0.4	12	0.27	8.4	2.1	30	0.06	35.53	26.3	8.18	6.61	0.18
Geomean	FY '20				0.08	2.3	0.19	2.6	0.14	1.9			0.35	10.7	2.5	35	0.08					0.13
T5-100m	8/15/19	1017	0.2	Flood	0.04	1.3	0.16	2.3	0.51	7.1	3.9	108	0.29	9.1	2.6	37	0.09	35.25	28.2	8.26	6.46	0.17
T5-100m	11/20/19	1122	1.9	High	0.12	3.8	0.21	3.0	0.38	5.3	1.1	30	0.42	12.9	2.9	40	0.09	35.16	27.5	8.21	6.76	0.12
T5-100m	1/23/20	1035	0.3	Low	0.09	2.7	0.16	2.3	0.09	1.3	0.0	0	0.41	12.7	2.4	34	0.08	34.98	25.0	8.21	6.69	0.11
T5-100m	6/25/20	955	0.4	Ebb	0.03	0.8	0.16	2.3	0.25	3.5	0.4	12	0.28	8.7	2.1	30	0.06	35.53	26.3	8.18	6.57	0.20
Geomean	FY '20				0.06	1.8	0.17	2.4	0.26	3.6			0.34	10.7	2.5	35	0.08					0.15
T5-500m	8/15/19	1024	0.2	Flood	0.01	0.4	0.16	2.3	0.16	2.2	1.3	38	0.30	9.2	1.98	28	0.09	35.32	28.5	8.28	6.60	0.14
T5-500m	11/20/19	1134	1.9	High	0.09	2.9	0.04	0.5	0.22	3.1	0.0	1	0.36	11.3	1.89	27	0.06	35.20	27.6	8.20	6.56	0.12
T5-500m	1/23/20	1045	0.0	Low	0.08	2.5	0.16	2.3	0.09	1.3	0.3	8	0.38	11.8	4.13	58	0.05	34.98	25.0	8.22	6.68	0.11
T5-500m	6/25/20	1003	0.4	Ebb	0.05	1.5	0.16	2.3	0.36	5.0	0.3	9	0.24	7.3	2.42	34	0.05	35.54	26.5	8.19	6.54	0.12
Geomean	FY '20				0.05	1.4	0.11	1.5	0.18	2.6			0.31	9.7	2.5	35	0.06					0.12

NELHA Water Quality Laboratory

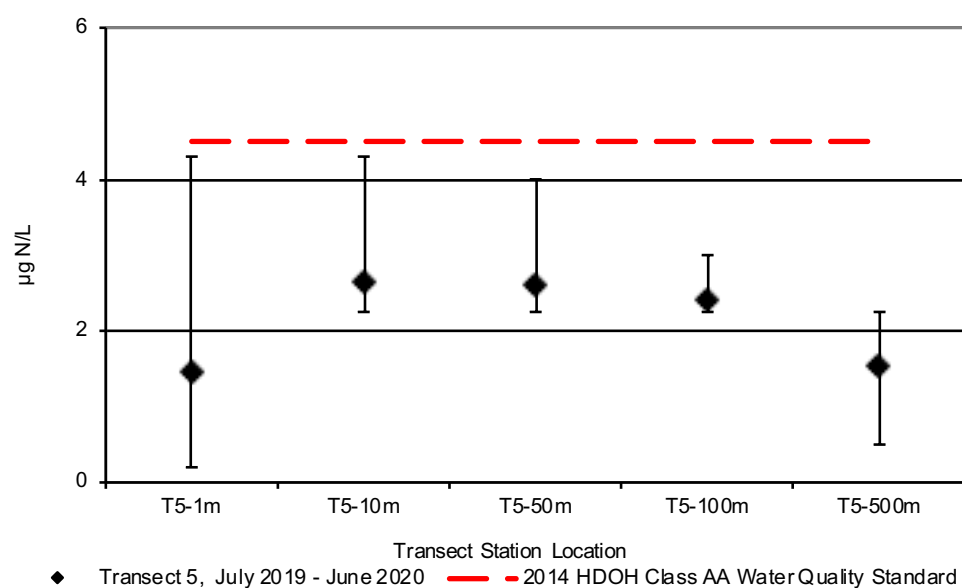
Transect 5

Julv 2018 - June 2019

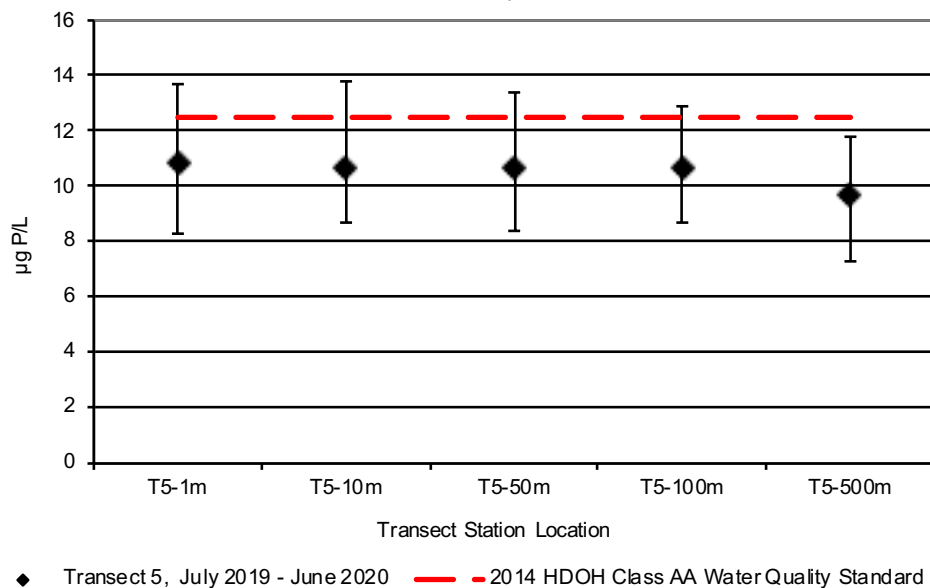
Transect 5 Station Summary
Ortho-Phosphate Geometric Mean



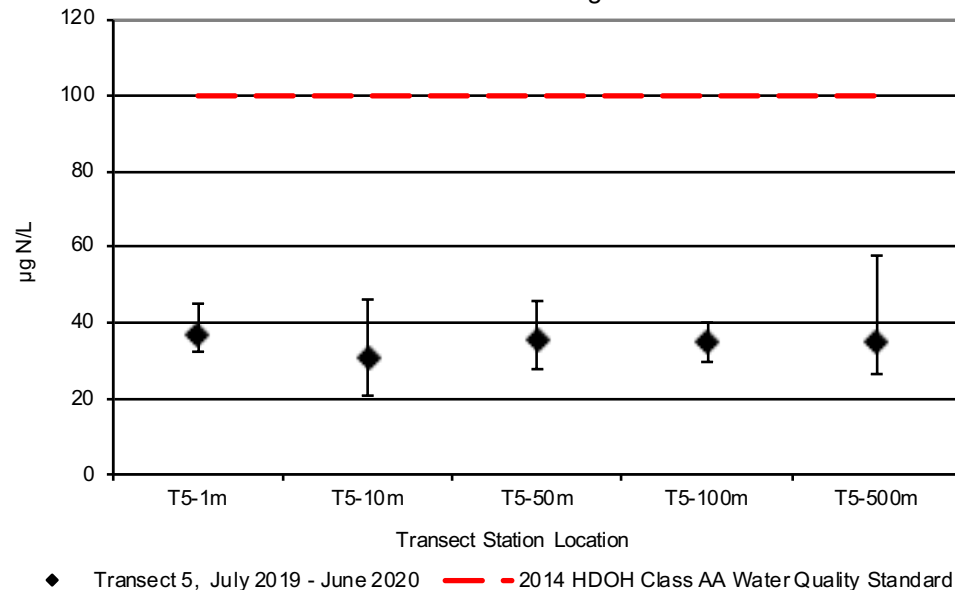
Transect 5 Station Summary
Nitrate + Nitrite Geometric Mean



Transect 5 Station Summary
Total Dissolved Phosphorous Geometric Mean



Transect 5 Station Summary
Total Dissolved Nitrogen Geometric Mean

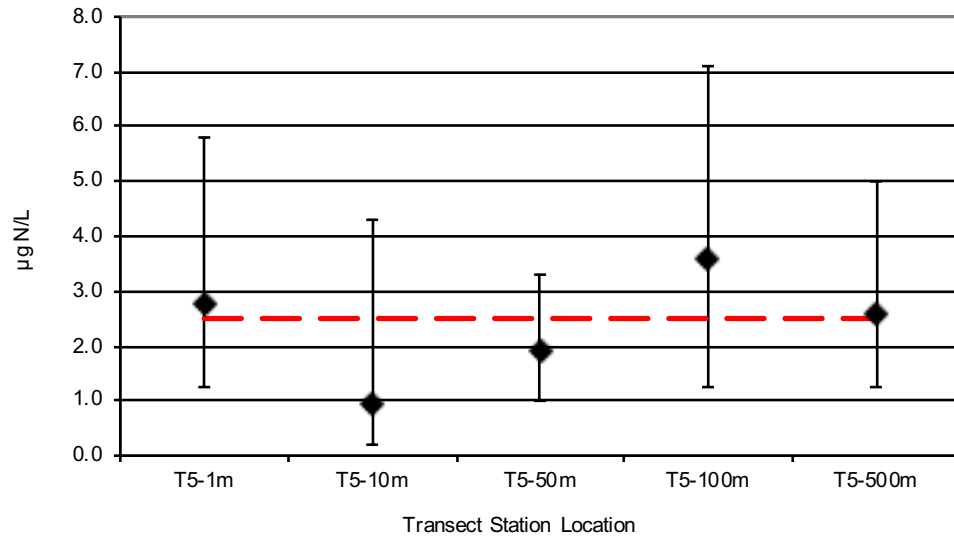


NELHA Water Quality Laboratory

Transect 5

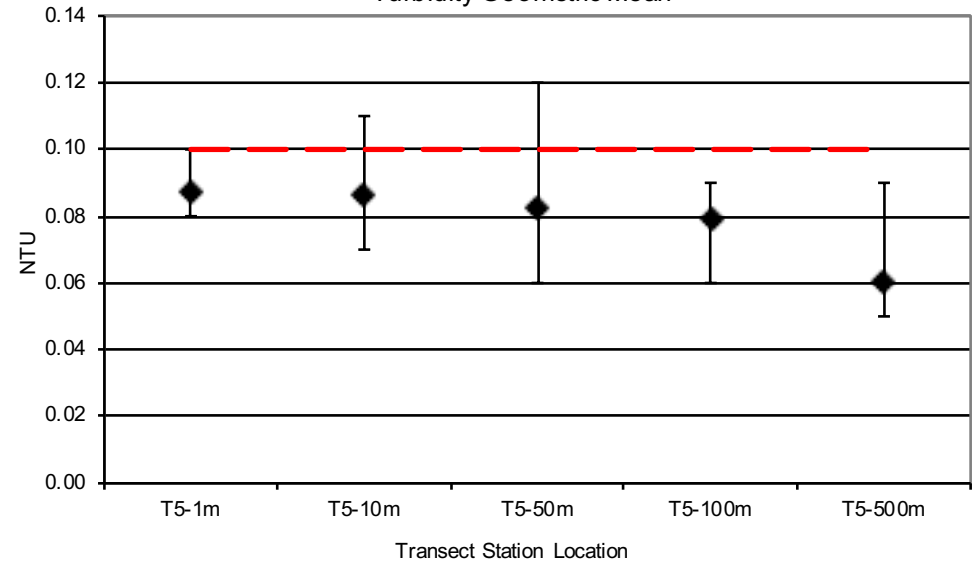
July 2018 - June 2019

Transect 5 Station Summary
Total Ammonia Geometric Mean



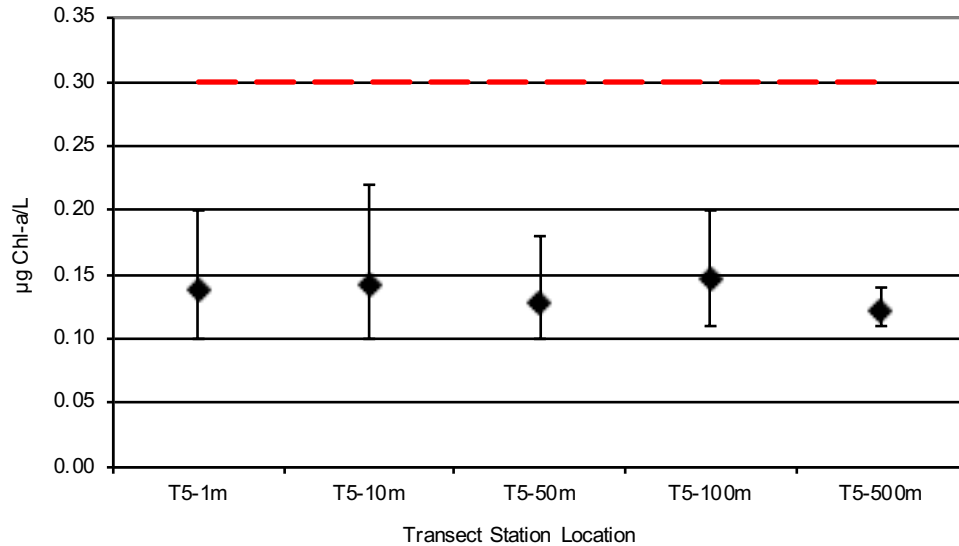
◆ Transect 5, July 2019 - June 2020 - - - 2014 HDOH Class AA Water Quality Standard

Transect 5 Station Summary
Turbidity Geometric Mean



◆ Transect 5, July 2019 - June 2020 - - - 2014 HDOH Class AA Water Quality Standard

Transect 5 Station Summary
Chlorophyll-a Geometric Mean



◆ Transect 5, July 2019 - June 2020 - - - 2014 HDOH Class AA Water Quality Standard

NELHA Water Quality Laboratory

Transect 5, Station 1

7/26/1993 - 7/16/20

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		TP		TOC	Turbidity	Salinity	Temp.	pH	DO	Chl a	Fecal Coli.	Entero.
	M/D/Y	(2400)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg N/L)	(μM)	(μg Si/L)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg P/L)	(mgC/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(μg/L)	(Bact/100 ml)	(Bact/100 ml)
DOH LIMIT			5		4.5		2.5				12.5		100					0.10					0.30		
O5-1S-8m	7/26/93	1221	0.18	5.6	0.12	1.7	0.43	6.0	5.2	147	0.21	6.5	8.2	114	0.28	8.67	1.21	0.10	34.423	27.3	8.29	7.15			
O5-1S-8m	12/6/93	1133	0.06	1.9	0.41	5.7	0.03	0.4	3.1	88	0.25	7.7	7.2	101	0.25	7.74	1.22	0.13	34.825	25.7	8.26	7.01			
O5-1S-8m	3/7/94	1039	0.24	7.4	0.86	12.0	0.17	2.4	7.5	211	0.31	9.6	7.2	101	0.31	9.60	1.12	0.08	34.080	25.0	8.23	7.21	0.01	3	<1
O5-1S-8m	6/15/94	1045	0.14	4.3	0.34	4.8	0.08	1.1	4.5	125	0.23	7.1	6.3	88	0.30	9.29	1.14	0.12	34.491	25.9	8.24	7.08	0.15	<1	<1
Geomean FY '94			4.3		4.9		1.6				7.7		101					0.11					0.04		
O5-1S-8m	9/9/94	1005	0.11	3.4	0.54	7.6	0.21	2.9	5.0	140	0.30	9.3	7.1	99	0.31	9.60	1.24	0.11	34.524	27.8	8.24	6.87	0.01	<1	<1
O5-1S-8m	11/14/94	938	0.16	5.0	0.69	9.7	0.52	7.3	7.1	200	0.35	10.8	5.7	80	0.39	12.08	1.02	0.09	34.492	26.1	8.28	7.03	0.09	<1	<1
O5-1S-8m	3/22/95	1031	0.21	6.5	0.34	4.8	0.37	5.2	4.3	120	0.34	10.5	5.2	73	0.34	10.53	1.02	0.09	34.172	25.3	8.25	7.16	0.20	<1	<1
O5-1S-8m	6/20/95	1006	0.11	3.4	0.18	2.5	0.06	0.8	2.3	65	0.29	9.0	5.4	76	0.29	8.98	0.88	0.07	34.454	26.4	8.23	6.96	0.11	<1	<1
Geomean FY '95			4.4		5.4		3.1				9.9		81					0.09					0.07		
O5-1S-8m	9/28/95	948	0.09	2.8	0.05	0.7	0.50	7.0	2.3	65	0.28	8.7	7.2	100	0.28	8.67	1.07	0.14	34.606	27.4	8.30	6.66	0.05	<1	<1
O5-1S-8m	11/14/95	958	0.12	3.7	0.16	2.2	0.46	6.4	2.2	63	0.31	9.6	4.2	60	0.31	9.60	1.02	0.10	34.366	26.8	8.27	6.88	0.01	<1	<1
O5-1S-8m	3/12/96	1033	0.15	4.6	0.31	4.3	0.56	7.8	4.0	113	0.34	10.5	4.5	63	0.34	10.53	0.99	0.07	34.141	25.6	8.22	7.21	0.14	<1	<1
O5-1S-8m	5/14/96	1035	0.12	3.7	0.33	4.6	0.22	3.1	6.0	168	0.30	9.3	6.6	92	0.30	9.29	1.12	0.10	34.231	27.3	8.21	7.15	0.09	1	2
Geomean FY '96			3.7		2.4		5.7				9.5		77					0.10					0.05		
O5-1S-8m	7/31/96	1055	0.10	3.1	0.61	8.5	0.48	6.7	8.2	231	0.27	8.4	4.7	65	0.27	8.36	0.99	0.11	34.297	28.0	8.24	6.53	0.21	<1	<1
O5-1S-8m	10/2/96	1023	0.08	2.5	0.10	1.4	0.28	3.9	2.9	81	0.26	8.1	5.3	74	0.26	8.05	1.05	0.08	34.644	28.1	8.23	6.71	0.22	<1	1
O5-1S-8m	1/7/97	1026	0.12	3.7	0.65	9.1	0.22	3.1	5.6	158	0.29	9.0	5.2	73	0.29	8.98	1.02	0.21	34.572	25.7	8.28	6.99	0.06	<1	<1
O5-1S-8m	4/28/97	1047	0.16	5.0	0.40	5.6	0.43	6.0	5.7	159	1.07	33.1	5.1	71	1.56	48.32	1.04	0.13	34.323	26.7	8.28	6.77	0.04	<1	<1
Geomean FY '97			3.4		5.0		4.7				11.9		71					0.12					0.10		
O5-1S-8m	8/19/97	1032	0.11	3.4	0.59	8.3	0.26	3.6	7.9	223	0.35	10.8	4.5	63	0.35	10.84	1.03	0.11	34.546	27.0	8.38	6.60	0.15	<1	<1
O5-1S-8m	10/7/97	930	0.10	3.1	0.09	1.3	0.36	5.0	4.0	113	0.29	9.0	5.9	82	0.29	8.98	1.13	0.08	34.744	27.5	8.45	6.87	0.16	<1	<1
O5-1S-8m	3/4/98	1036	0.14	4.3	0.69	9.7	0.25	3.5	8.4	237	0.33	10.2	5.5	77	0.34	10.53	1.01	0.08	34.908	25.1	8.22	7.01	0.06	<1	<1
O5-1S-8m	5/5/98	1041	0.13	4.0	0.70	9.8	0.27	3.8	7.6	213	0.36	11.2	5.4	76	0.36	11.15	0.90	0.08	34.911	24.2	8.24	7.24	0.09	<1	<1
Geomean FY '98			3.7		5.6		3.9				10.3		74					0.09					0.11		
O5-1S-8m	7/7/98	1107	0.13	4.0	0.36	5.0	0.07	1.0	6.8	191	0.38	11.8	5.4	75	0.39	12.08	1.04	0.09	34.908	26.3	8.24	6.99	0.17	<1	<1
O5-1S-8m	10/6/98	1016	0.13	4.0	0.40	5.6	0.14	2.0	4.0	113	0.38	11.8	5.6	79	0.40	12.39	1.06	0.10	35.052	27.1	8.22	7.78	0.12	<1	<1
O5-1S-8m	1/19/99	1051	0.11	3.4	0.46	6.4	0.13	1.8	5.2	147	0.35	10.8	4.9	69	0.35	10.84	1.18	0.09	35.026	25.2	8.24	7.16	0.09	<1	<1
O5-1S-8m	4/13/99	1132	0.17	5.3	0.39	5.5	0.16	2.2	5.9	166	0.43	13.3	6.4	90	0.43	13.32	n/a	0.11	34.579	24.5	8.23	7.45	0.16	<1	<1
Geomean FY '99			4.1		5.6		1.7				11.9		78					0.10					0.13		

NELHA Water Quality Laboratory

Transect 5, Station 1

7/26/1993 - 7/16/20

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		TP		TOC	Turbidity	Salinity	Temp.	pH	DO	Chl a	Fecal Coli.	Entero.
	M/D/Y	(2400)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg N/L)	(μM)	(μg Si/L)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg P/L)	(mgC/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(μg/L)	(Bact/100 ml)	(Bact/100 ml)
DOH LIMIT			5		4.5		2.5				12.5		100					0.10					0.30		
O5-1S-8m	8/16/99	1104	0.11	3.4	0.05	0.7	0.37	5.2	1.9	52	0.35	10.8	4.3	60	0.35	10.84	1.05	0.08	34.855	26.0	8.26	6.98	0.19	<1	<1
O5-1S-8m	10/25/99	1153	0.17	5.3	0.72	10.1	0.39	5.5	8.1	228	0.37	11.5	5.5	77	0.37	11.46	1.03	0.11	34.797	26.2	8.29	7.12	0.10	<1	<1
O5-1S-8m	1/12/00	1053	0.13	4.0	0.32	4.5	0.36	5.0	4.2	117	0.34	10.5	5.7	80	0.35	10.84	0.93	0.06	35.056	24.9	8.26	7.14	0.06	<1	<1
O5-1S-8m	4/11/00	959	0.12	3.7	0.22	3.1	0.04	0.6	3.6	102	0.31	9.6	5.6	78	0.31	9.60	1.10	0.07	34.830	24.4	8.27	7.17	0.07	<1	1
Geomean FY '00			4.0		3.1		3.0				10.6		73					0.08					0.09		
O5-1S-8m	7/25/00	1107	0.10	3.1	0.07	1.0	0.04	0.6	2.7	75	0.31	9.6	5.0	70	0.34	10.53	0.94	0.07	34.851	26.7	8.28	6.79	0.12	<1	<1
O5-1S-8m	10/31/00	1057	0.12	3.7	0.28	3.9	0.29	4.1	10.1	284	0.38	11.8	5.1	71	0.40	12.39	1.06	0.10	34.905	27.1	8.26	6.78	0.06	<1	<1
O5-1S-8m	3/6/01	1047	0.17	5.3	0.67	9.4	0.10	1.4	4.9	138	0.37	11.5	6.8	96	0.38	11.77	1.22	0.12	34.655	24.9	8.22	6.73	0.16	<1	<1
O5-1S-8m	5/8/01	1137	0.14	4.3	0.56	7.8	0.25	3.5	7.0	195	0.38	11.8	5.3	74	0.40	12.39	1.00	0.07	34.670	24.9	8.22	7.23	0.15	<1	<1
Geomean FY '01			4.0		4.1		1.8				11.1		77					0.09					0.11		
O5-1S-8m	8/13/01	942	0.09	2.8	0.01	0.1	0.20	2.8	2.1	58	0.36	11.2	5.7	79	0.37	11.46	1.09	0.11	34.876	26.6	8.22	6.68	0.11	1	<1
O5-1S-8m	10/10/01	1050	0.18	5.6	0.06	0.8	0.06	0.8	3.2	89	0.40	12.4	5.4	76	0.40	12.39	1.07	0.12	34.926	27.5	8.23	6.95	0.16	<1	<1
O5-1S-8m	3/6/02	1002	0.17	5.3	0.24	3.4	0.06	0.8	5.7	160	0.38	11.8	4.9	69	0.40	12.39	0.99	0.11	34.645	24.2	8.22	6.88	0.19	<1	<1
O5-1S-8m	4/15/02	1007	0.20	6.2	1.03	14.4	0.07	1.0	7.5	211	0.45	13.9	6.3	88	0.46	14.25	1.05	0.08	34.343	25.5	8.21	6.81	0.09	<1	<1
Geomean FY '02			4.7		1.5		1.2				12.3		78					0.10					0.13		
O5-1S-8m	7/10/02	1002	0.21	6.5	0.68	9.5	0.19	2.7	7.2	201	0.39	12.1	6.2	87	0.39	12.08	0.82	0.06	34.554	26.4	8.22	6.90	0.09	<1	<1
O5-1S-8m	10/8/02	1010	0.11	3.4	0.54	7.6	0.12	1.7	8.5	238	0.35	10.8	5.3	74	0.35	10.84	1.04	0.08	34.873	27.0	8.25	9.43	0.07	<1	3
O5-1S-8m	3/11/03	1138	0.11	3.4	0.21	2.9	0.06	0.8	3.7	104	0.34	10.5	5.3	74	0.35	10.84	1.06	0.09	34.688	25.1	8.27	7.09	0.16	<1	<1
O5-1S-8m	4/23/03	1006	0.12	3.7	0.03	0.4	0.03	0.4	4.4	123	0.36	11.2	5.7	80	0.36	11.15	0.94	0.18	34.983	25.1	8.28	7.49	0.11	<1	<1
Geomean FY '03			4.1		3.1		1.1				11.1		79					0.09					0.10		
O5-1S-8m	8/21/03	1010	0.10	3.1	0.01	0.1	0.01	0.1	6.2	174	0.38	11.8	6.5	91	0.38	11.77	n/a	0.07	34.823	28.4	8.27	6.84	0.05	3	<1
O5-1S-8m	11/3/03	938	0.11	3.4	0.02	0.3	0.26	3.6	2.4	67	0.39	12.1	5.9	83	0.40	12.39	n/a	0.09	34.664	27.4	8.23	n/a	0.12	<1	<1
O5-1S-8m	3/18/04	1008	0.11	3.4	0.42	5.9	0.27	3.8	4.4	123	0.40	12.4	5.5	77	0.39	12.08	n/a	n/a	34.325	25.8	8.25	9.86	0.17	<1	<1
O5-1S-8m	5/24/04	1023	0.16	5.0	0.33	4.6	0.12	1.7	6.6	186	0.44	13.6	5.7	80	0.43	13.32	n/a	n/a	33.40	26.8	8.25	7.08	0.01	<1	<1
Geomean FY '04			3.7		1.0		1.3				12.4		83					0.08					0.06		
O5-1S-8m	9/22/04	1058	0.08	2.5	0.01	0.1	0.28	3.9	3.0	85	0.30	9.3	4.8	67	0.32	9.91	n/a	0.08	33.73	27.9	8.26	6.76	0.10	<1	1
O5-1S-8m	11/29/04	1001	0.10	3.1	0.27	3.8	0.13	1.8	2.4	67	0.32	9.9	5.2	73	0.33	10.22	n/a	0.09	33.80	27.1	8.29	6.53	0.06	<1	<1
O5-1S-8m	1/24/05	1040	0.07	2.2	0.27	3.8	0.10	1.4	4.5	125	0.30	9.3	5.6	79	0.29	8.98	n/a	0.08	34.805	25.7	8.33	6.89	0.10	<1	<1
O5-1S-8m	4/13/05	1042	0.13	4.0	0.16	2.2	0.17	2.4	3.2	90	0.39	12.1	5.1	71	0.39	12.08	n/a	0.10	n/a	25.5	8.30	6.96	0.06	<1	<1
Geomean FY '05			2.9		1.5		2.2				10.1		72					0.09					0.08		

NELHA Water Quality Laboratory

Transect 5, Station 1

7/26/1993 - 7/16/20

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		TP		TOC	Turbidity	Salinity	Temp.	pH	DO	Chl a	Fecal Coli.	Entero.
	M/D/Y	(2400)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg N/L)	(μM)	(μg Si/L)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg P/L)	(mgC/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(μg/L)	(Bact/100 ml)	(Bact/100 ml)
DOH LIMIT			5		4.5		2.5				12.5		100					0.10					0.30		
O5-1S-8m	7/21/05	958	0.07	2.2	0.51	7.1	0.36	5.0	6.6	184	0.33	10.2	3.9	55	0.34	10.53	n/a	0.21	34.585	27.4	8.26	7.79	0.04	<1	<1
O5-1S-8m	10/13/05	949	0.07	2.2	0.34	4.8	0.21	2.9	4.6	129	0.34	10.5	3.7	52	0.34	10.53	0.99	0.12	34.915	27.3	8.27	6.48	0.07	<1	<1
O5-1S-8m	3/15/06	908	0.10	3.1	0.07	1.0	0.35	4.9	5.1	144	0.34	10.5	5.0	70	0.36	11.15	n/a	0.08	34.817	24.3	8.25	7.89	0.09	<1	<1
O5-1S-8m	5/17/06	949	0.19	5.9	1.32	18.5	0.05	0.7	8.8	247	0.50	15.5	6.0	85	0.51	15.80	1.28	0.17	34.505	24.9	8.25	6.94	0.18	<1	<1
Geomean FY '06			3.0		5.0		2.7				11.5		64					0.14					0.08		
O5-1S-8m	8/16/06	958	0.12	3.7	0.45	6.3	0.34	4.8	2.1	60	0.35	10.8	5.3	74	0.41	12.70	0.95	0.18	34.665	26.8	8.23	7.13	0.08	<1	<1
O5-1S-8m	11/20/06	1000	0.12	3.7	0.35	4.9	0.24	3.4	2.0	55	0.36	11.2	5.4	75	0.37	11.46	1.11	0.12	34.797	26.7	8.27	6.78	0.08	<1	<1
O5-1S-8m	2/12/07	1053	0.15	4.6	0.35	4.9	0.41	5.7	1.9	53	0.39	12.1	6.0	84	0.41	12.70	1.43	0.17	34.404	24?	8.24	6.88	0.09	<1	<1
O5-1S-8m	4/16/07	1041	0.16	5.0	1.35	18.9	0.41	5.7	13.0	365	0.39	12.1	6.3	88	0.43	13.32	0.89	0.19	34.352	26.0	8.25	6.49	0.07		
Geomean FY '07			4.2		7.3		4.8				11.5		80					0.16					0.08		
T5-1m	9/27/07	940	0.13	4.1	0.37	5.2	0.41	5.8	4.8	135	0.51	15.7	6.6	92				0.10	34.975	26.7	8.07	6.18	0.12		
T5-1m	12/14/07	942	0.10	3.1	0.31	4.3			4.8	135	0.35	10.8	6.7	94				0.14	34.722	25.7	8.21	6.72	0.23		
T5-1m	3/11/08	951	0.11	3.3	0.51	7.2	0.06	0.8	5.5	156	0.24	7.3	6.7	94				0.09	34.823	24.8	8.08	6.52	0.32		
T5-1m	6/9/08	1024	0.09	2.7	0.17	2.4	0.16	2.2	13.2	372	0.28	8.6	8.8	124				0.16	35.681	25.0	8.12	5.81	0.13		
Geomean FY '08			3.3		4.4		2.2				10.2		100					0.12					0.18		
T5-1m	9/23/08	1108	0.03	1	0.19	2.7	0.31	4.3	2.3	64	0.35	10.9	5.9	83				0.08	34.837	26.7	8.07	6.31	0.09		
T5-1m	12/8/08	1017	0.23	7.2	0.15	2.1	0.73	10.2	1.3	35	0.03	0.8	6.2	87				0.10	35.001	26.2	8.30	6.25	0.05		
T5-1m	2/10/09	911	0.21	6.6	0.71	9.9	0.12	1.7	4.3	122	0.37	11.5	7.5	105				0.12	35.005	24.7	8.05	6.03	0.06		
T5-1m	6/30/09	1001	0.25	7.8	0.39	5.5	0.67	9.4	4.4	124	0.43	13.2	5.6	78				0.08	34.905	26.7	8.16	5.82	0.10		
Geomean FY '09			4.4		4.2		5.1				6.0		88					0.09					0.07		
T5-1m	9/10/09	956	0.15	4.5	0.20	2.8	0.03	0.4	44.8	1259	0.52	16	5.9	83				0.05	35.26	27.3	8.23	5.56	0.09		
T5-1m	11/24/09	931	0.02	0.766	0.20	2.8	0.16	2.3	12.0	336	0.33	10.3	5.1	72				0.03	35.27	25.2	8.26	6.54	0.13		
T5-1m	2/24/10	1009	0.17	5.4	1.04	14.6	0.28	3.9	8.2	231	0.29	9.1	6.4	89				0.07	35.09	24.6	8.22	5.50	0.39		
T5-1m	5/25/10	924	0.03	1	0.34	4.7	0.20	2.8	3.1	88	0.29	9.1	7.4	104				0.06	34.73	25.2	8.27	6.72	0.06		
Geomean FY '10			2.1		4.8		1.8				10.8		86					0.05					0.13		
T5-1m	8/11/10	943	0.02	0.6	0.57	8	0.22	3.1	3.8	108	0.36	11.3	4.1	57				0.06	34.94	26.00	8.23	6.69	0.08		
T5-1m	11/9/10	941	0.02	0.766	0.20	2.8	0.16	2.3	12.0	336	0.33	10.3	5.1	72				0.07	34.91	26.26	8.26	6.42	0.08		
T5-1m	1/11/11	1204	0.15	4.6	0.44	6.2	0.14	1.9	10.9	305	0.44	13.7	3.9	55				0.05	35.01	25.06	8.21	6.65	0.09		
T5-1m	4/27/11	948	0.13	4.1	0.66	9.2	0.24	3.3	4.6	130	0.47	14.6	4.3	61				0.08	34.82	24.90	8.23	6.47	0.12		
Geomean FY '11			1.7		6.0		2.6				12.4		61					0.06					0.09		

NELHA Water Quality Laboratory

Transect 5, Station 1

7/26/1993 - 7/16/20

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		TP		TOC	Turbidity	Salinity	Temp.	pH	DO	Chl a	Fecal Coli.	Enter.
	M/D/Y	(2400)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg N/L)	(μM)	(μg Si/L)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg P/L)	(mgC/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(μg/L)	(Bact/100 ml)	(Bact/100 ml)
DOH LIMIT			5		4.5		2.5				12.5		100					0.10					0.30		
T5-1m	7/27/11	1031	0.19	5.9	0.40	5.6	0.22	3.1	1.7	48	0.54	16.7	5.5	77				0.13	34.79	25.98	8.22	6.47	0.08		
T5-1m	10/19/11	1009	0.03	1	0.20	2.8	0.13	1.8	1.7	48	0.36	11.1	5.2	73				0.04	35.12	26.52	8.26	7.26	0.08		
T5-1m	1/26/12	940	0.05	1.6	0.18	2.5	0.01	0.2	2.2	62	0.44	13.6	6.2	87				0.05	35.01	24.46	8.20	6.74	0.10		
T5-1m	4/25/12	1009	0.21	6.5	0.47	6.6	0.46	6.4	2.2	62	0.54	16.8	8.5	120				0.05	34.83	24.82	8.20	6.83	0.10		
Geomean FY '12			2.8		4.0		1.6				14.3		87					0.06					0.09		
T5-1m	7/25/12	951	0.03	0.8	0.24	3.4	0.26	3.6	1.3	36	0.40	12.5	6.3	88				0.08	35.12	26.35	8.24	6.88	0.10		
T5-1m	11/28/12	951	0.07	2.2	0.51	7.2	0.18	2.5	3.7	103	0.68	21.1	8.6	121				0.03	35.18	25.24	8.20	6.68	0.05		
T5-1m	1/24/13	939	0.08	2.4	0.39	5.4	0.19	2.7	2.2	63	0.60	18.5	5.3	74				0.04	35.06	24.76	8.22	6.36	0.21		
T5-1m	4/17/13	1053	0.21	6.5	0.93	13	0.15	2.1	5.3	149	0.62	19.3	6.3	88				0.05	35.03	25.17	8.21	6.87	0.10		
Geomean FY '13			2.3		6.4		2.7				17.5		91					0.05					0.10		
T5-1m	8/6/13	1029	0.14	4.4	2.11	29.5	0.36	5.0	14.6	409	0.67	20.7	5.9	82				0.03	34.81	26.3	8.28	7.07	0.08		
T5-1m	10/30/13	935	0.14	4.4	0.34	4.8	0.19	2.7	2.5	69	0.46	14.3	4.6	64				0.02	34.89	27.0	8.22	6.10	0.11		
T5-1m	2/5/14	959	0.15	4.5	0.42	5.9	0.29	4.1	2.9	80	0.50	15.5	5.4	76				0.02	34.95	25.2	8.20	6.38	0.15		
T5-1m	5/7/14	953	0.13	3.9	0.38	5.3	0.14	1.9	1.4	41	0.49	15.3	6.8	95				0.04	34.79	25.7	8.20	5.65	0.11		
Geomean FY '14			4.3		8.2		3.2				16.3		79					0.03					0.11		
T5-1m	8/6/14	948	0.17	5.2	0.12	1.7	0.41	5.8	0.9	26	0.54	16.7	7.1	99				0.10	34.95	26.7	8.23	6.31	0.10		
T5-1m	12/4/14	1018	0.13	4.1	0.42	5.9	0.55	7.7	2.3	65	0.41	12.6	6.8	95				0.07	35.17	26.3	8.24	6.43	0.11		
T5-1m	3/5/15	1012	0.05	1.7	0.98	13.7	0.27	3.8	4.5	125	0.39	12.1	7.0	97				0.10	34.69	25.3	8.27	7.00	0.14		
T5-1m	6/18/15	950	0.18	5.6	0.69	9.7	0.35	4.9	5.9	166	0.47	14.7	8.5	119				0.08	34.31	26.6	8.15	6.70	0.08		
Geomean FY '15			3.8		6.0		5.4				13.9		102					0.09					0.11		
T5-1m	8/27/15	958	0.15	4.8	0.39	5.4	0.25	3.5	3.2	90	0.39	12.0	4.7	66				0.03	34.46	28.5	8.26	6.25	0.27		
T5-1m	11/18/15	1022	0.14	4.3	0.59	8.3	0.54	7.5	3.5	98	0.50	15.4	4.9	68				0.07	34.62	27.4	8.28	6.96	0.13		
T5-1m	3/2/16	909	0.15	4.6	0.29	4.0	0.39	5.5	0.1	4	0.47	14.5	4.9	69				0.09	34.73	25.2	8.23	5.74	0.08		
T5-1m	5/4/16	1003	0.25	7.6	0.31	4.4	0.17	2.4	2.2	61	0.46	14.2	8.0	113				0.08	34.60	25.9	8.21	6.27	0.09		
Geomean FY '16			5.2		5.3		4.3				14.0		77					0.06					0.13		
T5-1m	7/7/16	1006	0.15	4.6	0.21	2.9	0.46	6.4	2.9	81	0.51	15.9	3.6	50				0.09	34.58	26.8	8.32	6.80	0.18		
T5-1m	12/21/16	1016	0.07	2.2	0.35	4.9	0.46	6.5	1.9	52	0.34	10.5	3.5	50				0.06	34.59	25.5	8.28	6.98	0.20		
T5-1m	3/1/17	1137	0.04	1.1	0.59	8.2	0.08	1.1	2.3	66	0.30	9.4	4.0	57				0.10	34.70	24.6	8.24	5.98	0.17		
T5-1m	5/10/17	1104	0.02	0.7	0.36	5.1	0.09	1.2	2.2	62	0.23	7.1	3.7	52				0.08	34.75	25.8	8.23	4.33	0.10		
Geomean FY '17			1.7		4.9		2.7				10.3		52					0.08					0.16		

NELHA Water Quality Laboratory

Transect 5, Station 1

7/26/1993 - 7/16/20

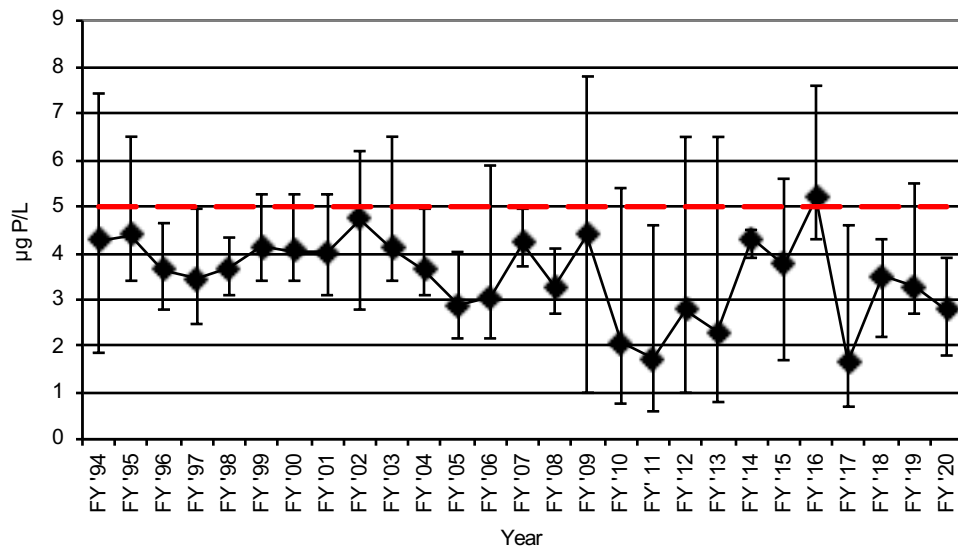
SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		TP		TOC	Turbidity	Salinity	Temp.	pH	DO	Chl a	Fecal Coli.	Enter.
	M/D/Y	(2400)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg N/L)	(μM)	(μg Si/L)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg P/L)	(mgC/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(μg/L)	(Bact/100 ml)	(Bact/100 ml)
DOH LIMIT			5		4.5		2.5				12.5		100					0.10					0.30		
T5-1m	9/28/17	1000	0.14	4.3	0.25	3.5	0.27	3.8	0.8	23	0.42	13.1	4.1	57				0.10	34.82	27.8	8.19	4.94	0.15		
T5-1m	11/30/17	947	0.13	4.1	0.81	11.3	0.39	5.5	4.6	129	0.40	12.4	5.0	70				0.09	35.09	26.3	8.23	5.79	0.15		
T5-1m	2/6/18	1029	0.07	2.2	0.01	0.2	0.39	5.5	1.2	34	0.31	9.7	4.4	62				0.10	34.84	24.9	8.16	5.79	0.11		
T5-1m	5/17/18	1001	0.13	3.9	0.55	7.7	0.31	4.3	5.0	141	0.38	11.9	2.2	31				0.04	34.70	25.9	8.17	6.69	0.13		
Geomean	FY '18		3.5		2.8		4.7				11.7		53					0.08					0.13		
T5-1m	9/26/18	1243	0.09	2.7	0.16	2.3	0.14	1.9	0.9	26	0.29	8.9	1.7	23				0.09	34.73	27.6	8.17	4.88	0.15		
T5-1m	11/14/18	1051	0.09	2.7	0.40	5.6	0.26	3.7	0.4	11	0.33	10.3	3.2	44				0.08	34.90	27.3	8.21	6.20	0.16		
T5-1m	1/23/19	1038	0.09	2.9	0.18	2.5	0.15	2.1	1.8	51	0.37	11.4	2.6	37				0.07	34.88	24.9	8.19	5.23	0.21		
T5-1m	4/17/19	1028	0.18	5.5	0.56	7.9	0.23	3.2	4.1	115	0.42	13.1	3.2	45				0.05	34.65	25.7	8.12	7.21	0.13		
Geomean	FY '19		3.3		4.0		2.6				10.8		36					0.07					0.16		
T5-1m	8/15/19	1003	0.06	1.8	0.16	2.3	0.41	5.8	3.1	86	0.30	9.4	2.3	32				0.10	35.24	28.2	8.26	6.77	0.14		
T5-1m	11/20/19	1108	0.13	3.9	0.31	4.3	0.17	2.4	0.8	24	0.44	13.7	3.2	45				0.09	35.20	27.5	8.22	6.88	0.13		
T5-1m	1/23/20	1021	0.12	3.8	0.16	2.3	0.09	1.3	1.1	31	0.42	12.9	2.3	33				0.08	34.92	24.9	8.22	7.09	0.10		
T5-1m	6/25/20	942	0.07	2.3	0.01	0.2	0.25	3.5	1.7	48	0.27	8.3	2.7	38				0.08	35.47	26.1	8.17	6.70	0.20		
Geomean	FY '20		2.8		1.4		2.8				10.8		37					0.09					0.14		

NELHA Water Quality Laboratory

Transect 5, Station 1

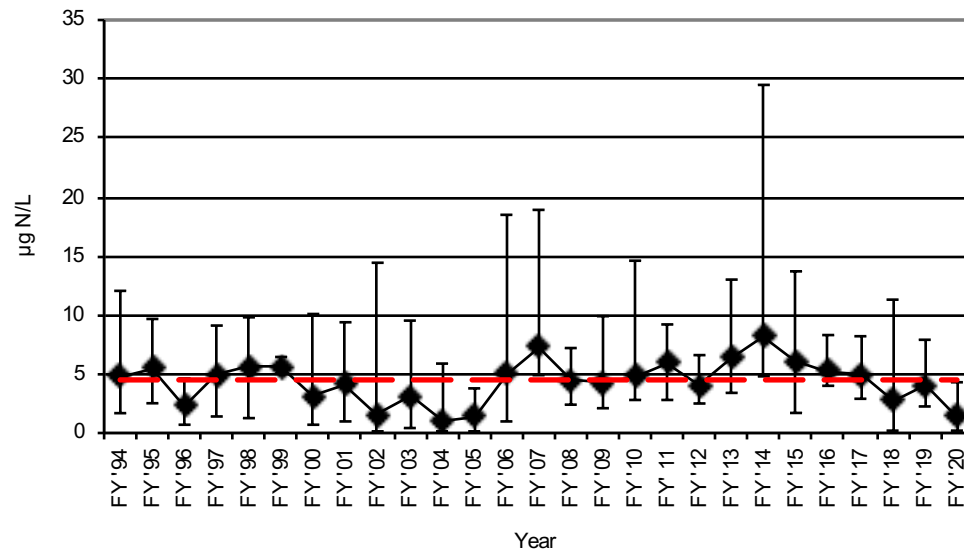
7/26/1993 - 7/16/20

NELHA Offshore Transect 5, Station 1
Yearly Geometric Mean of Ortho-Phosphate



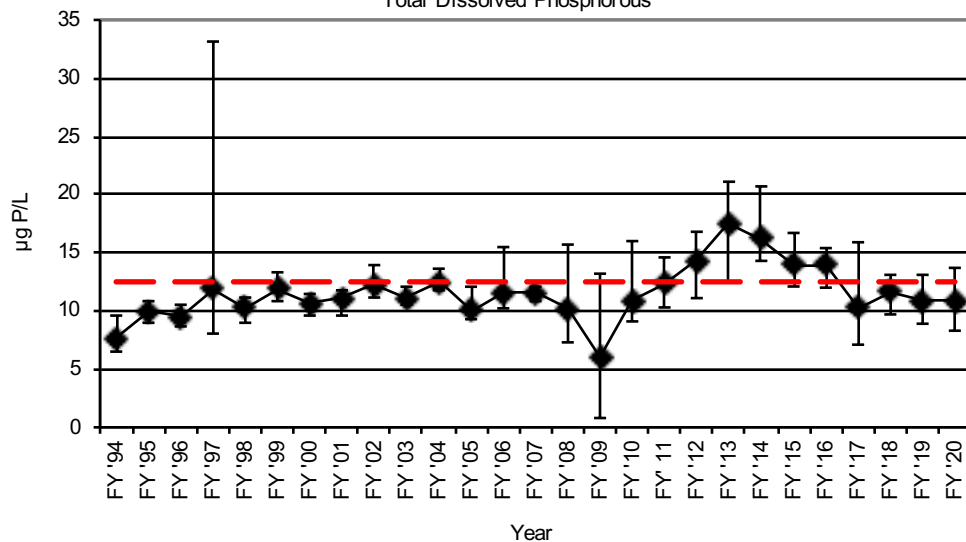
Transect 5, Station 1 2014 HDOH Class AA Water Quality Standard

NELHA Offshore Transect 5, Station 1
Yearly Geometric Mean of Nitrate + Nitrite



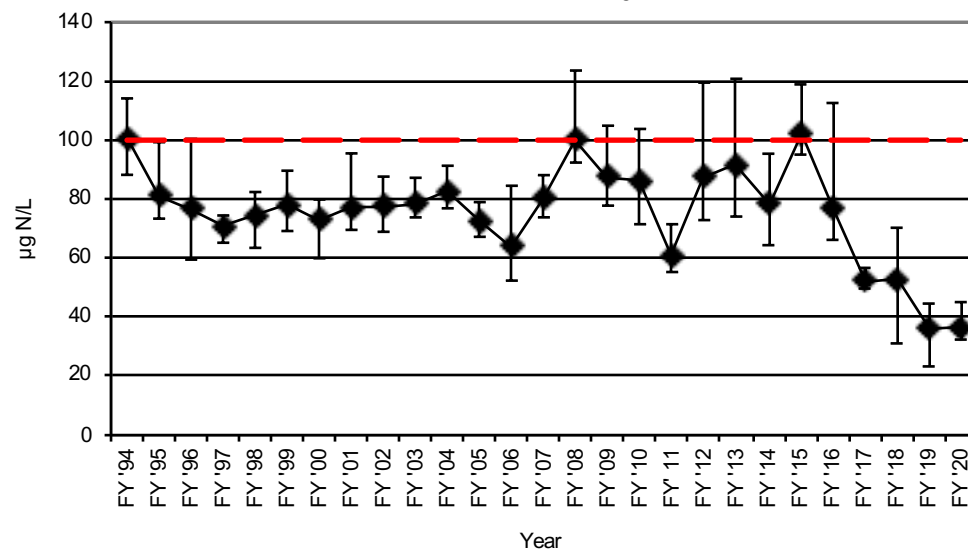
Transect 5, Station 1 2014 HDOH Class AA Water Quality Standard

NELHA Offshore Transect 5, Station 1
Yearly Geometric Mean of
Total Dissolved Phosphorous



Transect 5, Station 1 2014 HDOH Class AA Water Quality Standard

NELHA Offshore Transect 5, Station 1
Yearly Geometric Mean of
Total Dissolved Nitrogen



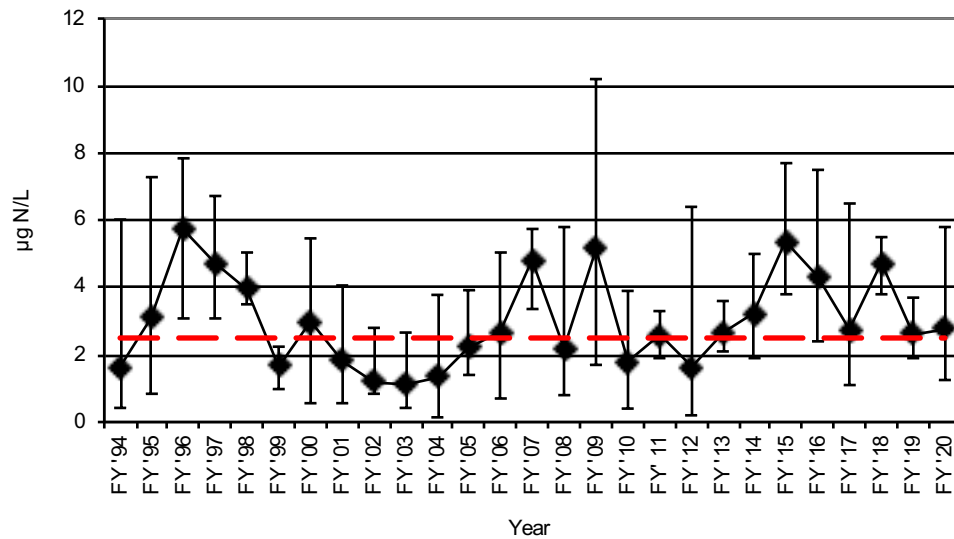
Transect 5, Station 1 2014 HDOH Class AA Water Quality Standard

NELHA Water Quality Laboratory

Transect 5, Station 1

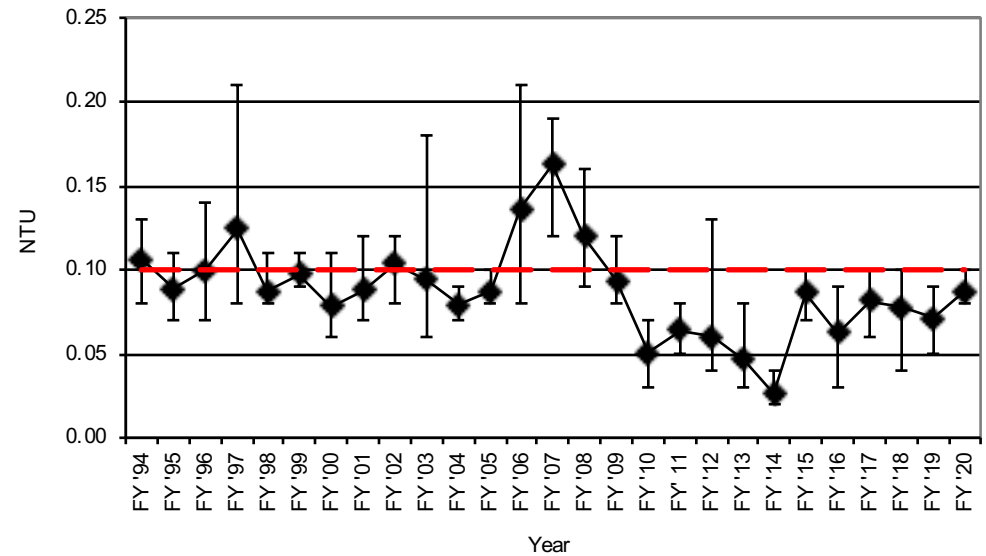
7/26/1993 - 7/16/20

NELHA Offshore Transect 5, Station 1
Yearly Geometric Mean of Total Ammonia



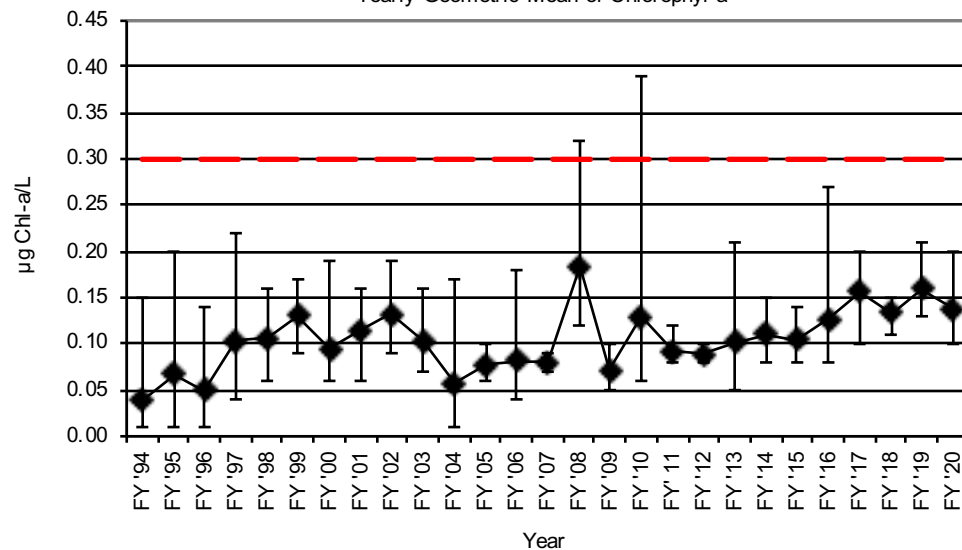
Transect 5, Station 1 2014 HDOH Class AA Water Quality Standard

NELHA Offshore Transect 5, Station 1
Yearly Geometric Mean of Turbidity



Transect 5, Station 1 2014 HDOH Class AA Water Quality Standard

NELHA Offshore Transect 5, Station 1
Yearly Geometric Mean of Chlorophyll-a



Transect 5, Station 1 2014 HDOH Class AA Water Quality Standard

NELHA Water Quality Laboratory

Transect 5, Station 2

7/26/1993 - 7/16/20

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		Turbidity	Salinity	Temp.	pH	DO	Chl a
	M/D/Y	(2400)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg N/L)	(μM)	(μg Si/L)	(μM)	(μg P/L)	(μM)	(μg N/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(μg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.1					0.3
O5-2S-23m	7/26/93	950	0.15	4.6	0.15	2.1	0.38	5.3	3.5	99					0.08	34.426	26.8			
O5-2S-23m	12/6/93	1123	0.06	1.9	0.22	3.1	0.06	0.8	2.9	81					0.09	34.876	25.7			
O5-2S-23m	3/7/94	1029	0.24	7.4	0.68	9.5	0.17	2.4	6.2	173	6.43 90.06				0.10	34.130	25.1			
O5-2S-23m	6/15/94	1025	0.22	6.8	0.21	2.9	0.06	0.8	3.4	95					0.11	34.527	25.7			
Geomean	FY '94		4.6		3.7		1.7								0.09					
O5-2S-23m	9/9/94	1040	0.10	3.1	0.46	6.4	0.19	2.7	4.4	123					0.13	34.538	27.7			
O5-2S-23m	11/14/94	924	0.16	5.0	0.73	10.2	0.55	7.7	7.4	208					0.12	34.496	26.1			
O5-2S-23m	3/22/95	1012	0.18	5.6	0.33	4.6	0.37	5.2	3.7	105					0.09	34.188	25.2			
O5-2S-23m	6/20/95	1000	0.15	4.6	0.10	1.4	0.14	2.0	3.5	99					0.07	34.464	26.4			
Geomean	FY '95		4.5		4.5		3.8								0.10					
O5-2S-23m	9/28/95	813	0.08	2.5	0.07	1.0	0.50	7.0	1.6	46					0.09	34.605	27.2			
O5-2S-23m	11/14/95	951	0.10	3.1	0.08	1.1	0.49	6.9	3.1	86					0.08	34.357	26.8			
O5-2S-23m	3/12/96	1029	0.15	4.6	0.33	4.6	0.56	7.8	4.4	124					0.07	34.135	25.6			
O5-2S-23m	5/14/96	1021	0.12	3.7	0.39	5.5	0.19	2.7	5.7	159					0.10	34.227	27.2			
Geomean	FY '96		3.4		2.3		5.6								0.08					
O5-2S-23m	7/31/96	1050	0.09	2.8	0.41	5.7	0.44	6.2	6.6	186					0.09	34.371	28.0			
O5-2S-23m	10/2/96	1019	0.07	2.2	0.03	0.4	0.26	3.6	2.6	72					0.08	34.640	28.1			
O5-2S-23m	1/7/97	1022	0.12	3.7	0.75	10.5	0.23	3.2	6.0	168					0.07	34.563	25.7			
O5-2S-23m	4/28/97	1044	0.15	4.6	0.23	3.2	0.39	5.5	6.3	176					0.10	34.408	26.8			
Geomean	FY '97		3.2		3.0		4.5								0.08					
O5-2S-23m	8/19/97	1026	0.11	3.4	0.55	7.7	0.28	3.9	5.9	164					0.10	34.558	27.1			
O5-2S-23m	10/7/97	926	0.09	2.8	0.08	1.1	0.34	4.8	2.4	68					0.10	34.751	27.6			
O5-2S-23m	3/4/98	1030	0.13	4.0	0.58	8.1	0.23	3.2	5.3	150					0.07	34.928	25.0			
O5-2S-23m	5/5/98	1036	0.09	2.8	0.16	2.2	0.22	3.1	3.5	99					0.09	35.055	24.3			
Geomean	FY '98		3.2		3.5		3.7								0.09					
O5-2S-23m	7/7/98	1100	0.12	3.7	0.33	4.6	0.07	1.0	6.4	181					0.13	34.912	26.3			
O5-2S-23m	10/6/98	1011	0.10	3.1	0.21	2.9	0.09	1.3	5.7	161					0.08	35.109	27.0			
O5-2S-23m	1/19/99	1046	0.08	2.5	0.23	3.2	0.11	1.5	4.6	128					0.07	35.095	25.3			
O5-2S-23m	4/13/99	1127	0.17	5.3	0.70	9.8	0.13	1.8	9.5	265					0.10	34.480	24.5			
Geomean	FY '99		3.5		4.6		1.4								0.09					

NELHA Water Quality Laboratory

Transect 5, Station 2

7/26/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (μM) (μg P/L)		TDN (μM) (μg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (μg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O5-2S-23m	8/16/99	1100	0.10	3.1	0.05	0.7	0.51	7.1	2.1	60					0.10	34.836	26.1			
O5-2S-23m	10/25/99	1148	0.14	4.3	0.66	9.2	0.39	5.5	7.6	214					0.10	34.813	26.3			
O5-2S-23m	1/12/00	1047	0.10	3.1	0.04	0.6	0.26	3.6	2.2	61					0.05	35.114	24.9			
O5-2S-23m	4/11/00	955	0.12	3.7	0.13	1.8	0.02	0.3	3.2	90					0.08	34.838	24.4			
Geomean	FY '00		3.5		1.6		2.5								0.08					
O5-2S-23m	7/25/00	1102	0.11	3.4	0.15	2.1	0.06	0.8	3.0	85					0.09	34.851	26.7			
O5-2S-23m	10/31/00	1049	0.12	3.7	0.04	0.6	0.27	3.8	2.9	82					0.06	34.949	27.1			
O5-2S-23m	3/6/01	1041	0.14	4.3	0.25	3.5	0.12	1.7	4.3	121					0.09	34.672	24.9			
O5-2S-23m	5/8/01	1134	0.13	4.0	0.47	6.6	0.21	2.9	7.0	195					0.07	34.708	24.9			
Geomean	FY '01		3.9		2.3		2.0								0.08					
O5-2S-23m	8/13/01	936	0.09	2.8	0.01	0.1	0.20	2.8	2.1	58					0.15	34.879	26.6			
O5-2S-23m	10/10/01	1044	0.15	4.6	0.09	1.3	0.06	0.8	3.4	95					0.08	34.920	27.5			
O5-2S-23m	3/6/02	956	0.14	4.3	0.18	2.5	0.06	0.8	4.4	124					0.12	34.664	24.2			
O5-2S-23m	4/15/02	1002	0.15	4.6	0.25	3.5	0.06	0.8	4.6	129					0.08	34.439	25.6			
Geomean	FY '02		4.0		1.1		1.1								0.10					
O5-2S-23m	7/10/02	957	0.18	5.6	0.28	3.9	0.15	2.1	4.9	136					0.08	34.620	26.4			
O5-2S-23m	10/8/02	1005	0.06	1.9	0.48	6.7	0.06	0.8	4.0	112					0.10	34.876	27.0			
O5-2S-23m	3/11/03	1132	0.10	3.1	0.13	1.8	0.03	0.4	3.3	92					0.08	34.705	25.3			
O5-2S-23m	4/23/03	1000	0.16	5.0	0.03	0.4	0.03	0.4	3.8	107					0.06	34.992	25.1			
Geomean	FY '03		3.6		2.1		0.7								0.08					
O5-2S-23m	8/21/03	956	5.94	184.0	0.09	1.3	0.10	1.4	2.5	70					0.08	34.827	28.3			
O5-2S-23m	11/3/03	929	0.11	3.4	0.01	0.1	0.26	3.6	2.5	71					0.10	34.651	27.2			
O5-2S-23m	3/18/04	1001	0.14	4.3	0.14	2.0	0.26	3.6	2.7	75					n/a	34.373	25.5			
O5-2S-23m	5/24/04	1018	0.15	4.6	0.27	3.8	0.09	1.3	3.9	110					n/a	33.33	26.8			
Geomean	FY '04		10.6		1.1		2.2								0.09					
O5-2S-23m	9/22/04	1052	0.07	2.2	0.01	0.1	0.28	3.9	6.7	188					0.08	33.76	27.8			
O5-2S-23m	11/29/04	956	0.08	2.5	0.27	3.8	0.14	2.0	2.0	56					0.07	33.79	27.0			
O5-2S-23m	1/24/05	1035	0.05	1.5	0.01	0.1	0.08	1.1	1.7	47					0.07	34.773	25.6			
O5-2S-23m	4/13/05	1036	0.13	4.0	0.20	2.8	0.20	2.8	3.2	90					0.10	34.424	25.4			
Geomean	FY '05		2.4		0.7		2.2								0.08					

NELHA Water Quality Laboratory

Transect 5, Station 2

7/26/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O5-2S-23m	7/21/05	953	0.06	1.9	0.31	4.3	0.34	4.8	7.0	197					0.09	34.647	27.4			
O5-2S-23m	10/13/05	942	0.06	1.9	0.28	3.9	0.21	2.9	4.5	127					0.12	34.794	27.2			
O5-2S-23m	3/15/06	901	0.13	4.0	0.24	3.4	0.27	3.8	8.4	236					0.08	34.781	24.4			
O5-2S-23m	5/17/06	942	0.16	5.0	0.86	12.0	0.05	0.7	6.1	171					0.22	34.539	24.8			
Geomean	FY '06		2.9		5.1		2.5								0.12					
O5-2S-23m	8/16/06	951	0.11	3.4	0.43	6.0	0.34	4.8	2.5	70					0.25	34.653	26.8			
O5-2S-23m	11/20/06	952	0.10	3.1	0.18	2.5	0.22	3.1	2.0	56					0.08	34.809	26.9			
O5-2S-23m	2/12/07	1046	0.31	9.6	0.16	2.2	0.48	6.7	0.9	25					0.10	34.436	24.5			
O5-2S-23m	4/16/07	1036	0.15	4.6	0.82	11.5	0.39	5.5	10.2	286					0.41	34.436	26.1			
Geomean	FY '07		4.7		4.4		4.8								0.17					
T5-10m	9/27/07	920	0.16	5.0	0.29	4.0	0.36	5.1	6.1	173	0.36	11.0	5.3	74	0.06	34.922	26.8	8.06	6.07	0.20
T5-10m	12/14/07	945	0.06	2.0	0.69	9.7			5.4	151	0.35	10.9	4.8	68	0.10	34.727	25.7	8.21	6.69	0.2
T5-10m	3/11/08	953	0.12	3.6	0.48	6.7	0.06	0.8	19.8	557	0.28	8.7	6.8	96	0.12	34.834	24.8	8.1	6.53	0.37
T5-10m	6/9/08	1028	0.09	2.8	0.17	2.4	0.16	2.2	14.0	392	0.25	7.7	5.2	72	0.07	34.6758	25.0	8.12	5.83	0.08
Geomean	FY '08		3.2		5.0		2.1				9.5		77		0.08					0.19
T5-10m	9/23/08	1111	0.04	1.3	0.16	2.2	0.28	3.9	2.5	71	0.29	8.9	4.7	66	0.08	34.836	26.8	8.06	6.21	0.03
T5-10m	12/8/08	1022	0.21	6.5	0.35	4.9	1.03	14.4	1.9	53	0.10	3	5.9	83	0.05	34.990	26.1	8.30	5.85	0.07
T5-10m	2/10/09	918	0.13	3.9	0.41	5.8	0.56	7.9	3.6	101	0.37	11.6	10.8	152	0.10	35.060	24.8	8.05	6.05	0.05
T5-10m	6/30/09	1005	0.29	8.9	0.41	5.8	0.17	2.4	5.2	145	0.23	7	5.3	74	0.11	34.898	26.7	8.17	6.07	0.09
Geomean	FY '09		4.1		4.4		5.7				6.8		89		0.08					0.06
T5-10m	9/10/09	1003	0.15	4.5	0.19	2.6	0.92	12.9	43.6	1223	0.26	8.0	4.7	67	0.09	35.27	27.3	8.24	5.71	0.15
T5-10m	11/24/09	937	0.02	0.766	0.16	2.2	0.06	0.9	14.9	420	0.23	7	4.3	60	0.04	35.27	25.2	8.25	6.47	0.12
T5-10m	2/24/10	1013	0.18	5.5	1.09	15.2	0.38	5.3	8.4	236	0.38	11.7	5.4	76	0.07	35.09	24.6	8.23	5.51	0.38
T5-10m	5/25/10	928	0.05	1.4	0.43	6	0.15	2.1	4.0	111	0.19	5.8	4.4	61	0.05	34.77	25.2	8.28	6.67	0.07
Geomean	FY '10		2.3		4.8		3.4				7.9		66		0.06					0.15
T5-10m	8/11/10	942	0.05	1.4	0.53	7.4	0.28	3.9	3.0	85	0.32	9.9	3.5	50	0.07	34.94	26.00	8.23	6.70	0.07
T5-10m	11/9/10	944	0.02	0.766	0.16	2.2	0.06	0.9	14.9	420	0.23	7	4.3	60	0.10	34.90	26.23	8.26	6.46	0.09
T5-10m	1/11/11	1208	0.15	4.8	0.41	5.7	0.37	5.2	4.5	126	0.43	13.2	3.6	51	0.03	35.02	25.07	8.21	6.62	0.13
T5-10m	4/27/11	952	0.15	4.6	0.56	7.9	0.30	4.2	4.1	115	0.44	13.5	4.6	64	0.08	34.85	24.90	8.23	6.41	0.11
Geomean	FY '11		2.2		5.2		3.0				10.5		56		0.06					0.10

NELHA Water Quality Laboratory

Transect 5, Station 2

7/26/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
T5-10m	7/27/11	1035	0.20	6.3	0.44	6.2	0.32	4.5	2.0	57	0.50	15.4	5.4	76	0.07	34.79	26.02	8.22	6.49	0.07
T5-10m	10/19/11	1012	0.05	1.4	0.21	2.9	0.08	1.1	2.2	62	0.40	12.4	6.7	94	0.08	35.13	26.52	8.26	7.25	0.07
T5-10m	1/26/12	944	0.07	2.3	0.23	3.2	0.11	1.5	2.6	73	0.61	18.8	6.8	95	0.09	35.01	24.46	8.18	6.74	0.12
T5-10m	4/25/12	1011	0.17	5.3	0.46	6.5	0.34	4.8	1.9	53	0.46	14.4	7.5	105	0.06	34.84	24.82	8.20	6.84	0.17
Geomean	FY '12		3.2		4.4		2.4				15.1		92		0.07					0.10
T5-10m	7/25/12	954	0.05	1.6	0.21	2.9	0.19	2.7	1.4	38	0.57	17.7	6.3	89	0.23	35.12	26.35	8.24	6.86	0.20
T5-10m	11/28/12	956	0.11	3.5	0.60	8.4	0.20	2.8	4.0	112	0.56	17.3	8.7	122	0.02	35.19	25.24	8.20	6.69	0.12
T5-10m	1/24/13	943	0.08	2.5	0.41	5.7	0.11	1.6	2.5	71	0.52	16	5.7	80	0.04	35.06	24.76	8.21	6.37	0.17
T5-10m	4/17/13	1058	0.22	6.9	0.99	13.9	0.45	6.3	5.5	153	0.59	18.3	7.3	103	0.08	35.03	25.16	8.21	6.88	0.12
Geomean	FY '13		3.1		6.6		3.0				17.3		97		0.06					0.15
T5-10m	8/6/13	1034	0.16	5.0	1.49	20.8	0.37	5.2	10.8	304	0.34	10.6	6.7	94	0.07	34.94	26.3	8.27	7.17	0.08
T5-10m	10/30/13	938	0.16	4.9	0.32	4.5	0.24	3.4	2.3	65	0.47	14.6	6.8	95	0.02	34.90	27.0	8.23	6.13	0.12
T5-10m	2/5/14	1003	0.15	4.5	0.42	5.9	0.31	4.3	2.8	77	0.56	17.5	9.2	128	0.02	34.96	25.2	8.22	6.23	0.11
T5-10m	5/7/14	956	0.12	3.7	0.44	6.1	0.20	2.8	2.0	57	0.39	12.2	7.4	104	0.08	34.79	25.7	8.20	5.64	0.09
Geomean	FY '14		4.5		7.6		3.8				13.5		104		0.04					0.10
T5-10m	8/6/14	951	0.17	5.4	0.12	1.7	0.34	4.8	0.9	24	0.52	16.0	7.1	99	0.11	34.95	26.7	8.24	6.23	0.12
T5-10m	12/4/14	1023	0.14	4.2	0.78	10.9	0.61	8.5	3.8	106	0.06	2.0	7.4	103	0.11	35.17	26.4	8.25	6.55	0.11
T5-10m	3/5/15	1019	0.05	1.4	0.46	6.5	0.21	2.9	2.4	66	0.31	9.5	7.1	99	0.10	34.72	25.4	8.27	6.87	0.10
T5-10m	6/18/15	956	0.13	4.0	0.21	2.9	0.40	5.6	4.1	115	0.42	13.1	7.5	105	0.08	34.40	26.6	8.15	6.67	0.09
Geomean	FY '15		3.4		4.3		5.1				7.9		101		0.10					0.10
T5-10m	8/27/15	1003	0.14	4.3	0.02	0.3	0.19	2.7	2.9	80	0.33	10.2	4.6	64	0.02	34.63	28.6	8.27	5.97	0.23
T5-10m	11/18/15	1028	0.13	3.9	0.44	6.1	0.27	3.8	4.1	117	0.48	14.8	3.3	46	0.04	34.65	27.4	8.28	6.69	0.13
T5-10m	3/2/16	913	0.14	4.2	0.21	3.0	0.24	3.3	0.2	6	0.51	15.9	5.2	72	0.07	34.74	25.3	8.23	5.75	0.07
T5-10m	5/4/16	1008	0.01	0.4	0.19	2.7	0.21	2.9	1.8	49	0.46	14.3	6.8	96	0.08	34.65	25.9	8.20	6.16	0.17
Geomean	FY '16		2.3		2.0		3.1				13.6		67		0.05					0.14
T5-10m	7/7/16	1011	0.14	4.2	0.53	7.4	0.50	7.0	2.6	74	0.45	13.8	4.9	69	0.09	34.60	26.8	8.32	6.74	0.19
T5-10m	12/21/16	1022	0.06	2.0	0.30	4.2	0.49	6.9	1.9	53	0.33	10.2	2.7	38	0.05	34.62	25.5	8.29	5.98	0.18
T5-10m	3/1/17	1132	0.02	0.7	0.41	5.7	0.28	3.9	1.4	40	0.30	9.4	3.5	49	0.07	34.74	24.6	8.24	5.84	0.14
T5-10m	5/10/17	1108	0.04	1.2	0.36	5.1	0.13	1.8	2.0	57	0.24	7.3	2.2	31	0.12	34.79	25.8	8.24	4.31	0.13
Geomean	FY '17		1.6		5.5		4.3				9.9		44		0.08					0.16

NELHA Water Quality Laboratory

Transect 5, Station 2

7/26/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (μM) (μg P/L)		TDN (μM) (μg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (μg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
T5-10m	9/28/17	1004	0.14	4.4	0.25	3.5	0.24	3.3	0.7	19	0.39	12.2	2.1	29	0.07	34.82	27.8	8.19	4.86	0.15
T5-10m	11/30/17	951	0.10	3.1	0.39	5.4	0.49	6.9	2.5	70	0.36	11.2	3.5	48	0.10	35.14	26.3	8.23	5.76	0.17
T5-10m	2/6/18	1033	0.07	2.1	0.02	0.3	0.45	6.3	1.2	33	0.33	10.1	2.1	29	0.10	34.84	24.9	8.16	5.84	0.07
T5-10m	5/17/18	1005	0.14	4.4	0.64	8.9	0.40	5.6	5.3	150	0.38	11.8	2.4	34	0.09	34.73	25.9	8.17	6.75	0.10
Geomean	FY '18		3.4		2.7		5.3				11.3		34		0.09					0.12
T5-10m	9/26/18	1251	0.03	0.8	0.16	2.3	0.10	1.4	0.1	4	0.27	8.5	1.6	23	0.09	34.74	27.6	8.16	4.82	0.13
T5-10m	11/14/18	1056	0.04	1.2	0.33	4.6	0.21	2.9	0.1	4	0.30	9.3	2.6	37	0.08	34.90	27.3	8.20	6.25	0.15
T5-10m	1/23/19	1043	0.10	3.1	0.15	2.1	0.23	3.2	2.1	59	0.36	11.2	2.0	28	0.09	34.89	24.9	8.20	5.23	0.24
T5-10m	4/17/19	1033	0.16	5.1	0.51	7.2	0.31	4.4	4.2	117	0.38	11.7	2.6	36	0.08	34.69	25.7	8.12	7.03	0.14
Geomean	FY '19		2.0		3.5		2.7				10.1		30		0.08					0.16
T5-10m	7/1/19	1007	0.06	2.0	0.16	2.3	0.31	4.3	3.5	100	0.30	9.2	1.8	25	0.08	35.24	28.2	8.26	6.75	0.17
T5-10m	9/1/19	1113	0.13	3.9	0.31	4.3	0.01	0.2	0.8	23	0.45	13.8	3.3	46	0.09	35.19	27.5	8.22	6.79	0.10
T5-10m	1/1/20	1026	0.11	3.4	0.16	2.3	0.09	1.3	3.3	92	0.38	11.9	2.6	36	0.11	34.91	24.9	8.23	7.12	0.11
T5-10m	4/1/20	946	0.06	1.9	0.16	2.3	0.06	0.8	1.6	46	0.28	8.7	1.5	21	0.07	35.48	26.1	8.18	6.73	0.22
Geomean	FY '20		2.7		2.6		1.0				10.7		31		0.09					0.14

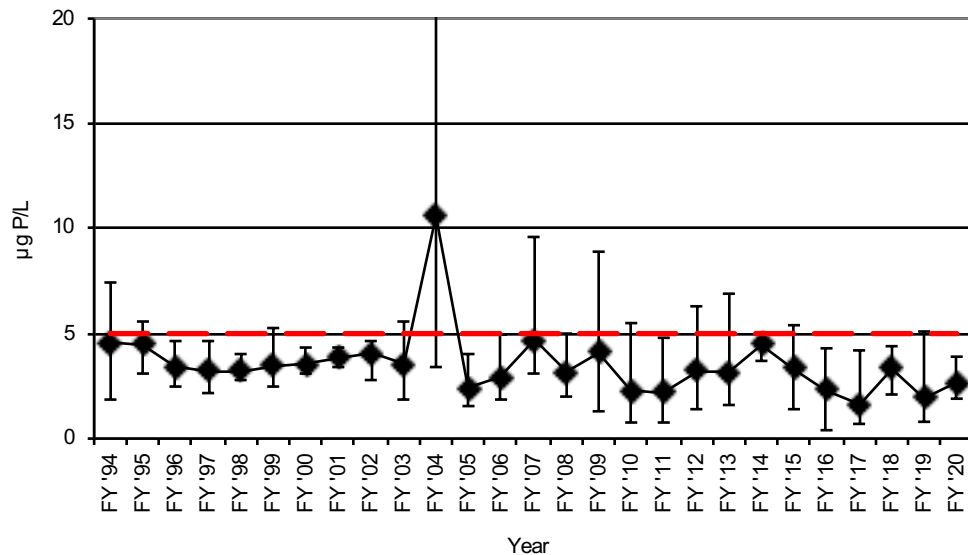
NELHA Water Quality Laboratory

Transect 5, Station 2

7/26/1993 - 7/16/20

NELHA Offshore Transect 5, Station 2

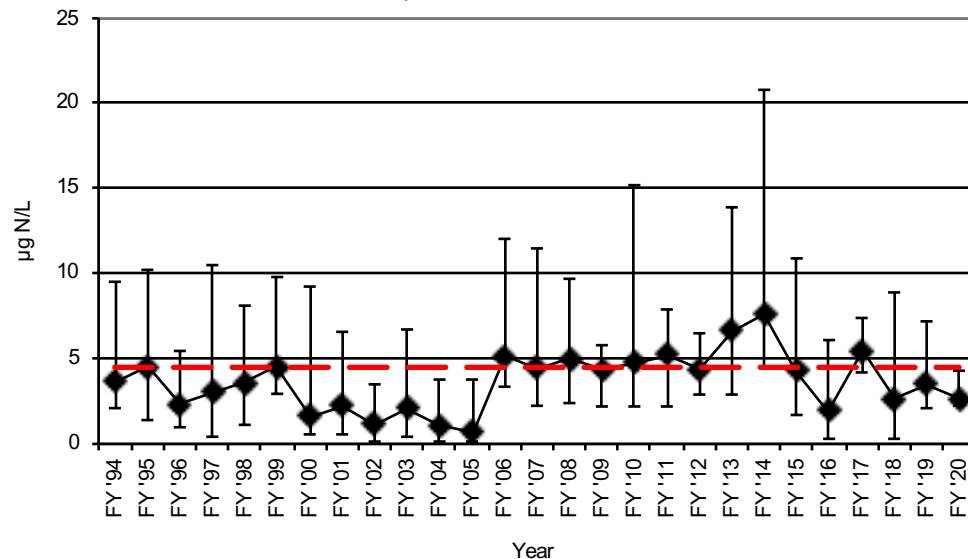
Yearly Geometric Mean of Ortho-Phosphate



Transect 5, Station 2 2014 HDOH Class AA Water Quality Standard

NELHA Offshore Transect 5, Station 2

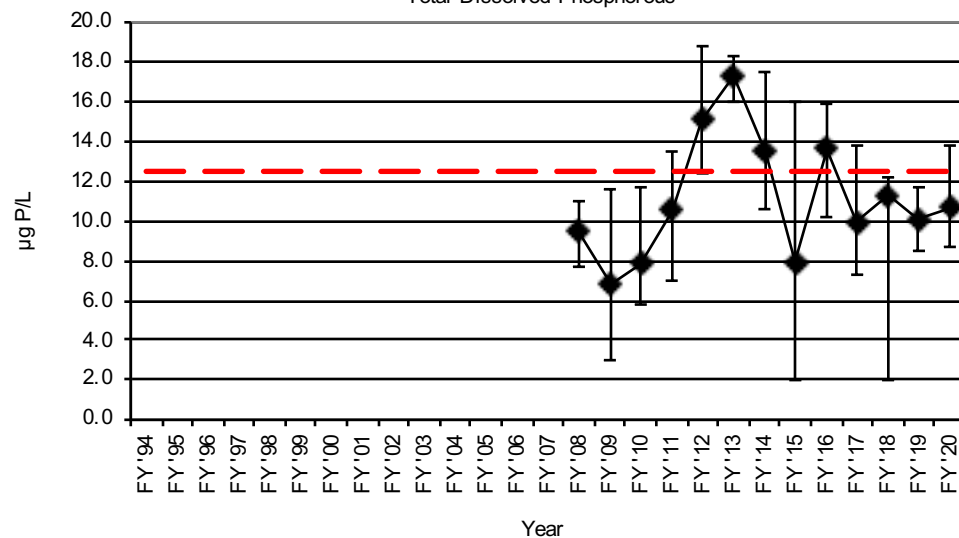
Yearly Geometric Mean of Nitrate + Nitrite



Transect 5, Station 2 2014 HDOH Class AA Water Quality Standard

NELHA Offshore Transect 5, Station 2

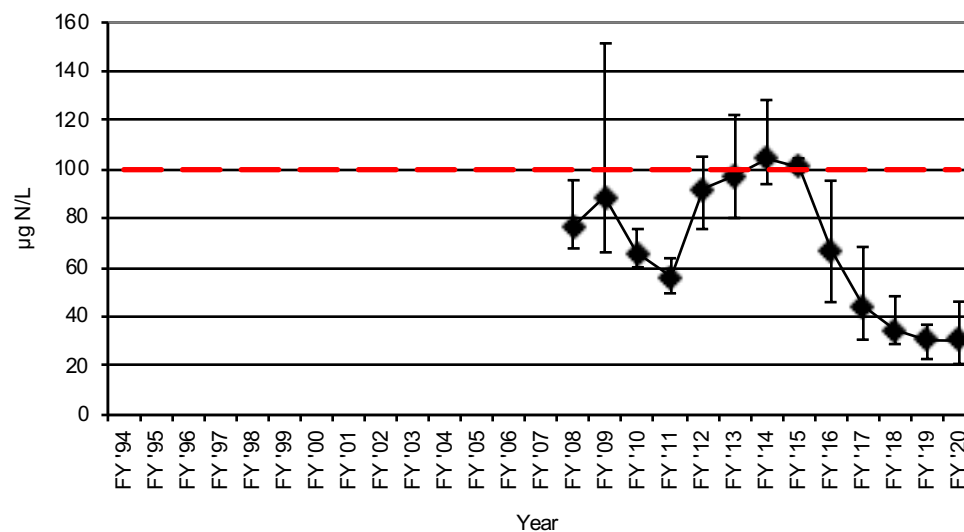
Yearly Geometric Mean of
Total Dissolved Phosphorous



Transect 5, Station 2 2014 HDOH Class AA Water Quality Standard

NELHA Offshore Transect 5, Station 2

Yearly Geometric Mean of
Total Dissolved Nitrogen



Transect 5, Station 2 2014 HDOH Class AA Water Quality Standard

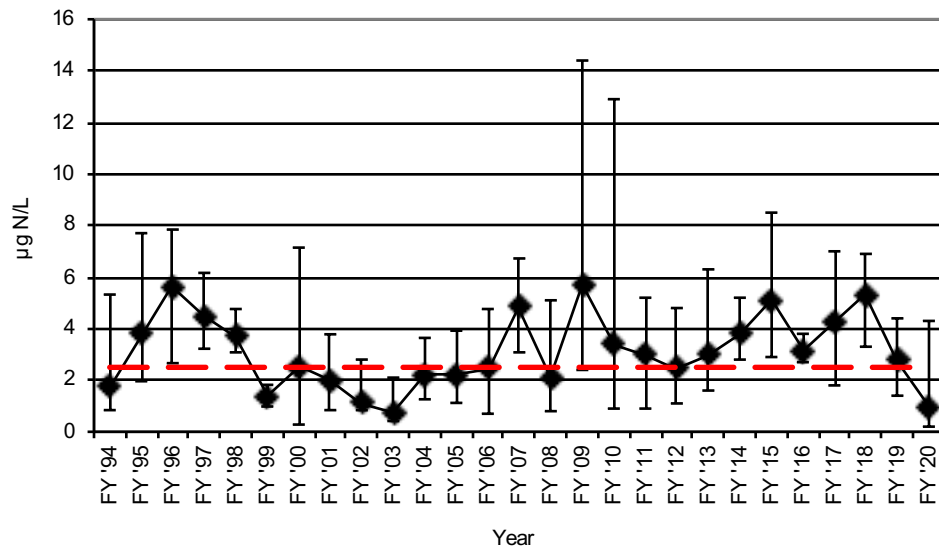
NELHA Water Quality Laboratory

Transect 5, Station 2

7/26/1993 - 7/16/20

NELHA Offshore Transect 5, Station 2

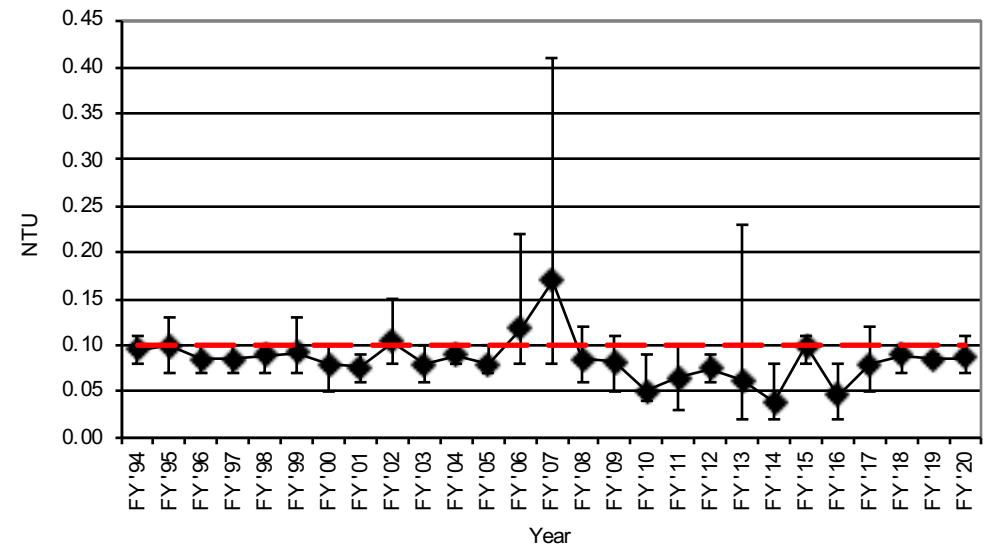
Yearly Geometric Mean of Total Ammonia



Transect 5, Station 2 2014 HDOH Class AA Water Quality Standard

NELHA Offshore Transect 5, Station 2

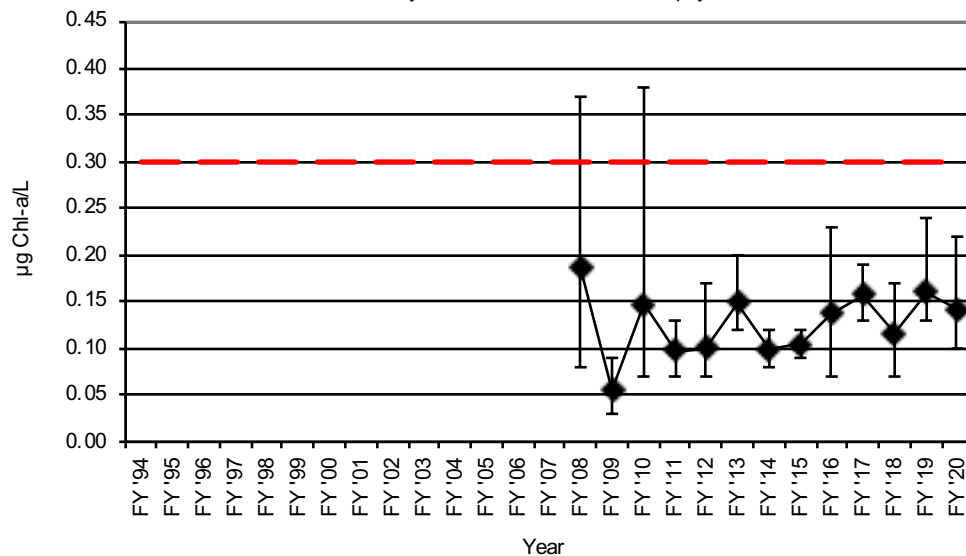
Yearly Geometric Mean of Turbidity



Transect 5, Station 2 2014 HDOH Class AA Water Quality Standard

NELHA Offshore Transect 5, Station 2

Yearly Geometric Mean of Chlorophyll-a



Transect 5, Station 2 2014 HDOH Class AA Water Quality Standard

NELHA Water Quality Laboratory

Transect 5, Station 3

7/26/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (μM) (μg P/L)		TDN (μM) (μg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (μg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O5-3S-38m	7/26/93	1008	0.12	3.7	0.12	1.7	0.38	5.3	2.9	82					0.07	34.427	26.9			
O5-3S-38m	12/6/93	1115	0.06	1.9	0.19	2.7	0.06	0.8	4.5	126					0.07	34.876	25.7			
O5-3S-38m	3/7/94	1023	0.23	7.1	0.70	9.8	0.18	2.5	6.1	171					0.07	34.139	25.1			
O5-3S-38m	6/15/94	1017	0.21	6.5	0.06	0.8	0.08	1.1	2.9	82					0.10	34.554	25.6			
Geomean FY '94			4.2		2.5		1.9								0.08					
O5-3S-38m	9/9/94	1035	0.09	2.8	0.15	2.1	0.15	2.1	2.6	74					0.07	34.596	27.8			
O5-3S-38m	11/14/94	921	0.13	4.0	0.31	4.3	0.55	7.7	4.2	119					0.11	34.604	26.2			
O5-3S-38m	3/22/95	1006	0.18	5.6	0.31	4.3	0.37	5.2	4.9	136					0.11	34.159	25.2			
O5-3S-38m	6/20/95	958	0.11	3.4	0.10	1.4	0.14	2.0	2.1	60					0.08	34.463	26.3			
Geomean FY '95			3.8		2.7		3.6								0.09					
O5-3S-38m	9/28/95	822	0.06	1.9	0.05	0.7	0.49	6.9	1.7	47					0.18	34.605	27.3			
O5-3S-38m	11/14/95	946	0.12	3.7	0.01	0.1	0.51	7.1	2.7	75					0.05	34.353	26.8			
O5-3S-38m	3/12/96	1019	0.16	5.0	0.22	3.1	0.53	7.4	3.5	97					0.05	34.159	25.6			
O5-3S-38m	5/14/96	1016	0.12	3.7	0.34	4.8	0.19	2.7	5.1	144					0.08	34.245	27.2			
Geomean FY '96			3.4		1.1		5.6								0.08					
O5-3S-38m	7/31/96	1045	0.08	2.5	0.45	6.3	0.46	6.4	5.9	166					0.09	34.352	27.9			
O5-3S-38m	10/2/96	1014	0.08	2.5	0.03	0.4	0.28	3.9	3.0	85					0.09	34.634	28.1			
O5-3S-38m	1/7/97	1016	0.12	3.7	1.02	14.3	0.22	3.1	8.2	229					0.08	34.516	25.6			
O5-3S-38m	4/28/97	1039	0.21	6.5	0.79	11.1	0.39	5.5	13.1	368					0.10	34.197	26.8			
Geomean FY '97			3.5		4.5		4.5								0.09					
O5-3S-38m	8/19/97	1022	0.11	3.4	0.67	9.4	0.28	3.9	6.4	181					0.10	34.533	27.0			
O5-3S-38m	10/7/97	919	0.10	3.1	0.07	1.0	0.36	5.0	2.4	68					0.08	34.747	27.5			
O5-3S-38m	3/4/98	1025	0.14	4.3	0.66	9.2	0.21	2.9	6.0	167					0.08	34.915	24.9			
O5-3S-38m	5/5/98	1032	0.08	2.5	0.04	0.6	0.15	2.1	2.9	82					0.07	35.084	24.2			
Geomean FY '98			3.3		2.6		3.3								0.08					
O5-3S-38m	7/7/98	1055	0.12	3.7	0.40	5.6	0.06	0.8	7.7	216					0.09	34.894	26.3			
O5-3S-38m	10/6/98	1005	0.11	3.4	0.23	3.2	0.09	1.3	3.4	95					0.08	35.089	27.0			
O5-3S-38m	1/19/99	1041	0.08	2.5	0.24	3.4	0.03	0.4	4.4	123					0.08	35.086	25.3			
O5-3S-38m	4/13/99	1123	0.16	5.0	0.69	9.7	0.09	1.3	10.0	280					0.07	34.480	24.5			
Geomean FY '99			3.5		4.9		0.9								0.08					

NELHA Water Quality Laboratory

Transect 5, Station 3

7/26/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O5-3S-38m	8/16/99	1054	0.12	3.7	0.10	1.4	0.43	6.0	2.2	62					0.13	34.878	26.5			
O5-3S-38m	10/25/99	1143	0.13	4.0	0.39	5.5	0.35	4.9	5.9	165					0.09	34.847	26.4			
O5-3S-38m	1/12/00	1042	0.11	3.4	0.02	0.3	0.31	4.3	2.6	74					0.05	35.126	24.9			
O5-3S-38m	4/11/00	951	0.12	3.7	0.17	2.4	0.07	1.0	4.0	111					0.06	34.822	24.5			
Geomean	FY '00		3.7		1.5		3.3								0.08					
O5-3S-38m	7/25/00	1058	0.10	3.1	0.18	2.5	0.03	0.4	3.2	90					0.06	34.848	26.7			
O5-3S-38m	10/31/00	1045	0.09	2.8	0.02	0.3	0.25	3.5	2.2	61					0.04	34.975	27.1			
O5-3S-38m	3/6/01	1037	0.16	5.0	0.47	6.6	0.12	1.7	5.4	151					0.09	34.655	24.9			
O5-3S-38m	5/8/01	1130	0.10	3.1	0.28	3.9	0.22	3.1	4.9	138					0.08	34.732	24.9			
Geomean	FY '01		3.4		2.1		1.7								0.06					
O5-3S-38m	8/13/01	931	0.10	3.1	0.04	0.6	0.15	2.1	2.2	62					0.10	34.862	26.7			
O5-3S-38m	10/10/01	1038	0.16	5.0	0.11	1.5	0.04	0.6	3.5	98					0.11	34.921	27.5			
O5-3S-38m	3/6/02	952	0.15	4.6	0.09	1.3	0.06	0.8	4.5	127					0.09	34.676	24.2			
O5-3S-38m	4/15/02	957	0.16	5.0	0.30	4.2	0.07	1.0	4.4	124					0.07	34.440	25.6			
Geomean	FY '02		4.3		1.5		1.0								0.09					
O5-3S-38m	7/10/02	954	0.19	5.9	0.13	1.8	0.11	1.5	4.1	116					0.06	34.639	26.5			
O5-3S-38m	10/8/02	1000	0.08	2.5	0.43	6.0	0.12	1.7	3.8	107					0.07	34.876	27.0			
O5-3S-38m	3/11/03	1126	0.08	2.5	0.03	0.4	0.03	0.4	3.3	93					0.08	34.704	25.2			
O5-3S-38m	4/23/03	956	0.08	2.5	0.03	0.4	0.03	0.4	2.5	71					0.07	34.999	25.0			
Geomean	FY '03		3.1		1.2		0.8								0.07					
O5-3S-38m	8/21/03	947	0.08	2.5	0.01	0.1	0.10	1.4	2.1	58					0.06	34.842	28.3			
O5-3S-38m	11/3/03	922	0.12	3.7	0.01	0.1	0.17	2.4	4.0	111					0.12	34.651	27.4			
O5-3S-38m	3/18/04	951	0.13	4.0	0.21	2.9	0.59	8.3	2.9	81					n/a	34.376	25.8			
O5-3S-38m	5/24/04	1013	0.14	4.3	0.28	3.9	0.09	1.3	3.8	106					n/a	33.30	26.9			
Geomean	FY '04		3.6		0.7		2.4								0.08					
O5-3S-38m	9/22/04	1047	0.07	2.2	0.01	0.1	0.26	3.6	1.5	43					0.08	33.73	27.7			
O5-3S-38m	11/29/04	951	0.09	2.8	0.26	3.6	0.16	2.2	2.2	62					0.09	33.79	27.0			
O5-3S-38m	1/24/05	1030	0.09	2.8	0.29	4.1	0.12	1.7	4.2	117					0.10	34.772	25.7			
O5-3S-38m	4/13/05	1031	0.14	4.3	0.31	4.3	0.20	2.8	4.3	120					0.12	34.408	25.4			
Geomean	FY '05		2.9		1.7		2.5								0.10					

NELHA Water Quality Laboratory

Transect 5, Station 3

7/26/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O5-3S-38m	7/21/05	947	0.06	1.9	0.43	6.0	0.36	5.0	5.4	152					0.09	34.635	27.4			
O5-3S-38m	10/13/05	935	0.06	1.9	0.28	3.9	0.20	2.8	5.3	149					0.12	34.830	27.3			
O5-3S-38m	3/15/06	855	0.09	2.8	0.07	1.0	0.27	3.8	4.6	128					0.08	34.829	24.5			
O5-3S-38m	5/17/06	938	0.13	4.0	0.54	7.6	0.05	0.7	5.6	158					0.14	34.576	24.7			
Geomean	FY '06		2.5		3.6		2.5								0.10					
O5-3S-38m	8/16/06	946	0.11	3.4	0.28	3.9	0.38	5.3	2.6	74					0.13	34.640	26.8			
O5-3S-38m	11/20/06	946	0.10	3.1	0.18	2.5	0.18	2.5	2.0	57					0.10	34.802	26.7			
O5-3S-38m	2/12/07	1039	0.14	4.3	0.13	1.8	0.35	4.9	1.1	30					0.52	34.425	24.5			
O5-3S-38m	4/16/07	1030	0.12	3.7	0.07	1.0	0.29	4.1	3.9	109					0.13	34.654	26.5			
Geomean	FY '07		3.6		2.0		4.0								0.17					
T5-50m	9/27/07	911	0.17	5.3	0.31	4.4	0.25	3.5	5.2	147	0.37	11.4	6.6	93	0.08	34.915	26.7	8.06	6.06	0.09
T5-50m	12/14/07	948	0.08	2.4	0.01	0.1			6.4	181	0.35	10.9	5.4	76	0.11	34.749	25.7	8.24	6.52	0.17
T5-50m	3/11/08	957	0.08	2.5	0.38	5.3	0.06	0.8	18.8	528	0.23	7.2	6.0	84	0.12	34.836	24.8	8.1	6.87	0.35
T5-50m	6/9/08	1032	0.14	4.2	0.48	6.7	0.16	2.2	18.2	511	0.29	8.9	6.4	90	0.12	34.5909	25.2	8.12	5.78	0.19
Geomean	FY '08		3.4		2.0		1.8				9.4		85		0.11					0.18
T5-50m	9/23/08	1117	0.03	1	0.11	1.6	0.38	5.3	2.5	70	0.35	10.8	4.1	58	0.06	34.834	26.7	8.06	5.92	0.09
T5-50m	12/8/08	1028	0.17	5.2	0.25	3.5	0.34	4.8	1.7	49	0.45	14	5.5	77	0.07	34.975	26.1	8.30	5.22	0.09
T5-50m	2/10/09	921	0.11	3.4	0.41	5.8	0.12	1.7	2.9	80	0.34	10.6	7.9	111	0.08	35.044	24.8	8.05	6.03	0.04
T5-50m	6/30/09	1013	0.27	8.5	0.46	6.4	0.41	5.7	5.4	152	0.30	9.3	6.0	84	0.10	34.904	26.7	8.21	5.93	0.15
Geomean	FY '09		3.5		3.8		4.0				11.0		80		0.08					0.08
T5-50m	9/10/09	1013	0.13	4	0.16	2.2	1.50	21	34.4	966	0.69	21.4	7.3	103	0.07	35.24	27.3	8.21	5.92	0.28
T5-50m	11/24/09	943	0.02	0.766	0.19	2.6	0.74	10.3	5.6	158	0.37	11.5	4.0	57	0.03	35.26	25.2	8.24	6.46	0.12
T5-50m	2/24/10	1016	0.16	5.1	1.02	14.3	0.36	5	9.2	259	0.46	14.1	8.7	122	0.09	35.12	24.7	8.23	5.46	0.58
T5-50m	5/25/10	933	0.02	0.7	0.06	0.8	0.28	3.9	2.9	82	0.23	7.1	3.6	50	0.04	34.79	25.2	8.25	6.64	0.06
Geomean	FY '10		1.8		2.8		8.1				12.5		77		0.05					0.18
T5-50m	8/11/10	950	0.02	0.6	0.09	1.2	0.02	0.3	1.8	50	0.29	8.9	2.9	41	0.05	34.93	26.07	8.24	6.83	0.13
T5-50m	11/9/10	948	0.02	0.766	0.19	2.6	0.74	10.3	5.6	158	0.37	11.5	4.0	57	0.10	34.91	26.25	8.29	6.36	0.05
T5-50m	1/11/11	1216	0.15	4.5	0.41	5.7	0.16	2.3	6.3	177	0.42	12.9	3.7	51	0.05	35.01	25.08	8.20	6.54	0.09
T5-50m	4/27/11	956	0.14	4.2	0.36	5.1	0.27	3.8	6.0	169	0.45	13.8	4.0	57	0.08	34.87	24.93	8.23	6.37	0.12
Geomean	FY '11		1.7		3.1		2.3				11.6		51		0.07					0.09

NELHA Water Quality Laboratory

Transect 5, Station 3

7/26/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
T5-50m	7/27/11	1039	0.19	5.8	0.48	6.7	0.18	2.5	3.1	87	0.50	15.4	5.0	70	0.05	34.75	26.10	8.22	6.40	0.08
T5-50m	10/19/11	1019	0.04	1.1	0.16	2.3	0.08	1.1	2.4	67	0.37	11.4	4.9	68	0.06	35.11	26.53	8.27	7.20	0.07
T5-50m	1/26/12	947	0.07	2.2	0.25	3.5	0.04	0.6	3.5	98	0.37	11.6	3.8	53	0.08	34.99	24.44	8.18	6.66	0.14
T5-50m	4/25/12	1014	0.16	5	0.14	1.9	0.39	5.4	4.2	119	0.52	16.2	11.1	156	0.07	34.81	24.88	8.20	6.77	0.04
Geomean	FY '12		2.9		3.2		1.7				13.5		79		0.06					0.07
T5-50m	7/25/12	1000	0.03	1	0.21	2.9	0.21	3	1.5	43	0.46	14.4	5.6	79	0.04	35.10	26.42	8.24	6.81	0.04
T5-50m	11/28/12	1001	0.11	3.3	0.41	5.7	0.22	3.1	3.3	93	0.43	13.3	6.2	87	0.03	35.19	25.25	8.20	6.77	0.08
T5-50m	1/24/13	949	0.09	2.8	0.42	5.9	0.16	2.2	3.0	84	0.49	15.2	5.9	83	0.02	35.05	24.77	8.22	6.44	0.27
T5-50m	4/17/13	1104	0.21	6.4	1.09	15.3	0.34	4.7	6.1	172	0.50	15.5	6.3	88	0.02	35.01	25.11	8.20	6.57	0.10
Geomean	FY '13		2.8		6.2		3.1				14.6		84		0.03					0.10
T5-50m	8/6/13	1038	0.15	4.7	2.36	33.0	0.28	3.9	16.8	471	0.39	12.1	7.0	98	0.04	34.76	26.3	8.26	7.07	0.12
T5-50m	10/30/13	943	0.16	5.0	0.39	5.4	0.14	1.9	3.5	98	0.47	14.5	7.2	101	0.02	34.87	27.1	8.22	6.15	0.10
T5-50m	2/5/14	1008	0.15	4.5	0.43	6.0	0.29	4.0	3.1	86	0.48	15.0	9.0	126	0.02	34.94	25.2	8.20	6.31	0.13
T5-50m	5/7/14	1003	0.15	4.6	1.31	18.3	0.27	3.8	7.8	219	0.43	13.2	9.6	134	0.04	34.57	25.6	8.20	5.42	0.15
Geomean	FY '14		4.7		11.8		3.3				13.7		114		0.03					0.12
T5-50m	8/6/14	956	0.15	4.8	0.04	0.6	0.34	4.7	0.7	19	0.53	16.3	6.6	93	0.05	34.98	26.8	8.24	6.11	0.11
T5-50m	12/4/14	1027	0.12	3.6	0.08	1.1	0.45	6.3	0.5	14	0.42	13.1	6.4	90	0.19	35.25	26.4	8.25	6.25	0.17
T5-50m	3/5/15	1025	0.01	0.2	0.04	0.6	0.12	1.7	0.1	3	0.31	9.7	5.3	74	0.09	34.77	25.3	8.28	6.70	0.11
T5-50m	6/18/15	1001	0.10	3.0	0.14	1.9	0.36	5.1	3.0	84	0.37	11.4	6.4	90	0.06	34.42	26.6	8.15	6.59	0.10
Geomean	FY '15		1.8		0.9		4.0				12.4		86		0.08					0.12
T5-50m	8/27/15	1007	0.13	4.0	0.02	0.3	0.17	2.4	1.4	40	0.34	10.4	4.7	66	0.02	34.65	28.7	8.27	6.01	0.16
T5-50m	11/18/15	1033	0.14	4.2	0.47	6.6	0.09	1.2	4.0	113	0.49	15.2	5.9	82	0.06	34.65	27.3	8.24	6.62	0.13
T5-50m	3/2/16	918	0.14	4.2	0.29	4.0	0.56	7.9	0.3	10	0.46	14.4	4.8	67	0.07	34.72	25.2	8.23	5.76	0.07
T5-50m	5/4/16	1013	0.09	2.9	0.04	0.6	0.11	1.5	0.4	12	0.40	12.4	3.4	48	0.07	34.70	25.9	8.19	6.16	0.19
Geomean	FY '16		3.8		1.5		2.4				13.0		65		0.05					0.13
T5-50m	7/7/16	1016	0.13	3.9	0.66	9.2	0.32	4.5	2.1	58	0.43	13.3	3.7	53	0.11	34.62	26.9	8.31	6.65	0.21
T5-50m	12/21/16	1029	0.04	1.3	0.17	2.4	0.54	7.5	1.7	49	0.34	10.4	4.1	58	0.05	34.64	25.5	8.28	5.77	0.14
T5-50m	3/1/17	1127	0.03	0.8	0.31	4.4	0.17	2.4	1.2	33	0.29	9.1	4.6	64	0.09	34.74	24.6	8.24	5.75	0.14
T5-50m	5/10/17	1113	0.03	0.8	0.34	4.8	0.28	3.9	2.1	59	0.23	7.0	3.2	44	0.08	34.80	25.8	8.24	4.30	0.07
Geomean	FY '17		1.3		4.6		4.2				9.7		54		0.08					0.13

NELHA Water Quality Laboratory

Transect 5, Station 3

7/26/1993 - 7/16/20

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		Turbidity	Salinity	Temp.	pH	DO	Chl a
	M/D/Y	(2400)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg N/L)	(μM)	(μg Si/L)	(μM)	(μg P/L)	(μM)	(μg N/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(μg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
T5-50m	9/28/17	1010	0.12	3.6	0.11	1.5	0.06	0.8	0.5	14	0.39	12.2	2.4	33	0.07	34.84	27.8	8.19	4.69	0.13
T5-50m	11/30/17	956	0.09	2.8	0.18	2.5	0.34	4.8	1.4	38	0.37	11.4	5.0	70	0.05	35.22	26.4	8.23	5.63	0.17
T5-50m	2/6/18	1038	0.06	1.9	0.02	0.3	0.29	4.1	1.0	29	0.33	10.1	2.5	35	0.08	34.85	24.9	8.16	5.78	0.07
T5-50m	5/17/18	1010	0.08	2.4	0.08	1.1	0.20	2.8	2.3	65	0.38	11.8	1.8	26	0.05	34.81	26.1	8.17	6.50	0.09
Geomean	FY '18		2.6		1.1		2.6				11.3		38		0.06					0.11
T5-50m	9/26/18	1257	0.01	0.4	0.16	2.3	0.09	1.3	0.2	6	0.30	9.2	1.4	20	0.10	34.74	27.6	8.16	4.79	0.13
T5-50m	11/14/18	1102	0.06	1.8	0.21	3.0	0.14	2.0	0.1	3	0.34	10.5	4.4	62	0.09	34.90	27.3	8.20	6.07	0.13
T5-50m	1/23/19	1048	0.08	2.5	0.16	2.3	0.09	1.2	1.0	27	0.35	10.9	2.9	41	0.07	34.94	24.9	8.19	4.99	0.22
T5-50m	4/17/19	1039	0.16	4.9	0.33	4.6	0.17	2.4	9.2	257	0.41	12.7	2.9	41	0.06	34.72	25.7	8.12	7.01	0.12
Geomean	FY '19		1.7		2.9		1.6				10.8		38		0.08					0.15
T5-50m	7/1/19	1011	0.05	1.5	0.16	2.3	0.24	3.3	3.1	86	0.29	9.1	2.0	28	0.12	35.25	28.2	8.26	6.52	0.15
T5-50m	9/1/19	1117	0.12	3.7	0.29	4.0	0.07	1.0	0.9	24	0.43	13.4	3.3	46	0.09	35.20	27.5	8.21	6.71	0.10
T5-50m	1/1/20	1030	0.11	3.3	0.16	2.3	0.09	1.3	0.8	24	0.41	12.8	3.0	42	0.07	34.94	25.0	8.22	6.98	0.10
T5-50m	4/1/20	950	0.05	1.6	0.16	2.3	0.23	3.2	0.4	12	0.27	8.4	2.1	30	0.06	35.53	26.3	8.18	6.61	0.18
Geomean	FY '20		2.3		2.6		1.9				10.7		35		0.08					0.13

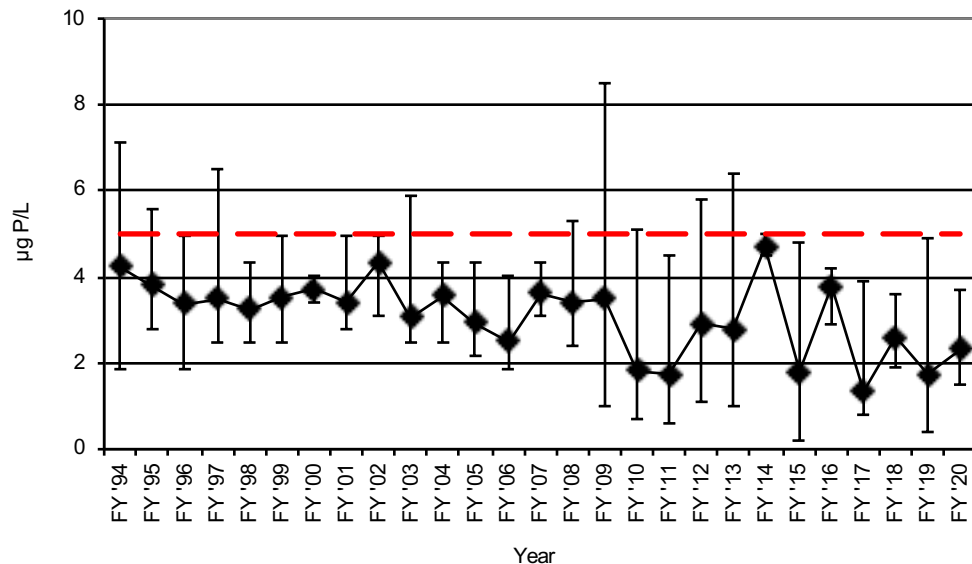
NELHA Water Quality Laboratory

Transect 5, Station 3

7/26/1993 - 7/16/20

NELHA Offshore Transect 5, Station 3

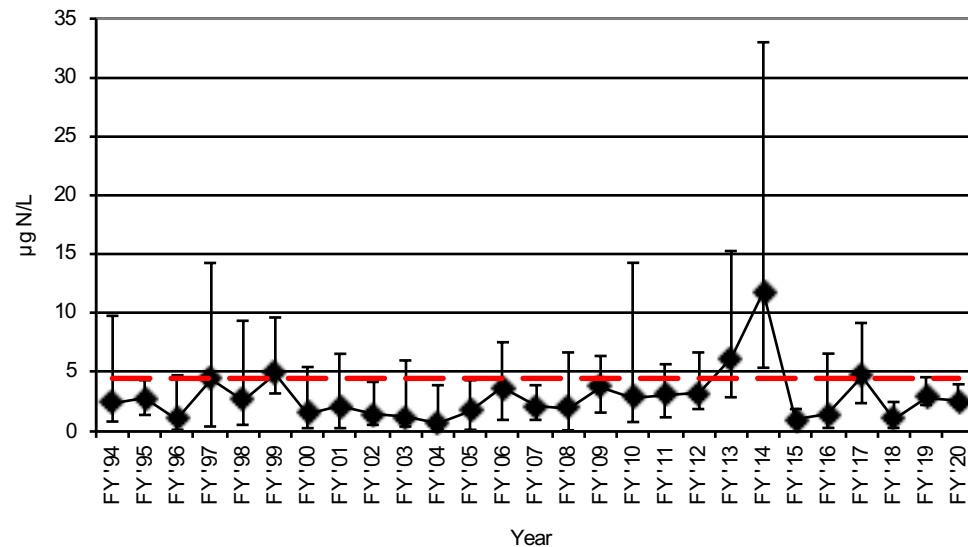
Yearly Geometric Mean of Ortho-Phosphate



Transect 5, Station 3 2014 HDOH Class AA Water Quality Standard

NELHA Offshore Transect 5, Station 3

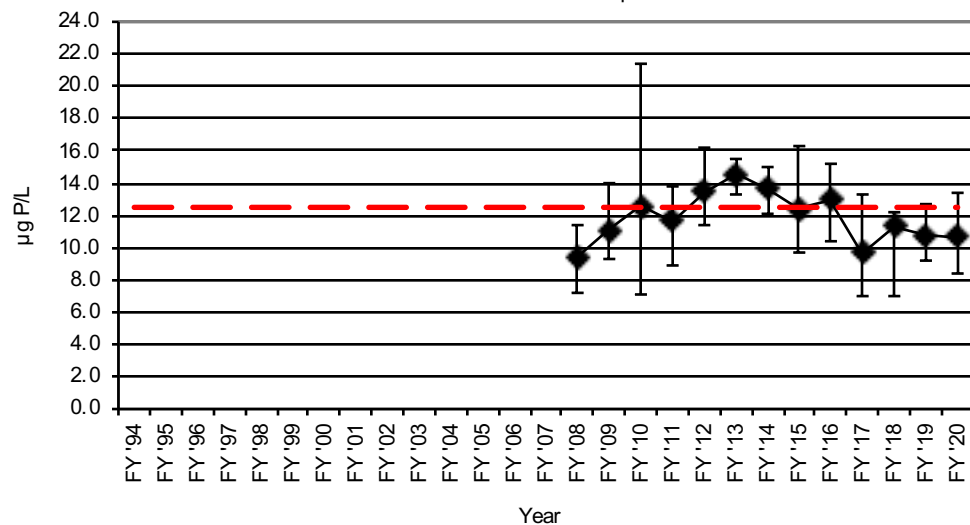
Yearly Geometric Mean of Nitrate + Nitrite



Transect 5, Station 3 2014 HDOH Class AA Water Quality Standard

NELHA Offshore Transect 5, Station 3

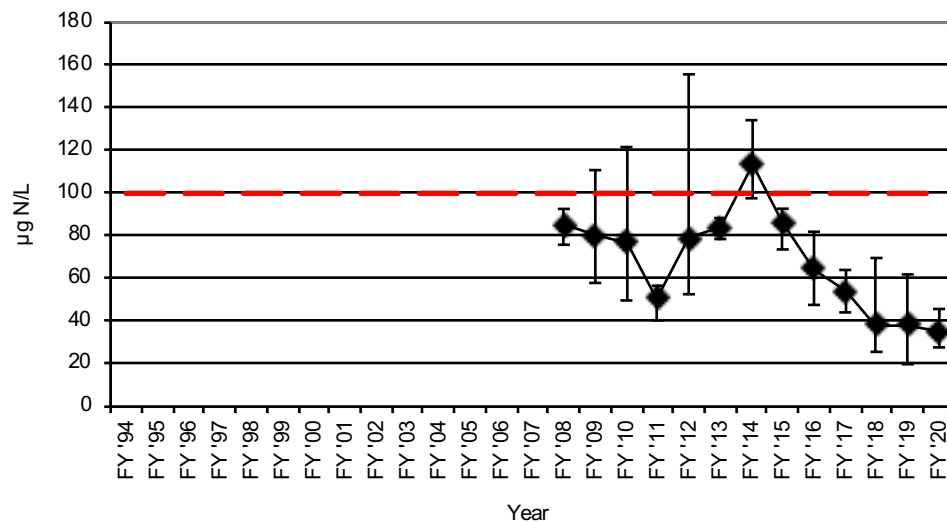
Yearly Geometric Mean of
Total Dissolved Phosphorous



Transect 5, Station 3 2014 HDOH Class AA Water Quality Standard

NELHA Offshore Transect 5, Station 3

Yearly Geometric Mean of
Total Dissolved Nitrogen



Transect 5, Station 3 2014 HDOH Class AA Water Quality Standard

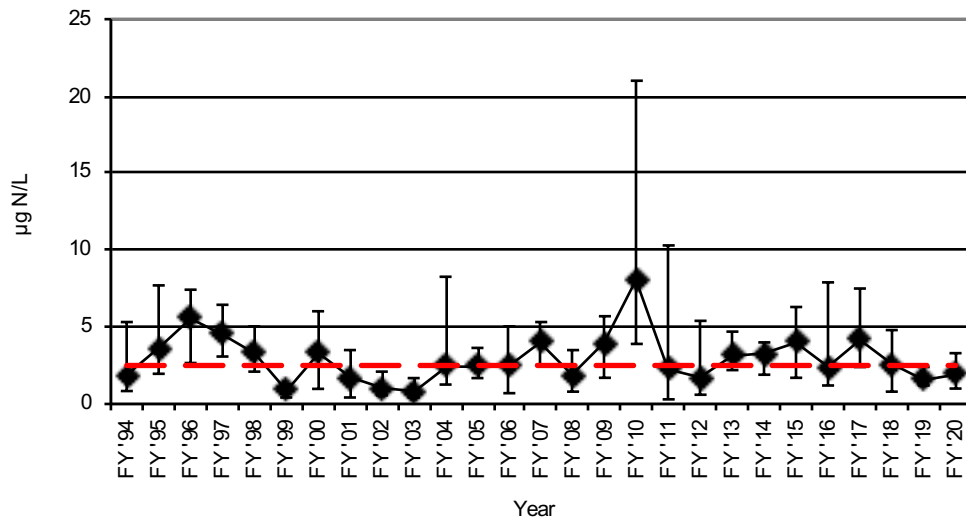
NELHA Water Quality Laboratory

Transect 5, Station 3

7/26/1993 - 7/16/20

NELHA Offshore Transect 5, Station 3

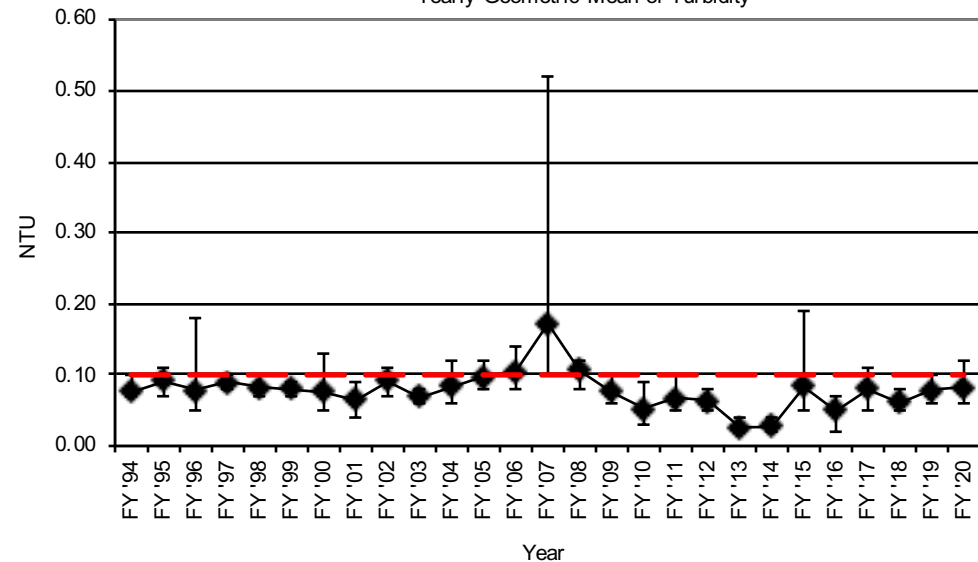
Yearly Geometric Mean of Total Ammonia



Transect 5, Station 3 2014 HDOH Class AA Water Quality Standard

NELHA Offshore Transect 5, Station 3

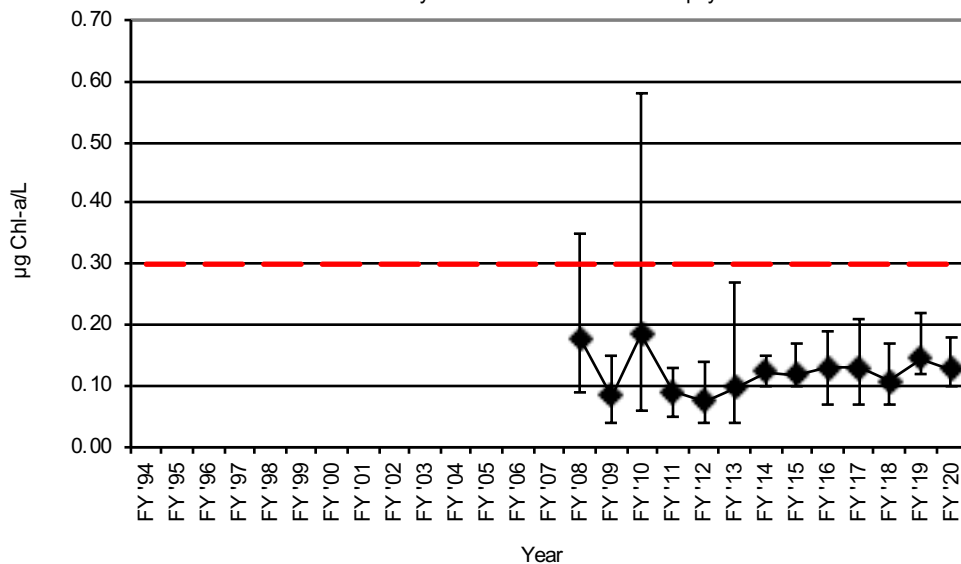
Yearly Geometric Mean of Turbidity



Transect 5, Station 3 2014 HDOH Class AA Water Quality Standard

NELHA Offshore Transect 5, Station 3

Yearly Geometric Mean of Chlorophyll-a



Transect 5, Station 3 2014 HDOH Class AA Water Quality Standard

NELHA Water Quality Laboratory

Transect 5, Station 4

7/26/1993 - 7/16/20

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		Turbidity	Salinity	Temp.	pH	DO	Chl a
	M/D/Y	(2400)	(µM)	(µg P/L)	(µM)	(µg N/L)	(µM)	(µg N/L)	(µM)	(µg Si/L)	(µM)	(µg P/L)	(µM)	(µg N/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O5-4S-53m	7/26/93	1020	0.11	3.4	0.13	1.8	0.38	5.3	3.3	93					0.08	34.417	26.8			
O5-4S-53m	12/6/93	1106	0.09	2.8	0.21	2.9	0.05	0.7	2.3	64					0.09	34.873	25.7			
O5-4S-53m	3/7/94	1017	0.23	7.1	0.59	8.3	0.26	3.6	5.1	142					0.07	34.164	25.1			
O5-4S-53m	6/15/94	1014	0.20	6.2	0.03	0.4	0.12	1.7	3.2	90					0.11	34.555	25.9			
Geomean 93	FY '94		4.5		2.1		2.2								0.09					
O5-4S-53m	9/9/94	1033	0.08	2.5	0.05	0.7	0.15	2.1	3.0	85					0.07	34.607	27.8			
O5-4S-53m	11/14/94	919	0.13	4.0	0.35	4.9	0.59	8.3	5.4	151					0.09	34.555	26.2			
O5-4S-53m	3/22/95	959	0.16	5.0	0.12	1.7	0.35	4.9	2.7	75					0.08	34.213	25.3			
O5-4S-53m	6/20/95	950	0.12	3.7	0.16	2.2	0.12	1.7	2.2	62					0.07	34.449	26.3			
Geomean	FY '95		3.7		1.9		3.5								0.08					
O5-4S-53m	9/28/95	831	0.06	1.9	0.07	1.0	0.49	6.9	1.6	45					0.08	34.605	27.2			
O5-4S-53m	11/14/95	941	0.09	2.8	0.07	1.0	0.49	6.9	1.4	40					0.07	34.352	26.8			
O5-4S-53m	3/12/96	1014	0.15	4.6	0.23	3.2	0.56	7.8	4.3	119					0.08	34.151	25.6			
O5-4S-53m	5/14/96	1012	0.10	3.1	0.27	3.8	0.16	2.2	4.7	131					0.08	34.258	27.2			
Geomean	FY '96		2.9		1.8		5.4								0.08					
O5-4S-53m	7/31/96	1042	0.09	2.8	0.71	9.9	0.50	7.0	8.5	239					0.12	34.263	27.8			
O5-4S-53m	10/2/96	1010	0.09	2.8	0.04	0.6	0.33	4.6	3.4	95					0.09	34.626	28.1			
O5-4S-53m	1/7/97	1011	0.13	4.0	1.20	16.8	0.22	3.1	8.3	232					0.12	34.496	25.6			
O5-4S-53m	4/28/97	1033	0.18	5.6	0.84	11.8	0.39	5.5	9.7	271					0.14	34.203	26.7			
Geomean	FY '97		3.6		5.8		4.8								0.12					
O5-4S-53m	8/19/97	1017	0.12	3.7	0.83	11.6	0.29	4.1	7.4	209					0.11	34.513	27.0			
O5-4S-53m	10/7/97	916	0.11	3.4	0.09	1.3	0.33	4.6	2.6	73					0.09	34.738	27.6			
O5-4S-53m	3/4/98	1018	0.14	4.3	0.78	10.9	0.23	3.2	12.7	358					0.08	34.891	25.0			
O5-4S-53m	5/5/98	1026	0.07	2.2	0.05	0.7	0.22	3.1	2.4	68					0.06	35.090	24.2			
Geomean	FY '98		3.3		3.3		3.7								0.08					
O5-4S-53m	7/7/98	1051	0.12	3.7	0.49	6.9	0.02	0.3	12.0	336					0.12	34.859	26.3			
O5-4S-53m	10/6/98	1000	0.11	3.4	0.29	4.1	0.11	1.5	4.0	113					0.10	35.088	27.1			
O5-4S-53m	1/19/99	1035	0.08	2.5	0.17	2.4	0.05	0.7	3.9	110					0.08	35.102	25.4			
O5-4S-53m	4/13/99	1117	0.16	5.0	0.64	9.0	0.07	1.0	8.8	248					0.08	34.486	24.5			
Geomean	FY '99		3.5		4.9		0.7								0.09					

NELHA Water Quality Laboratory

Transect 5, Station 4

7/26/1993 - 7/16/20

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		Turbidity	Salinity	Temp.	pH	DO	Chl a
	M/D/Y	(2400)	(µM)	(µg P/L)	(µM)	(µg N/L)	(µM)	(µg N/L)	(µM)	(µg Si/L)	(µM)	(µg P/L)	(µM)	(µg N/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O5-4S-53m	8/16/99	1050	0.13	4.0	0.21	2.9	0.42	5.9	3.1	87					0.15	34.832	26.4			
O5-4S-53m	10/25/99	1138	0.13	4.0	0.45	6.3	0.35	4.9	21.5	605					0.08	34.826	26.4			
O5-4S-53m	1/12/00	1038	0.11	3.4	0.01	0.1	0.29	4.1	7.3	206					0.07	35.131	25.0			
O5-4S-53m	4/11/00	946	0.11	3.4	0.14	2.0	0.08	1.1	3.8	108					0.06	34.825	24.5			
Geomean	FY '00		3.7		1.5		3.4								0.08					
O5-4S-53m	7/25/00	1054	0.11	3.4	0.15	2.1	0.05	0.7	3.6	101					0.07	34.848	26.8			
O5-4S-53m	10/31/00	1040	0.09	2.8	0.03	0.4	0.22	3.1	4.7	131					0.05	34.970	27.1			
O5-4S-53m	3/6/01	1029	0.15	4.6	0.39	5.5	0.12	1.7	4.5	127					0.08	34.668	24.9			
O5-4S-53m	5/8/01	1125	0.10	3.1	0.33	4.6	0.25	3.5	6.0	169					0.07	34.695	25.0			
Geomean	FY '01		3.4		2.2		1.9								0.07					
O5-4S-53m	8/13/01	923	0.10	3.1	0.03	0.4	0.17	2.4	2.4	68					0.10	34.858	26.6			
O5-4S-53m	10/10/01	1034	0.17	5.3	0.14	2.0	0.04	0.6	3.5	98					0.14	34.918	27.5			
O5-4S-53m	3/6/02	948	0.14	4.3	0.18	2.5	0.06	0.8	6.4	179					0.12	34.669	24.2			
O5-4S-53m	4/15/02	952	0.13	4.0	0.43	6.0	0.05	0.7	4.4	124					0.07	34.433	25.6			
Geomean	FY '02		4.1		1.9		0.9								0.10					
O5-4S-53m	7/10/02	949	0.18	5.6	0.03	0.4	0.09	1.3	2.3	64					0.10	34.700	26.6			
O5-4S-53m	10/8/02	956	0.06	1.9	0.45	6.3	0.12	1.7	4.1	114					0.07	34.870	27.1			
O5-4S-53m	3/11/03	1120	0.06	1.9	0.07	1.0	0.03	0.4	3.1	87					0.10	34.709	25.2			
O5-4S-53m	4/23/03	951	0.08	2.5	0.03	0.4	0.03	0.4	0.9	26					0.07	35.037	25.0			
Geomean	FY '03		2.6		1.0		0.8								0.08					
O5-4S-53m	8/21/03	939	0.07	2.2	0.01	0.1	0.10	1.4	1.9	54					0.08	34.843	28.2			
O5-4S-53m	11/3/03	910	0.12	3.7	0.01	0.1	0.10	1.4	2.2	63					0.10	34.627	29.3			
O5-4S-53m	3/18/04	940	0.13	4.0	0.14	2.0	0.27	3.8	2.8	78					n/a	34.383	25.7			
O5-4S-53m	5/24/04	1009	0.17	5.3	0.30	4.2	0.14	2.0	4.1	116					n/a	33.36	26.8			
Geomean	FY '04		3.6		0.6		2.0								0.09					
O5-4S-53m	9/22/04	1043	0.07	2.2	0.01	0.1	0.28	3.9	3.0	83					0.06	33.76	27.5			
O5-4S-53m	11/29/04	947	0.10	3.1	0.26	3.6	0.16	2.2	2.1	59					0.08	33.74	27.1			
O5-4S-53m	1/24/05	1024	0.09	2.8	0.51	7.1	0.13	1.8	5.7	159					0.08	34.841	25.6			
O5-4S-53m	4/13/05	1027	0.12	3.7	0.16	2.2	0.18	2.5	2.8	79					0.09	34.444	23.5			
Geomean	FY '05		2.9		1.7		2.5								0.08					

NELHA Water Quality Laboratory

Transect 5, Station 4

7/26/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O5-4S-53m	7/21/05	942	0.05	1.5	0.24	3.4	0.36	5.0	3.8	107					0.11	34.663	27.4			
O5-4S-53m	10/13/05	927	0.05	1.5	0.09	1.3	0.16	2.2	2.4	67					0.11	34.862	27.3			
O5-4S-53m	3/15/06	839	0.08	2.5	0.07	1.0	0.27	3.8	3.0	85					0.12	34.851	24.3			
O5-4S-53m	5/17/06	932	0.13	4.0	0.85	11.9	0.05	0.7	7.8	220					0.08	34.496	24.7			
Geomean	FY '06		2.2		2.7		2.3								0.10					
O5-4S-53m	8/16/06	942	0.11	3.4	0.28	3.9	0.31	4.3	3.1	86					0.11	34.618	26.8			
O5-4S-53m	11/20/06	939	0.10	3.1	0.20	2.8	0.23	3.2	2.1	60					0.14	34.804	26.6			
O5-4S-53m	2/12/07	1031	0.13	4.0	0.16	2.2	0.49	6.9	0.8	21					0.13	34.436	24.5			
O5-4S-53m	4/16/07	1024	0.15	4.6	1.09	15.3	0.50	7.0	11.0	309					0.18	34.406	26.0			
Geomean	FY '07		3.7		4.4		5.1								0.14					
T5-100m	9/27/07	900	0.16	5.0	0.26	3.6	0.19	2.6	15.1	424	0.16	5.0	6.0	84	0.08	34.916	26.8	8.06	6.04	0.14
T5-100m	12/14/07	950	0.07	2.3	0.01	0.1			3.0	85	0.16	5.1	5.3	74	0.09	34.881	25.7	8.23	6.48	0.15
T5-100m	3/11/08	1001	0.12	3.6	0.79	11.1	0.06	0.8	13.7	386	0.10	3.1	6.4	90	0.11	34.695	24.8	8.09	6.71	0.36
T5-100m	6/9/08	1035	0.09	2.8	0.20	2.8	0.16	2.2	17.9	502	0.28	8.8	5.1	72	0.14	34.6419	25.3	8.11	5.62	0.23
Geomean	FY '08		3.3		1.8		1.7				5.1		80		0.10					0.20
T5-100m	9/23/08	1122	0.04	1.2	0.07	1	0.33	4.6	2.3	64	0.34	10.5	5.2	73	0.08	34.830	26.6	8.06	5.81	0.06
T5-100m	12/8/08	1036	0.15	4.8	0.26	3.7	0.27	3.8	1.8	51	0.33	10.2	5.0	70	0.05	34.983	26.0	8.30	5.10	0.08
T5-100m	2/10/09	927	0.16	5	0.10	1.4	0.12	1.7	1.7	47	0.36	11.3	10.7	150	0.07	35.129	24.7	8.07	6.01	0.02
T5-100m	6/30/09	1020	0.25	7.7	0.33	4.6	0.12	1.7	7.0	197	0.43	13.4	5.8	81	0.05	34.909	26.7	8.20	5.67	0.07
Geomean	FY '09		3.9		2.2		2.7				11.3		89		0.06					0.05
T5-100m	9/10/09	1022	0.11	3.4	0.07	1	0.13	1.8	4.2	119	0.50	15.5	5.3	74	0.06	35.24	27.4	8.21	5.56	0.29
T5-100m	11/24/09	948	0.02	0.766	0.19	2.6	0.11	1.6	8.9	250	0.33	10.3	4.2	60	0.04	35.27	25.2	8.24	6.51	0.1
T5-100m	2/24/10	1021	0.18	5.6	0.82	11.5	0.30	4.2	7.2	202	0.45	13.9	8.4	117	0.11	35.11	24.7	8.22	5.44	0.49
T5-100m	5/25/10	938	0.02	0.7	0.06	0.9	0.51	7.2	1.8	51	0.24	7.3	5.2	74	0.06	34.80	25.2	8.27	6.67	0.02
Geomean	FY '10		1.8		2.3		3.1				11.3		79		0.06					0.13
T5-100m	8/11/10	955	0.01	0.4	0.06	0.9	0.01	0.2	1.6	46	0.29	9.1	2.8	39	0.05	34.97	26.04	8.23	6.70	0.13
T5-100m	11/9/10	952	0.02	0.766	0.19	2.6	0.11	1.6	8.9	250	0.33	10.3	4.2	60	0.09	34.95	26.45	8.29	6.25	0.03
T5-100m	1/11/11	1225	0.18	5.6	1.45	20.3	0.29	4.0	10.2	286	0.43	13.4	3.9	55	0.04	34.66	25.06	8.18	6.57	0.08
T5-100m	4/27/11	1001	0.15	4.8	0.46	6.5	0.25	3.5	6.2	175	0.51	15.8	4.0	57	0.09	34.86	25.10	8.22	6.23	0.10
Geomean	FY '11		1.7		4.2		1.5				11.9		52		0.06					0.07

NELHA Water Quality Laboratory

Transect 5, Station 4

7/26/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
T5-100m	7/27/11	1045	0.19	5.8	0.39	5.4	0.15	2.1	3.4	95	0.49	15.1	3.9	55	0.10	34.76	26.07	8.22	6.33	0.09
T5-100m	10/19/11	1024	0.03	0.9	0.02	0.3	0.01	0.1	2.7	76	0.42	13.1	5.1	72	0.08	35.12	26.41	8.26	7.04	0.09
T5-100m	1/26/12	951	0.06	1.9	0.12	1.7	0.06	0.8	2.4	68	0.41	12.6	4.9	69	0.06	35.02	24.45	8.19	6.56	0.07
T5-100m	4/25/12	1017	0.14	4.4	0.08	1.1	0.22	3.1	0.8	23	0.56	17.5	7.1	99	0.05	34.85	24.90	8.19	6.64	0.06
Geomean	FY '12		2.6		1.3		0.8				14.5		72		0.07					0.08
T5-100m	7/25/12	1005	0.02	0.6	0.09	1.2	0.12	1.7	2.0	56	0.48	14.9	6.0	84	0.12	35.02	26.42	8.24	6.83	0.14
T5-100m	11/28/12	1006	0.07	2.3	0.03	0.4	0.16	2.3	1.4	39	0.37	11.6	5.1	71	0.05	35.29	25.38	8.21	6.78	0.19
T5-100m	1/24/13	954	0.10	3	0.51	7.2	0.04	0.6	4.1	116	0.47	14.5	5.1	72	0.03	35.00	24.75	8.20	6.25	0.16
T5-100m	4/17/13	1108	0.20	6.1	0.86	12	0.27	3.8	4.9	137	0.57	17.6	6.2	87	0.02	35.04	25.19	8.20	6.43	0.05
Geomean	FY '13		2.2		2.5		1.7				14.5		78		0.04					0.12
T5-100m	8/6/13	1045	0.06	1.9	0.22	3.1	0.06	0.9	2.5	71	0.35	10.9	5.6	79	0.03	35.23	26.6	8.26	6.92	0.11
T5-100m	10/30/13	947	0.13	3.9	0.10	1.4	0.12	1.7	1.2	35	0.57	17.6	6.3	88	0.02	34.94	27.1	8.22	6.05	0.06
T5-100m	2/5/14	1014	0.14	4.4	0.44	6.1	0.34	4.8	3.6	100	0.57	17.8	6.5	91	0.02	34.94	25.2	8.20	6.23	0.13
T5-100m	5/7/14	1009	0.13	4.0	0.91	12.8	0.15	2.1	6.1	170	0.44	13.7	7.2	101	0.02	34.67	25.7	8.20	5.43	0.18
Geomean	FY '14		3.4		4.3		2.0				14.7		89		0.02					0.11
T5-100m	8/6/14	1000	0.16	4.9	0.01	0.2	0.35	4.9	0.6	17	0.48	15.0	6.2	88	0.08	34.96	26.9	8.23	6.07	0.06
T5-100m	12/4/14	1034	0.10	3.2	0.04	0.6	0.51	7.1	0.4	13	0.46	14.1	6.3	88	0.05	35.25	26.4	8.26	6.25	0.19
T5-100m	3/5/15	1035	0.02	0.7	0.09	1.3	0.15	2.1	0.6	16	0.32	9.8	6.4	89	0.10	34.75	25.3	8.30	6.82	0.12
T5-100m	6/18/15	1006	0.11	3.5	0.64	9.0	0.46	6.5	4.3	121	0.31	9.5	5.8	81	0.04	34.37	26.7	8.18	6.52	0.19
Geomean	FY '15		2.5		1.1		4.7				11.8		86		0.06					0.13
T5-100m	8/27/15	1012	0.13	4.1	0.01	0.1	0.21	3.0	1.3	36	0.35	10.9	4.4	61	0.02	34.66	28.6	8.27	5.94	0.17
T5-100m	11/18/15	1039	0.13	3.9	0.36	5.0	0.23	3.2	3.7	103	0.48	15.0	4.9	68	0.07	34.65	27.4	8.27	6.69	0.10
T5-100m	3/2/16	923	0.12	3.6	0.20	2.8	0.44	6.2	0.2	6	0.43	13.2	3.7	52	0.07	34.68	25.3	8.24	5.81	0.07
T5-100m	5/4/16	1019	0.05	1.5	0.02	0.3	0.14	2.0	0.0	0	0.47	14.7	7.0	98	0.08	34.71	25.9	8.18	6.16	0.18
Geomean	FY '16		3.0		0.8		3.3				13.3		68		0.05					0.12
T5-100m	7/7/16	1021	0.11	3.4	0.64	9.0	0.36	5.0	2.7	75	0.42	13.0	4.5	63	0.09	34.60	27.0	8.31	6.62	0.19
T5-100m	12/21/16	1035	0.04	1.2	0.16	2.2	0.38	5.3	1.6	45	0.34	10.4	5.4	75	0.03	34.64	25.5	8.27	5.87	0.17
T5-100m	3/1/17	1122	0.02	0.6	0.31	4.4	0.17	2.4	1.4	41	0.30	9.4	5.2	73	0.10	34.73	24.6	8.24	5.78	0.18
T5-100m	5/10/17	1118	0.05	1.4	0.19	2.6	0.46	6.4	1.4	38	0.24	7.4	3.0	42	0.08	34.83	25.8	8.22	4.12	0.10
Geomean	FY '17		1.4		3.9		4.5				9.8		62		0.07					0.16

NELHA Water Quality Laboratory

Transect 5, Station 4

7/26/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
T5-100m	9/28/17	1014	0.11	3.3	0.06	0.8	0.11	1.5	0.5	14	0.39	12.0	3.0	41	0.06	34.84	27.8	8.18	4.71	0.12
T5-100m	11/30/17	1001	0.07	2.1	0.11	1.6	0.33	4.6	1.2	33	0.35	10.9	3.2	45	0.06	35.23	26.6	8.24	5.65	0.13
T5-100m	2/6/18	1044	0.07	2.3	0.04	0.6	0.42	5.9	1.0	29	0.32	9.9	1.9	26	0.08	34.86	24.9	8.16	5.74	0.07
T5-100m	5/17/18	1016	0.07	2.3	0.09	1.2	0.16	2.2	1.1	30	0.36	11.2	1.6	23	0.05	34.89	26.3	8.17	6.26	0.05
Geomean	FY '18		2.5		1.0		3.1				11.0		32		0.06					0.09
T5-100m	9/26/18	1302	0.01	0.3	0.16	2.3	0.34	4.7	0.3	8	0.32	9.9	2.4	34	0.09	34.73	27.6	8.16	4.75	0.11
T5-100m	11/14/18	1107	0.05	1.6	0.11	1.6	0.39	5.5	0.0	1	0.34	10.4	3.3	46	0.07	34.90	27.3	8.20	6.01	0.16
T5-100m	1/23/19	1053	0.08	2.4	0.16	2.3	0.09	1.2	1.2	34	0.35	10.9	2.1	29	0.06	34.94	24.9	8.19	4.99	0.23
T5-100m	4/17/19	1045	0.14	4.2	0.24	3.3	0.23	3.2	0.9	25	0.38	11.8	2.4	34	0.04	34.74	25.7	8.12	6.87	0.10
Geomean	FY '19		1.5		2.3		3.2				10.7		35		0.06					0.14
T5-100m	7/1/19	1017	0.04	1.3	0.16	2.3	0.51	7.1	3.9	108	0.29	9.1	2.6	37	0.09	35.25	28.2	8.26	6.46	0.17
T5-100m	9/1/19	1122	0.12	3.8	0.21	3.0	0.38	5.3	1.1	30	0.42	12.9	2.9	40	0.09	35.16	27.5	8.21	6.76	0.12
T5-100m	1/1/20	1035	0.09	2.7	0.16	2.3	0.09	1.3	0.0	0	0.41	12.7	2.4	34	0.08	34.98	25.0	8.21	6.69	0.11
T5-100m	4/1/20	955	0.03	0.8	0.16	2.3	0.25	3.5	0.4	12	0.28	8.7	2.1	30	0.06	35.53	26.3	8.18	6.57	0.20
Geomean	FY '20		1.8		2.4		3.6				10.7		35		0.08					0.15

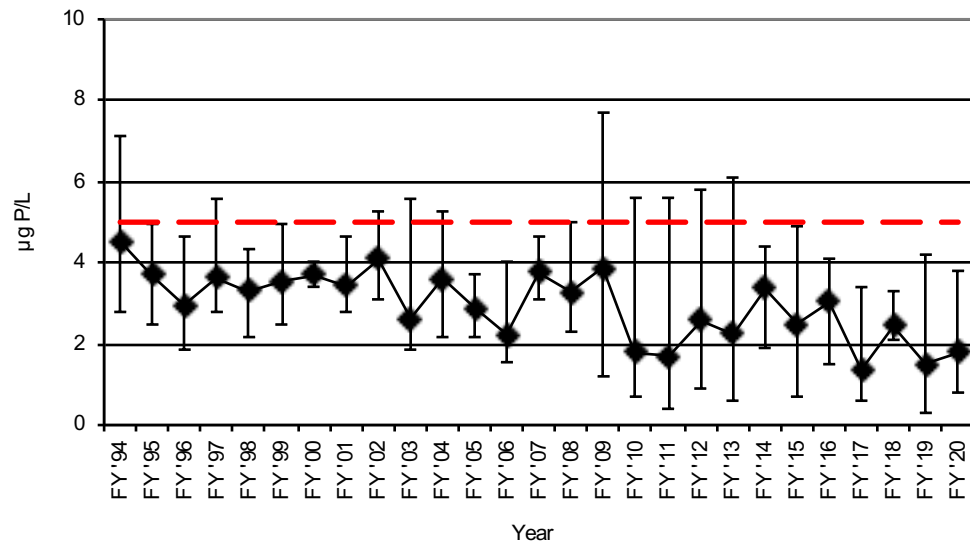
NELHA Water Quality Laboratory

Transect 5, Station 4

7/26/1993 - 7/16/20

NELHA Offshore Transect 5, Station 4

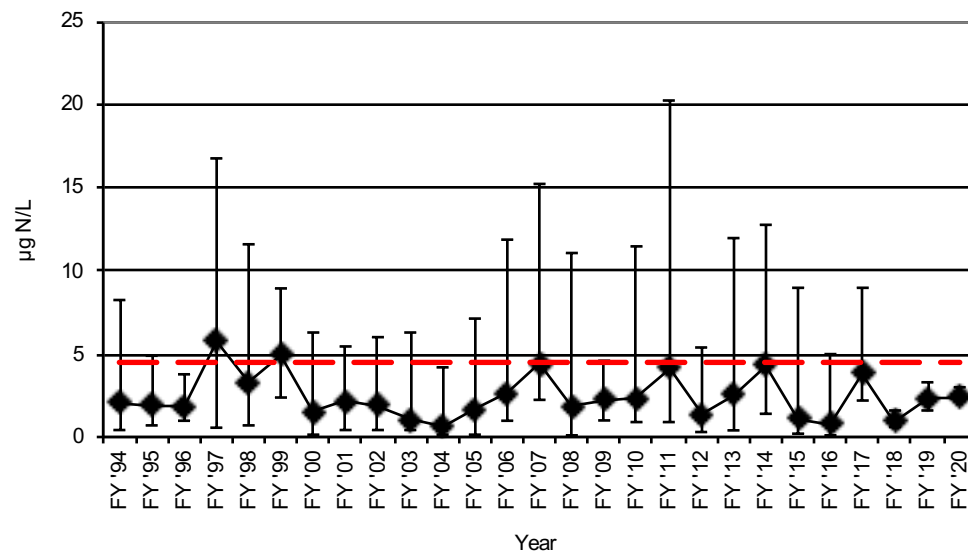
Yearly Geometric Mean of Ortho-Phosphate



Transect 5, Station 4 2014 HDOH Class AA Water Quality Standard

NELHA Offshore Transect 5, Station 4

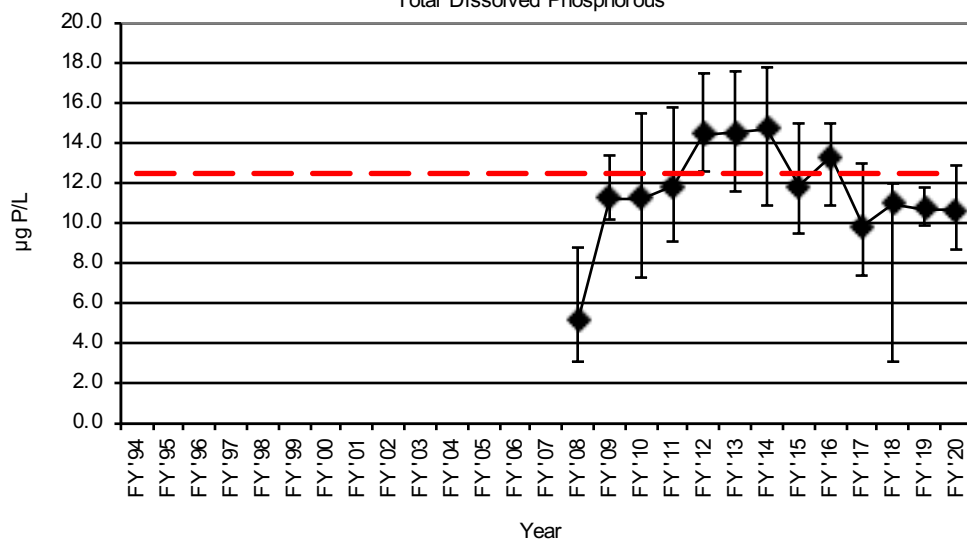
Yearly Geometric Mean of Nitrate + Nitrite



Transect 5, Station 4 2014 HDOH Class AA Water Quality Standard

NELHA Offshore Transect 5, Station 4

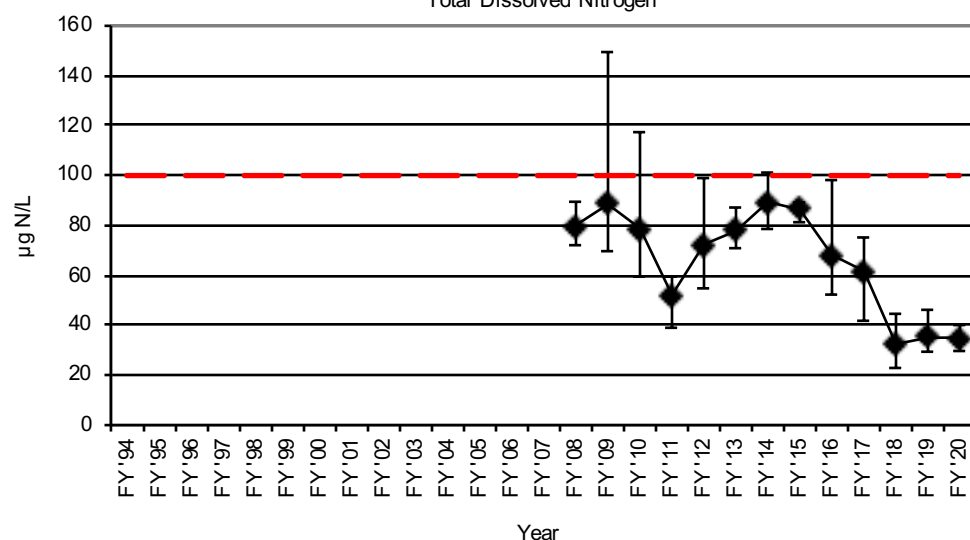
Yearly Geometric Mean of
Total Dissolved Phosphorous



Transect 5, Station 4 2014 HDOH Class AA Water Quality Standard

NELHA Offshore Transect 5, Station 4

Yearly Geometric Mean of
Total Dissolved Nitrogen



Transect 5, Station 4 2014 HDOH Class AA Water Quality Standard

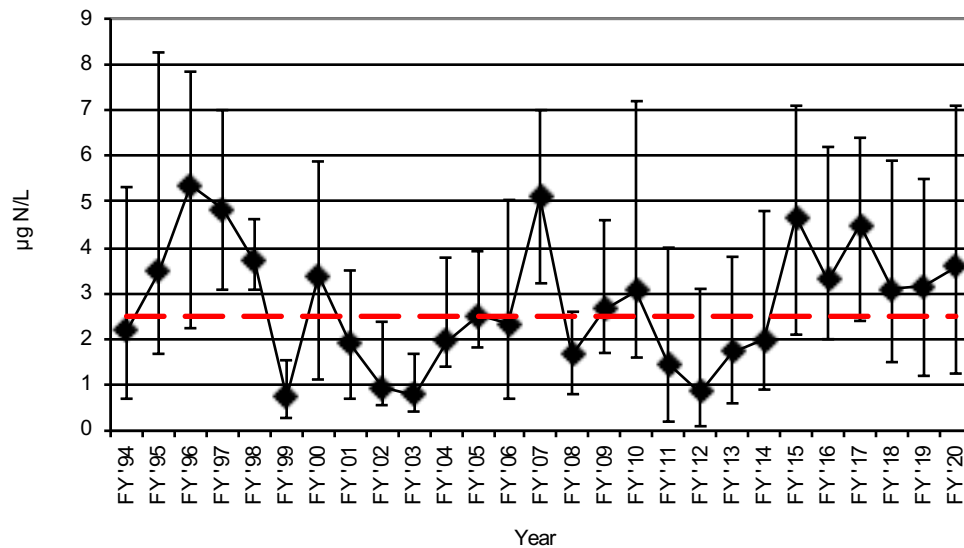
NELHA Water Quality Laboratory

Transect 5, Station 4

7/26/1993 - 7/16/20

NELHA Offshore Transect 5, Station 4

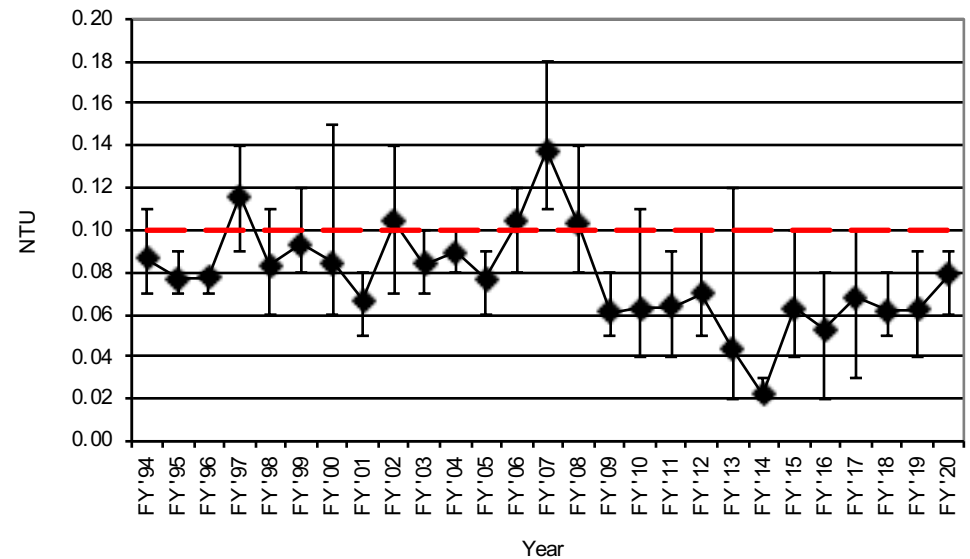
Yearly Geometric Mean of Total Ammonia



Transect 5, Station 4 2014 HDOH Class AA Water Quality Standard

NELHA Offshore Transect 5, Station 4

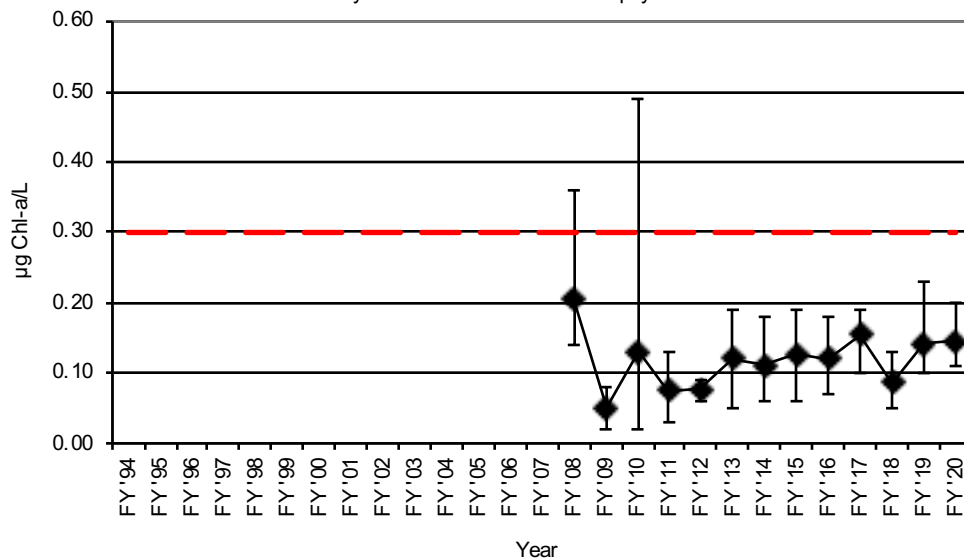
Yearly Geometric Mean of Turbidity



Transect 5, Station 4 2014 HDOH Class AA Water Quality Standard

NELHA Offshore Transect 5, Station 4

Yearly Geometric Mean of Chlorophyll-a



Transect 5, Station 4 2014 HDOH Class AA Water Quality Standard

NELHA Water Quality Laboratory

Transect 5, Station 5

7/26/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (μM) (μg P/L)		TDN (μM) (μg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (μg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O5-5S-69m	7/26/93	1031	0.11	3.4	0.13	1.8	0.45	6.3	3.2	90					0.08	34.418	26.9			
O5-5S-69m	12/6/93	1057	0.09	2.8	0.17	2.4	0.05	0.7	2.0	57					0.07	34.871	25.7			
O5-5S-69m	3/7/94	1010	0.20	6.2	0.19	2.7	0.26	3.6	2.5	70					0.07	34.275	25.0			
O5-5S-69m	6/15/94	1011	0.20	6.2	0.06	0.8	0.05	0.7	2.1	59					0.13	34.562	25.7			
Geomean	FY '94		4.4		1.8		1.8								0.08					
O5-5S-69m	9/9/94	1023	0.07	2.2	0.06	0.8	0.15	2.1	2.4	66					0.07	34.606	27.8			
O5-5S-69m	11/14/94	915	0.14	4.3	0.24	3.4	0.59	8.3	3.8	106					0.07	34.596	26.1			
O5-5S-69m	3/22/95	957	0.16	5.0	0.13	1.8	0.35	4.9	3.2	89					0.08	34.211	25.2			
O5-5S-69m	6/20/95	947	0.12	3.7	0.11	1.5	0.09	1.3	2.2	62					0.07	34.464	26.3			
Geomean	FY '95		3.6		1.7		3.2								0.07					
O5-5S-69m	9/28/95	841	0.06	1.9	0.07	1.0	0.42	5.9	2.0	56					0.16	34.606	27.2			
O5-5S-69m	11/14/95	936	0.09	2.8	0.07	1.0	0.45	6.3	1.9	53					0.04	34.350	26.9			
O5-5S-69m	3/12/96	1009	0.15	4.6	0.26	3.6	0.58	8.1	4.0	112					0.05	34.140	25.5			
O5-5S-69m	5/14/96	1006	0.13	4.1	0.09	1.3	0.16	2.2	2.6	74					0.07	34.317	27.3			
Geomean	FY '96		3.1		1.4		5.1								0.07					
O5-5S-69m	7/31/96	1038	0.08	2.5	0.75	10.5	0.50	7.0	9.5	268					0.10	34.238	27.9			
O5-5S-69m	10/2/96	1005	0.08	2.5	0.06	0.8	0.32	4.5	3.2	89					0.11	34.633	28.1			
O5-5S-69m	1/7/97	1006	0.12	3.7	0.82	11.5	0.22	3.1	7.3	206					0.09	34.570	25.5			
O5-5S-69m	4/28/97	1027	0.20	6.2	0.80	11.2	0.43	6.0	12.3	346					0.12	34.202	26.6			
Geomean	FY '97		3.4		5.8		4.9								0.10					
O5-5S-69m	8/19/97	1010	0.12	3.7	0.48	6.7	0.28	3.9	11.0	309					0.12	34.577	27.0			
O5-5S-69m	10/7/97	911	0.10	3.1	0.03	0.4	0.31	4.3	4.0	113					0.10	34.746	27.6			
O5-5S-69m	3/4/98	1010	0.12	3.7	0.63	8.8	0.23	3.2	6.5	183					0.09	34.914	25.0			
O5-5S-69m	5/5/98	1019	0.07	2.2	0.02	0.3	0.19	2.7	2.8	78					0.08	35.095	24.3			
Geomean	FY '98		3.1		1.6		3.5								0.10					
O5-5S-69m	7/7/98	1045	0.12	3.7	0.69	9.7	0.01	0.1	18.0	506					0.11	34.791	26.3			
O5-5S-69m	10/6/98	955	0.12	3.7	0.45	6.3	0.06	0.8	5.1	142					0.08	35.041	27.0			
O5-5S-69m	1/19/99	1030	0.07	2.2	0.01	0.1	0.05	0.7	4.4	123					0.07	35.141	25.3			
O5-5S-69m	4/13/99	1111	0.16	5.0	0.58	8.1	0.08	1.1	8.4	237					0.08	34.514	24.5			
Geomean	FY '99		3.5		2.9		0.6								0.08					

NELHA Water Quality Laboratory

Transect 5, Station 5

7/26/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (μM) (μg P/L)		TDN (μM) (μg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (μg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O5-5S-69m	8/16/99	1042	0.12	3.7	0.14	2.0	0.46	6.4	5.7	159					0.09	34.852	26.5			
O5-5S-69m	10/25/99	1134	0.10	3.1	0.29	4.1	0.35	4.9	5.8	163					0.08	34.864	26.4			
O5-5S-69m	1/12/00	1029	0.12	3.7	0.02	0.3	0.31	4.3	9.9	277					0.05	35.117	24.9			
O5-5S-69m	4/11/00	941	0.12	3.7	0.17	2.4	0.06	0.8	4.3	121					0.07	34.821	24.5			
Geomean	FY '00		3.6		1.5		3.3								0.07					
O5-5S-69m	7/25/00	1048	0.10	3.1	0.15	2.1	0.05	0.7	3.7	103					0.07	34.853	26.7			
O5-5S-69m	10/31/00	1034	0.09	2.8	0.02	0.3	0.25	3.5	2.3	63					0.09	34.957	27.2			
O5-5S-69m	3/6/01	1022	0.15	4.6	0.31	4.3	0.10	1.4	4.7	131					0.08	34.692	24.9			
O5-5S-69m	5/8/01	1122	0.11	3.4	0.41	5.7	0.25	3.5	7.2	202					0.09	34.672	25.0			
Geomean	FY '01		3.4		2.0		1.9								0.08					
O5-5S-69m	8/13/01	918	0.11	3.4	0.10	1.4	0.20	2.8	3.7	105					0.16	34.828	26.6			
O5-5S-69m	10/10/01	1027	0.13	4.0	0.04	0.6	0.01	0.1	3.8	107					0.06	34.948	27.6			
O5-5S-69m	3/6/02	944	0.14	4.3	0.17	2.4	0.06	0.8	4.6	128					0.05	34.657	24.2			
O5-5S-69m	4/15/02	945	0.14	4.3	0.29	4.1	0.03	0.4	5.8	162					0.07	34.438	25.5			
Geomean	FY '02		4.0		1.7		0.6								0.08					
O5-5S-69m	7/10/02	942	0.16	5.0	0.03	0.4	0.12	1.7	2.0	55					0.06	34.698	26.5			
O5-5S-69m	10/8/02	949	0.06	1.9	0.15	2.1	0.09	1.3	2.1	58					0.08	34.936	27.1			
O5-5S-69m	3/11/03	1111	0.07	2.2	0.03	0.4	0.03	0.4	2.4	69					0.08	34.699	25.3			
O5-5S-69m	4/23/03	946	0.09	2.8	0.03	0.4	0.03	0.4	2.9	81					0.09	35.027	25.1			
Geomean	FY '03		2.7		0.6		0.8								0.08					
O5-5S-69m	8/21/03	931	0.09	2.8	0.01	0.1	0.10	1.4	2.0	57					0.08	34.830	28.3			
O5-5S-69m	11/3/03	900	0.12	3.7	0.01	0.1	0.05	0.7	2.3	65					0.10	34.602	27.1			
O5-5S-69m	3/18/04	928	0.10	3.1	0.14	2.0	0.27	3.8	1.8	50					n/a	34.413	25.8			
O5-5S-69m	5/24/04	1004	0.15	4.6	0.42	5.9	0.20	2.8	5.7	159					n/a	n/a	26.8			
Geomean	FY '04		3.5		0.7		1.8								0.09					
O5-5S-69m	9/22/04	1038	0.07	2.2	0.01	0.1	0.28	3.9	1.7	48					0.08	33.73	27.5			
O5-5S-69m	11/29/04	943	0.08	2.5	0.18	2.5	0.16	2.2	1.6	45					0.04	33.75	27.1			
O5-5S-69m	1/24/05	1018	0.10	3.1	0.45	6.3	0.16	2.2	5.5	153					0.10	34.717	25.6			
O5-5S-69m	4/13/05	1021	0.12	3.7	0.11	1.5	0.13	1.8	7.2	202					0.10	34.449	25.4			
Geomean	FY '05		2.8		1.4		2.4								0.08					

NELHA Water Quality Laboratory

Transect 5, Station 5

7/26/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O5-5S-69m	7/21/05	936	0.06	1.9	0.50	7.0	0.35	4.9	5.7	160					0.13	34.586	27.3			
O5-5S-69m	10/13/05	921	0.05	1.5	0.11	1.5	0.18	2.5	5.2	147					0.11	34.842	27.1			
O5-5S-69m	3/15/06	843	0.09	2.8	0.07	1.0	0.35	4.9	1.7	48					0.07	34.861	24.5			
O5-5S-69m	5/17/06	927	0.13	4.0	0.69	9.7	0.05	0.7	8.0	225					0.10	34.579	24.7			
Geomean	FY '06		2.4		3.2		2.6								0.10					
O5-5S-69m	8/16/06	938	0.11	3.4	0.34	4.8	0.27	3.8	3.1	86					0.08	34.624	26.8			
O5-5S-69m	11/20/06	933	0.11	3.4	0.19	2.7	0.33	4.6	2.0	56					0.12	34.764	26.7			
O5-5S-69m	2/12/07	1022	0.16	5.0	0.12	1.7	0.36	5.0	0.5	15					0.19	34.439	24.6			
O5-5S-69m	4/16/07	1017	0.13	4.0	0.58	8.1	0.37	5.2	7.4	208					0.12	34.543	26.0			
Geomean	FY '07		3.9		3.6		4.6								0.12					
T5-500m	9/27/07	848	0.12	3.6	0.01	0.1	0.13	1.8	9.8	275	0.24	7.5	3.9	54	0.11	34.874	26.6	8.09	6.30	0.06
T5-500m	12/14/07	1000	0.10	3.1	0.01	0.1			2.5	70	0.38	11.9	6.7	94	0.16	34.741	25.8	8.24	6.58	0.1
T5-500m	3/11/08	1008	0.09	2.8	0.07	1.0	0.06	0.8	15.6	439	0.24	7.4	6.5	91	0.10	34.888	24.9	8.11	6.66	0.18
T5-500m	6/9/08	1044	0.07	2.3	0.05	0.7	0.16	2.2	14.2	400	0.21	6.6	5.1	72	0.18	34.4544	25.9	8.11	5.59	0.23
Geomean	FY '08		2.9		0.3		1.5				8.1		76		0.13					0.13
T5-500m	9/23/08	1133	0.03	0.9	0.00	0.01	2.44	34.2	1.5	42	0.29	9.1	6.8	95	0.06	34.833	26.7	8.07	6.07	0.13
T5-500m	12/8/08	1042	0.14	4.2	0.04	0.6	0.19	2.6	1.7	49	0.30	9.2	6.6	92	0.05	35.000	26.3	8.31	5.65	0.02
T5-500m	2/10/09	936	0.09	2.8	0.15	2.1	0.12	1.7	1.7	48	0.23	7.1	4.8	67	0.09	35.089	25.0	8.06	6.08	0.02
T5-500m	6/30/09	1028	0.24	7.5	0.23	3.2	0.12	1.7	5.1	144	0.52	16.1	6.0	84	0.08	34.897	26.8	8.20	5.70	0.07
Geomean	FY '09		3.0		0.4		4.0				9.9		84		0.07					0.04
T5-500m	9/10/09	1032	0.16	4.9	0.16	2.2	0.21	2.9	12.2	344	0.70	21.8	5.7	80	0.12	35.25	27.5	8.20	5.31	0.29
T5-500m	11/24/09	955	0.02	0.766	0.01	0.2	0.03	0.4	7.3	205	0.37	11.6	4.1	57	0.05	35.27	25.2	8.23	6.43	0.13
T5-500m	2/24/10	1028	0.14	4.3	1.10	15.4	0.32	4.5	10.0	280	0.42	12.9	6.8	95	0.07	35.15	24.6	8.22	5.50	0.34
T5-500m	5/25/10	946	0.02	0.7	0.03	0.4	0.37	5.2	1.6	44	0.29	9.1	5.8	82	0.04	34.82	25.3	8.28	6.67	0.06
Geomean	FY '10		1.8		1.3		2.3				13.1		77		0.06					0.17
T5-500m	8/11/10	1003	0.02	0.6	0.02	0.3	0.01	0.1	1.9	53	0.30	9.4	2.7	38	0.04	34.98	26.11	8.24	6.61	0.09
T5-500m	11/9/10	1001	0.02	0.766	0.01	0.2	0.03	0.4	7.3	205	0.37	11.6	4.1	57	0.08	34.94	26.47	8.29	6.20	0.08
T5-500m	1/11/11	1234	0.11	3.5	0.06	0.8	0.11	1.6	0.8	23	0.41	12.7	2.9	41	0.09	35.06	25.04	8.19	6.40	0.07
T5-500m	4/27/11	1007	0.12	3.8	0.29	4	0.26	3.7	4.1	116	0.46	14.3	3.6	50	0.06	34.87	25.02	8.22	6.16	0.18
Geomean	FY '11		1.6		0.7		0.7				11.9		46		0.06					0.10

NELHA Water Quality Laboratory

Transect 5, Station 5

7/26/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
T5-500m	7/27/11	1052	0.16	4.9	0.04	0.6	0.06	0.9	0.4	10	0.47	14.7	2.7	38	0.03	34.84	26.14	8.23	6.32	0.20
T5-500m	10/19/11	1032	0.03	0.9	0.09	1.2	0.04	0.5	3.5	99	0.35	10.9	3.7	52	0.05	35.10	26.67	8.26	7.05	0.19
T5-500m	1/26/12	958	0.06	1.8	0.01	0.1	0.01	0.2	1.4	39	0.34	10.5	3.5	49	0.07	35.05	24.45	8.20	6.63	0.09
T5-500m	4/25/12	1021	0.15	4.6	0.15	2.1	0.26	3.6	1.9	53	0.48	15	7.4	103	0.04	34.84	24.91	8.20	6.72	0.08
Geomean	FY '12		2.5		0.6		0.8				12.6		56		0.05					0.13
T5-500m	7/25/12	1014	0.00	0.1	0.01	0.1	0.16	2.2	1.5	43	0.37	11.5	4.0	56	0.09	35.01	26.53	8.24	6.84	0.25
T5-500m	11/28/12	1012	0.08	2.5	0.03	0.4	0.11	1.6	1.2	32	0.43	13.2	4.5	63	0.04	35.28	25.45	8.21	6.62	0.08
T5-500m	1/24/13	1002	0.06	1.8	0.01	0.1	0.02	0.3	1.2	34	0.40	12.5	4.3	61	0.04	35.11	24.83	8.23	6.30	0.09
T5-500m	4/17/13	1117	0.16	5.1	0.12	1.7	0.21	3	0.9	24	0.55	17	4.1	58	0.05	35.14	25.31	8.21	6.50	0.04
Geomean	FY '13		1.2		0.3		1.3				13.4		59		0.05					0.09
T5-500m	8/6/13	1051	0.06	1.8	0.00	0.1	0.06	0.9	1.7	48	0.33	10.2	4.4	62	0.02	35.26	26.9	8.22	6.77	0.09
T5-500m	10/30/13	952	0.11	3.5	0.04	0.5	0.06	0.8	0.9	26	0.47	14.7	5.7	80	0.03	34.99	27.1	8.22	6.06	0.08
T5-500m	2/5/14	1022	0.13	4.0	0.11	1.6	0.42	5.9	1.8	50	0.48	15.0	4.6	65	0.02	34.96	25.2	8.22	6.20	0.19
T5-500m	5/7/14	1016	0.09	2.7	0.12	1.7	0.10	1.4	2.3	65	0.42	12.9	5.5	77	0.04	34.79	26.0	8.20	5.51	0.25
Geomean	FY '14		2.9		0.6		1.6				13.1		70		0.03					0.14
T5-500m	8/6/14	1007	0.16	5.1	0.01	0.1	0.25	3.5	0.6	17	0.50	15.4	5.2	72	0.06	34.98	27.2	8.23	6.01	0.05
T5-500m	12/4/14	1045	0.10	3.2	0.03	0.4	0.41	5.7	0.2	5	0.46	14.3	7.0	98	0.09	35.24	26.5	8.25	6.37	0.16
T5-500m	3/5/15	1046	0.01	0.2	0.08	1.1	0.10	1.4	0.6	17	0.34	10.5	5.7	79	0.10	34.75	25.4	8.30	6.83	0.20
T5-500m	6/18/15	1013	0.09	2.8	0.01	0.2	0.49	6.9	0.9	25	0.18	5.6	6.2	87	0.10	34.54	26.8	8.21	6.53	0.08
Geomean	FY '15		1.7		0.3		3.7				10.7		84		0.09					0.11
T5-500m	8/27/15	1019	0.15	4.7	0.01	0.2	0.27	3.8	1.3	37	0.19	6.0	4.7	66	0.02	34.72	28.7	8.27	5.91	0.12
T5-500m	11/18/15	1050	0.14	4.4	0.37	5.2	0.21	3.0	3.3	93	0.52	16.1	5.3	74	0.05	34.56	27.4	8.28	6.89	0.11
T5-500m	3/2/16	930	0.12	3.8	0.17	2.4	0.36	5.0	0.5	15	0.47	14.7	5.6	78	0.05	34.65	25.3	8.25	5.80	0.09
T5-500m	5/4/16	1025	0.04	1.2	0.04	0.6	0.08	1.1	0.1	3	0.41	12.6	4.9	69	0.07	34.70	26.1	8.18	6.12	0.17
Geomean	FY '16		3.1		1.1		2.8				11.6		71		0.04					0.12
T5-500m	7/7/16	1029	0.06	1.8	1.17	16.4	0.23	3.2	0.1	3	0.38	11.8	1.7	24	0.07	34.73	27.1	8.33	6.60	0.21
T5-500m	12/21/16	1044	0.02	0.7	0.08	1.1	0.04	0.5	1.2	33	0.34	10.5	3.7	52	0.03	34.72	25.6	8.28	5.88	0.12
T5-500m	3/1/17	1111	0.01	0.2	0.04	0.5	0.11	1.5	0.1	4	0.28	8.7	2.6	36	0.08	34.79	24.6	8.25	5.83	0.18
T5-500m	5/10/17	1126	0.06	1.8	0.04	0.5	0.29	4.1	0.4	12	0.21	6.4	2.9	41	0.05	34.88	25.8	8.23	4.08	0.12
Geomean	FY '17		0.8		1.5		1.8				9.1		37		0.05					0.15

NELHA Water Quality Laboratory

Transect 5, Station 5

7/26/1993 - 7/16/20

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		Turbidity	Salinity	Temp.	pH	DO	Chl a
	M/D/Y	(2400)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg N/L)	(μM)	(μg Si/L)	(μM)	(μg P/L)	(μM)	(μg N/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(μg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
T5-500m	9/28/17	1021	0.12	3.7	0.06	0.9	0.11	1.5	0.5	14	0.37	11.5	3.0	42	0.06	34.85	28.0	8.18	4.72	0.11
T5-500m	11/30/17	1007	0.08	2.4	0.12	1.7	0.30	4.2	1.1	32	0.35	10.9	3.5	49	0.09	35.23	26.6	8.24	5.58	0.14
T5-500m	2/6/18	1052	0.05	1.6	0.12	1.7	0.39	5.4	0.6	17	0.32	9.8	1.6	22	0.09	34.86	25.0	8.16	5.72	0.09
T5-500m	5/17/18	1034	0.07	2.1	0.14	2.0	0.10	1.4	1.0	27	0.35	10.9	1.5	21	0.09	34.50	26.0	8.16	6.53	0.09
Geomean	FY '18		2.3		1.5		2.6				10.8		31		0.08					0.11
T5-500m	9/26/18	1309	0.08	2.5	0.16	2.3	0.26	3.6	0.0	1	0.32	9.8	2.0	28	0.09	34.75	27.7	8.15	4.54	0.10
T5-500m	11/14/18	1116	0.02	0.7	0.06	0.9	0.34	4.8	0.0	1	0.38	11.7	3.6	50	0.07	34.91	27.4	8.20	6.08	0.12
T5-500m	1/23/19	1100	0.07	2.3	0.16	2.3	0.16	2.2	0.5	14	0.36	11.3	2.1	29	0.06	34.95	25.0	8.19	4.96	0.13
T5-500m	4/17/19	1054	0.12	3.7	0.14	1.9	0.15	2.1	1.0	27	0.38	11.8	2.9	41	0.05	34.73	25.7	8.12	6.85	0.09
Geomean	FY '19		2.0		1.7		3.0				11.1		36		0.07					0.11
T5-500m	7/1/19	1024	0.01	0.4	0.16	2.3	0.16	2.2	1.3	38	0.30	9.2	2.0	28	0.09	35.32	28.5	8.28	6.60	0.14
T5-500m	9/1/19	1134	0.09	2.9	0.04	0.5	0.22	3.1	0.0	1	0.36	11.3	1.9	27	0.06	35.20	27.6	8.20	6.56	0.12
T5-500m	1/1/20	1045	0.08	2.5	0.16	2.3	0.09	1.3	0.3	8	0.38	11.8	4.1	58	0.05	34.98	25.0	8.22	6.68	0.11
T5-500m	4/1/20	1003	0.05	1.5	0.16	2.3	0.36	5.0	0.3	9	0.24	7.3	2.4	34	0.05	35.54	26.5	8.19	6.54	0.12
Geomean	FY '20		1.4		1.5		2.6				9.7		35		0.06					0.12

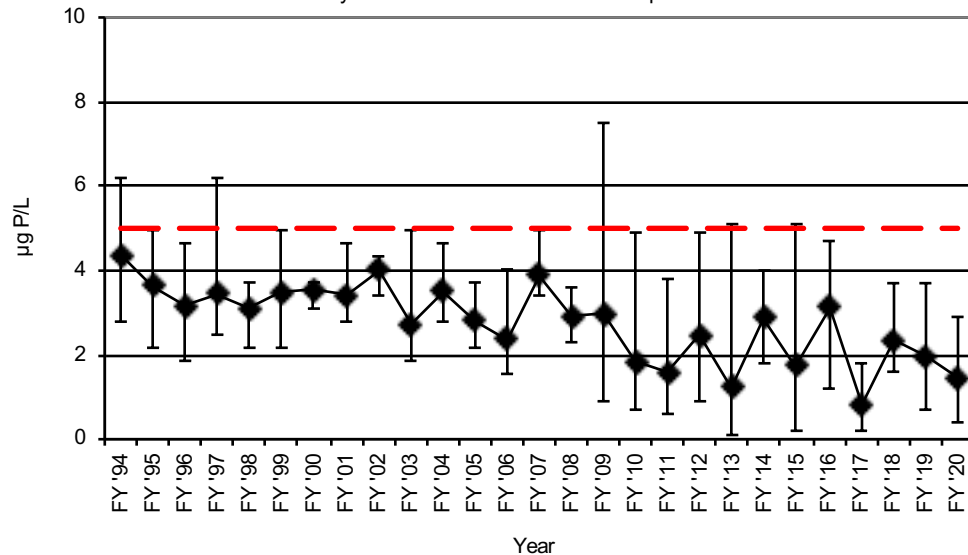
NELHA Water Quality Laboratory

Transect 5, Station 5

7/26/1993 - 7/16/20

NELHA Offshore Transect 5, Station 5

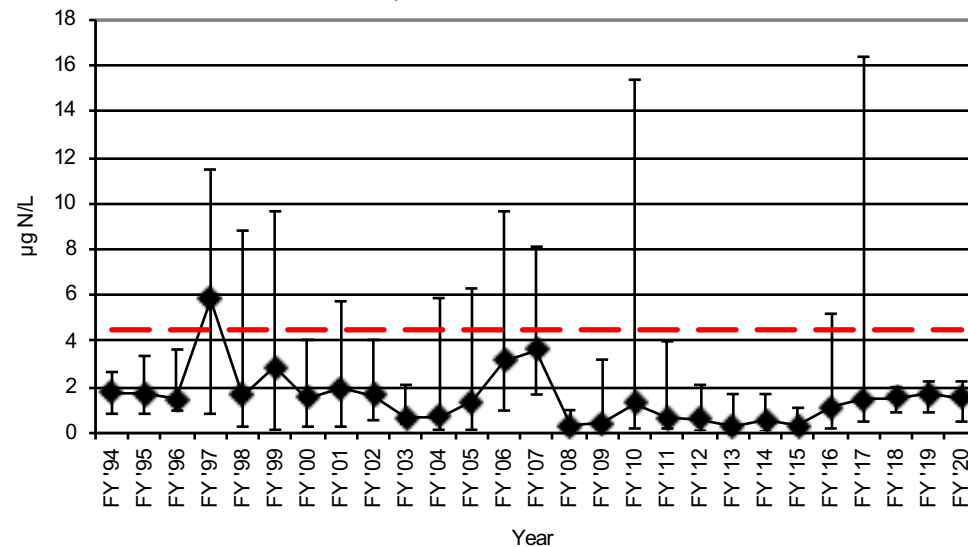
Yearly Geometric Mean of Ortho-Phosphate



Transect 5, Station 5 2014 HDOH Class AA Water Quality Standard

NELHA Offshore Transect 5, Station 5

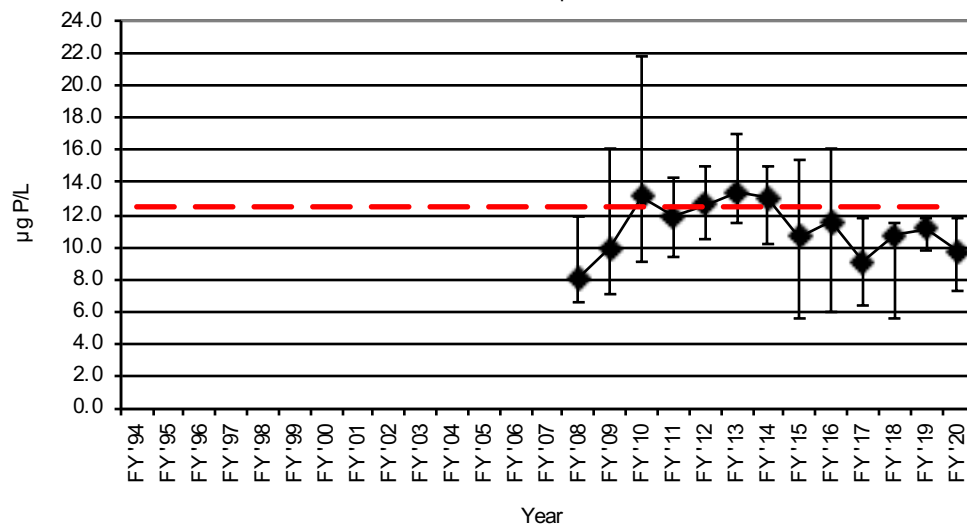
Yearly Geometric Mean of Nitrate + Nitrite



Transect 5, Station 5 2014 HDOH Class AA Water Quality Standard

NELHA Offshore Transect 5, Station 5

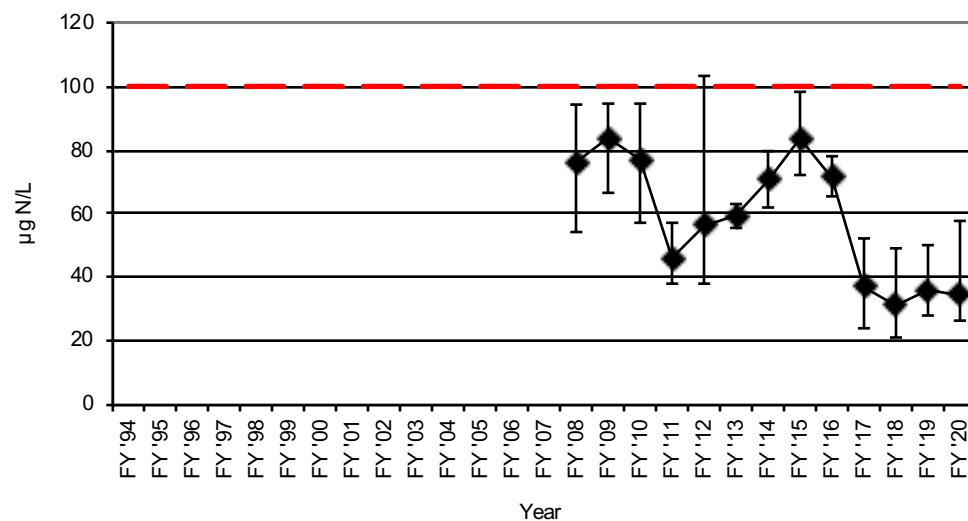
Yearly Geometric Mean of
Total Dissolved Phosphorous



Transect 5, Station 5 2014 HDOH Class AA Water Quality Standard

NELHA Offshore Transect 5, Station 5

Yearly Geometric Mean of
Total Dissolved Nitrogen



Transect 5, Station 5 2014 HDOH Class AA Water Quality Standard

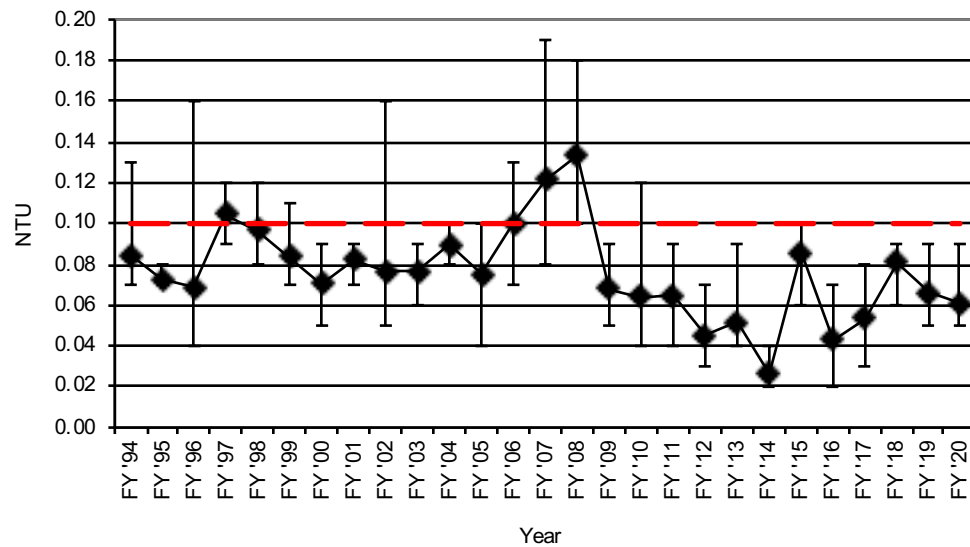
NELHA Water Quality Laboratory

Transect 5, Station 5

7/26/1993 - 7/16/20

NELHA Offshore Transect 5, Station 5

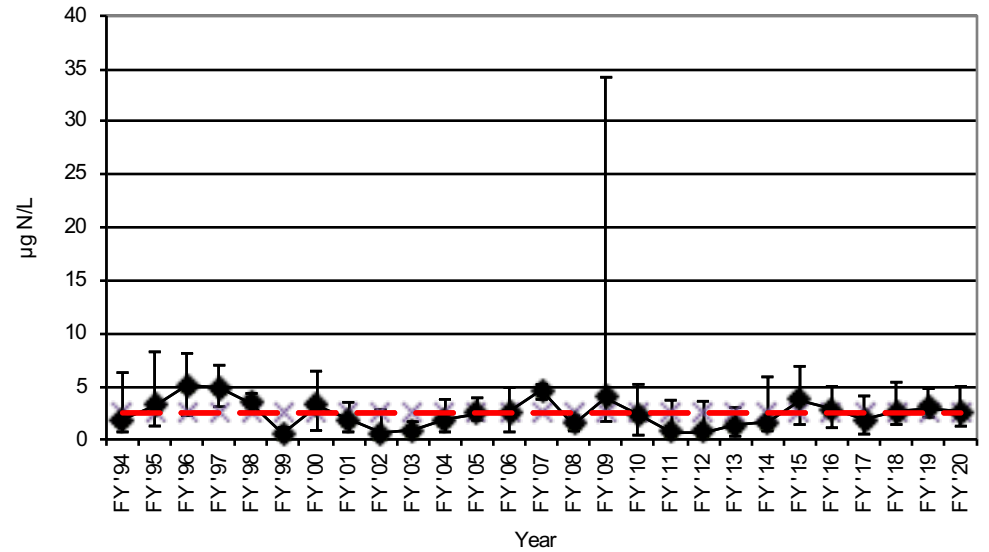
Yearly Geometric Mean of Turbidity



Transect 5, Station 5 2014 HDOH Class AA Water Quality Standard

NELHA Offshore Transect 5, Station 5

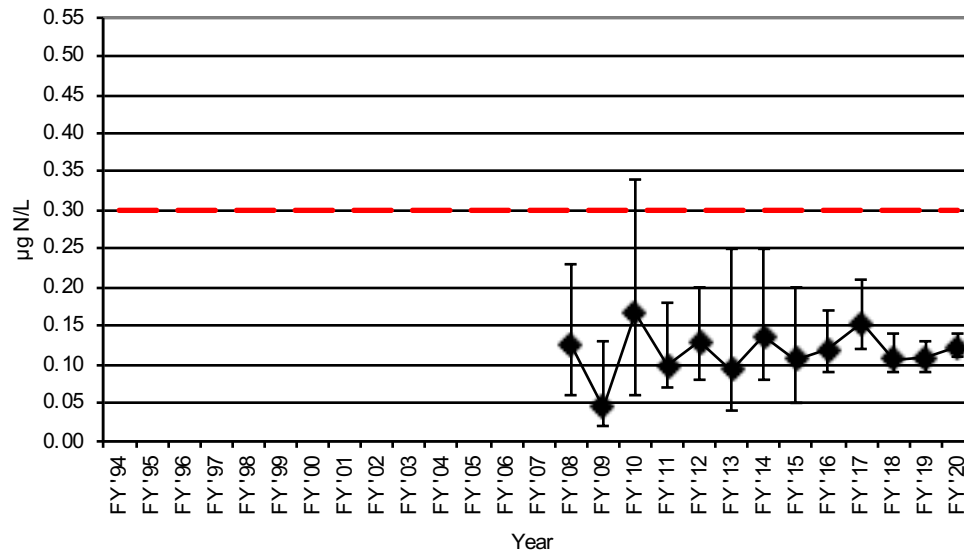
Yearly Geometric Mean of Total Ammonia



Transect 5, Station 5

NELHA Offshore Transect 5, Station 5

Yearly Geometric Mean of Chlorophyll-a



Transect 5, Station 5 2014 HDOH Class AA Water Quality Standard

NELHA Water Quality Laboratory

Transect 6

July 2018 - June 2019

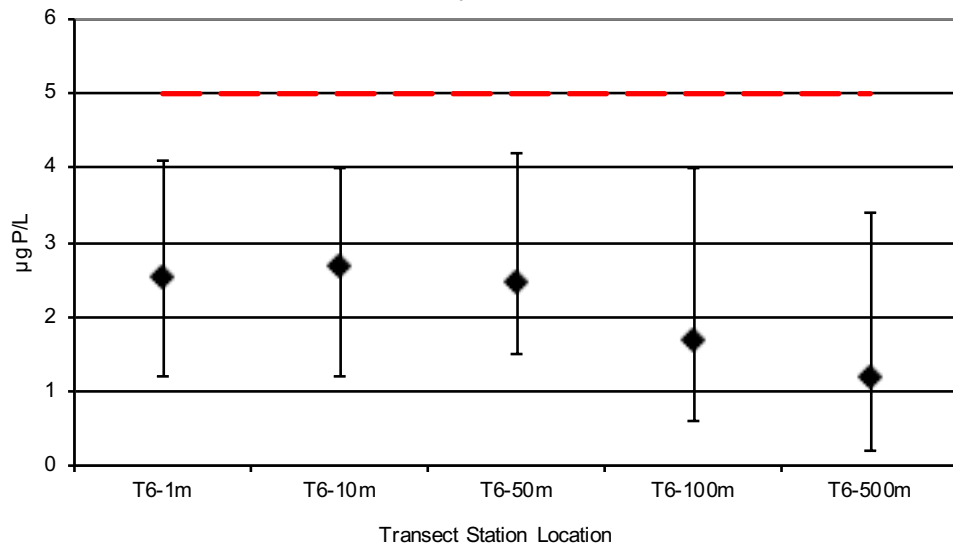
SITE ID	DATE	TIME	Tide		PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		Turbidity	Salinity	Temp.	pH	DO	Chl a
	M/D/Y	(2400)	(ft)	(cycle)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg N/L)	(μM)	(μg Si/L)	(μM)	(μg P/L)	(μM)	(μg N/L)	(NTU)	(o/oo)	(°C)		(ppm)	(μg/L)
DOH LIMIT					0.16	5	0.32	4.5	0.18	2.5			0.40	12.5	7.1	100	0.10					0.30
T6-1m	9/26/18	1324	0.8	Flood	0.04	1.2	0.08	1.1	0.26	3.6	4.5	125	0.35	10.9	2.9	40	0.09	34.58	27.8	8.16	4.73	0.15
T6-1m	11/14/18	1129	1.5	Ebb	0.08	2.6	0.86	12.0	0.48	6.7	3.2	89	0.36	11.0	4.9	69	0.10	34.77	27.3	8.22	6.58	0.20
T6-1m	1/23/19	1113	0.2	Low	0.11	3.3	0.35	4.9	0.20	2.8	4.4	123	0.38	11.8	2.5	35	0.10	34.83	24.9	8.19	5.08	0.20
T6-1m	4/17/19	1108	0.6	Flood	0.13	4.1	0.29	4.0	0.20	2.8	2.0	55	0.39	12.0	3.1	44	0.06	34.67	25.7	8.13	7.07	0.1
Geomean	FY '19				0.08	2.5	0.29	4.0	0.3	3.7			0.4	11.4	3.2	45	0.09					0.16
T6-10m	9/26/18	1329	0.8	Flood	0.04	1.2	0.16	2.3	0.16	2.2	1.4	38	0.35	10.7	3.2	45	0.10	34.67	27.7	8.15	4.75	0.13
T6-10m	11/14/18	1133	1.5	Ebb	0.10	3.1	1.61	22.5	0.48	6.7	6.9	195	0.35	10.9	6.3	89	0.10	34.71	27.3	8.22	6.54	0.26
T6-10m	1/23/19	1118	0.2	Low	0.11	3.5	0.55	7.7	0.10	1.4	5.3	149	0.37	11.6	4.8	68	0.10	34.77	24.9	8.19	5.09	0.18
T6-10m	4/17/19	1112	0.6	Flood	0.13	4.0	0.32	4.5	0.25	3.5	2.2	61	0.36	11.2	2.5	35	0.04	34.67	25.7	8.13	7.03	0.1
Geomean	FY '19				0.09	2.7	0.46	6.5	0.21	2.9			0.36	11.1	3.9	55	0.08					0.16
T6-50m	9/26/18	1335	0.8	Flood	0.05	1.5	0.16	2.3	0.11	1.5	2.2	61	0.37	11.5	3.3	46	0.10	34.66	27.6	8.16	4.50	0.12
T6-50m	11/14/18	1139	1.5	Ebb	0.05	1.7	0.49	6.9	0.19	2.7	1.4	38	0.34	10.6	5.6	78	0.09	34.87	27.3	8.20	6.18	0.27
T6-50m	1/23/19	1123	0.2	Low	0.11	3.4	0.49	6.8	0.17	2.4	5.6	156	0.39	12.1	2.5	35	0.08	34.78	24.9	8.18	5.13	0.2
T6-50m	4/17/19	1120	0.6	Flood	0.14	4.2	0.39	5.4	0.23	3.2	2.8	77	0.39	12.0	2.5	35	0.07	34.67	25.7	8.13	7.07	0.12
Geomean	FY '19				0.08	2.5	0.35	4.9	0.17	2.4			0.37	11.5	3.3	46	0.08					0.17
T6-100m	9/26/18	1341	0.8	Flood	0.02	0.6	0.16	2.3	0.09	1.3	1.7	47	0.33	10.3	1.9	27	0.13	34.67	27.6	8.16	4.82	0.15
T6-100m	11/14/18	1144	1.5	Ebb	0.03	1.0	0.25	3.5	0.44	6.1	0.7	21	0.33	10.1	6.0	84	0.07	34.90	27.4	8.20	6.17	0.14
T6-100m	1/23/19	1128	0.2	Low	0.11	3.5	0.52	7.3	0.19	2.7	4.5	127	0.39	12.0	2.7	38	0.05	34.92	25.0	8.19	4.98	0.14
T6-100m	4/17/19	1125	0.6	Flood	0.13	4.0	0.31	4.3	0.46	6.4	2.2	62	0.39	12.1	2.9	41	0.02	34.67	25.8	8.12	6.96	0.1
Geomean	FY '19				0.05	1.7	0.28	4.0	0.24	3.4			0.36	11.1	3.1	43	0.05					0.13
T6-500m	9/26/18	1348	0.8	Flood	0.01	0.2	0.16	2.3	0.09	1.3	0.8	22	0.33	10.3	1.76	25	0.1	34.70	27.6	8.15	4.70	0.16
T6-500m	11/14/18	1151	1.5	Ebb	0.04	1.1	0.12	1.7	0.56	7.8	0.0	1	0.37	11.5	3.43	48	0.06	34.93	27.3	8.20	6.02	0.20
T6-500m	1/23/19	1137	0.2	Low	0.08	2.6	0.04	0.5	0.08	1.1	0.1	2	0.37	11.4	2.21	31	0.06	34.82	25.2	8.20	5.01	0.23
T6-500m	4/17/19	1134	0.6	Flood	0.11	3.4	0.03	0.4	0.17	2.4	0.6	17	0.37	11.6	3.07	43	0.03	34.74	26.0	8.13	6.77	0.07
Geomean	FY '19				0.04	1.2	0.07	0.9	0.16	2.3			0.36	11.2	2.5	35	0.06					0.15

NELHA Water Quality Laboratory

Transect 6

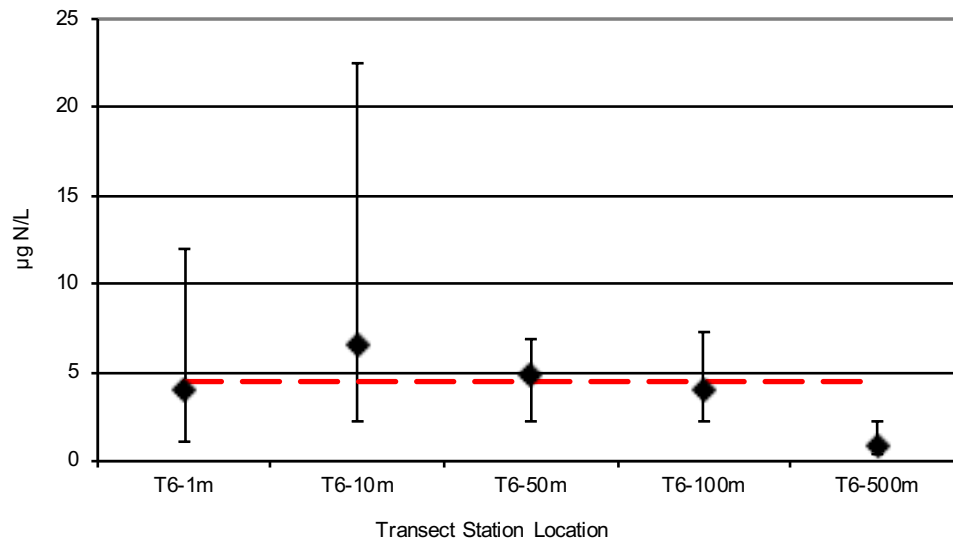
July 2018 - June 2019

Transect 6 Station Summary
Ortho-Phosphate Geometric Mean



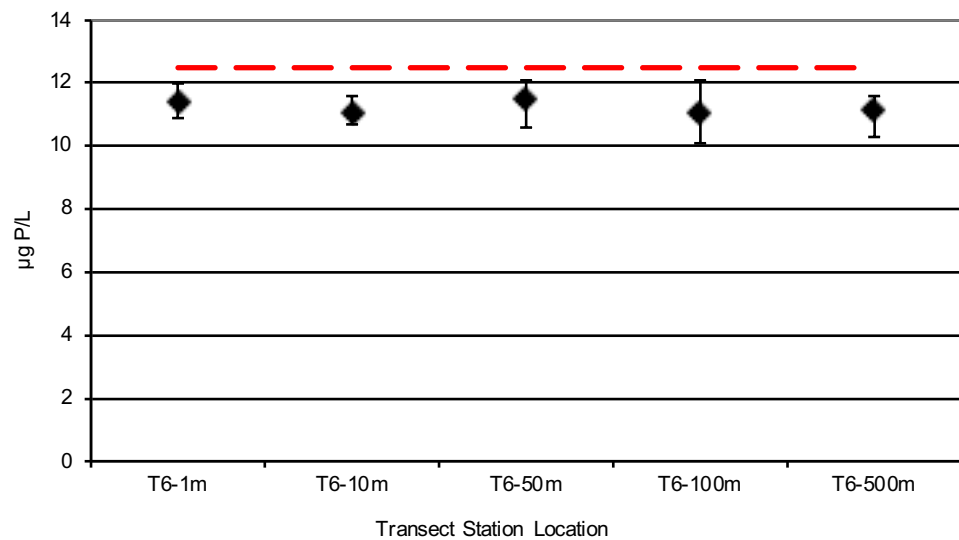
◆ Transect 6, July 2018 - June 2019 - - - 2004 HDOH Class AA Water Quality Standard

Transect 6 Station Summary
Nitrate + Nitrite Geometric Mean



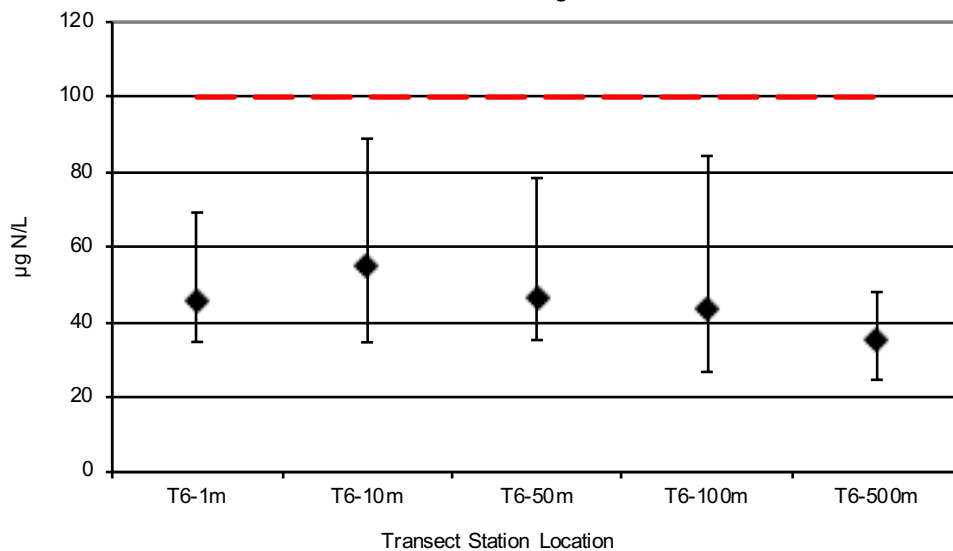
◆ Transect 6, July 2018 - June 2019 - - - 2004 HDOH Class AA Water Quality Standard

Transect 6 Station Summary
Total Dissolved Phosphorous Geometric Mean



◆ Transect 6, July 2018 - June 2019 - - - 2004 HDOH Class AA Water Quality Standard

Transect 6 Station Summary
Total Dissolved Nitrogen Geometric Mean



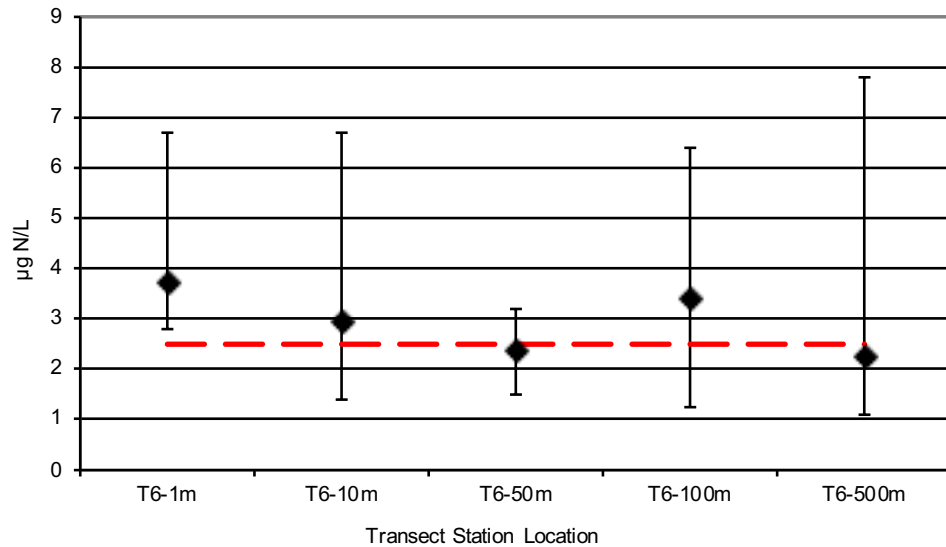
◆ Transect 6, July 2018 - June 2019 - - - 2004 HDOH Class AA Water Quality Standard

NELHA Water Quality Laboratory

Transect 6

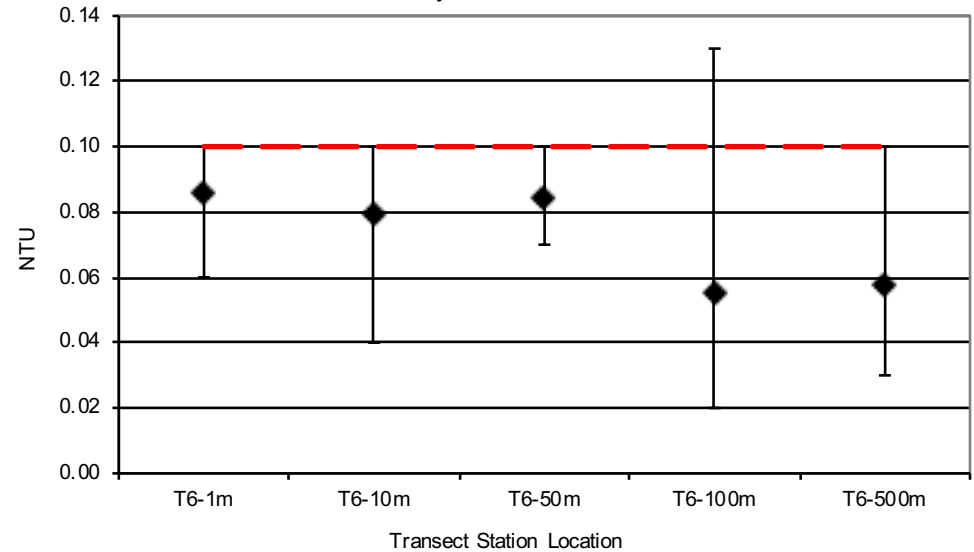
July 2018 - June 2019

Transect 6 Station Summary
Total Ammonia Geometric Mean



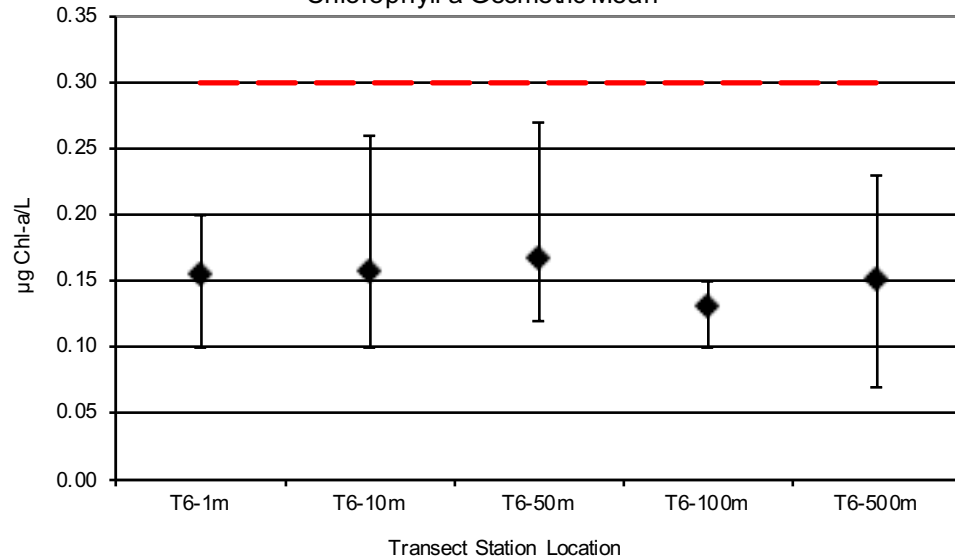
◆ Transect 6, July 2018 - June 2019 - - - 2004 HDOH Class AA Water Quality Standard

Transect 6 Station Summary
Turbidity Geometric Mean



◆ Transect 6, July 2018 - June 2019 - - - 2004 HDOH Class AA Water Quality Standard

Transect 6 Station Summary
Chlorophyll-a Geometric Mean



◆ Transect 6, July 2018 - June 2019 - - - 2004 HDOH Class AA Water Quality Standard

NELHA Water Quality Laboratory

Transect 6

July 2018 - June 2019

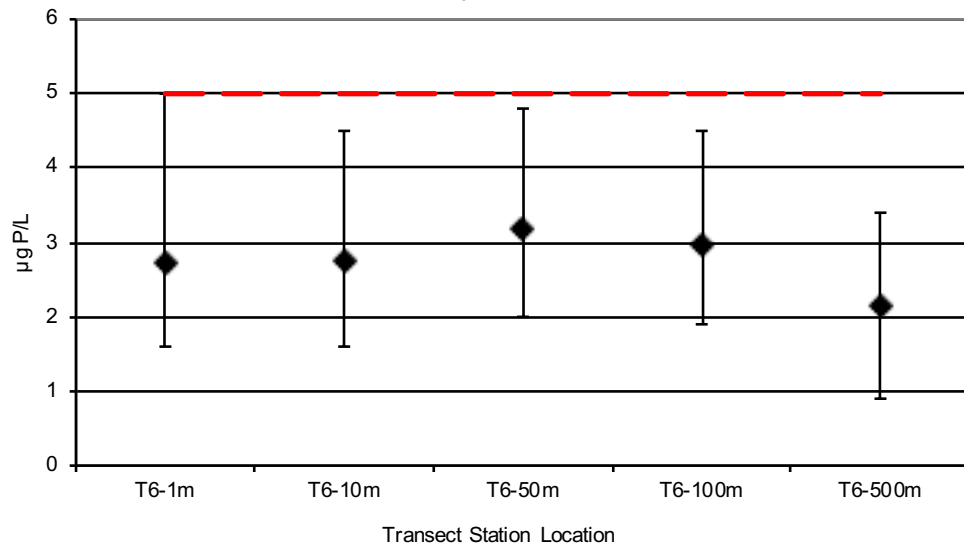
SITE ID	DATE	TIME	Tide		PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		Turbidity	Salinity	Temp.	pH	DO	Chl a
	M/D/Y	(2400)	(ft)	(cycle)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg N/L)	(μM)	(μg Si/L)	(μM)	(μg P/L)	(μM)	(μg N/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(μg/L)
DOH LIMIT					0.16	5	0.32	4.5	0.18	2.5			0.40	12.5	7.1	100	0.10					0.30
T6-1m	8/15/19	1036	0.2	Flood	0.05	1.7	0.11	1.6	0.14	2.0	4.7	133	0.31	9.5	2.28	32	0.11	35.19	28.2	8.27	6.78	0.14
T6-1m	11/20/19	1149	1.8	High	0.13	4.0	0.34	4.7	0.75	10.5	0.0	37	0.37	11.6	2.82	40	0.11	35.15	27.6	8.23	6.84	0.13
T6-1m	1/23/20	1058	0.5	Flood	0.16	5.0	0.65	9.1	0.06	0.9	0.0	185	0.42	13.0	4.46	63	0.25	34.76	24.8	8.22	7.07	0.15
T6-1m	6/25/20	1018	0.3	Ebb	0.05	1.6	0.34	4.8	0.15	2.1	0.0	97	0.27	8.3	2.98	42	0.06	35.44	26.0	8.18	6.61	0.21
Geomean	FY '20				0.09	2.7	0.30	4.3	0.18	2.5			0.34	10.4	3.04	42.6	0.12					0.15
T6-10m	8/15/19	1041	0.2	Flood	0.05	1.6	0.03	0.4	0.08	1.1	4.6	130	0.31	9.6	2.14	30	0.12	35.20	28.2	8.27	6.66	0.13
T6-10m	11/20/19	1155	1.8	High	0.13	3.9	0.28	3.9	0.51	7.2	0.0	38	0.40	12.4	2.74	38	0.08	35.15	27.6	8.24	6.97	0.13
T6-10m	1/1/20	1101	0.5	Flood	0.15	4.5	0.56	7.8	0.09	1.2	0.0	178	0.40	12.5	4.01	56	0.15	34.78	24.8	8.24	7.05	0.20
T6-10m	6/25/20	1022	0.3	Ebb	0.07	2.1	0.14	2.0	0.20	2.8	0.0	79	0.30	9.4	2.76	39	0.06	35.48	26.0	8.18	6.55	0.21
Geomean	FY '20				0.09	2.8	0.16	2.2	0.16	2.3			0.35	10.9	2.84	39.8	0.10					0.16
T6-50m	8/15/19	1048	0.3	Flood	0.06	2.0	0.08	1.1	0.09	1.3	5.2	146	0.33	10.3	2.14	30	0.10	35.20	28.2	8.28	6.67	0.16
T6-50m	11/20/19	1201	1.8	High	0.11	3.3	0.12	1.7	0.33	4.6	0.0	20	0.41	12.8	4.01	56	0.08	35.18	27.6	8.23	6.67	0.15
T6-50m	1/1/20	1106	0.5	Flood	0.15	4.8	0.49	6.8	0.41	5.7	0.0	157	0.43	13.3	4.01	56	0.21	34.77	24.8	8.25	7.07	0.14
T6-50m	6/25/20	1027	0.3	Ebb	0.11	3.3	0.14	1.9	0.19	2.7	0.0	110	0.32	9.8	2.58	36	0.07	35.42	26.1	8.19	6.69	0.21
Geomean	FY '20				0.10	3.2	0.16	2.2	0.22	3.1			0.37	11.4	3.07	43.0	0.10					0.16
T6-100m	8/15/19	1053	0.3	Flood	0.06	1.9	0.08	1.1	0.09	1.3	5.3	149	0.33	10.2	2.43	34	0.09	35.21	28.3	8.28	6.70	0.17
T6-100m	11/20/19	1206	1.8	High	0.10	3.2	0.05	0.7	0.09	1.3	0.0	9	0.42	13.0	2.77	39	0.06	35.19	27.7	8.22	6.44	0.14
T6-100m	1/1/20	1113	0.5	Flood	0.15	4.5	0.14	2.0	0.09	1.3	0.0	102	0.42	12.9	4.18	59	0.13	34.87	24.9	8.25	6.93	0.16
T6-100m	6/25/20	1032	0.3	Ebb	0.09	2.8	0.01	0.2	0.09	1.3	0.0	97	0.35	10.7	3.16	44	0.08	35.41	26.1	8.18	6.63	0.24
Geomean	FY '20				0.10	3.0	0.05	0.7	0.09	1.3			0.38	11.6	3.07	43.0	0.09					0.17
T6-500m	8/15/19	1102	0.3	Flood	0.03	0.9	0.16	2.3	0.09	1.3	2.3	66	0.31	9.6	2.21	31	0.07	35.31	28.4	8.28	6.54	0.17
T6-500m	11/20/19	1215	1.8	High	0.11	3.4	0.04	0.5	0.09	1.3	0.0	13	0.42	13.1	3.01	42	0.06	35.21	27.7	8.22	6.49	0.12
T6-500m	1/1/20	1118	0.5	Flood	0.10	3.0	0.16	2.3	0.09	1.3	0.0	-20	0.38	11.9	3.53	50	0.09	34.98	25.0	8.23	6.62	0.15
T6-500m	6/25/20	1039	0.3	Ebb	0.07	2.3	0.16	2.3	0.06	0.9	0.0	13	0.33	10.3	2.54	36	0.06	35.54	26.4	8.18	6.60	0.22
Geomean	FY '20				0.07	2.1	0.11	1.6	0.08	1.2			0.36	11.1	2.78	38.9	0.07					0.16

NELHA Water Quality Laboratory

Transect 6

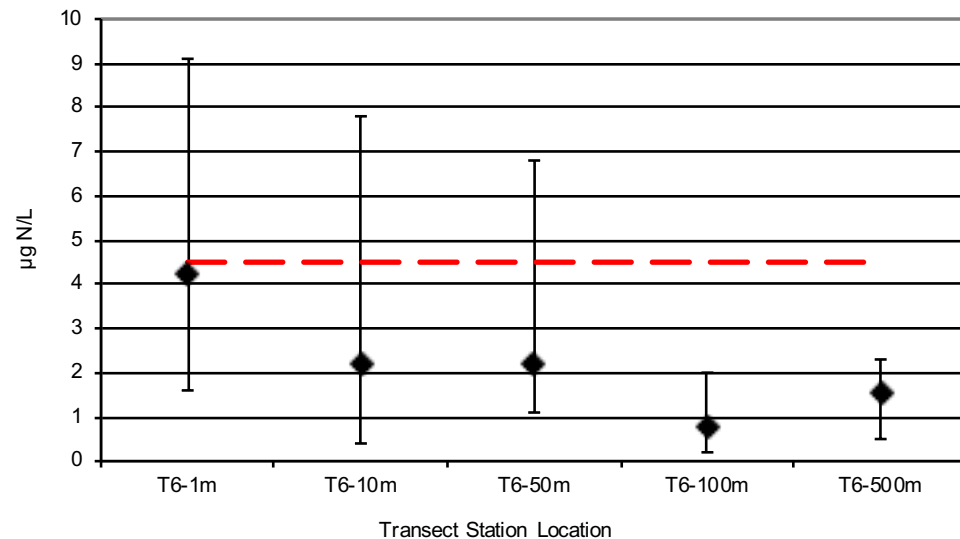
July 2018 - June 2019

Transect 6 Station Summary
Ortho-Phosphate Geometric Mean



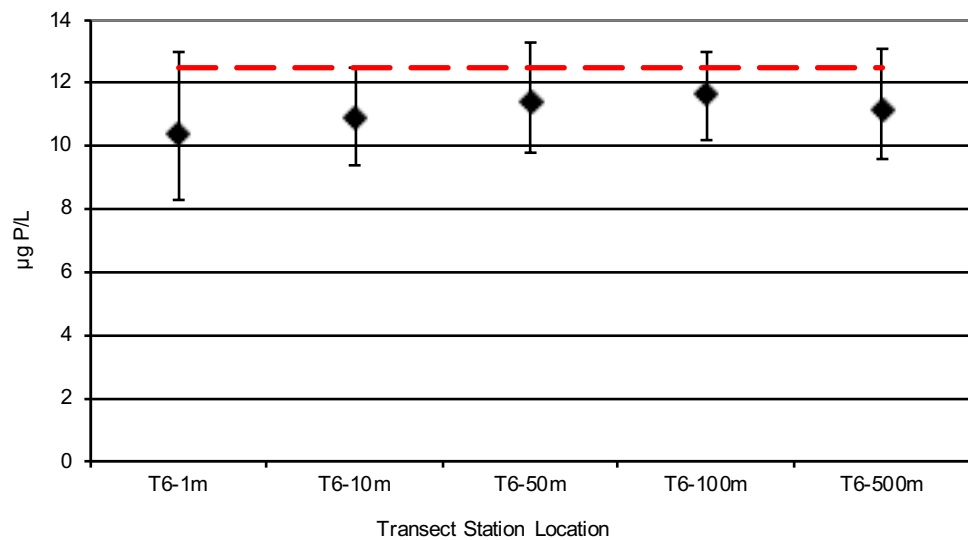
◆ Transect 6, July 2018 - June 2019 - - - 2004 HDOH Class AA Water Quality Standard

Transect 6 Station Summary
Nitrate + Nitrite Geometric Mean



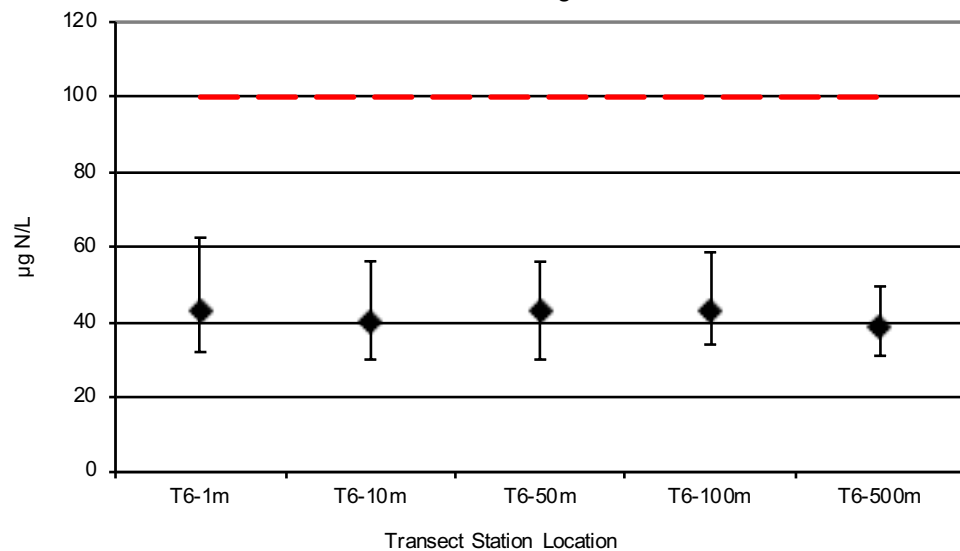
◆ Transect 6, July 2018 - June 2019 - - - 2004 HDOH Class AA Water Quality Standard

Transect 6 Station Summary
Total Dissolved Phosphorous Geometric Mean



◆ Transect 6, July 2018 - June 2019 - - - 2004 HDOH Class AA Water Quality Standard

Transect 6 Station Summary
Total Dissolved Nitrogen Geometric Mean



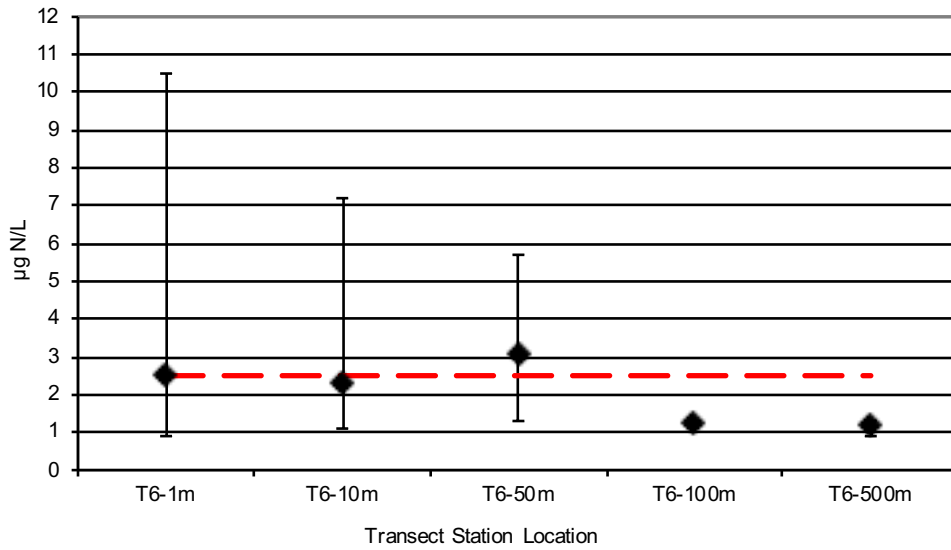
◆ Transect 6, July 2018 - June 2019 - - - 2004 HDOH Class AA Water Quality Standard

NELHA Water Quality Laboratory

Transect 6

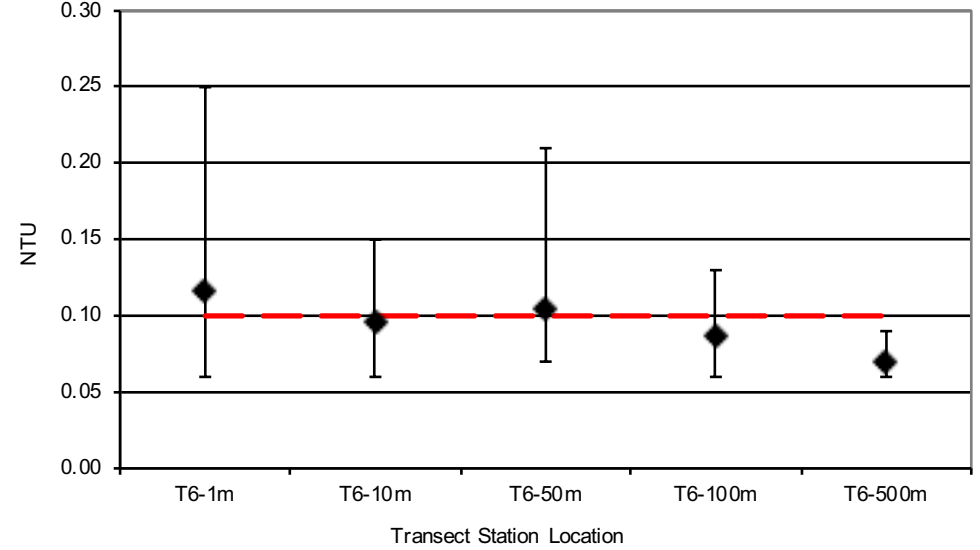
July 2018 - June 2019

Transect 6 Station Summary
Total Ammonia Geometric Mean



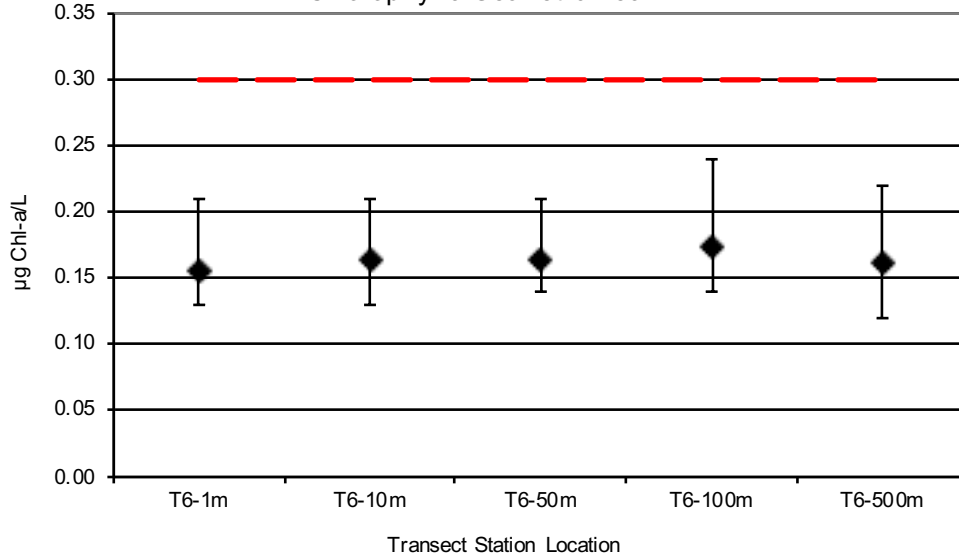
◆ Transect 6, July 2018 - June 2019 - - - 2004 HDOH Class AA Water Quality Standard

Transect 6 Station Summary
Turbidity Geometric Mean



◆ Transect 6, July 2018 - June 2019 - - - 2004 HDOH Class AA Water Quality Standard

Transect 6 Station Summary
Chlorophyll-a Geometric Mean



◆ Transect 6, July 2018 - June 2019 - - - 2004 HDOH Class AA Water Quality Standard

NELHA Water Quality Laboratory

Transect 6, Station 1

7/26/1993 - 7/16/20

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		TP		TOC	Turbidity	Salinity	Temp.	pH	DO	Chl a	Fecal Coli.	Entero.
	M/D/Y	(2400)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg N/L)	(μM)	(μg Si/L)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg P/L)	(mgC/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(μg/L)	(Bact/100 ml)	(Bact/100 ml)
DOH LIMIT			5		4.5		2.5				12.5		100					0.10					0.30		
O6-1S-8m	7/26/93	926	0.18	5.6	0.12	1.7	0.45	6.3	3.3	92	0.28	8.7	7.3	102	0.29	8.98	1.26	0.11	34.436	26.8	8.26	6.85	0.06		
O6-1S-8m	12/6/93	950	0.09	2.8	0.32	4.5	0.09	1.3	4.0	111	0.27	8.4	6.4	90	0.27	8.36	1.16	0.09	34.791	25.8	8.25	6.83	0.11		
O6-1S-8m	3/7/94	915	0.24	7.4	1.03	14.4	0.18	2.5	12.6	353	0.30	9.3	6.2	86	0.30	9.29	1.18	0.10	33.936	24.8	8.22	6.94	0.02	3	<1
O6-1S-8m	6/15/94	919	0.22	6.8	2.24	31.4	0.54	7.6	4.7	131	0.22	6.9	8.2	115	0.29	8.98	1.12	0.10	34.480	25.7	8.22	6.86	0.08	<1	<1
Geomean FY '94			5.3		7.6		3.5				8.3		98					0.10					0.06		
O6-1S-8m	9/9/94	1012	0.09	2.8	0.32	4.5	0.21	2.9	5.5	155	0.30	9.3	6.9	96	0.32	9.91	1.13	0.08	34.487	27.6	8.23	6.58	0.11	<1	<1
O6-1S-8m	11/14/94	818	0.14	4.3	0.69	9.7	0.50	7.0	8.6	240	0.34	10.5	5.5	77	0.38	11.77	1.00	0.11	34.485	26.0	8.26	6.58	0.06	<1	<1
O6-1S-8m	3/22/95	854	0.19	5.9	0.30	4.2	0.35	4.9	4.5	126	0.33	10.2	5.8	82	0.34	10.53	1.06	0.08	34.170	25.1	8.25	7.03	0.17	<1	<1
O6-1S-8m	6/20/95	837	0.13	4.0	0.36	5.0	0.09	1.3	4.3	122	0.27	8.4	6.3	88	0.28	8.67	0.96	0.06	34.379	26.2	8.21	6.66	0.34	<1	<1
Geomean FY '95			4.1		5.5		3.4				9.6		85					0.08					0.14		
O6-1S-8m	9/26/95	922	0.14	4.3	0.45	6.3	0.47	6.6	7.7	217	0.31	9.6	5.4	75	0.31	9.60	0.89	0.25	34.386	27.0	8.23	6.66	0.14	1	4
O6-1S-8m	11/14/95	1114	0.12	3.7	0.42	5.9	0.55	7.7	6.1	171	0.31	9.6	5.4	76	0.31	9.60	1.11	0.10	34.218	26.9	8.28	6.79	0.08	<1	<1
O6-1S-8m	3/12/96	1137	0.14	4.3	0.16	2.2	0.48	6.7	3.7	105	0.34	10.5	4.8	68	0.34	10.53	1.09	0.06	34.144	25.5	8.23	7.06	0.05	<1	<1
O6-1S-8m	5/14/96	1130	0.13	4.0	0.41	5.7	0.22	3.1	7.7	215	0.30	9.3	4.6	64	0.30	9.29	1.11	0.06	34.155	27.4	8.21	7.07	0.09	<1	<1
Geomean FY '96			4.1		4.7		5.7				9.7		71					0.10					0.08		
O6-1S-8m	7/31/96	1200	0.15	4.6	2.05	28.7	0.53	7.4	27.0	757	0.29	9.0	4.3	60	0.29	8.98	0.80	0.14	33.614	27.9	8.27	6.84	0.08	<1	<1
O6-1S-8m	10/2/96	1131	0.11	3.4	1.11	15.5	0.50	7.0	15.5	435	0.28	8.7	5.5	76	0.28	8.67	1.01	0.13	34.171	28.4	8.24	6.75	0.16	<1	<1
O6-1S-8m	1/7/97	1138	0.09	2.8	0.40	5.6	0.25	3.5	6.4	181	0.27	8.4	5.2	72	0.27	8.36	1.33	0.11	34.557	25.7	8.29	6.97	0.01	<1	<1
O6-1S-8m	4/28/97	1155	0.12	3.7	0.27	3.8	0.43	6.0	5.7	161	0.79	24.5	5.0	70	0.79	24.47	1.10	0.11	34.474	26.4	8.29	6.76	0.01	<1	<1
Geomean FY '97			3.6		9.9		5.8				11.2		69					0.12					0.03		
O6-1S-8m	8/19/97	1138	0.08	2.5	0.22	3.1	0.18	2.5	6.2	173	0.36	11.2	4.9	68	0.38	11.77	1.09	0.10	34.536	27.2	8.40	6.44	0.19	<1	<1
O6-1S-8m	10/7/97	1044	0.11	3.4	0.09	1.3	0.33	4.6	3.7	104	0.30	9.3	4.7	66	0.30	9.29	1.09	0.08	34.722	27.6	8.45	6.52	0.08	<1	<1
O6-1S-8m	3/4/98	1213	0.14	4.3	0.84	11.8	0.25	3.5	11.3	318	0.31	9.6	5.4	76	0.31	9.60	0.97	0.08	34.769	25.0	8.24	6.96	0.01	<1	<1
O6-1S-8m	5/5/98	1205	0.14	4.3	1.20	16.8	0.36	5.0	17.7	497	0.41	12.7	8.7	122	0.42	13.01	1.11	0.10	34.537	24.4	8.28	7.62	0.08	<1	<1
Geomean FY '98			3.5		5.3		3.8				10.6		80					0.09					0.06		
O6-1S-8m	7/7/98	1225	0.12	3.7	0.53	7.4	0.08	1.1	10.2	286	0.38	11.8	6.8	95	0.41	12.70	1.15	0.11	34.807	26.3	8.24	7.08	0.17	<1	<1
O6-1S-8m	10/6/98	1131	0.12	3.7	0.60	8.4	0.09	1.3	9.7	273	0.39	12.1	6.9	97	0.39	12.08	1.10	0.08	34.944	27.2	8.22	7.24	0.07	<1	<1
O6-1S-8m	1/19/99	1207	0.15	4.6	1.44	20.2	0.08	1.1	22.2	623	0.41	12.7	5.4	76	0.46	14.25	1.09	0.09	34.645	25.1	8.21	6.93	0.17	<1	<1
O6-1S-8m	4/12/99	1213	0.13	4.0	0.23	3.2	0.11	1.5	8.1	228	0.38	11.8	4.7	66	0.39	12.08	1.07	0.08	34.637	24.3	8.23	7.31	0.26	<1	<1
Geomean FY '99			4.0		8.0		1.2				12.1		82					0.09					0.15		

NELHA Water Quality Laboratory

Transect 6, Station 1

7/26/1993 - 7/16/20

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		TP		TOC	Turbidity	Salinity	Temp.	pH	DO	Chl a	Fecal Coli.	Entero.
	M/D/Y	(2400)	(µM)	(µg P/L)	(µM)	(µg N/L)	(µM)	(µg N/L)	(µM)	(µg Si/L)	(µM)	(µg P/L)	(µM)	(µg N/L)	(µM)	(µg P/L)	(mgC/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(µg/L)	(Bact/100 ml)	(Bact/100 ml)
DOH LIMIT			5		4.5		2.5				12.5		100					0.10					0.30		
O6-1S-8m	7/6/99	1244	0.11	3.4	0.23	3.2	0.07	1.0	5.5	154	0.30	9.3	5.9	82	0.34	10.53	1.02	0.12	34.831	25.7	8.22	7.89	0.12	<1	<1
O6-1S-8m	10/4/99	1301	0.14	4.3	0.19	2.7	0.09	1.3	3.1	87	0.35	10.8	4.9	69	0.35	10.84	1.02	0.11	34.941	26.3	8.28	7.10	0.12	<1	<1
O6-1S-8m	1/12/00	1208	0.17	5.3	1.62	22.7	0.41	5.7	27.2	764	0.36	11.2	6.9	97	0.38	11.77	0.88	0.05	34.575	24.7	8.25	6.80	0.09	<1	<1
O6-1S-8m	4/11/00	1104	0.14	4.3	0.83	11.6	0.08	1.1	12.4	348	0.28	8.7	6.6	92	0.28	8.67	1.10	0.07	34.592	24.4	8.27	7.08	0.05	<1	<1
Geomean FY '00			4.3		6.9		1.7				9.9		84					0.08					0.09		
O6-1S-8m	7/25/00	1221	0.11	3.4	0.40	5.6	0.15	2.1	8.3	234	0.34	10.5	5.9	82	0.34	10.53	0.97	0.19	34.672	26.7	8.31	7.16	0.25	<1	1
O6-1S-8m	10/31/00	1209	0.16	5.0	0.80	11.2	0.26	3.6	16.9	475	0.39	12.1	5.3	75	0.39	12.08	1.10	0.16	34.650	26.8	8.24	6.69	0.08	<1	<1
O6-1S-8m	3/6/01	1156	0.17	5.3	0.33	4.6	0.10	1.4	6.2	173	0.37	11.5	5.4	75	0.37	11.46	1.11	0.14	34.623	24.9	8.22	6.70	0.07	<1	<1
O6-1S-8m	5/7/01	1254	0.16	5.0	1.53	21.4	0.36	5.0	17.5	490	0.38	11.8	6.1	85	0.40	12.39	1.00	0.13	34.388	24.7	8.22	7.32	0.14	<1	<1
Geomean FY '01			4.6		8.9		2.7				11.4		79					0.15					0.12		
O6-1S-8m	8/14/01	1100	0.13	4.0	0.07	1.0	0.31	4.3	4.0	111	0.38	11.8	5.1	71	0.38	11.77	1.06	0.13	34.806	26.8	8.24	7.01	0.17	<1	<1
O6-1S-8m	10/30/01	1109	0.15	4.6	0.82	11.5	0.03	0.4	7.3	206	0.42	13.0	5.6	78	0.44	13.63	1.02	0.08	34.851	26.8	8.22	6.88	0.14	<1	<1
O6-1S-8m	3/6/02	1112	0.12	3.7	0.45	6.3	0.02	0.3	13.0	364	0.42	13.0	6.6	92	0.50	15.49	0.97	0.08	34.383	24.1	8.23	6.93	0.16	<1	<1
O6-1S-8m	4/15/02	1133	0.19	5.9	2.33	32.6	0.03	0.4	14.8	416	0.40	12.4	7.0	99	0.40	12.39	0.98	0.07	34.105	25.5	8.23	6.80	0.13	<1	<1
Geomean FY '02			4.5		6.9		0.7				12.5		84					0.09					0.15		
O6-1S-8m	7/10/02	1122	0.12	3.7	2.32	32.5	0.17	2.4	14.4	404	0.38	11.8	7.8	109	0.39	12.08	0.87	0.08	34.311	26.2	8.22	7.19	0.07	<1	<1
O6-1S-8m	10/8/02	1115	0.15	4.6	2.25	31.5	0.04	0.6	12.1	341	0.38	11.8	6.8	96	0.39	12.08	0.96	0.11	34.644	27.0	8.24	6.87	0.07	<1	1
O6-1S-8m	3/12/03	1018	0.12	3.7	0.45	6.3	0.03	0.4	13.0	364	0.47	14.6	5.9	82	0.50	15.49	1.08	0.07	34.652	25.0	8.26	7.05	0.10	<1	2
O6-1S-8m	4/23/03	1120	0.19	5.9	2.33	32.6	0.03	0.4	14.8	416	0.40	12.4	6.8	95	0.40	12.39	0.98	0.09	34.564	24.9	8.29	7.59	0.12	<1	<1
Geomean FY '03			4.4		21.4		0.7				12.6		95					0.09					0.09		
O6-1S-8m	8/21/03	1110	0.10	3.1	0.11	1.5	0.10	1.4	5.1	143	0.36	11.2	6.6	93	0.38	11.77	n/a	0.09	34.758	28.5	8.27	6.70	0.03	<1	<1
O6-1S-8m	11/3/03	952	0.13	4.0	0.09	1.3	0.17	2.4	4.5	128	0.38	11.8	7.0	98	0.45	13.94	n/a	0.16	34.661	27.3	8.24	n/a	0.18	<1	<1
O6-1S-8m	3/18/04	1053	0.20	6.2	0.10	1.4	0.33	4.6	14.8	415	0.49	15.2	5.7	79	0.56	17.35	n/a	n/a	34.017	25.4	8.24	6.90	0.21	<1	<1
O6-1S-8m	5/24/04	1104	0.17	5.3	0.50	7.0	0.20	2.8	10.4	291	0.47	14.6	6.3	88	0.46	14.25	n/a	n/a	33.26	26.8	8.23	7.00	0.01	<1	<1
Geomean FY '04			4.5		2.1		2.6				13.0		89					0.12					0.06		
O6-1S-8m	9/22/04	1138	0.09	2.8	0.02	0.3	0.31	4.3	2.4	67	0.29	9.0	4.0	56	0.31	9.60	n/a	0.08	24.90	n/a	8.28	6.95	0.13	<1	<1
O6-1S-8m	11/29/04	1046	0.09	2.8	0.41	5.7	0.14	2.0	4.5	127	0.32	9.9	4.3	60	0.31	9.60	n/a	0.07	33.69	27.1	8.30	9.79	0.05	<1	<1
O6-1S-8m	1/24/05	1124	0.07	2.2	0.19	2.7	0.14	2.0	4.8	134	0.30	9.3	4.7	66	0.30	9.29	n/a	0.07	34.770	25.5	8.33	6.87	0.07	<1	<1
O6-1S-8m	4/13/05	1130	0.13	4.0	0.42	5.9	0.16	2.2	6.4	178	0.39	12.1	4.5	63	0.40	12.39	n/a	0.10	34.350	25.4	8.30	6.82	0.08	1	1
Geomean FY '05			2.9		2.2		2.5				10.0		61					0.08					0.08		

NELHA Water Quality Laboratory

Transect 6, Station 1

7/26/1993 - 7/16/20

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		TP		TOC	Turbidity	Salinity	Temp.	pH	DO	Chl a	Fecal Coli.	Entero.
	M/D/Y	(2400)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg N/L)	(μM)	(μg Si/L)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg P/L)	(mgC/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(μg/L)	(Bact/100 ml)	(Bact/100 ml)
DOH LIMIT			5		4.5		2.5				12.5		100					0.10					0.30		
O6-1S-8m	7/21/05	1107	0.06	1.9	0.33	4.6	0.44	6.2	4.8	135	0.31	9.6	4.0	56	0.34	10.53	n/a	0.12	34.678	27.4	8.27	6.67	0.02	<1	<1
O6-1S-8m	10/13/05	1035	0.05	1.5	0.03	0.4	0.17	2.4	1.7	47	0.37	11.5	4.6	64	0.35	10.84	1.00	0.10	34.923	27.4	8.30	6.76	0.06	<1	<1
O6-1S-8m	3/15/06	1005	0.36	11.2	1.77	24.8	0.33	4.6	13.8	388	0.48	14.9	5.2	73	0.48	14.87	n/a	0.08	34.513	24.3	8.25	7.06	0.11	<1	1
O6-1S-8m	5/17/06	1045	0.17	5.3	1.78	24.9	0.05	0.7	13.1	368	0.52	16.1	6.3	88	0.52	16.11	0.98	0.14	34.322	24.8	8.28	7.14	0.07	<1	<1
Geomean FY '06			3.6		5.9		2.6				12.7		69					0.11					0.06		
O6-1S-8m	8/16/06	1051	0.12	3.7	0.34	4.8	0.36	5.0	2.9	82	0.36	11.2	5.2	72	0.41	12.70	0.94	0.16	34.589	26.8	8.24	9.17	0.09	<1	<1
O6-1S-8m	11/20/06	1047	0.17	5.3	1.49	20.9	0.52	7.3	11.0	309	0.39	12.1	5.5	77	0.41	12.70	1.08	0.34	34.478	26.6	8.27	6.85	0.15	1	<1
O6-1S-8m	2/12/07	1147	0.19	5.9	1.65	23.1	0.48	6.7	11.6	326	0.45	13.9	6.2	86	0.43	13.32	1.38	0.20	34.084	24.6	8.25	7.16	0.12	<1	<1
O6-1S-8m	4/16/07	1130	0.28	8.7	4.19	58.7	0.60	8.4	33.5	941	0.52	16.1	8.8	123	0.53	16.42	0.89	0.28	33.611	25.5	8.31	7.40	0.12	<1	<1
Geomean FY '07			5.6		19.2		6.7				13.2		88					0.23					0.12		
T6-1m	9/27/07	1027	0.17	5.3	0.73	10.2	0.01	0.1	7.7	217	0.32	9.9	5.4	76				0.16	34.725	26.6	8.08	6.56	0.08		
T6-1m	12/14/07	1025	0.08	2.6	0.44	6.1	0.00		4.8	134	0.31	9.7	9.1	127				0.07	34.625	25.6	8.19	6.72	0.34		
T6-1m	3/11/08	1033	0.12	3.8	1.10	15.4	0.06	0.8	8.4	237	0.16	5.0	7.1	100				0.14	34.782	24.7	8.11	6.53	0.35		
T6-1m	6/9/08	1055	0.10	3.2	0.44	6.2	0.16	2.2	19.8	557	0.26	8.2	5.4	76				0.1	34.578	25.1	8.11	5.77	0.21		
Geomean FY '08			3.6		8.8		0.6				7.9		93					0.11					0.21		
T6-1m	9/23/08	1151	0.02	0.5	0.37	5.2	0.51	7.1	3.0	84	0.30	9.3	5.1	72				0.10	34.787	27.0	8.09	6.50	0.13		
T6-1m	12/8/08	1055	0.18	5.5	0.42	5.9	1.20	16.8	3.9	109	0.37	11.5	5.3	74				0.08	34.900	26.0	8.32	5.76	0.04		
T6-1m	2/10/09	949	0.17	5.3	2.61	36.6	0.18	2.5	15.4	432	0.22	6.9	7.0	98				0.17	34.814	24.6	8.06	6.04	0.05		
T6-1m	6/30/09	1041	0.25	7.8	0.57	8	0.28	3.9	5.8	162	0.43	13.3	4.7	67				0.09	34.828	26.7	8.21	6.15	0.08		
Geomean FY '09			3.3		9.7		5.8				10.0		77					0.11					0.07		
T6-1m	9/10/09	1045	0.10	3.1	0.39	5.5	0.71	9.9	11.6	327	0.52	16	5.7	80				0.08	35.17	27.5	8.21	5.74	0.25		
T6-1m	11/24/09	1009	0.02	0.766	0.35	4.9	0.07	1	30.8	864	0.29	9.1	5.0	70				0.06	35.20	25.1	8.24	6.48	0.10		
T6-1m	2/24/10	1043	0.15	4.5	0.31	4.4	0.39	5.5	3.4	95	0.36	11	7.4	104				0.08	34.78	24.6	8.22	5.57	0.20		
T6-1m	5/26/10	959	0.02	0.6	0.40	5.6	0.35	4.9	4.4	124	0.21	6.6	7.2	102				0.04	34.73	25.1	8.28	6.85	0.09		
Geomean FY '10			1.6		5.1		4.0				10.1		88					0.06					0.15		
T6-1m	8/11/10	1018	0.07	2.3	1.09	15.2	0.21	2.9	9.1	255	0.36	11.3	4.1	57				0.05	34.75	25.93	8.22	6.77	0.11		
T6-1m	11/9/10	1014	0.05	1.4	0.37	5.2	0.21	3.0	7.2	203	0.42	13	5.9	83				0.12	34.90	26.37	8.28	6.21	0.08		
T6-1m	1/11/11	1242	0.18	5.6	2.11	29.5	0.11	1.5	14.6	409	0.44	13.5	3.9	55				0.06	34.82	24.80	8.25	6.48	0.15		
T6-1m	4/27/11	1016	0.15	4.7	0.46	6.5	0.15	2.1	8.0	225	0.46	14.2	3.4	48				0.06	34.82	24.82	8.23	6.39	0.19		
Geomean FY '11			3.0		11.1		2.3				13.0		59					0.07					0.13		

NELHA Water Quality Laboratory

Transect 6, Station 1

7/26/1993 - 7/16/20

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		TP		TOC	Turbidity	Salinity	Temp.	pH	DO	Chl a	Fecal Coli.	Enter.
	M/D/Y	(2400)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg N/L)	(μM)	(μg Si/L)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg P/L)	(mgC/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(μg/L)	(Bact/100 ml)	(Bact/100 ml)
DOH LIMIT			5		4.5		2.5				12.5		100					0.10					0.30		
T6-1m	7/27/11	1101	0.18	5.7	0.26	3.6	0.13	1.8	2.0	57	0.50	15.4	3.3	47				0.05	34.77	25.97	8.23	6.65	0.11		
T6-1m	10/19/11	1043	0.06	1.8	0.34	4.8	0.15	2.1	3.3	92	0.37	11.6	4.0	56				0.05	35.10	26.55	8.27	7.16	0.11		
T6-1m	1/26/12	1007	0.08	2.6	0.53	7.4	0.01	0.1	5.6	157	0.36	11.1	3.6	50				0.07	34.91	24.43	8.20	6.67	0.11		
T6-1m	4/25/12	1028	0.16	5.1	0.69	9.6	0.36	5.1	6.3	176	0.48	14.9	5.3	74				0.06	34.76	24.88	8.20	6.88	0.14		
Geomean FY '12			3.4		5.9		1.2				13.1		56					0.06					0.12		
T6-1m	7/25/12	1027	0.05	1.5	0.46	6.5	0.41	5.8	3.6	100	0.42	12.9	5.1	71				0.09	34.99	26.45	8.27	7.65	0.10		
T6-1m	11/28/12	1025	0.11	3.4	1.10	15.4	0.27	3.8	6.1	171	0.54	16.6	6.8	96				0.05	35.08	25.13	8.20	6.70	0.15		
T6-1m	1/24/13	1012	0.12	3.7	1.05	14.7	0.11	1.6	5.7	160	0.49	15.1	5.8	81				0.03	34.95	24.72	8.23	6.51	0.10		
T6-1m	4/24/13	936	0.22	6.95	2.11	29.5	0.14	1.95	6.3	176	0.57	17.8	9.2	129				0.07	34.87	24.84	8.21	6.73	0.12		
Geomean FY '13			3.4		14.4		2.9				15.5		92					0.06					0.12		
T6-1m	8/6/13	1100	0.14	4.3	1.94	27.2	0.39	5.5	10.3	288	0.67	20.7	5.9	82				0.07	34.97	26.2	8.22	7.49	0.20		
T6-1m	10/30/13	1005	0.15	4.6	0.41	5.7	0.14	1.9	2.8	80	0.49	15.2	6.4	89				0.02	34.90	27.0	8.22	5.97	0.14		
T6-1m	2/5/14	1032	0.16	5.1	0.60	8.4	0.47	6.6	3.3	93	0.44	13.6	4.3	61				0.02	34.97	25.2	8.20	6.58	0.04		
T6-1m	5/7/14	1026	0.11	3.5	0.41	5.7	0.31	4.4	2.5	69	0.45	14.0	6.3	88				0.02	34.76	25.7	8.20	5.65	0.12		
Geomean FY '14			4.3		9.3		4.2				15.6		79					0.03					0.11		
T6-1m	8/6/14	1018	0.18	5.7	0.62	8.7	0.54	7.6	4.1	114	0.50	15.6	5.1	71				0.04	34.84	26.6	8.24	6.10	0.15		
T6-1m	12/4/14	1057	0.17	5.2	1.64	23.0	0.61	8.5	8.7	244	0.52	16.2	7.9	111				0.05	34.71	25.9	8.26	6.51	0.02		
T6-1m	3/5/15	1102	0.13	4.0	2.55	35.7	0.25	3.5	9.5	266	0.39	12.1	8.7	122				0.10	34.54	25.1	8.27	6.90	0.16		
T6-1m	6/18/15	1028	0.16	5.1	2.61	36.6	0.47	6.6	10.1	285	0.25	7.7	12.3	173				0.06	34.18	26.5	8.21	6.89	0.17		
Geomean FY '15			5.0		22.6		6.2				12.4		113					0.06					0.10		
T6-1m	8/27/15	1030	0.16	5.0	0.54	7.5	0.27	3.8	5.1	142	0.19	6.0	5.3	74				0.02	34.60	28.3	8.27	6.16	0.20		
T6-1m	11/18/15	1101	0.18	5.5	0.57	8.0	0.48	6.7	5.3	148	0.53	16.5	5.3	74				0.08	34.63	27.4	8.27	6.73	0.15		
T6-1m	3/2/16	944	0.15	4.8	0.31	4.3	0.48	6.7	0.2	7	0.48	14.9	4.0	56				0.11	34.75	25.3	8.26	5.84	0.09		
T6-1m	5/4/16	1040	0.09	2.9	0.99	13.8	0.15	2.1	5.1	142	0.35	10.8	6.0	84				0.06	34.51	25.8	8.18	6.12	0.17		
Geomean FY '16			4.4		7.7		4.4				11.2		71					0.06					0.15		
T6-1m	7/7/16	1043	0.18	5.7	0.89	12.5	0.43	6.0	8.9	250	0.52	16.1	5.2	73				0.09	34.38	26.4	8.32	6.65	0.13		
T6-1m	12/21/16	1102	0.08	2.4	0.42	5.9	0.27	3.8	2.7	77	0.36	11.1	3.8	53				0.03	34.61	25.6	8.28	5.87	0.12		
T6-1m	3/1/17	1150	0.05	1.5	0.89	12.4	0.17	2.4	6.0	170	0.32	9.9	4.5	63				0.10	34.58	24.5	8.25	5.85	0.16		
T6-1m	5/10/17	1140	0.05	1.4	0.23	3.2	0.25	3.5	2.2	62	0.26	8.0	3.8	53				0.10	34.82	25.9	8.22	4.22	0.05		
Geomean FY '17			2.3		7.4		3.7				10.9		60					0.07					0.11		

NELHA Water Quality Laboratory

Transect 6, Station 1

7/26/1993 - 7/16/20

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		TP		TOC	Turbidity	Salinity	Temp.	pH	DO	Chl a	Fecal Coli.	Enter.
	M/D/Y	(2400)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg N/L)	(μM)	(μg Si/L)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg P/L)	(mgC/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(μg/L)	(Bact/100 ml)	(Bact/100 ml)
DOH LIMIT			5		4.5		2.5				12.5		100					0.10					0.30		
T6-1m	9/28/17	1033	0.16	4.9	0.56	7.8	0.39	5.5	4.3	122	0.41	12.6	3.3	46				0.10	34.67	27.6	8.18	4.84	0.22		
T6-1m	11/30/17	1019	0.16	4.9	1.56	21.9	0.61	8.5	7.6	212	0.41	12.6	5.3	74				0.08	35.00	26.2	8.24	5.59	0.16		
T6-1m	2/6/18	1110	0.10	3.0	0.44	6.1	0.52	7.3	3.6	102	0.38	11.8	2.8	39				0.11	34.75	24.8	8.16	5.79	0.10		
T6-1m	5/17/18	1034	0.14	4.4	1.23	17.2	0.26	3.6	10.2	288	0.42	13.0	3.1	44				0.09	34.50	26.0	8.16	6.53	0.14		
Geomean FY '18			4.2		11.6		5.9				12.5		49					0.09					0.15		
T6-1m	9/26/18	1324	0.04	1.2	0.08	1.1	0.26	3.6	4.5	125	0.35	10.9	2.9	40				0.09	34.58	27.8	8.16	4.73	0.15		
T6-1m	11/14/18	1129	0.08	2.6	0.86	12.0	0.48	6.7	3.2	89	0.36	11.0	4.9	69				0.10	34.77	27.3	8.22	6.58	0.20		
T6-1m	1/23/19	1113	0.11	3.3	0.35	4.9	0.20	2.8	4.4	123	0.38	11.8	2.5	35				0.10	34.83	24.9	8.19	5.08	0.20		
T6-1m	4/17/19	1108	0.13	4.1	0.29	4.0	0.20	2.8	2.0	55	0.39	12.0	3.1	44				0.06	34.67	25.7	8.13	7.07	0.10		
Geomean FY '19			2.5		4.0		3.7				11.4		45					0.09					0.16		
T6-1m	8/15/19	1036	0.05	1.7	0.11	1.6	0.14	2.0	4.7	133	0.31	9.5	2.3	32				0.11	35.19	28.2	8.27	6.78	0.14		
T6-1m	11/20/19	1149	0.13	4.0	0.34	4.7	0.75	10.5	1.3	37	0.37	11.6	2.8	40				0.11	35.15	27.6	8.23	6.84	0.13		
T6-1m	1/23/20	1058	0.16	5.0	0.65	9.1	0.06	0.9	6.6	185	0.42	13.0	4.5	63				0.25	34.76	24.8	8.22	7.07	0.15		
T6-1m	6/25/20	1018	0.05	1.6	0.34	4.8	0.15	2.1	3.4	97	0.27	8.3	3.0	42				0.06	35.44	26.0	8.18	6.61	0.21		
Geomean FY '20			2.7		4.3		2.5				10.4		43					0.12					0.15		

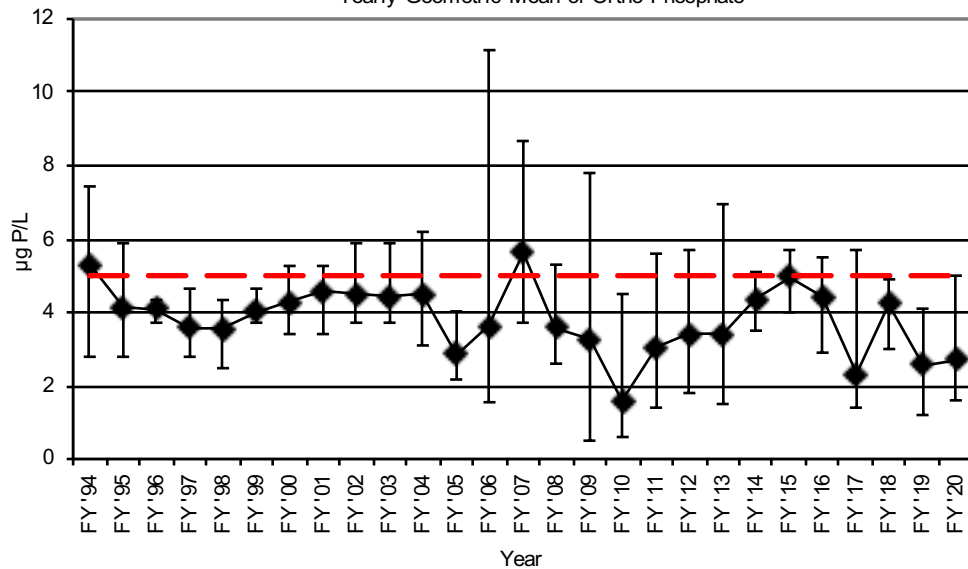
NELHA Water Quality Laboratory

Transect 6, Station 1

7/26/1993 - 7/16/20

NELHA Offshore Transect 6, Station 1

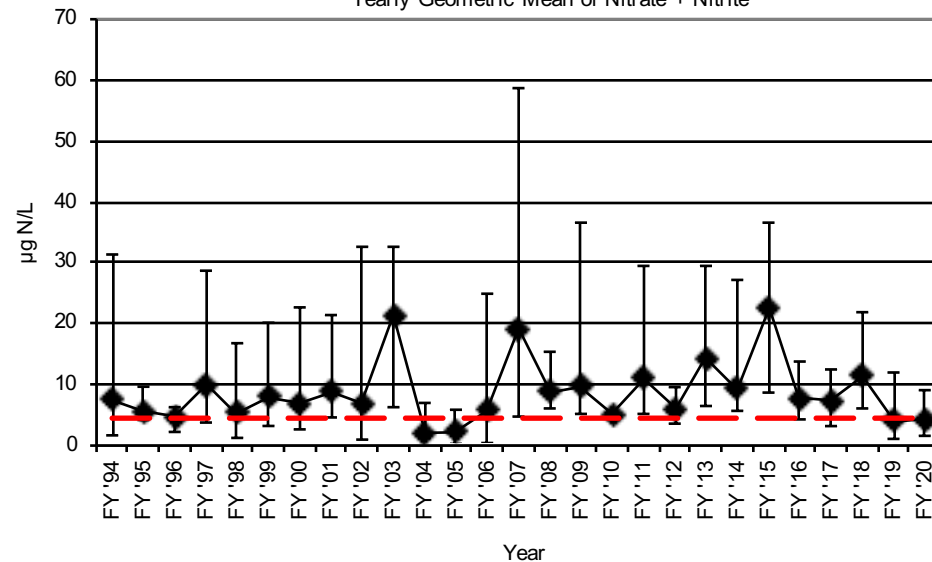
Yearly Geometric Mean of Ortho-Phosphate



Transect 6, Station 1 2014 HDOH Class AA Water Quality Standard

NELHA Offshore Transect 6, Station 1

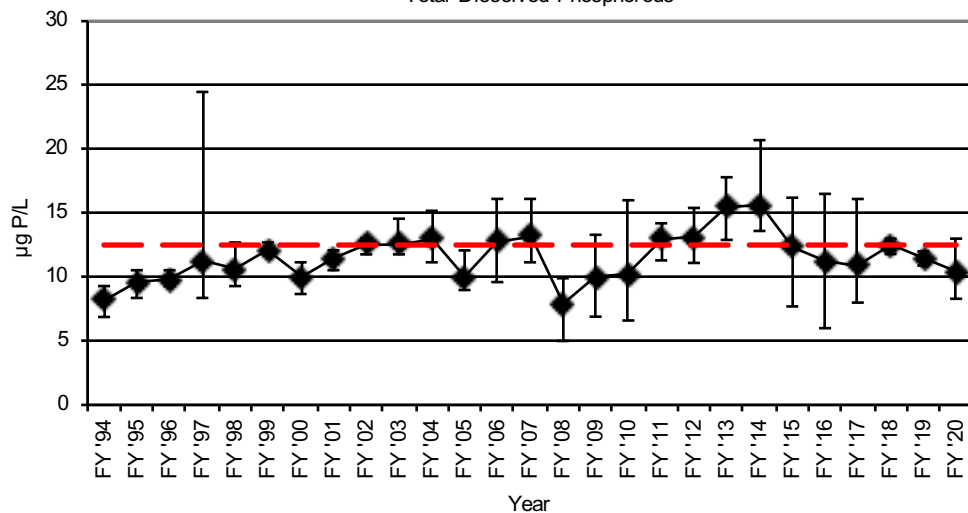
Yearly Geometric Mean of Nitrate + Nitrite



Transect 6, Station 1 2014 HDOH Class AA Water Quality Standard

NELHA Offshore Transect 6, Station 1

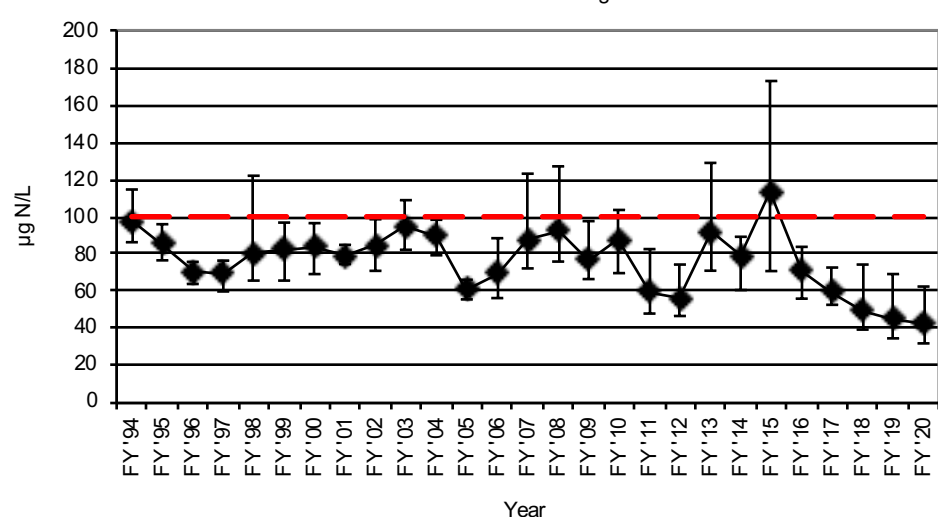
Yearly Geometric Mean of Total Dissolved Phosphorous



Transect 6, Station 1 2014 HDOH Class AA Water Quality Standard

NELHA Offshore Transect 6, Station 1

Yearly Geometric Mean of Total Dissolved Nitrogen



Transect 6, Station 1 2014 HDOH Class AA Water Quality Standard

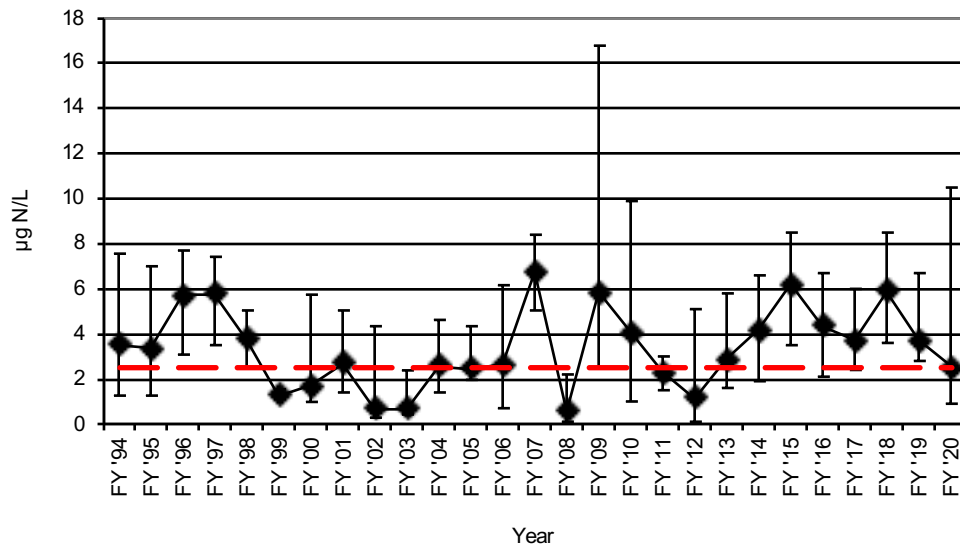
NELHA Water Quality Laboratory

Transect 6, Station 1

7/26/1993 - 7/16/20

NELHA Offshore Transect 6, Station 1

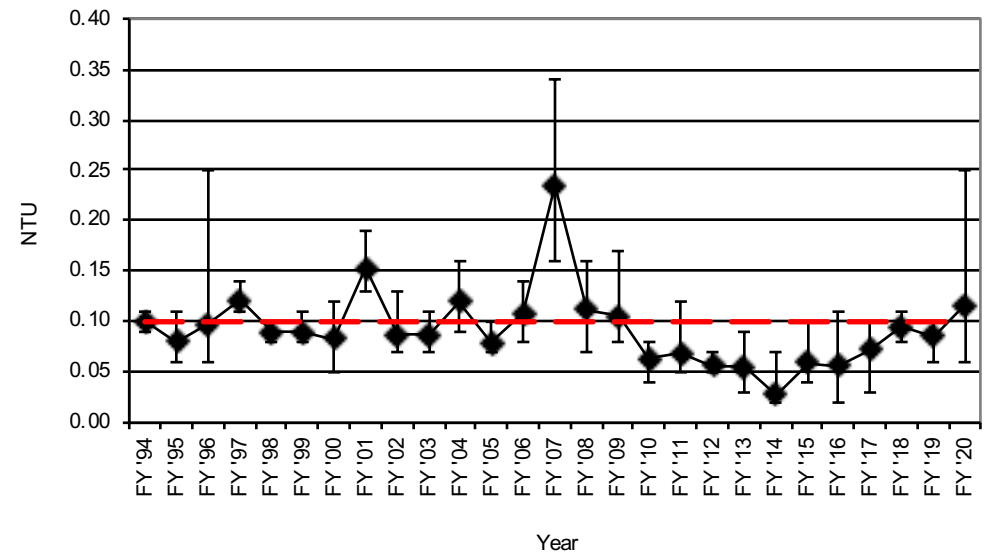
Yearly Geometric Mean of Total Ammonia



Transect 6, Station 1 2014 HDOH Class AA Water Quality Standard

NELHA Offshore Transect 6, Station 1

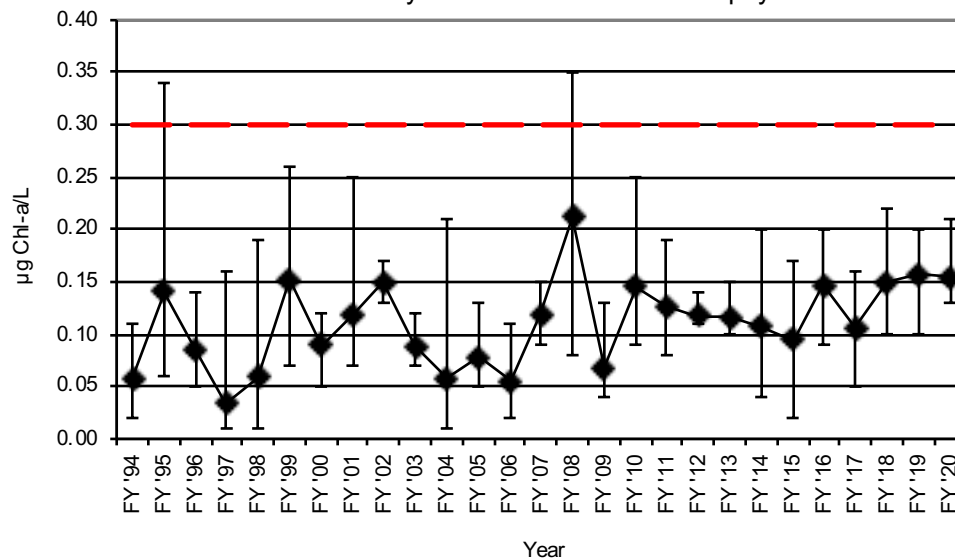
Yearly Geometric Mean of Turbidity



Transect 6, Station 1 2014 HDOH Class AA Water Quality Standard

NELHA Offshore Transect 6, Station 1

Yearly Geometric Mean of Chlorophyll-a



Transect 6, Station 1 2014 HDOH Class AA Water Quality Standard

NELHA Water Quality Laboratory

Transect 6, Station 2

7/26/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.1					0.3
O6-2S-23m	7/26/93	1152	0.13	4.0	0.15	2.1	0.40	5.6	3.4	96					0.07	34.430	27.0			
O6-2S-23m	12/6/93	935	0.08	2.5	0.28	3.9	0.09	1.3	3.2	90					0.11	34.795	25.8			
O6-2S-23m	3/7/94	904	0.22	6.8	0.45	6.3	0.17	2.4	6.1	171					0.08	34.156	24.9			
O6-2S-23m	6/15/94	904	0.22	6.8	0.38	5.3	0.12	1.7	4.0	111					0.11	34.499	25.6			
Geomean	FY '94		4.6		4.1		2.3								0.09					
O6-2S-23m	9/9/94	853	0.08	2.5	0.27	3.8	0.21	2.9	4.9	138					0.13	34.488	27.6			
O6-2S-23m	11/14/94	807	0.15	4.6	0.66	9.2	0.61	8.5	8.8	246					0.08	34.461	26.0			
O6-2S-23m	3/22/95	836	0.16	5.0	0.18	2.5	0.35	4.9	4.0	112					0.08	34.179	25.1			
O6-2S-23m	6/20/95	830	0.12	3.7	0.23	3.2	0.12	1.7	3.6	101					0.08	34.399	26.2			
Geomean	FY '95		3.8		4.1		3.8								0.09					
O6-2S-23m	9/26/95	933	0.14	4.3	0.63	8.8	0.53	7.4	9.7	273					0.17	34.310	27.0			
O6-2S-23m	11/14/95	1108	0.11	3.4	0.29	4.1	0.49	6.9	4.3	121					0.11	34.271	26.9			
O6-2S-23m	3/12/96	1132	0.15	4.6	0.18	2.5	0.50	7.0	3.8	107					0.08	34.145	25.4			
O6-2S-23m	5/14/96	1126	0.12	3.7	0.27	3.8	0.19	2.7	6.9	194					0.11	34.212	27.4			
Geomean	FY '96		4.0		4.3		5.6								0.11					
O6-2S-23m	7/31/96	1155	0.15	4.6	2.11	29.6	0.53	7.4	26.2	736					0.14	33.604	27.8			
O6-2S-23m	10/2/96	1127	0.09	2.8	0.81	11.3	0.45	6.3	11.9	333					0.13	34.319	28.4			
O6-2S-23m	1/7/97	1134	0.08	2.5	0.09	1.3	0.23	3.2	3.7	103					0.08	34.670	25.7			
O6-2S-23m	4/28/97	1153	0.12	3.7	0.31	4.3	0.45	6.3	5.7	161					0.10	34.328	26.5			
Geomean	FY '97		3.3		6.5		5.6								0.11					
O6-2S-23m	8/19/97	1132	0.09	2.8	0.38	5.3	0.22	3.1	7.9	220					0.15	34.471	27.1			
O6-2S-23m	10/7/97	1037	0.11	3.4	0.13	1.8	0.37	5.2	4.1	114					0.10	34.678	27.6			
O6-2S-23m	3/4/98	1209	0.12	3.7	0.76	10.6	0.25	3.5	15.9	446					0.09	34.729	25.1			
O6-2S-23m	5/5/98	1158	0.14	4.3	1.24	17.4	0.29	4.1	18.3	514					0.14	34.528	24.4			
Geomean	FY '98		3.5		6.5		3.9								0.12					
O6-2S-23m	7/7/98	1217	0.14	4.3	0.87	12.2	0.07	1.0	13.2	371					0.09	34.698	26.3			
O6-2S-23m	10/6/98	1126	0.10	3.1	0.42	5.9	0.10	1.4	5.1	143					0.08	34.989	27.1			
O6-2S-23m	1/19/99	1202	0.11	3.4	0.77	10.8	0.18	2.5	12.5	351					0.10	34.874	25.1			
O6-2S-23m	4/12/99	1208	0.12	3.7	0.20	2.8	0.11	1.5	4.5	126					0.08	34.631	24.2			
Geomean	FY '99		3.6		6.8		1.5								0.09					

NELHA Water Quality Laboratory

Transect 6, Station 2

7/26/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.1					0.3
O6-2S-23m	7/6/99	1235	0.10	3.1	0.28	3.9	0.05	0.7	7.6	212					0.14	34.802	25.7			
O6-2S-23m	10/4/99	1255	0.12	3.7	0.26	3.6	0.13	1.8	3.3	92					0.14	34.956	26.3			
O6-2S-23m	1/12/00	1203	0.16	5.0	1.37	19.2	0.41	5.7	20.6	579					0.15	34.518	24.8			
O6-2S-23m	4/11/00	1100	0.11	3.4	0.51	7.1	0.06	0.8	9.1	255					0.07	34.658	24.4			
Geomean FY '00			3.7		6.7		1.6								0.12					
O6-2S-23m	7/25/00	1219	0.11	3.4	0.33	4.6	0.10	1.4	7.2	201					0.14	34.716	26.7			
O6-2S-23m	10/31/00	1205	0.13	4.0	0.42	5.9	0.08	1.1	10.1	285					0.13	34.736	26.9			
O6-2S-23m	3/6/01	1150	0.17	5.3	0.26	3.6	0.12	1.7	6.2	174					0.14	34.621	24.9			
O6-2S-23m	5/7/01	1250	0.16	5.0	1.53	21.4	0.38	5.3	17.7	498					0.16	34.373	24.7			
Geomean FY '01			4.3		6.8		1.9								0.14					
O6-2S-23m	8/14/01	1055	0.12	3.7	0.14	2.0	0.31	4.3	3.9	109					0.19	34.814	26.8			
O6-2S-23m	10/30/01	1106	0.13	4.0	0.47	6.6	0.03	0.4	4.7	133					0.10	34.911	26.7			
O6-2S-23m	3/6/02	1109	0.27	8.4	3.13	43.8	0.08	1.1	51.3	1441					0.08	33.836	24.3			
O6-2S-23m	4/15/02	1128	0.17	5.3	2.05	28.7	0.07	1.0	12.4	348					0.08	34.168	25.5			
Geomean FY '02			5.1		11.3		1.2								0.11					
O6-2S-23m	7/10/02	1117	0.09	2.8	1.73	24.2	0.18	2.5	12.6	355					0.11	34.368	26.2			
O6-2S-23m	10/8/02	1110	0.10	3.1	1.91	26.8	0.06	0.8	13.0	364					0.08	34.594	27.1			
O6-2S-23m	3/12/03	1010	0.11	3.4	0.38	5.3	0.03	0.4	5.4	151					0.09	34.646	25.0			
O6-2S-23m	4/23/03	1117	0.15	4.6	1.17	16.4	0.03	0.4	11.3	318					0.12	34.705	24.9			
Geomean FY '03			3.4		15.4		0.8								0.10					
O6-2S-23m	8/21/03	1054	0.09	2.8	0.06	0.8	0.10	1.4	4.5	126					0.08	34.770	28.5			
O6-2S-23m	11/3/03	1035	0.12	3.7	0.13	1.8	0.26	3.6	5.0	140					0.10	34.628	27.5			
O6-2S-23m	3/18/04	1046	0.18	5.6	1.54	21.6	0.35	4.9	13.7	384					n/a	34.031	25.4			
O6-2S-23m	5/24/04	1058	0.14	4.3	0.12	1.7	0.20	2.8	5.2	147					n/a	33.32	26.7			
Geomean FY '04			4.0		2.7		2.9								0.09					
O6-2S-23m	9/22/04	1133	0.08	2.5	0.01	0.1	0.27	3.8	2.4	67					0.09	30.76	27.9			
O6-2S-23m	11/29/04	1040	0.09	2.8	0.35	4.9	0.13	1.8	4.5	127					0.07	33.62	27.0			
O6-2S-23m	1/24/05	1117	0.10	3.1	0.64	9.0	0.12	1.7	8.3	232					0.07	34.730	25.5			
O6-2S-23m	4/13/05	1124	0.20	6.2	0.43	6.0	0.18	2.5	9.2	258					0.12	34.457	25.1			
Geomean FY '05			3.4		2.5		2.3								0.09					

NELHA Water Quality Laboratory

Transect 6, Station 2

7/26/1993 - 7/16/20

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		Turbidity	Salinity	Temp.	pH	DO	Chl a
	M/D/Y	(2400)	(µM)	(µg P/L)	(µM)	(µg N/L)	(µM)	(µg N/L)	(µM)	(µg Si/L)	(µM)	(µg P/L)	(µM)	(µg N/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.1					0.3
O6-2S-23m	7/21/05	1058	0.08	2.5	0.41	5.7	0.45	6.3	8.7	243					0.13	34.767	27.4			
O6-2S-23m	10/13/05	1031	0.06	1.9	0.12	1.7	0.16	2.2	3.5	98					0.11	34.864	27.4			
O6-2S-23m	3/15/06	958	0.10	3.1	0.60	8.4	0.40	5.6	8.0	224					0.10	34.649	24.3			
O6-2S-23m	5/17/06	1038	0.17	5.3	1.98	27.7	0.07	1.0	16.6	466					0.13	34.191	24.9			
Geomean FY '06			2.9		6.9		3.0								0.12					
O6-2S-23m	8/16/06	1047	0.11	3.4	0.35	4.9	0.35	4.9	3.1	87					0.14	34.518	26.8			
O6-2S-23m	11/20/06	1040	0.19	5.9	1.83	25.6	0.52	7.3	15.4	433					0.16	34.352	26.6			
O6-2S-23m	2/12/07	1141	0.27	8.4	2.01	28.2	0.55	7.7	13.2	371					0.24	34.015	24.6			
O6-2S-23m	4/16/07	1121	0.21	6.5	2.26	31.7	0.47	6.6	16.4	461					0.17	34.225	26.5			
Geomean FY '07			5.7		18.3		6.5								0.17					
T6-10m	9/27/07	1020	0.17	5.2	0.64	9.0	0.15	2.1	4.9	138	0.33	10.1	5.7	80	0.13	34.707	26.7	8.10	6.37	0.07
T6-10m	12/14/07	1028	0.12	3.6	0.44	6.1	0.00		4.9	138	0.38	11.9	5.9	83	0.10	34.566	25.6	8.18	6.70	0.31
T6-10m	3/11/08	1035	0.13	4.0	1.23	17.2	0.06	0.8	21.3	598	0.29	9.1	7.6	107	0.09	34.680	24.7	8.1	6.57	0.29
T6-10m	6/9/08	1102	0.09	2.9	0.35	4.9	0.16	2.2	17.4	489	0.25	7.8	4.7	66	0.08	34.553	25.1	8.12	5.8	0.13
Geomean FY '08			3.8		8.2		1.5				9.6		82		0.10					0.17
T6-10m	9/23/08	1157	0.03	1	0.43	6	0.47	6.6	3.5	98	0.34	10.4	5.8	82	0.08	34.755	26.9	8.10	6.43	0.11
T6-10m	12/8/08	1058	0.16	5	0.36	5.1	0.34	4.7	3.8	106	0.27	8.3	4.9	68	0.06	34.899	26.1	8.31	5.71	0.04
T6-10m	2/10/09	954	0.15	4.8	1.76	24.7	0.18	2.5	12.3	344	0.32	9.8	11.9	167	0.15	34.724	24.8	8.05	6.11	0.07
T6-10m	6/30/09	1045	0.27	8.3	0.41	5.8	0.12	1.7	4.6	129	0.47	14.6	5.1	72	0.34	34.862	26.7	8.20	6.28	0.12
Geomean FY '09			3.8		8.1		3.4				10.5		91		0.13					0.08
T6-10m	9/10/09	1054	0.16	5.1	0.41	5.7	0.24	3.4	7.0	197	0.57	17.6	6.1	85	0.11	35.26	27.2	8.22	5.70	0.3
T6-10m	11/24/09	1013	0.02	0.766	0.30	4.2	0.10	1.4	5.2	145	0.27	8.5	4.8	68	0.04	35.20	25.1	8.25	6.51	0.12
T6-10m	2/24/10	1047	0.14	4.3	0.27	3.8	0.32	4.5	3.6	102	0.12	3.7	8.7	121	0.07	34.78	24.6	8.22	5.61	0.11
T6-10m	5/26/10	1004	0.02	0.7	0.39	5.4	0.28	3.9	13.1	367	0.19	6	4.4	61	0.05	34.73	25.1	8.28	6.88	0.07
Geomean FY '10			1.9		4.7		3.0				7.6		81		0.06					0.13
T6-10m	8/11/10	1022	0.05	1.7	0.67	9.4	0.20	2.8	8.6	241	0.32	9.9	3.5	50	0.09	34.84	26.01	8.23	9.92	0.11
T6-10m	11/9/10	1018	0.05	1.5	0.36	5	0.26	3.6	3.4	96	0.37	11.6	5.0	71	0.09	34.88	26.40	8.28	6.20	0.06
T6-10m	1/11/11	1245	0.13	4.1	0.61	8.5	0.20	2.8	11.2	314	0.42	12.9	3.6	51	0.03	34.91	25.01	8.25	6.51	0.09
T6-10m	4/27/11	1020	0.15	4.6	0.44	6.1	0.20	2.8	9.8	275	0.43	13.4	3.6	50	0.07	34.79	24.84	8.23	6.44	0.19
Geomean FY '11			2.6		7.0		3.0				11.9		55		0.06					0.10

NELHA Water Quality Laboratory

Transect 6, Station 2

7/26/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.1					0.3
T6-10m	7/27/11	1105	0.18	5.6	0.26	3.7	0.09	1.3	2.1	60	0.47	14.5	3.3	47	0.10	34.77	25.99	8.23	6.59	0.11
T6-10m	10/19/11	1047	0.06	1.9	0.34	4.8	0.15	2.1	3.2	89	0.34	10.5	3.9	55	0.08	35.08	26.54	8.25	7.11	0.12
T6-10m	1/26/12	1011	0.08	2.4	0.41	5.8	0.09	1.3	4.7	132	0.34	10.5	3.8	54	0.03	34.94	24.44	8.20	6.76	0.12
T6-10m	4/25/12	1030	0.16	5	0.69	9.7	0.27	3.8	6.9	194	0.46	14.1	5.2	73	0.09	34.77	24.87	8.19	6.79	0.06
Geomean	FY '12		3.4		5.6		1.9				12.3		56		0.07					0.10
T6-10m	7/25/12	1030	0.05	1.6	0.41	5.8	0.41	5.8	3.5	98	0.56	17.4	8.7	121	0.12	35.01	26.49	8.27	7.53	0.15
T6-10m	11/28/12	1030	0.11	3.4	1.00	14	0.23	3.2	5.7	161	0.43	13.2	4.8	67	0.05	35.12	25.14	8.20	6.75	0.19
T6-10m	1/24/13	1015	0.12	3.7	1.06	14.8	0.14	1.9	5.7	161	0.44	13.7	5.1	71	0.02	34.98	24.72	8.22	6.40	0.09
T6-10m	4/24/13	940	0.22	6.85	2.10	29.35	0.16	2.25	6.9	194	0.53	16.5	6.6	93	0.04	34.91	24.89	8.21	6.73	0.12
Geomean	FY '13		3.4		13.7		3.0				15.1		86		0.05					0.13
T6-10m	8/6/13	1102	0.14	4.2	1.72	24.1	0.38	5.3	10.2	288	0.34	10.6	6.7	94	0.08	34.83	26.2	8.20	7.50	0.12
T6-10m	10/30/13	1009	0.15	4.6	0.47	6.6	0.25	3.5	3.0	84	0.43	13.4	5.2	72	0.03	34.89	27.0	8.22	5.92	0.08
T6-10m	2/5/14	1036	0.14	4.3	0.49	6.8	0.47	6.6	2.8	79	0.42	13.0	5.3	74	0.02	34.99	25.2	8.20	6.55	0.16
T6-10m	5/7/14	1029	0.14	4.2	0.41	5.7	0.32	4.5	2.4	67	0.40	12.5	6.3	88	0.04	34.78	25.7	8.20	5.57	0.11
Geomean	FY '14		4.3		8.9		4.8				12.3		82		0.04					0.11
T6-10m	8/6/14	1022	0.17	5.3	0.51	7.1	0.44	6.2	3.4	95	0.53	16.3	4.8	67	0.08	34.85	26.6	8.23	6.16	0.04
T6-10m	12/4/14	1101	0.18	5.6	2.33	32.6	0.54	7.6	10.8	304	0.52	16.1	8.0	112	0.07	34.81	26.1	8.26	6.55	0.21
T6-10m	3/5/15	1109	0.09	2.7	1.51	21.2	0.55	7.7	6.0	168	0.36	11.1	7.2	100	0.08	34.69	25.3	8.27	6.91	0.15
T6-10m	6/18/15	1034	0.15	4.7	2.51	35.1	0.44	6.2	11.6	325	0.24	7.3	9.7	135	0.08	34.11	26.5	8.21	6.89	0.12
Geomean	FY '15		4.4		20.4		6.9				12.1		101		0.08					0.11
T6-10m	8/27/15	1036	0.16	4.9	0.44	6.1	0.43	6.0	18.0	505	0.39	12.2	4.4	61	0.02	34.64	28.3	8.28	6.14	0.21
T6-10m	11/18/15	1107	0.17	5.3	0.84	11.7	0.41	5.7	7.2	202	0.48	14.8	6.4	90	0.07	34.63	27.4	8.27	6.70	0.17
T6-10m	3/2/16	948	0.15	4.6	0.34	4.7	0.33	4.6	1.2	35	0.48	14.9	5.1	71	0.09	34.75	25.2	8.26	5.79	0.11
T6-10m	5/4/16	1046	0.12	3.7	0.59	8.3	0.24	3.4	5.2	145	0.49	15.1	4.7	66	0.09	34.54	25.8	8.19	6.14	0.18
Geomean	FY '16		4.6		7.3		4.8				14.2		71		0.06					0.16
T6-10m	7/7/16	1049	0.15	4.8	0.42	5.9	0.59	8.3	8.5	238	0.46	14.2	3.6	51	0.09	34.38	26.6	8.32	6.75	0.20
T6-10m	12/21/16	1115	0.05	1.5	0.26	3.7	0.06	0.9	1.9	54	0.35	10.7	3.3	46	0.03	34.62	25.6	8.29	5.86	0.13
T6-10m	3/1/17	1155	0.05	1.5	0.77	10.8	0.09	1.2	5.7	159	0.31	9.7	5.2	73	0.10	34.60	24.6	8.26	5.83	0.18
T6-10m	5/10/17	1144	0.05	1.4	0.20	2.8	0.16	2.2	2.0	55	0.23	7.2	2.6	37	0.07	34.84	25.8	8.24	4.25	0.09
Geomean	FY '17		2.0		5.1		2.1				10.1		50		0.07					0.14

NELHA Water Quality Laboratory

Transect 6, Station 2

7/26/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.1					0.3
T6-10m	9/28/17	1039	0.17	5.4	0.46	6.5	0.27	3.8	3.8	107	0.39	12.2	3.8	54	0.10	34.72	27.6	8.18	4.76	0.20
T6-10m	11/30/17	1023	0.12	3.7	0.73	10.2	0.54	7.5	3.9	110	0.36	11.3	3.1	43	0.10	35.12	26.2	8.24	5.66	0.17
T6-10m	2/6/18	1115	0.09	2.7	0.28	3.9	0.46	6.5	2.8	79	0.34	10.4	1.9	26	0.16	34.72	24.8	8.16	5.83	0.11
T6-10m	5/17/18	1039	0.15	4.7	1.58	22.2	0.23	3.2	11.2	314	0.42	12.9	5.0	70	0.07	34.49	25.8	8.17	6.42	0.12
Geomean	FY '18		4.0		6.4		4.9				11.7		45		0.10					0.15
T6-10m	9/26/18	1329	0.04	1.2	0.16	2.3	0.16	2.2	1.4	38	0.35	10.7	3.2	45	0.10	34.67	27.7	8.15	4.75	0.13
T6-10m	11/14/18	1133	0.10	3.1	1.61	22.5	0.48	6.7	6.9	195	0.35	10.9	6.3	89	0.10	34.71	27.3	8.22	6.54	0.26
T6-10m	1/23/19	1118	0.11	3.5	0.55	7.7	0.10	1.4	5.3	149	0.37	11.6	4.8	68	0.10	34.77	24.9	8.19	5.09	0.18
T6-10m	4/17/19	1112	0.13	4.0	0.32	4.5	0.25	3.5	2.2	61	0.36	11.2	2.5	35	0.04	34.67	25.7	8.13	7.03	0.10
Geomean	FY '19		2.7		7.3		2.9				11.1		55		0.08					0.16
T6-10m	8/15/19	1041	0.05	1.6	0.03	0.4	0.08	1.1	4.6	130	0.31	9.6	2.1	30	0.12	35.20	28.2	8.27	6.66	0.13
T6-10m	11/20/19	1155	0.13	3.9	0.28	3.9	0.51	7.2	1.3	38	0.40	12.4	2.7	38	0.08	35.15	27.6	8.24	6.97	0.13
T6-10m	1/23/20	1101	0.15	4.5	0.56	7.8	0.09	1.2	6.3	178	0.40	12.5	4.0	56	0.15	34.78	24.8	8.24	7.05	0.20
T6-10m	6/25/20	1022	0.07	2.1	0.14	2.0	0.20	2.8	2.8	79	0.30	9.4	2.8	39	0.06	35.48	26.0	8.18	6.55	0.21
Geomean	FY '20		2.8		2.3		2.3				10.9		40		0.10					0.16

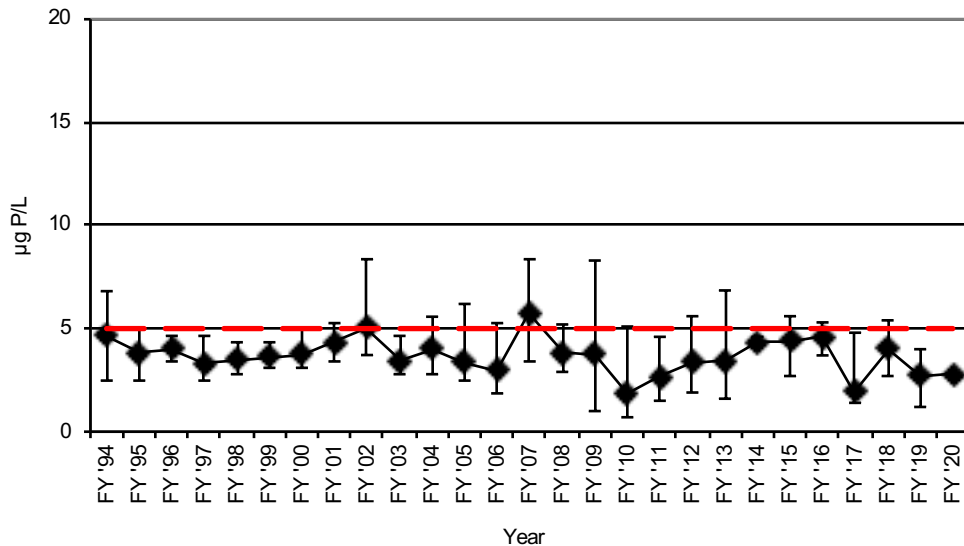
NELHA Water Quality Laboratory

Transect 6, Station 2

7/26/1993 - 7/16/20

NELHA Offshore Transect 6, Station 2

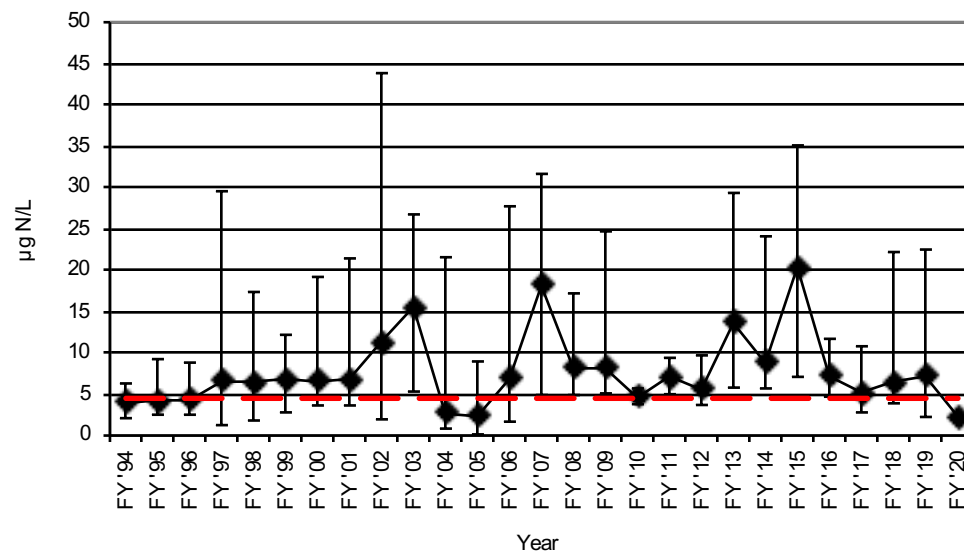
Yearly Geometric Mean of Ortho-Phosphate



Transect 6, Station 2 2014 HDOH Class AA Water Quality Standard

NELHA Offshore Transect 6, Station 2

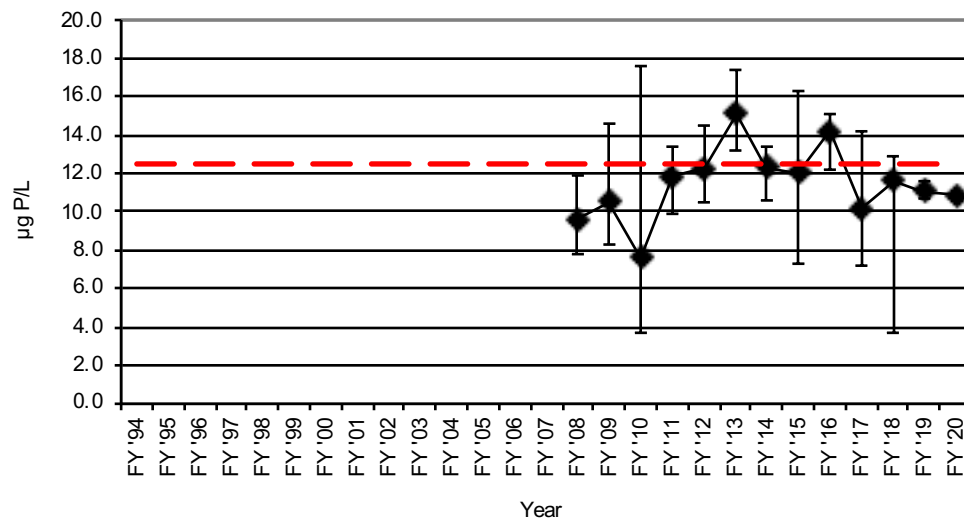
Yearly Geometric Mean of Nitrate + Nitrite



Transect 6, Station 2 2014 HDOH Class AA Water Quality Standard

NELHA Offshore Transect 6, Station 2

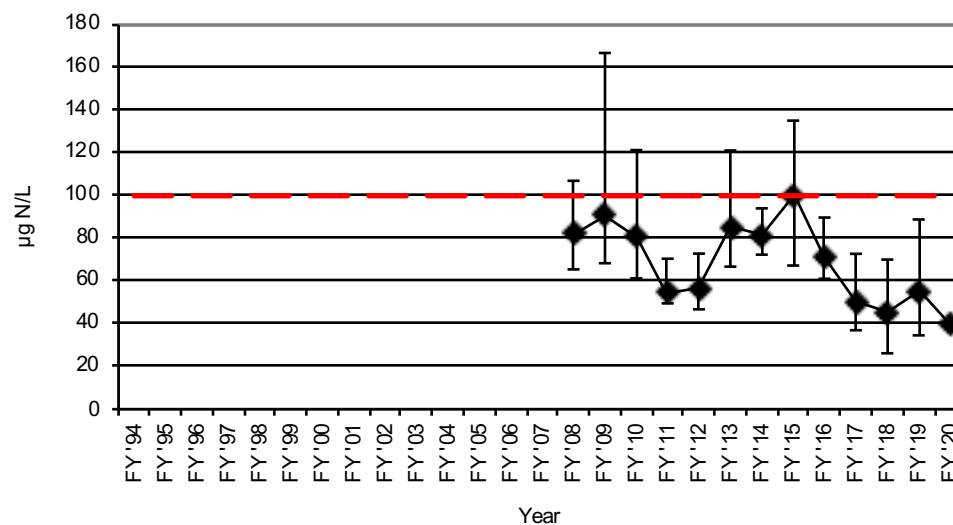
Yearly Geometric Mean of
Total Dissolved Phosphorus



Transect 6, Station 2 2014 HDOH Class AA Water Quality Standard

NELHA Offshore Transect 6, Station 2

Yearly Geometric Mean of
Total Dissolved Nitrogen



Transect 6, Station 2 2014 HDOH Class AA Water Quality Standard

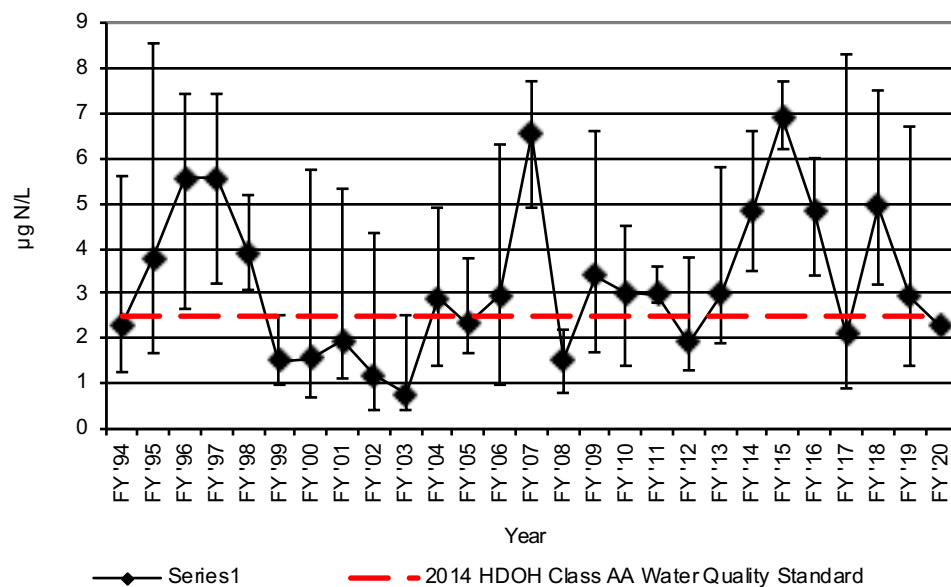
NELHA Water Quality Laboratory

Transect 6, Station 2

7/26/1993 - 7/16/20

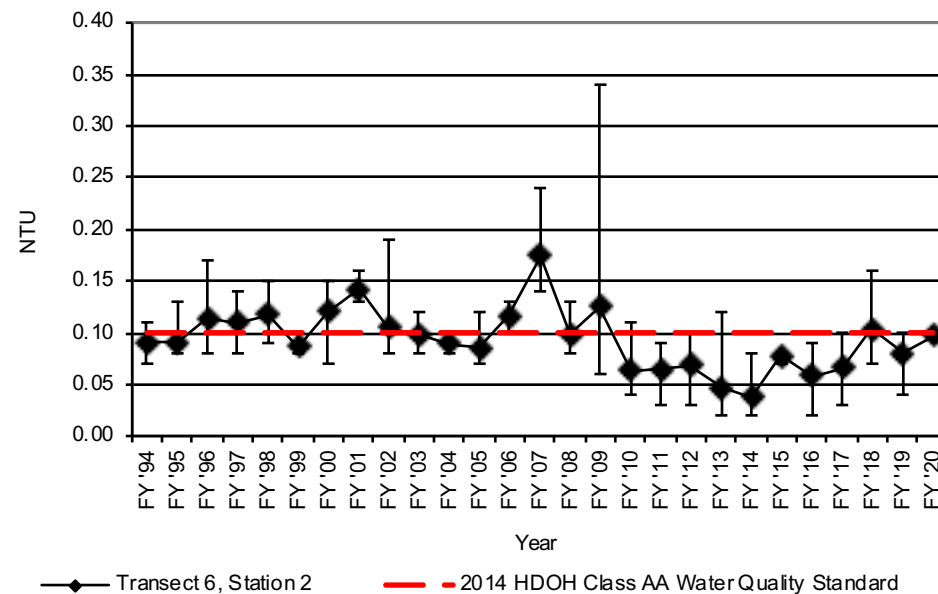
NELHA Offshore Transect 6, Station 2

Yearly Geometric Mean of Total Ammonia



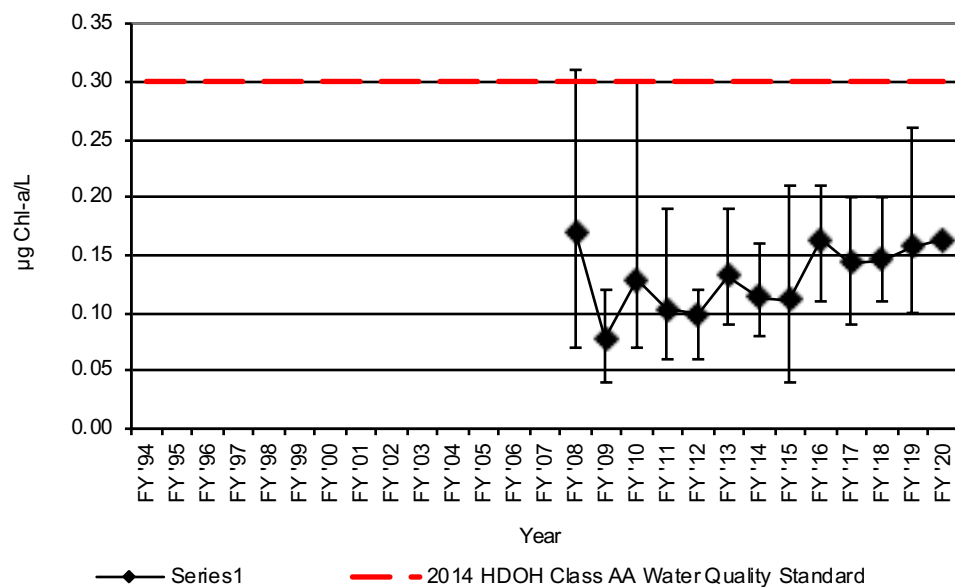
NELHA Offshore Transect 6, Station 2

Yearly Geometric Mean of Turbidity



NELHA Offshore Transect 6, Station 2

Yearly Geometric Mean of Chlorophyll-a



NELHA Water Quality Laboratory

Transect 6, Station 3

7/26/1993 - 7/16/20

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		Turbidity	Salinity	Temp.	pH	DO	Chl a
	M/D/Y	(2400)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg N/L)	(μM)	(μg Si/L)	(μM)	(μg P/L)	(μM)	(μg N/L)	(NTU)	(o/oo)	(°C)		(ppm)	(μg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O6-3S-38m	7/26/93	1141	0.11	3.4	0.11	1.5	0.33	4.6	2.3	65					0.06	34.432	27.0			
O6-3S-38m	12/6/93	926	0.07	2.2	0.44	6.2	0.13	1.8	4.0	112					0.09	34.763	25.7			
O6-3S-38m	3/7/94	856	0.22	6.8	0.80	11.2	0.22	3.1	10.3	288					0.09	34.014	24.9			
O6-3S-38m	6/15/94	901	0.21	6.5	0.25	3.5	0.12	1.7	4.0	112					0.09	34.481	25.6			
Geomean FY '94			4.3		4.4		2.6								0.08					
O6-3S-38m	9/9/94	849	0.08	2.5	0.33	4.6	0.18	2.5	5.7	160					0.11	34.476	27.5			
O6-3S-38m	11/14/94	803	0.15	4.6	0.67	9.4	0.55	7.7	8.9	251					0.09	34.446	26.0			
O6-3S-38m	3/22/95	828	0.16	5.0	0.26	3.6	0.32	4.5	4.9	139					0.09	34.143	25.1			
O6-3S-38m	6/20/95	828	0.12	3.7	0.23	3.2	0.14	2.0	3.8	106					0.07	34.398	26.2			
Geomean FY '95			3.8		4.7		3.6								0.09					
O6-3S-38m	9/26/95	941	0.13	4.0	0.78	10.9	0.47	6.6	12.0	338					0.13	34.221	27.0			
O6-3S-38m	11/14/95	1103	0.12	3.7	0.32	4.5	0.58	8.1	4.8	133					0.09	34.256	26.9			
O6-3S-38m	3/12/96	1127	0.14	4.3	0.19	2.7	0.50	7.0	3.8	107					0.06	34.135	25.5			
O6-3S-38m	5/14/96	1121	0.13	4.0	0.37	5.2	0.22	3.1	7.7	217					0.08	34.161	27.4			
Geomean FY '96			4.0		5.1		5.8								0.09					
O6-3S-38m	7/31/96	1150	0.13	4.0	1.61	22.6	0.51	7.1	21.2	596					0.10	33.799	27.7			
O6-3S-38m	10/2/96	1123	0.08	2.5	0.58	8.1	0.43	6.0	9.2	259					0.15	34.400	28.4			
O6-3S-38m	1/7/97	1128	0.08	2.5	0.10	1.4	0.23	3.2	4.3	120					0.10	34.670	25.7			
O6-3S-38m	4/28/97	1150	0.23	7.1	0.58	8.1	0.49	6.9	16.0	449					0.11	34.218	26.4			
Geomean FY '97			3.6		6.8		5.6								0.11					
O6-3S-38m	8/19/97	1128	0.08	2.5	0.45	6.3	0.21	2.9	9.0	252					0.12	34.427	27.0			
O6-3S-38m	10/7/97	1032	0.11	3.4	0.11	1.5	0.38	5.3	5.8	163					0.10	34.673	27.6			
O6-3S-38m	3/4/98	1203	0.12	3.7	0.67	9.4	0.25	3.5	10.3	289					0.13	34.746	25.2			
O6-3S-38m	5/5/98	1154	0.12	3.7	0.84	11.8	0.31	4.3	12.8	359					0.09	34.734	24.3			
Geomean FY '98			3.3		5.7		3.9								0.11					
O6-3S-38m	7/7/98	1211	0.14	4.3	1.08	15.1	0.02	0.3	16.0	450					0.10	34.628	26.3			
O6-3S-38m	10/6/98	1120	0.13	4.0	0.88	12.3	0.11	1.5	11.3	317					0.08	34.819	27.2			
O6-3S-38m	1/19/99	1157	0.10	3.1	0.76	10.6	0.08	1.1	11.2	315					0.10	34.867	25.1			
O6-3S-38m	4/12/99	1203	0.12	3.7	0.15	2.1	0.14	2.0	4.4	125					0.07	34.634	24.2			
Geomean FY '99			3.8		8.0		1.0								0.09					

NELHA Water Quality Laboratory

Transect 6, Station 3

7/26/1993 - 7/16/20

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		Turbidity	Salinity	Temp.	pH	DO	Chl a
	M/D/Y	(2400)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg N/L)	(μM)	(μg Si/L)	(μM)	(μg P/L)	(μM)	(μg N/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(μg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O6-3S-38m	7/6/99	1229	0.10	3.1	0.28	3.9	0.05	0.7	7.3	206					0.12	34.827	25.7			
O6-3S-38m	10/4/99	1250	0.12	3.7	0.25	3.5	0.11	1.5	3.9	108					0.10	34.927	26.4			
O6-3S-38m	1/12/00	1157	0.16	5.0	1.63	22.8	0.46	6.4	28.9	810					0.08	34.351	24.9			
O6-3S-38m	4/11/00	1055	0.11	3.4	0.58	8.1	0.06	0.8	13.6	382					0.10	34.625	24.5			
Geomean FY '00			3.7		7.1		1.6								0.10					
O6-3S-38m	7/25/00	1215	0.11	3.4	0.19	2.7	0.05	0.7	10.4	293					0.08	34.775	26.7			
O6-3S-38m	10/31/00	1159	0.13	4.0	0.45	6.3	0.28	3.9	10.6	298					0.08	34.721	27.0			
O6-3S-38m	3/6/01	1145	0.18	5.6	0.24	3.4	0.06	0.8	5.6	158					0.07	34.674	24.8			
O6-3S-38m	5/7/01	1246	0.17	5.3	1.58	22.1	0.33	4.6	19.1	537					0.12	34.367	24.7			
Geomean FY '01			4.5		5.9		1.8								0.09					
O6-3S-38m	8/14/01	1050	0.12	3.7	0.15	2.1	0.32	4.5	3.8	107					0.14	34.811	26.7			
O6-3S-38m	10/30/01	1100	0.14	4.3	0.60	8.4	0.02	0.3	5.5	155					0.07	34.888	26.7			
O6-3S-38m	3/6/02	1106	0.24	7.4	2.85	39.9	0.08	1.1	20.8	584					0.12	34.060	24.2			
O6-3S-38m	4/15/02	1123	0.18	5.6	1.93	27.0	0.04	0.6	12.3	345					0.09	34.167	25.6			
Geomean FY '02			5.1		11.7		0.9								0.10					
O6-3S-38m	7/10/02	1112	0.11	3.4	2.00	28.0	0.18	2.5	14.3	401					0.10	34.304	26.2			
O6-3S-38m	10/8/02	1106	0.14	4.3	1.81	25.4	0.06	0.8	13.8	386					0.09	34.547	27.0			
O6-3S-38m	3/12/03	1004	0.14	4.3	0.70	9.8	0.03	0.4	8.7	245					0.10	34.527	25.0			
O6-3S-38m	4/23/03	1114	0.14	4.3	0.93	13.0	0.03	0.4	10.5	294					0.08	34.709	24.9			
Geomean FY '03			4.1		17.4		0.8								0.09					
O6-3S-38m	8/21/03	1045	0.08	2.5	0.03	0.4	0.10	1.4	4.1	115					0.07	34.770	28.4			
O6-3S-38m	11/3/03	1029	0.13	4.0	0.17	2.4	0.23	3.2	6.0	169					0.12	34.597	27.4			
O6-3S-38m	3/18/04	1040	0.18	5.6	1.12	15.7	0.37	5.2	11.8	331					n/a	34.075	25.5			
O6-3S-38m	5/24/04	1053	0.17	5.3	0.24	3.4	0.16	2.2	4.7	131					n/a	33.25	26.8			
Geomean FY '04			4.1		2.7		2.7								0.09					
O6-3S-38m	9/22/04	1128	0.08	2.5	0.01	0.1	0.36	5.0	2.5	69					0.09	33.66	27.8			
O6-3S-38m	11/29/04	1036	0.08	2.5	0.29	4.1	0.11	1.5	3.8	106					0.07	33.64	26.9			
O6-3S-38m	1/24/05	1112	0.10	3.1	0.74	10.4	0.18	2.5	9.4	264					0.09	34.587	25.7			
O6-3S-38m	4/13/05	1119	0.14	4.3	0.28	3.9	0.13	1.8	5.8	161					0.09	34.381	25.0			
Geomean FY '05			3.0		2.2		2.4								0.08					

NELHA Water Quality Laboratory

Transect 6, Station 3

7/26/1993 - 7/16/20

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		Turbidity	Salinity	Temp.	pH	DO	Chl a
	M/D/Y	(2400)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg N/L)	(μM)	(μg Si/L)	(μM)	(μg P/L)	(μM)	(μg N/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(μg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O6-3S-38m	7/21/05	1053	0.06	1.9	0.32	4.5	0.35	4.9	12.8	358					0.12	34.631	27.4			
O6-3S-38m	10/13/05	1026	0.06	1.9	0.11	1.5	0.20	2.8	3.6	101					0.11	34.928	27.4			
O6-3S-38m	3/15/06	952	0.11	3.4	0.74	10.4	0.38	5.3	9.2	258					0.08	34.630	24.3			
O6-3S-38m	5/17/06	1035	0.09	2.8	0.07	1.0	0.05	0.7	2.0	56					0.13	34.672	24.9			
Geomean FY '06			2.4		2.9		2.7								0.11					
O6-3S-38m	8/16/06	1042	0.11	3.4	0.36	5.0	0.36	5.0	3.0	85					0.14	34.596	26.8			
O6-3S-38m	11/20/06	1035	0.26	8.1	2.56	35.9	0.56	7.8	20.7	581					0.22	34.150	26.6			
O6-3S-38m	2/12/07	1136	0.21	6.5	2.14	30.0	0.65	9.1	14.3	402					0.34	33.991	24.5			
O6-3S-38m	4/16/07	1117	0.21	6.5	2.52	35.3	0.41	5.7	20.9	587					0.20	34.335	26.7			
Geomean FY '07			5.8		20.9		6.7								0.21					
T6-50m	9/27/07	1010	0.16	5.1	0.38	5.3	0.03	0.4	8.4	235	0.33	10.1	7.1	100	0.10	34.785	26.7	8.10	6.39	0.11
T6-50m	12/14/07	1031	0.12	3.7	1.02	14.3	0.00		9.2	259	0.42	13.1	5.9	83	0.08	34.398	25.7	8.18	6.96	0.3
T6-50m	3/11/08	1037	0.12	3.7	0.79	11.0	0.06	0.8	13.0	366	0.27	8.4	6.9	96	0.11	34.720	24.7	8.1	6.59	0.29
T6-50m	6/9/08	1104	0.11	3.3	0.48	6.7	0.16	2.2	19.9	559	0.27	8.4	5.8	81	0.15	34.5592	25.2	8.12	5.79	0.2
Geomean FY '08			3.9		8.6		0.9				9.8		90		0.11					0.21
T6-50m	9/23/08	1204	0.03	0.8	0.19	2.6	0.37	5.2	2.3	64	0.29	9.1	4.8	68	0.07	34.786	26.9	8.08	6.40	0.15
T6-50m	12/8/08	1105	0.18	5.6	0.95	13.3	0.44	6.1	8.2	231	0.32	9.9	6.6	92	0.12	34.671	26.2	8.31	5.46	0.07
T6-50m	2/10/09	958	0.09	2.9	0.76	10.7	0.18	2.5	6.8	191	0.26	8	8.3	116	0.08	34.847	24.7	8.06	6.10	0.07
T6-50m	6/30/09	1050	0.23	7.2	0.44	6.1	0.44	6.2	5.0	142	0.46	14.1	4.3	60	0.24	34.785	26.8	8.22	6.36	0.11
Geomean FY '09			3.1		6.9		4.7				10.0		81		0.11					0.09
T6-50m	9/10/09	1102	0.13	3.9	0.46	6.5	0.30	4.2	6.7	189	0.58	18.0	6.3	88	0.10	35.02	27.4	8.20	5.70	0.17
T6-50m	11/24/09	1020	0.02	0.766	0.39	5.4	0.14	1.9	25.6	719	0.28	8.7	5.2	73	0.04	35.18	25.1	8.26	6.61	0.13
T6-50m	2/24/10	1050	0.12	3.8	0.09	1.2	0.36	5	7.4	208	0.28	8.8	7.6	107	0.08	34.78	24.6	8.23	5.61	0.27
T6-50m	5/26/10	1011	0.02	0.6	0.33	4.6	0.16	2.2	4.8	134	0.27	8.4	6.4	90	0.10	34.73	25.1	8.28	6.91	0.09
Geomean FY '10			1.6		3.7		3.1				10.4		88		0.08					0.15
T6-50m	8/11/10	1027	0.05	1.5	0.58	8.1	0.05	0.7	5.1	142	0.29	8.9	2.9	41	0.05	34.92	25.98	8.22	6.64	0.10
T6-50m	11/9/10	1022	0.05	1.7	0.51	7.1	0.16	2.3	10.0	281	0.40	12.4	4.8	67	0.09	34.85	26.38	8.29	6.26	0.04
T6-50m	1/11/11	1249	0.15	4.8	0.87	12.2	0.15	2.1	17.3	486	0.51	15.7	4.5	64	0.04	34.96	25.00	8.25	6.49	0.11
T6-50m	4/27/11	1023	0.16	5.1	0.56	7.9	0.19	2.7	22.6	635	0.43	13.3	3.9	54	0.09	34.77	24.84	8.23	6.48	0.17
Geomean FY '11			2.8		8.6		1.7				12.3		55		0.06					0.09

NELHA Water Quality Laboratory

Transect 6, Station 3

7/26/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
T6-50m	7/27/11	1109	0.19	5.8	0.26	3.6	0.10	1.4	2.7	75	0.48	14.9	4.0	56	0.07	34.76	26.06	8.23	6.42	0.10
T6-50m	10/19/11	1051	0.06	1.8	0.30	4.2	0.28	3.9	3.1	88	0.36	11.2	4.1	58	0.04	35.08	26.54	8.26	7.12	0.14
T6-50m	1/26/12	1016	0.08	2.6	0.56	7.8	0.15	2.1	5.8	163	0.36	11.2	3.4	48	0.07	34.90	24.42	8.20	6.69	0.14
T6-50m	4/25/12	1032	0.18	5.6	0.94	13.2	0.35	4.9	9.5	267	0.43	13.4	3.9	55	0.07	34.65	24.79	8.20	6.94	0.08
Geomean	FY '12		3.5		6.3		2.7				12.6		54		0.06					0.11
T6-50m	7/25/12	1041	0.03	0.8	0.23	3.2	0.21	2.9	2.4	68	0.42	12.9	4.7	67	0.16	35.06	26.49	8.24	6.74	0.20
T6-50m	11/28/12	1034	0.15	4.8	2.23	31.3	0.28	3.9	13.5	380	0.46	14.4	6.2	86	0.02	34.79	25.06	8.20	6.85	0.22
T6-50m	1/24/13	1020	0.10	3.2	0.65	9.1	0.15	2.1	5.0	141	0.45	13.8	5.0	70	0.02	34.97	24.76	8.23	6.48	0.07
T6-50m	4/24/13	946	0.22	6.7	1.87	26.2	0.16	2.3	9.5	267	0.55	16.95	5.6	79	0.03	34.92	24.91	8.22	6.73	0.10
Geomean	FY '13		3.0		12.4		2.7				14.4		75		0.04					0.13
T6-50m	8/6/13	1107	0.15	4.7	1.91	26.8	0.43	6.0	11.9	333	0.39	12.1	7.0	98	0.02	34.90	26.2	8.21	7.41	0.14
T6-50m	10/30/13	1014	0.15	4.8	0.47	6.6	0.21	2.9	3.2	89	0.56	17.2	6.2	87	0.03	34.89	27.0	8.22	5.81	0.15
T6-50m	2/5/14	1039	0.15	4.5	0.34	4.7	0.33	4.6	2.4	68	0.43	13.4	4.2	59	0.02	35.00	25.2	8.20	6.56	0.13
T6-50m	5/7/14	1034	0.13	4.0	0.50	7.0	0.30	4.2	6.2	173	0.42	12.9	5.4	76	0.08	34.72	25.8	8.20	5.57	0.13
Geomean	FY '14		4.5		8.7		4.3				13.8		79		0.03					0.14
T6-50m	8/6/14	1026	0.20	6.2	0.84	11.7	0.52	7.3	5.1	143	0.51	15.9	5.3	75	0.07	34.80	26.7	8.24	6.29	0.18
T6-50m	12/4/14	1107	0.19	5.8	1.91	26.7	0.85	11.9	11.2	314	0.58	18.1	8.9	125	0.07	34.82	26.2	8.26	6.99	0.29
T6-50m	3/5/15	1116	0.10	3.2	2.21	30.9	0.31	4.3	10.8	302	0.39	12.2	7.1	99	0.07	34.44	25.3	8.30	6.90	0.16
T6-50m	6/18/15	1041	0.21	6.4	2.68	37.5	0.43	6.0	12.5	350	0.46	14.2	8.5	120	0.08	34.06	26.5	8.21	6.99	0.18
Geomean	FY '15		5.2		24.5		6.9				14.9		103		0.07					0.20
T6-50m	8/27/15	1041	0.17	5.4	0.17	2.4	0.19	2.6	4.2	117	0.40	12.4	4.8	67	0.02	34.67	28.5	8.28	6.03	0.17
T6-50m	11/18/15	1114	0.19	6.0	0.89	12.4	2.11	29.5	6.0	170	0.43	13.3	6.9	97	0.08	34.61	27.4	8.29	6.96	0.24
T6-50m	3/2/16	953	0.13	3.9	0.34	4.7	0.25	3.5	1.3	37	0.50	15.4	7.7	108	0.09	34.72	25.2	8.25	5.84	0.11
T6-50m	5/4/16	1051	0.14	4.3	0.56	7.8	0.33	4.6	5.7	161	0.26	8.0	4.5	63	0.09	34.53	25.8	8.19	6.15	0.20
Geomean	FY '16		4.8		5.7		5.9				11.9		82		0.06					0.17
T6-50m	7/7/16	1054	0.13	3.9	0.27	3.8	0.51	7.2	6.5	182	0.46	14.3	3.0	42	0.10	34.47	26.7	8.32	6.75	0.26
T6-50m	12/21/16	1125	0.05	1.4	0.29	4.0	0.36	5.1	2.8	80	0.36	11.0	4.4	62	0.04	34.62	25.6	8.28	5.98	0.13
T6-50m	3/1/17	1200	0.03	1.0	0.64	8.9	0.08	1.1	5.1	142	0.15	4.6	5.3	74	0.08	34.61	24.6	8.25	5.83	0.18
T6-50m	5/10/17	1149	0.05	1.4	0.18	2.5	0.10	1.4	1.7	48	0.22	6.8	4.4	61	0.09	34.83	25.8	8.24	4.15	0.15
Geomean	FY '17		1.7		4.3		2.7				8.4		58		0.07					0.17

NELHA Water Quality Laboratory

Transect 6, Station 3

7/26/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (μM) (μg P/L)		TDN (μM) (μg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (μg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
T6-50m	9/28/17	1045	0.13	4.0	0.33	4.6	0.20	2.8	1.7	49	0.39	12.1	2.1	29	0.06	34.81	27.7	8.18	4.64	0.14
T6-50m	11/30/17	1028	0.14	4.4	1.24	17.3	0.59	8.2	6.8	190	0.40	12.4	3.8	53	0.07	35.02	26.2	8.24	5.65	0.22
T6-50m	2/6/18	1121	0.09	2.9	0.36	5.1	0.46	6.5	3.8	106	0.35	10.7	4.3	61	0.11	34.75	24.8	8.17	5.85	0.12
T6-50m	5/17/18	1044	0.15	4.8	1.47	20.6	0.21	2.9	11.1	312	0.40	12.3	3.5	49	0.06	34.55	25.8	8.17	6.46	0.16
Geomean	FY '18		4.0		9.6		4.6				11.9		46		0.07					0.16
T6-50m	9/26/18	1335	0.05	1.5	0.16	2.3	0.11	1.5	2.2	61	0.37	11.5	3.3	46	0.10	34.66	27.6	8.16	4.50	0.12
T6-50m	11/14/18	1139	0.05	1.7	0.49	6.9	0.19	2.7	1.4	38	0.34	10.6	5.6	78	0.09	34.87	27.3	8.20	6.18	0.27
T6-50m	1/23/19	1123	0.11	3.4	0.49	6.8	0.17	2.4	5.6	156	0.39	12.1	2.5	35	0.08	34.78	24.9	8.18	5.13	0.20
T6-50m	4/17/19	1120	0.14	4.2	0.39	5.4	0.23	3.2	2.8	77	0.39	12.0	2.5	35	0.07	34.67	25.7	8.13	7.07	0.12
Geomean	FY '19		2.5		4.9		2.4				11.5		46		0.08					0.17
T6-50m	8/15/19	1048	0.06	2.0	0.08	1.1	0.09	1.3	5.2	146	0.33	10.3	2.1	30	0.10	35.20	28.2	8.28	6.67	0.16
T6-50m	11/20/19	1201	0.11	3.3	0.12	1.7	0.33	4.6	0.7	20	0.41	12.8	4.0	56	0.08	35.18	27.6	8.23	6.67	0.15
T6-50m	1/23/20	1106	0.15	4.8	0.49	6.8	0.41	5.7	5.6	157	0.43	13.3	4.0	56	0.21	34.77	24.8	8.25	7.07	0.14
T6-50m	6/25/20	1027	0.11	3.3	0.14	1.9	0.19	2.7	3.9	110	0.32	9.8	2.6	36	0.07	35.42	26.1	8.19	6.69	0.21
Geomean	FY '20		3.2		2.2		3.1				11.4		43		0.10					0.16

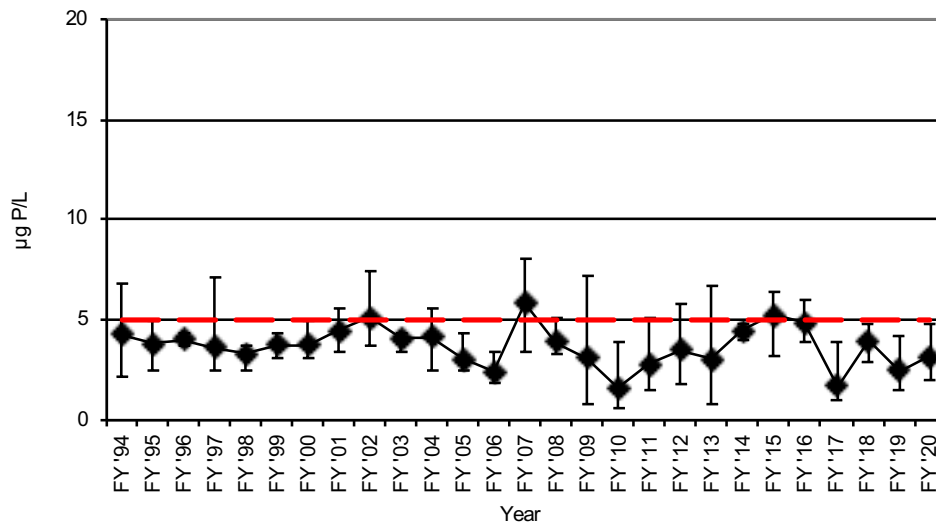
NELHA Water Quality Laboratory

Transect 6, Station 3

7/26/1993 - 7/16/20

NELHA Offshore Transect 6, Station 3

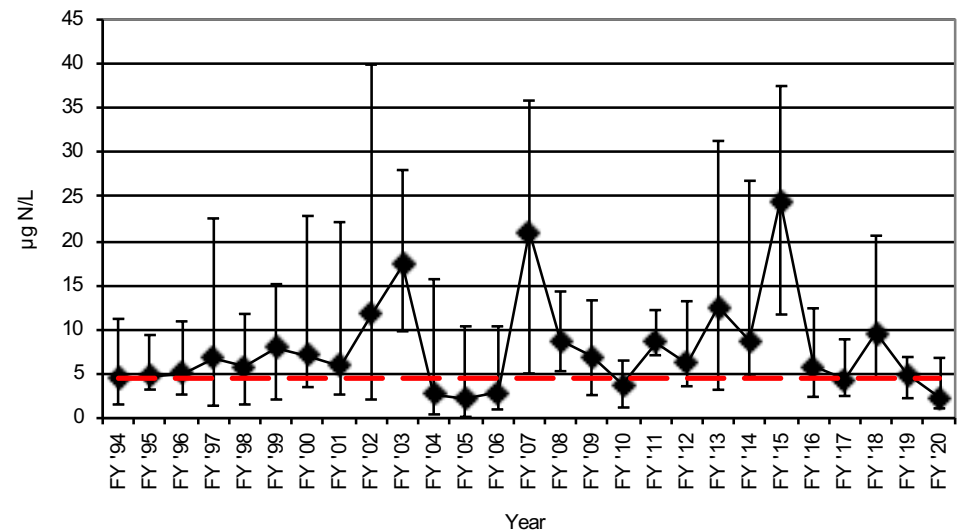
Yearly Geometric Mean of Ortho-Phosphate



—●— Transect 6, Station 3 - - - 2014 HDOH Class AA Water Quality Standard

NELHA Offshore Transect 6, Station 3

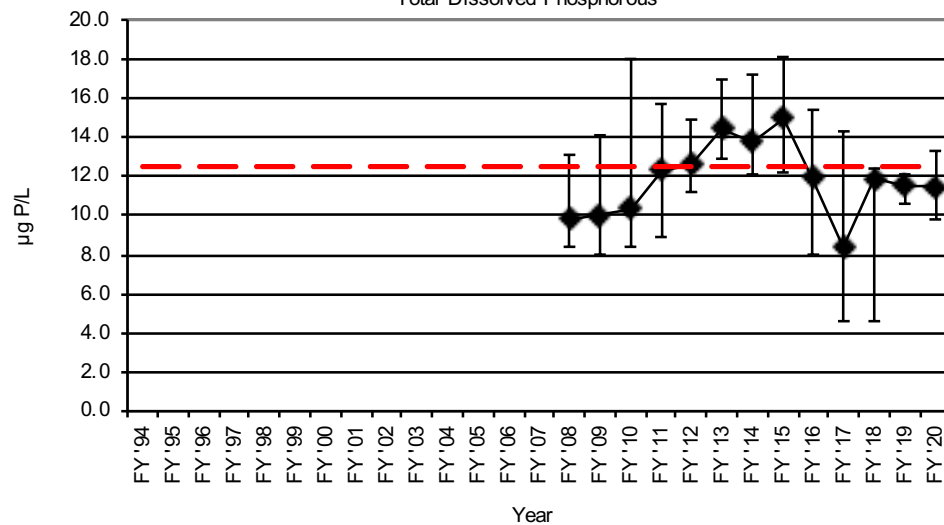
Yearly Geometric Mean of Nitrate + Nitrite



—●— Transect 6, Station 3 - - - 2014 HDOH Class AA Water Quality Standard

NELHA Offshore Transect 6, Station 3

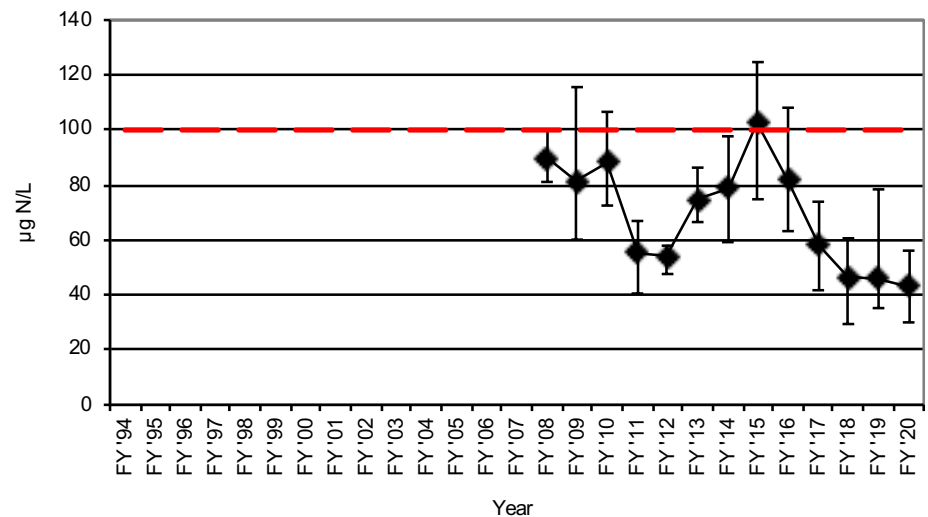
Yearly Geometric Mean of
Total Dissolved Phosphorous



—●— Transect 6, Station 3 - - - 2014 HDOH Class AA Water Quality Standard

NELHA Offshore Transect 6, Station 3

Yearly Geometric Mean of
Total Dissolved Nitrogen



—●— Transect 6, Station 3 - - - 2014 HDOH Class AA Water Quality Standard

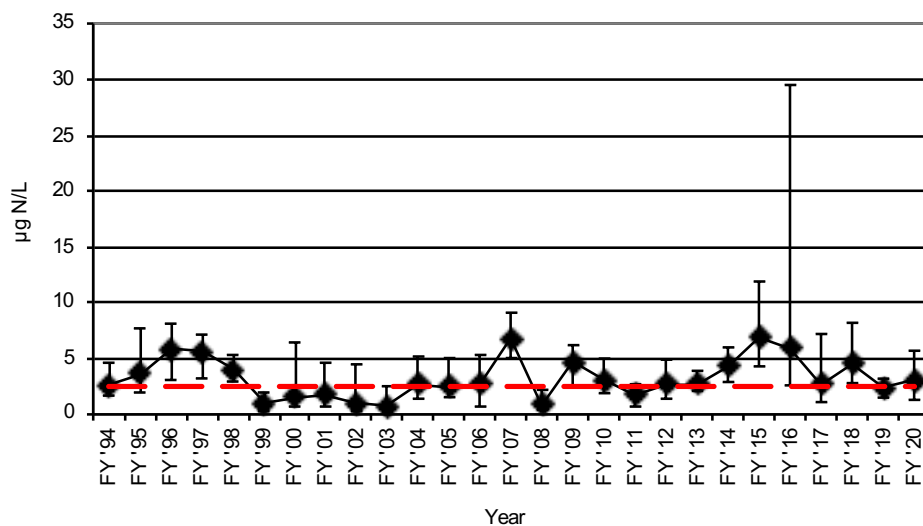
NELHA Water Quality Laboratory

Transect 6, Station 3

7/26/1993 - 7/16/20

NELHA Offshore Transect 6, Station 3

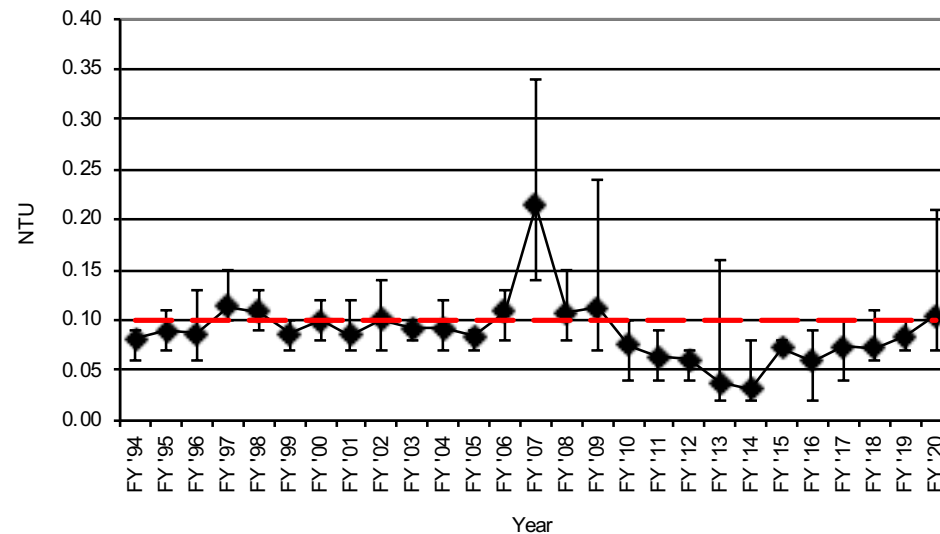
Yearly Geometric Mean of Total Ammonia



Transect 6, Station 3 2014 HDOH Class AA Water Quality Standard

NELHA Offshore Transect 6, Station 3

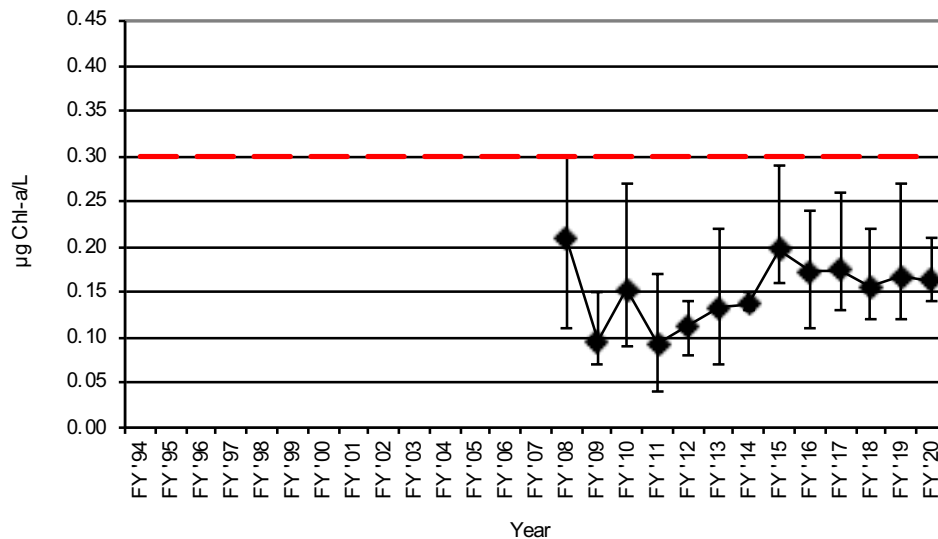
Yearly Geometric Mean of Turbidity



Transect 6, Station 3 2014 HDOH Class AA Water Quality Standard

NELHA Offshore Transect 6, Station 3

Yearly Geometric Mean of Chlorophyll-a



Transect 6, Station 3 2014 HDOH Class AA Water Quality Standard

NELHA Water Quality Laboratory

Transect 6, Station 4

7/26/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (o/oo)	Temp. (°C)	pH	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O6-4S-53m	7/26/93	1130	0.09	2.8	0.12	1.7	0.42	5.9	2.1	58					0.07	34.440	27.0			
O6-4S-53m	12/6/93	917	0.06	1.9	0.53	7.4	0.09	1.3	4.2	118					0.09	34.755	25.7			
O6-4S-53m	3/7/94	849	0.22	6.8	0.91	12.7	0.18	2.5	11.4	320					0.08	33.964	24.9			
O6-4S-53m	6/15/94	857	0.22	6.8	0.27	3.8	0.40	5.6	4.2	117					0.13	34.497	25.6			
Geomean FY '94			3.9		5.0		3.2								0.09					
O6-4S-53m	9/9/94	847	0.06	1.9	0.01	0.1	0.10	1.4	2.5	70					0.07	34.580	27.6			
O6-4S-53m	11/14/94	759	0.14	4.3	0.48	6.7	0.55	7.7	6.7	188					0.11	34.521	26.0			
O6-4S-53m	3/22/95	830	0.17	5.3	0.29	4.1	0.34	4.8	5.5	154					0.11	34.128	25.1			
O6-4S-53m	6/20/95	820	0.12	3.7	0.24	3.4	0.10	1.4	3.8	106					0.07	34.389	26.2			
Geomean FY '95			3.5		1.9		2.9								0.09					
O6-4S-53m	9/26/95	953	0.14	4.3	0.58	8.1	0.56	7.8	10.0	281					0.17	34.295	27.0			
O6-4S-53m	11/14/95	1058	0.11	3.4	0.30	4.2	0.52	7.3	4.5	125					0.09	34.315	26.8			
O6-4S-53m	3/12/96	1121	0.14	4.3	0.27	3.8	0.52	7.3	4.9	138					0.06	34.095	25.5			
O6-4S-53m	5/14/96	1117	0.10	3.1	0.14	2.0	0.16	2.2	4.1	114					0.08	34.273	27.5			
Geomean FY '96			3.8		4.0		5.5								0.09					
O6-4S-53m	7/31/96	1146	0.13	4.0	1.73	24.2	0.53	7.4	23.1	649					0.12	33.745	27.8			
O6-4S-53m	10/2/96	1119	0.08	2.5	0.06	0.8	0.46	6.4	10.6	299					0.13	34.343	28.4			
O6-4S-53m	1/7/97	1124	0.09	2.8	0.59	8.3	0.24	3.4	9.5	267					0.09	34.486	25.6			
O6-4S-53m	4/28/97	1141	0.17	5.3	0.56	7.8	0.53	7.4	9.3	260					0.09	34.227	26.5			
Geomean FY '97			3.5		6.0		5.9								0.11					
O6-4S-53m	8/19/97	1123	0.12	3.7	0.53	7.4	0.24	3.4	10.9	306					0.12	34.387	27.0			
O6-4S-53m	10/7/97	1025	0.11	3.4	0.19	2.7	0.37	5.2	7.1	199					0.10	34.654	27.6			
O6-4S-53m	3/4/98	1157	0.14	4.3	1.65	23.1	0.36	5.0	26.3	739					0.10	34.160	25.2			
O6-4S-53m	5/5/98	1148	0.14	4.3	1.38	19.3	0.31	4.3	17.6	495					0.12	34.579	24.4			
Geomean FY '98			3.9		9.7		4.4								0.11					
O6-4S-53m	7/7/98	1204	0.14	4.3	0.95	13.3	0.04	0.6	14.3	402					0.11	34.647	26.3			
O6-4S-53m	10/6/98	1113	0.12	3.7	0.85	11.9	0.13	1.8	10.0	282					0.08	34.817	27.1			
O6-4S-53m	1/19/99	1152	0.08	2.5	0.52	7.3	0.13	1.8	8.4	237					0.07	34.946	25.2			
O6-4S-53m	4/12/99	1156	0.12	3.7	0.18	2.5	0.14	2.0	5.1	144					0.09	34.620	24.2			
Geomean FY '99			3.5		2.3		1.4								0.09					

NELHA Water Quality Laboratory

Transect 6, Station 4

7/26/1993 - 7/16/20

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		Turbidity	Salinity	Temp.	pH	DO	Chl a
	M/D/Y	(2400)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg N/L)	(μM)	(μg Si/L)	(μM)	(μg P/L)	(μM)	(μg N/L)	(NTU)	(o/oo)	(°C)		(ppm)	(μg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O6-4S-53m	7/6/99	1222	0.09	2.8	0.28	3.9	0.08	1.1	6.0	170					0.12	34.811	25.7			
O6-4S-53m	10/4/99	1242	0.11	3.4	0.26	3.6	0.06	0.8	4.4	124					0.09	34.923	26.4			
O6-4S-53m	1/12/00	1149	0.15	4.6	1.53	21.4	0.42	5.9	25.9	726					0.07	34.375	24.8			
O6-4S-53m	4/11/00	1049	0.12	3.7	0.72	10.1	0.04	0.6	11.1	311					0.05	34.560	24.5			
Geomean FY '00			3.6		7.5		1.3								0.08					
O6-4S-53m	7/25/00	1209	0.11	3.4	0.21	2.9	0.07	1.0	5.8	164					0.07	34.763	26.7			
O6-4S-53m	10/31/00	1153	0.12	3.7	0.39	5.5	0.27	3.8	9.3	260					0.11	34.773	26.9			
O6-4S-53m	3/6/01	1140	0.17	5.3	0.20	2.8	0.10	1.4	5.6	157					0.12	34.678	24.8			
O6-4S-53m	5/7/01	1241	0.17	5.3	1.50	21.0	0.35	4.9	23.5	660					0.09	34.363	24.8			
Geomean FY '01			4.3		5.5		2.2								0.10					
O6-4S-53m	8/14/01	1044	0.12	3.7	0.14	2.0	0.29	4.1	3.6	100					0.10	34.814	26.7			
O6-4S-53m	10/30/01	1056	0.15	4.6	0.74	10.4	0.05	0.7	7.1	199					0.08	34.833	26.8			
O6-4S-53m	3/6/02	1102	0.25	7.7	3.10	43.4	0.08	1.1	23.3	654					0.09	34.958	24.2			
O6-4S-53m	4/15/02	1117	0.12	3.7	1.85	25.9	0.06	0.8	12.3	346					0.09	34.173	25.6			
Geomean FY '02			4.7		12.3		1.3								0.09					
O6-4S-53m	7/10/02	1106	0.07	2.2	2.10	29.4	0.20	2.8	14.0	393					0.07	34.319	26.2			
O6-4S-53m	10/8/02	1102	0.14	4.3	1.76	24.7	0.09	1.3	11.8	331					0.10	34.617	27.1			
O6-4S-53m	3/12/03	959	0.14	4.3	0.80	11.2	0.03	0.4	10.5	295					0.09	34.472	24.9			
O6-4S-53m	4/23/03	1110	0.15	4.6	1.32	18.5	0.03	0.4	14.6	409					0.09	35.561	25.0			
Geomean FY '03			3.7		19.7		0.9								0.09					
O6-4S-53m	8/21/03	1038	0.09	2.8	0.03	0.4	0.10	1.4	3.8	106					0.05	34.779	28.4			
O6-4S-53m	11/3/03	1016	0.10	3.1	0.01	0.1	0.17	2.4	2.4	67					0.08	34.647	27.3			
O6-4S-53m	3/18/04	1033	0.12	3.7	0.52	7.3	0.38	5.3	6.8	190					n/a	34.195	25.7			
O6-4S-53m	5/24/04	1041	0.16	5.0	0.50	7.0	0.23	3.2	5.5	154					n/a	33.35	26.8			
Geomean FY '04			3.6		1.3		2.7								0.06					
O6-4S-53m	9/22/04	1123	0.07	2.2	0.01	0.1	0.27	3.8	2.3	64					0.08	33.68	27.8			
O6-4S-53m	11/29/04	1031	0.09	2.8	0.38	5.3	0.17	2.4	4.6	129					0.04	33.69	26.9			
O6-4S-53m	1/24/05	1108	0.06	1.9	0.01	0.1	0.14	2.0	2.1	59					0.07	34.341	25.7			
O6-4S-53m	4/13/05	1112	0.14	4.3	0.34	4.8	0.16	2.2	6.2	175					0.08	34.844	25.0			
Geomean FY '05			2.6		0.8		2.5								0.07					

NELHA Water Quality Laboratory

Transect 6, Station 4

7/26/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (o/oo)	Temp. (°C)	pH	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O6-4S-53m	7/21/05	1049	0.06	1.9	0.18	2.5	0.38	5.3	4.6	130					0.09	34.664	27.4			
O6-4S-53m	10/13/05	1021	0.06	1.9	0.05	0.7	0.20	2.8	2.8	77					0.10	34.901	27.4			
O6-4S-53m	3/15/06	945	0.11	3.4	0.63	8.8	0.33	4.6	11.1	313					0.08	34.655	24.4			
O6-4S-53m	5/17/06	1030	0.10	3.1	0.08	1.1	0.05	0.7	1.5	43					0.11	34.665	24.8			
Geomean	FY '06		2.5		2.0		2.6								0.09					
O6-4S-53m	8/16/06	1032	0.12	3.7	0.49	6.9	0.33	4.6	3.9	109					0.09	34.585	26.8			
O6-4S-53m	11/20/06	1030	0.18	5.6	1.28	17.9	0.63	8.8	11.7	329					0.41	34.480	26.7			
O6-4S-53m	2/12/07	1130	0.19	5.9	2.03	28.4	0.42	5.9	15.8	444					0.18	33.994	24.9			
O6-4S-53m	4/16/07	1112	0.14	4.3	0.63	8.8	0.39	5.5	9.6	269					0.19	34.453	26.5			
Geomean	FY '07		4.8		13.3		6.0								0.19					
T6-100m	9/27/07	1000	0.14	4.4	0.01	0.1	0.13	1.8	9.4	263	0.33	10.2	6.2	87	0.15	34.797	26.7	8.09	6.31	0.08
T6-100m	12/14/07	1033	0.13	4.0	0.89	12.5	0.00		9.1	255	0.39	12.1	7.8	109	0.11	34.470	25.7	8.16	6.84	0.22
T6-100m	3/11/08	1041	0.12	3.7	0.54	7.6	0.06	0.8	17.1	481	0.24	7.5	6.0	84	0.11	34.723	24.8	8.11	6.56	0.32
T6-100m	6/9/08	1109	0.09	2.8	0.07	1.0	0.16	2.2	14.6	410	0.29	9.1	6.7	93	0.12	34.5697	25.2	8.11	5.75	0.22
Geomean	FY '08		3.7		1.8		1.5				9.6		93		0.12					0.19
T6-100m	9/23/08	1210	0.03	0.8	0.14	2	0.31	4.3	2.2	63	0.35	10.7	5.4	75	0.06	34.787	26.8	8.07	6.05	0.12
T6-100m	12/8/08	1114	0.16	5	0.58	8.1	0.30	4.2	5.3	149	0.35	10.8	5.8	81	0.08	34.690	26.3	8.30	5.63	0.04
T6-100m	2/10/09	1005	0.09	2.8	0.55	7.7	0.18	2.5	5.7	159	0.24	7.4	8.7	122	0.09	34.908	24.8	8.06	5.87	0.04
T6-100m	6/30/09	1055	0.29	9	1.44	20.1	0.63	8.8	13.6	381	0.49	15.1	5.3	75	0.10	34.516	26.7	8.18	6.28	0.16
Geomean	FY '09		3.2		7.1		4.5				10.7		86		0.08					0.07
T6-100m	9/10/09	1108	0.18	5.7	0.60	8.4	0.52	7.3	8.5	239	0.60	18.5	6.7	94	0.09	35.11	27.3	8.19	5.77	0.32
T6-100m	11/24/09	1027	0.02	0.766	0.45	6.3	0.16	2.3	16.4	461	0.31	9.5	5.5	77	0.06	35.13	25.1	8.24	6.59	0.18
T6-100m	2/24/10	1054	0.12	3.7	0.16	2.2	0.38	5.3	2.6	73	0.32	10.0	7.3	103	0.07	34.83	24.6	8.22	5.56	0.27
T6-100m	5/26/10	1016	0.01	0.4	0.13	1.8	0.19	2.7	4.5	128	0.23	7.2	4.6	65	0.06	34.77	25.1	8.28	6.65	0.09
Geomean	FY '10		1.6		3.8		3.9				10.6		83		0.07					0.19
T6-100m	8/11/10	1032	0.08	2.6	1.26	17.7	0.30	4.2	12.1	339	0.29	9.1	2.8	39	0.05	34.68	25.96	8.21	6.46	0.08
T6-100m	11/9/10	1028	0.05	1.5	0.49	6.8	0.11	1.5	4.9	138	0.45	14	5.3	74	0.09	34.84	26.43	8.29	6.28	0.07
T6-100m	1/11/11	1255	0.15	4.7	0.58	8.1	0.21	2.9	6.5	183	0.45	13.8	3.9	55	0.04	34.87	25.09	8.25	6.52	0.13
T6-100m	4/27/11	1027	0.15	4.7	0.26	3.6	0.11	1.5	4.6	129	0.40	12.5	3.8	53	0.08	34.83	24.94	8.22	6.30	0.14
Geomean	FY '11		3.0		7.7		2.3				12.2		54		0.06					0.10

NELHA Water Quality Laboratory

Transect 6, Station 4

7/26/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (o/oo)	Temp. (°C)	pH	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
T6-100m	7/27/11	1114	0.19	6	0.24	3.3	0.06	0.9	2.9	83	0.49	15.1	3.7	53	0.09	34.76	26.21	8.22	6.37	0.13
T6-100m	10/19/11	1056	0.06	1.8	0.25	3.5	0.08	1.1	3.9	109	0.36	11.2	3.7	51	0.07	35.09	26.56	8.25	6.86	0.13
T6-100m	1/26/12	1022	0.06	2	0.14	2	0.11	1.5	3.0	84	0.35	10.8	3.8	54	0.04	34.98	24.48	8.21	6.68	0.13
T6-100m	4/25/12	1035	0.22	6.9	0.83	11.6	0.42	5.9	9.5	266	0.43	13.3	4.3	60	0.07	34.68	24.83	8.20	6.81	0.17
Geomean	FY '12		3.5		4.0		1.7				12.5		54		0.06					0.14
T6-100m	7/25/12	1045	0.03	0.8	0.14	2	0.33	4.6	2.5	70	0.43	13.3	4.9	68	0.07	35.05	26.43	8.23	6.82	0.26
T6-100m	11/28/12	1039	0.21	6.5	3.43	48.1	0.39	5.5	20.5	577	0.52	16.1	8.0	112	0.03	34.63	25.02	8.20	6.45	0.09
T6-100m	1/24/13	1027	0.12	3.6	0.96	13.4	0.16	2.3	7.4	207	0.46	14.2	6.2	87	0.04	34.91	24.75	8.22	6.43	0.12
T6-100m	4/24/13	951	0.18	5.5	0.82	11.55	0.12	1.65	9.5	266	0.49	15.15	4.8	67	0.03	34.95	24.97	8.21	6.70	0.11
Geomean	FY '13		3.2		11.0		3.1				14.7		82		0.04					0.13
T6-100m	8/6/13	1111	0.11	3.3	1.27	17.8	0.28	3.9	7.8	218	0.35	10.9	5.6	79	0.02	34.94	26.4	8.21	7.05	0.14
T6-100m	10/30/13	1019	0.15	4.6	0.41	5.8	0.20	2.8	3.4	94	0.51	15.8	6.2	87	0.02	34.89	27.0	8.22	5.94	0.13
T6-100m	2/5/14	1043	0.14	4.4	0.25	3.5	0.35	4.9	2.3	63	0.46	14.1	4.6	65	0.02	35.00	25.2	8.21	6.36	0.13
T6-100m	5/7/14	1039	0.13	4.0	0.41	5.7	0.06	0.9	3.4	96	0.43	13.3	5.4	76	0.13	34.71	25.7	8.18	5.45	0.14
Geomean	FY '14		4.0		6.7		2.6				13.4		76		0.03					0.13
T6-100m	8/6/14	1033	0.18	5.5	0.15	2.1	0.24	3.3	1.5	41	0.49	15.1	5.4	76	0.05	34.96	26.6	8.22	5.88	0.05
T6-100m	12/4/14	1112	0.18	5.5	1.85	25.9	0.47	6.6	14.3	402	0.61	19.0	8.9	125	0.03	34.74	26.3	8.26	6.47	0.18
T6-100m	3/5/15	1122	0.04	1.1	0.43	6.0	0.40	5.6	2.3	64	0.22	6.8	7.6	106	0.08	34.51	25.4	8.27	6.86	0.15
T6-100m	6/18/15	1047	0.20	6.2	2.63	36.8	0.43	6.0	13.3	373	0.46	14.1	11.4	160	0.07	33.91	26.6	8.19	6.63	0.28
Geomean	FY '15		3.8		10.5		5.2				12.9		113		0.05					0.14
T6-100m	8/27/15	1045	0.14	4.4	0.09	1.2	0.19	2.7	3.5	99	0.20	6.3	4.5	63	0.03	34.66	28.5	8.28	6.02	0.35
T6-100m	11/18/15	1120	0.15	4.8	0.66	9.2	0.23	3.2	4.7	132	0.50	15.6	5.8	82	0.07	34.64	27.5	8.29	6.51	0.22
T6-100m	3/2/16	958	0.13	3.9	0.37	5.2	0.34	4.7	1.0	27	0.47	14.6	7.5	105	0.10	34.73	25.3	8.25	5.84	0.14
T6-100m	5/4/16	1058	0.12	3.6	0.64	8.9	0.29	4.0	6.4	181	0.28	8.7	5.3	75	0.09	34.50	25.8	8.19	6.01	0.24
Geomean	FY '16		4.1		4.8		3.6				10.6		80		0.07					0.23
T6-100m	7/7/16	1059	0.15	4.5	0.09	1.2	0.57	8.0	8.4	236	0.55	16.9	4.6	64	0.10	34.42	26.8	8.31	6.49	0.16
T6-100m	12/21/16	1136	0.05	1.7	0.30	4.2	0.21	3.0	2.5	70	0.36	11.3	3.3	46	0.06	34.63	25.6	8.28	6.15	0.10
T6-100m	3/1/17	1206	0.00	0.1	0.17	2.4	0.06	0.8	1.5	42	0.29	9.1	3.6	50	0.10	34.73	24.6	8.25	5.65	0.21
T6-100m	5/10/17	1154	0.05	1.4	0.09	1.2	0.39	5.4	0.3	8	0.21	6.6	3.2	45	0.05	34.87	25.8	8.24	4.07	0.07
Geomean	FY '17		1.0		2.0		3.2				10.3		51		0.07					0.12

NELHA Water Quality Laboratory

Transect 6, Station 4

7/26/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (μM) (μg P/L)		TDN (μM) (μg N/L)		Turbidity (NTU)	Salinity (o/oo)	Temp. (°C)	pH	DO (ppm)	Chl a (μg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
T6-100m	9/28/17	1052	0.16	4.9	0.23	3.2	0.19	2.6	1.5	41	0.43	13.4	2.5	35	0.07	34.83	27.8	8.19	4.65	0.11
T6-100m	11/30/17	1032	0.15	4.7	1.60	22.4	0.74	10.3	8.5	239	0.41	12.8	4.7	66	0.09	34.99	26.2	8.24	5.62	0.20
T6-100m	2/6/18	1127	0.10	3.2	0.51	7.1	0.54	7.6	4.8	135	0.35	10.9	3.7	52	0.11	34.77	24.8	8.17	5.90	0.14
T6-100m	5/17/18	1100	0.14	4.4	1.11	15.5	0.34	4.8	10.6	299	0.39	12.2	2.7	38	0.06	34.57	25.9	8.17	6.49	0.18
Geomean	FY '18		4.2		9.4		5.6				12.3		46		0.08					0.15
T6-100m	9/26/18	1341	0.02	0.6	0.16	2.3	0.09	1.3	1.7	47	0.33	10.3	1.9	27	0.13	34.67	27.6	8.16	4.82	0.15
T6-100m	11/14/18	1144	0.03	1.0	0.25	3.5	0.44	6.1	0.7	21	0.33	10.1	6.0	84	0.07	34.90	27.4	8.20	6.17	0.14
T6-100m	1/23/19	1128	0.11	3.5	0.52	7.3	0.19	2.7	4.5	127	0.39	12.0	2.7	38	0.05	34.92	25.0	8.19	4.98	0.14
T6-100m	4/17/19	1125	0.13	4.0	0.31	4.3	0.46	6.4	2.2	62	0.39	12.1	2.9	41	0.02	34.67	25.8	8.12	6.96	0.10
Geomean	FY '19		1.7		4.0		3.4				11.1		43		0.05					0.13
T6-100m	8/15/19	1053	0.06	1.9	0.08	1.1	0.09	1.3	5.3	149	0.33	10.2	2.4	34	0.09	35.21	28.3	8.28	6.70	0.17
T6-100m	11/20/19	1206	0.10	3.2	0.05	0.7	0.09	1.3	0.3	9	0.42	13.0	2.8	39	0.06	35.19	27.7	8.22	6.44	0.14
T6-100m	1/23/20	1113	0.15	4.5	0.14	2.0	0.09	1.3	3.6	102	0.42	12.9	4.2	59	0.13	34.87	24.9	8.25	6.93	0.16
T6-100m	6/25/20	1032	0.09	2.8	0.01	0.2	0.09	1.3	3.4	97	0.35	10.7	3.2	44	0.08	35.41	26.1	8.18	6.63	0.24
Geomean	FY '20		3.0		0.7		1.3				11.6		43		0.09					0.17

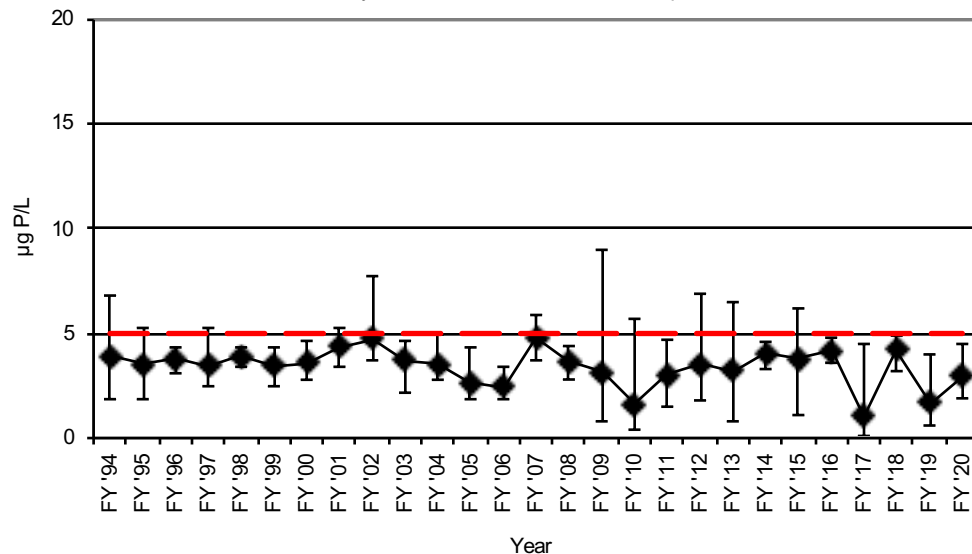
NELHA Water Quality Laboratory

Transect 6, Station 4

7/26/1993 - 7/16/20

NELHA Offshore Transect 6, Station 4

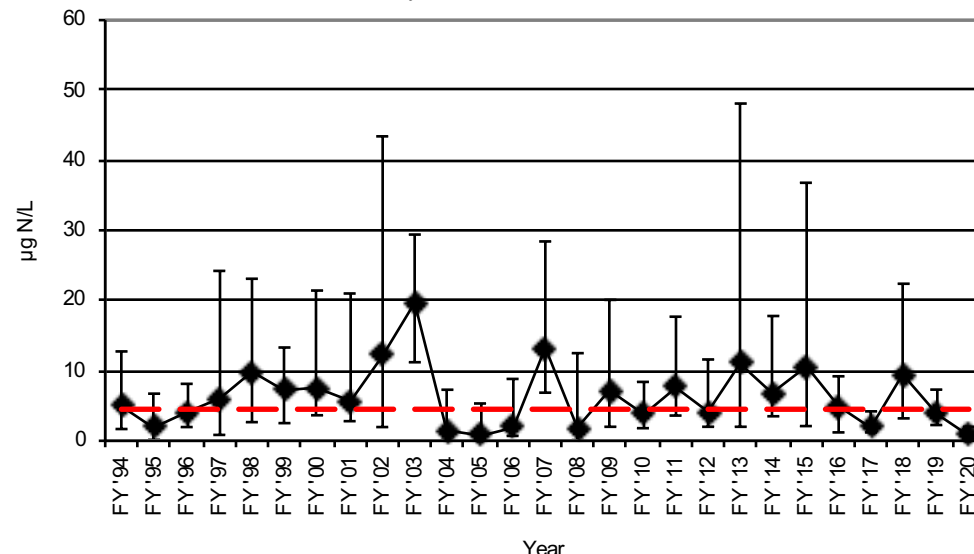
Yearly Geometric Mean of Ortho-Phosphate



Transect 6, Station 4 2014 HDOH Class AA Water Quality Standard

NELHA Offshore Transect 6, Station 4

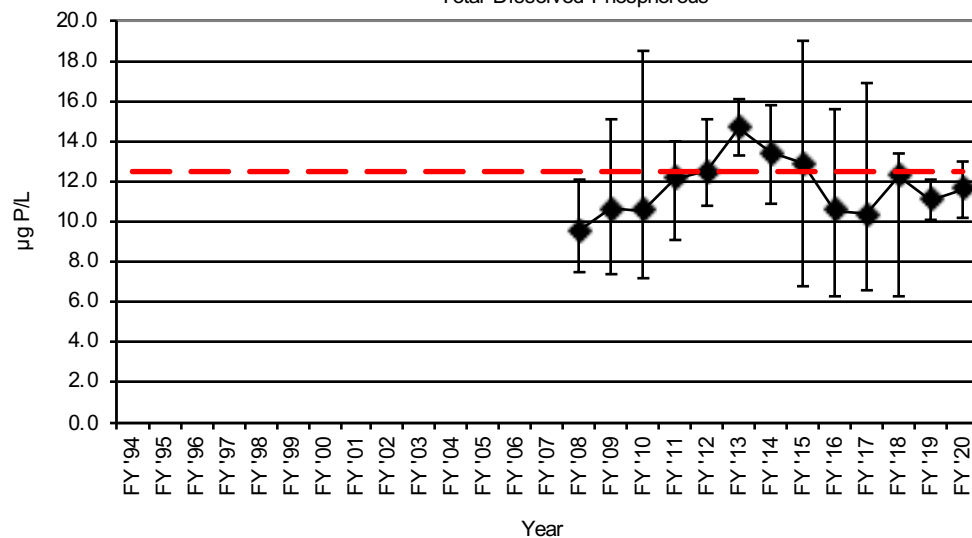
Yearly Geometric Mean of Nitrate + Nitrite



Transect 6, Station 4 2014 HDOH Class AA Water Quality Standard

NELHA Offshore Transect 6, Station 4

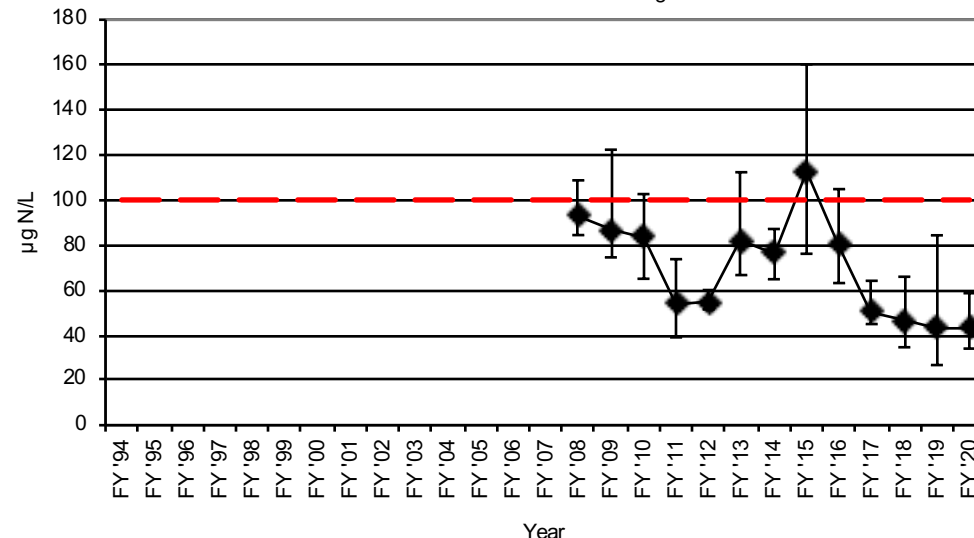
Yearly Geometric Mean of
Total Dissolved Phosphorous



Transect 6, Station 4 2014 HDOH Class AA Water Quality Standard

NELHA Offshore Transect 6, Station 4

Yearly Geometric Mean of
Total Dissolved Nitrogen



Transect 6, Station 4 2014 HDOH Class AA Water Quality Standard

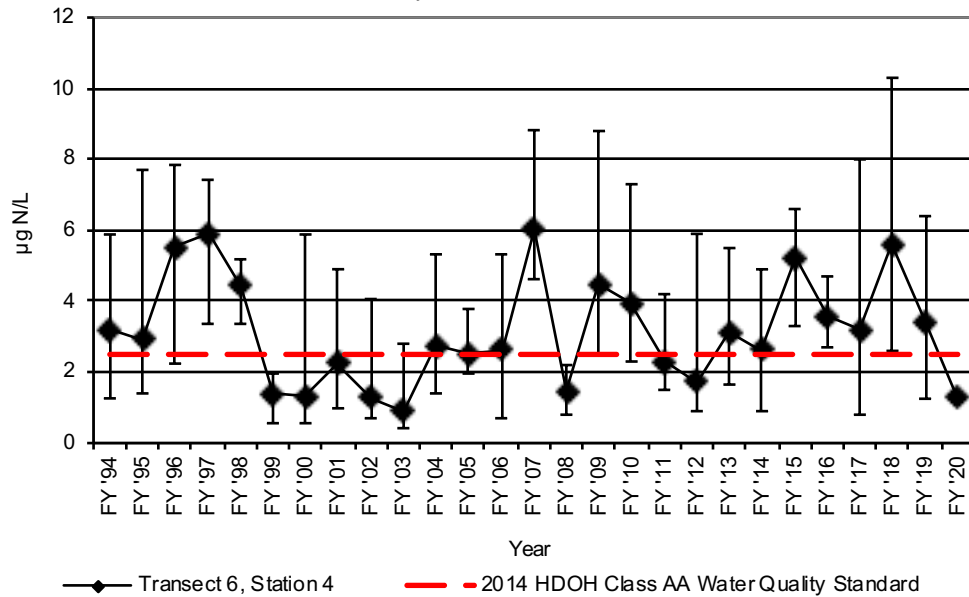
NELHA Water Quality Laboratory

Transect 6, Station 4

7/26/1993 - 7/16/20

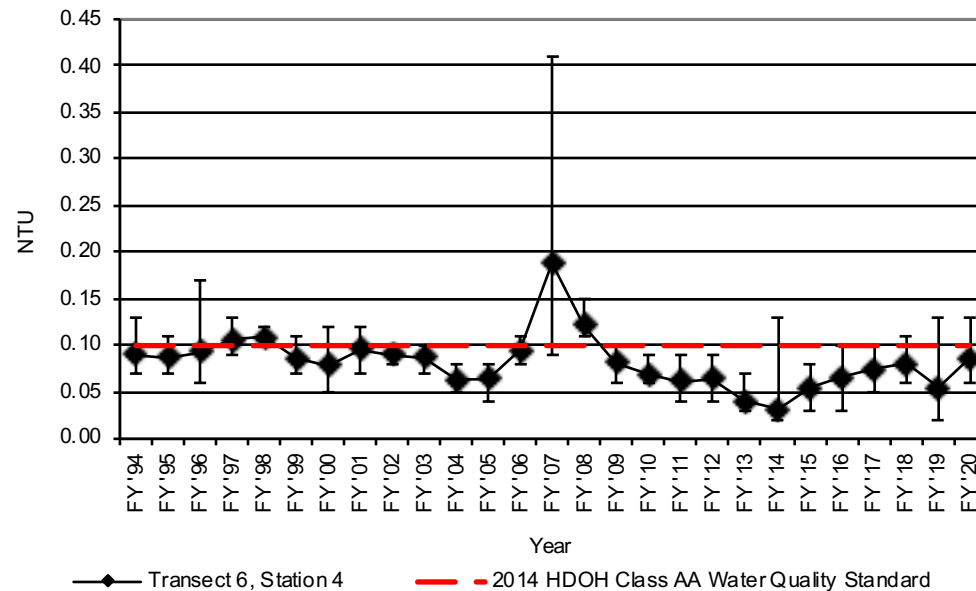
NELHA Offshore Transect 6, Station 4

Yearly Geometric Mean of Total Ammonia



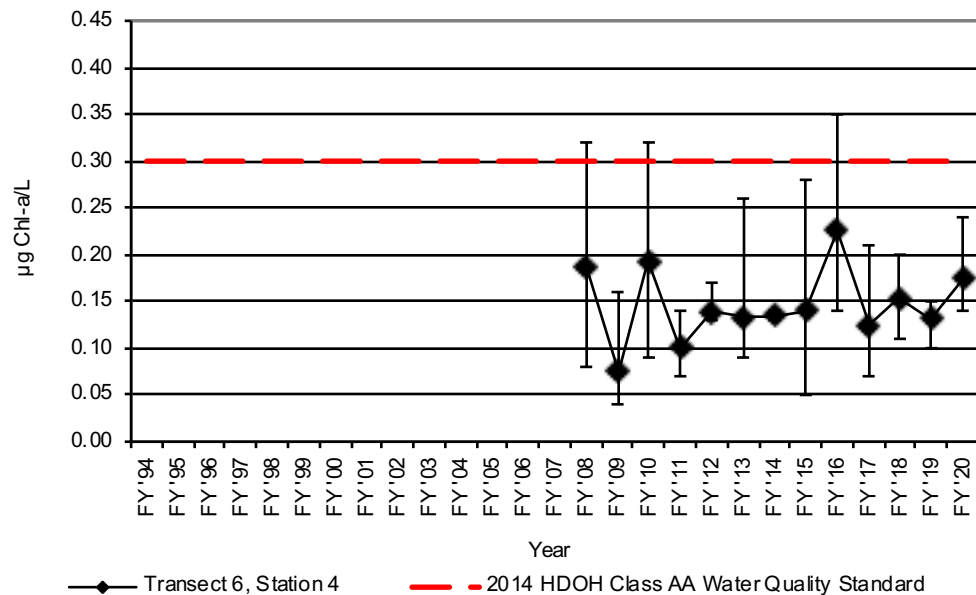
NELHA Offshore Transect 6, Station 4

Yearly Geometric Mean of Turbidity



NELHA Offshore Transect 6, Station 4

Yearly Geometric Mean of Chlorophyll-a



NELHA Water Quality Laboratory

Transect 6, Station 5

7/26/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (μM) (μg P/L)		TDN (μM) (μg N/L)		Turbidity (NTU)	Salinity (o/oo)	Temp. (°C)	pH	DO (ppm)	Chl a (μg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O6-5S-69m	7/26/93	1119	0.08	2.5	0.14	2.0	0.39	5.5	2.1	60					0.08	34.431	26.9			
O6-5S-69m	12/6/93	907	0.06	1.9	0.51	7.1	0.06	0.8	3.9	109					0.08	34.772	25.7			
O6-5S-69m	3/7/94	840	0.22	6.8	0.84	11.8	0.18	2.5	10.6	298					0.08	33.989	24.9			
O6-5S-69m	6/15/94	853	0.20	6.2	0.21	2.9	0.12	1.7	4.1	116					0.10	34.476	25.6			
Geomean	FY '94		3.7		4.7		2.1								0.08					
O6-5S-69m	9/9/94	842	0.07	2.2	0.03	0.4	0.04	0.6	2.6	72					0.09	34.598	27.6			
O6-5S-69m	11/14/94	755	0.15	4.6	0.61	8.5	0.55	7.7	8.3	232					0.09	34.473	26.0			
O6-5S-69m	3/22/95	814	0.17	5.3	0.24	3.4	0.34	4.8	4.8	135					0.11	34.152	25.0			
O6-5S-69m	6/20/95	815	0.14	4.3	0.40	5.6	0.09	1.3	5.4	151					0.06	34.342	26.2			
Geomean	FY '95		3.9		2.9		2.3								0.09					
O6-5S-69m	9/26/95	1002	0.12	3.7	0.40	5.6	0.47	6.6	9.6	269					0.11	34.363	27.0			
O6-5S-69m	11/14/95	1054	0.12	3.7	0.37	5.2	0.60	8.4	5.3	148					0.12	34.233	26.8			
O6-5S-69m	3/12/96	1115	0.18	5.6	0.21	2.9	0.58	8.1	4.0	113					0.06	34.129	25.5			
O6-5S-69m	5/14/96	1113	0.09	2.8	0.02	0.3	0.11	1.5	2.3	65					0.05	34.317	27.5			
Geomean	FY '96		3.8		2.2		5.1								0.08					
O6-5S-69m	7/31/96	1148	0.14	4.3	1.83	25.6	0.55	7.7	24.9	698					0.12	33.672	27.7			
O6-5S-69m	10/2/96	1115	0.09	2.8	0.72	10.1	0.50	7.0	11.1	313					0.15	34.317	28.4			
O6-5S-69m	1/7/97	1120	0.09	2.8	0.55	7.7	0.25	3.5	7.5	210					0.11	34.547	25.6			
O6-5S-69m	4/28/97	1136	0.17	5.3	0.59	8.3	0.55	7.7	8.8	248					0.09	34.222	26.6			
Geomean	FY '97		3.6		11.3		6.2								0.12					
O6-5S-69m	8/19/97	1117	0.12	3.7	0.63	8.8	0.24	3.4	11.0	308					0.11	34.358	27.0			
O6-5S-69m	10/7/97	1016	0.10	3.1	0.11	1.5	0.37	5.2	4.4	125					0.13	34.709	27.6			
O6-5S-69m	3/4/98	1149	0.10	3.1	0.47	6.6	0.24	3.4	8.0	226					0.14	34.849	25.2			
O6-5S-69m	5/5/98	1141	0.14	4.3	1.47	20.6	0.31	4.3	16.6	466					0.08	34.647	24.5			
Geomean	FY '98		3.5		6.6		4.0								0.11					
O6-5S-69m	7/7/98	1154	0.14	4.3	1.00	14.0	0.07	1.0	13.8	388					0.12	34.664	26.2			
O6-5S-69m	10/6/98	1106	0.13	4.0	0.02	0.3	0.13	1.8	13.6	381					0.09	34.838	27.3			
O6-5S-69m	1/19/99	1148	0.09	2.8	0.67	9.4	0.08	1.1	10.2	285					0.13	34.894	25.0			
O6-5S-69m	4/12/99	1145	0.12	3.7	0.20	2.8	0.14	2.0	6.1	172					0.09	34.614	24.2			
Geomean	FY '99		3.7		3.2		1.4								0.11					

NELHA Water Quality Laboratory

Transect 6, Station 5

7/26/1993 - 7/16/20

SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		Turbidity	Salinity	Temp.	pH	DO	Chl a
	M/D/Y	(2400)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg N/L)	(μM)	(μg Si/L)	(μM)	(μg P/L)	(μM)	(μg N/L)	(NTU)	(o/oo)	(°C)		(ppm)	(μg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O6-5S-69m	7/6/99	1213	0.09	2.8	0.26	3.6	0.08	1.1	5.0	139					0.08	34.854	25.8			
O6-5S-69m	10/4/99	1234	0.10	3.1	0.28	3.9	0.06	0.8	4.1	115					0.11	34.921	26.4			
O6-5S-69m	1/12/00	1140	0.14	4.3	0.96	13.4	0.40	5.6	13.9	389					0.07	34.680	24.9			
O6-5S-69m	4/11/00	1042	0.10	3.1	0.22	3.1	0.06	0.8	6.5	184					0.07	34.726	24.6			
Geomean FY '00			3.3		4.9		1.5								0.08					
O6-5S-69m	7/25/00	1205	0.10	3.1	0.17	2.4	0.05	0.7	5.0	140					0.07	34.789	26.7			
O6-5S-69m	10/31/00	1148	0.12	3.7	0.54	7.6	0.30	4.2	12.9	362					0.12	34.701	27.0			
O6-5S-69m	3/6/01	1134	0.15	4.6	0.18	2.5	0.10	1.4	4.2	117					0.07	34.684	24.8			
O6-5S-69m	5/7/01	1236	0.20	6.2	1.94	27.2	0.35	4.9	30.1	845					0.09	34.257	24.8			
Geomean FY '01			4.3		5.9		2.1								0.09					
O6-5S-69m	8/14/01	1038	0.12	3.7	0.10	1.4	0.25	3.5	3.0	85					0.14	34.852	26.8			
O6-5S-69m	10/30/01	1050	0.14	4.3	0.70	9.8	0.03	0.4	8.1	227					0.08	34.801	26.8			
O6-5S-69m	3/6/02	1057	0.21	6.5	3.43	48.0	0.08	1.1	17.1	480					0.13	34.231	24.3			
O6-5S-69m	4/15/02	1111	0.16	5.0	2.64	37.0	0.04	0.6	18.8	529					0.08	34.516	25.6			
Geomean FY '02			4.8		12.5		1.0								0.10					
O6-5S-69m	7/10/02	1101	0.06	1.9	1.74	24.4	0.20	2.8	12.2	342					0.07	34.379	26.2			
O6-5S-69m	10/8/02	1056	0.10	3.1	1.01	14.1	0.09	1.3	6.9	194					0.11	34.774	27.0			
O6-5S-69m	3/12/03	953	0.14	4.3	0.84	11.8	0.03	0.4	10.6	298					0.09	34.480	25.0			
O6-5S-69m	4/23/03	1105	0.14	4.3	1.40	19.6	0.03	0.4	13.9	391					0.10	34.578	24.9			
Geomean FY '03			3.2		16.8		0.9								0.09					
O6-5S-69m	8/21/03	1030	0.09	2.8	0.04	0.6	0.10	1.4	4.3	122					0.07	34.748	28.3			
O6-5S-69m	11/3/03	1000	0.10	3.1	0.01	0.1	0.14	2.0	2.5	71					0.08	34.651	26.8			
O6-5S-69m	3/18/04	1027	0.19	5.9	1.82	25.5	0.37	5.2	17.3	485					n/a	34.859	25.8			
O6-5S-69m	5/24/04	1043	0.15	4.6	0.42	5.9	0.23	3.2	5.8	163					n/a	33.31	26.8			
Geomean FY '04			3.9		1.9		2.6								0.07					
O6-5S-69m	9/22/04	1119	0.07	2.2	0.07	1.0	0.31	4.3	5.1	144					0.05	33.69	27.7			
O6-5S-69m	11/29/04	1026	0.09	2.8	0.34	4.8	0.17	2.4	4.6	129					0.05	33.63	27.0			
O6-5S-69m	1/24/05	1102	0.05	1.5	0.01	0.1	0.16	2.2	2.4	67					0.08	34.834	25.7			
O6-5S-69m	4/13/05	1108	0.14	4.3	0.34	4.8	0.16	2.2	8.6	242					0.07	34.333	25.0			
Geomean FY '05			2.5		1.3		2.7								0.06					

NELHA Water Quality Laboratory

Transect 6, Station 5

7/26/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (o/oo)	Temp. (°C)	pH	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
O6-5S-69m	7/21/05	1041	0.06	1.9	0.26	3.6	0.39	5.5	6.0	169					0.08	34.364	27.4			
O6-5S-69m	10/13/05	1015	0.06	1.9	0.14	2.0	0.20	2.8	3.6	101					0.11	34.817	27.5			
O6-5S-69m	3/15/06	939	0.12	3.7	0.64	9.0	0.40	5.6	8.6	242					0.09	34.659	24.5			
O6-5S-69m	5/17/06	1023	0.09	2.8	0.07	1.0	0.17	2.4	3.0	84					0.07	34.662	24.7			
Geomean FY '06			2.4		2.8		3.8								0.09					
O6-5S-69m	8/16/06	1028	0.13	4.0	0.50	7.0	0.37	5.2	4.4	123					0.14	34.580	26.8			
O6-5S-69m	11/20/06	1023	0.14	4.3	0.65	9.1	0.52	7.3	6.8	192					0.12	34.660	26.7			
O6-5S-69m	2/12/07	1122	0.13	4.0	0.30	4.2	0.38	5.3	2.1	60					0.33	34.407	24.8			
O6-5S-69m	4/16/07	1105	0.16	5.0	1.03	14.4	0.41	5.7	12.9	362					0.13	34.021	26.5			
Geomean FY '07			4.3		7.9		5.8								0.16					
T6-500m	9/27/07	945	0.14	4.4	0.01	0.1	0.13	1.8	5.4	151	0.35	10.8	7.8	110	0.15	34.905	26.7	8.08	6.28	0.06
T6-500m	12/14/07	1038	0.09	2.9	0.01	0.1	0.00		2.0	55	0.35	10.8	6.2	87	0.08	34.727	25.7	8.16	6.52	0.12
T6-500m	3/11/08	1048	0.07	2.3	0.05	0.7	0.06	0.8	3.4	97	0.18	5.5	6.5	91	0.19	34.909	24.8	8.12	6.62	0.23
T6-500m	6/9/08	1114	0.05	1.6	0.05	0.7	0.16	2.2	14.8	416	0.23	7.2	8.9	124	0.09	34.7104	25.8	8.11	5.58	0.33
Geomean FY '08			2.6		0.3		1.5				8.2		102		0.12					0.15
T6-500m	9/23/08	1219	0.11	3.4	0.04	0.6	0.28	3.9	2.3	66	0.47	14.6	4.5	63	0.06	34.802	26.8	8.07	5.75	0.15
T6-500m	12/8/08	1121	0.16	5.1	0.40	5.6	0.33	4.6	4.2	119	0.34	10.6	5.6	78	0.07	34.889	26.4	8.29	5.59	0.02
T6-500m	2/10/09	1009	0.06	2	0.10	1.4	0.18	2.5	1.3	37	0.48	14.9	7.9	110	0.06	35.107	24.7	8.06	5.97	0.03
T6-500m	6/30/09	1102	0.27	8.3	0.45	6.3	0.12	1.7	6.2	173	0.49	15.3	4.8	67	0.14	34.917	27.0	8.20	5.92	0.09
Geomean FY '09			4.1		2.3		3.0				13.7		78		0.08					0.05
T6-500m	9/10/09	1123	0.17	5.3	0.09	1.3	0.56	7.8	5.0	139	0.54	16.8	5.3	74	0.06	35.21	27.4	8.18	5.22	0.32
T6-500m	11/24/09	1035	0.02	0.766	0.02	0.3	0.12	1.7	4.8	136	0.34	10.4	4.7	65	0.03	35.27	25.2	8.25	6.38	0.12
T6-500m	2/24/10	1104	0.11	3.3	0.03	0.4	0.40	5.6	2.2	62	0.43	13.2	6.9	97	0.11	34.68	24.6	8.20	5.44	0.24
T6-500m	5/26/10	1025	0.01	0.2	0.04	0.5	0.15	2.1	2.5	70	0.19	6	4.2	60	0.05	34.85	25.1	8.27	6.71	0.09
Geomean FY '10			1.3		0.5		3.5				10.8		73		0.06					0.17
T6-500m	8/11/10	1042	0.02	0.6	0.16	2.2	0.07	1	2.7	75	0.30	9.4	2.7	38	0.04	34.99	26.10	8.22	6.55	0.15
T6-500m	11/9/10	1037	0.03	0.8	0.13	1.8	0.15	2.1	2.5	71	0.38	11.9	4.1	57	0.08	34.94	26.50	8.29	6.13	0.03
T6-500m	1/11/11	1302	0.11	3.4	0.01	0.2	0.09	1.3	4.1	114	0.42	13.1	3.0	43	0.08	35.03	25.13	8.25	6.39	0.05
T6-500m	4/27/11	1034	0.14	4.4	0.12	1.7	0.06	0.8	6.1	171	0.41	12.7	4.0	56	0.11	34.87	24.89	8.22	6.22	0.20
Geomean FY '11			1.6		1.1		1.2				11.7		48		0.07					0.08

NELHA Water Quality Laboratory

Transect 6, Station 5

7/26/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (o/oo)	Temp. (°C)	pH	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
T6-500m	7/27/11	1120	0.17	5.3	0.02	0.23	0.05	0.7	0.2	5	0.46	14.2	2.9	41	0.03	34.86	26.31	8.23	6.36	0.09
T6-500m	10/19/11	1104	0.04	1.2	0.06	0.9	0.05	0.7	2.9	82	0.39	12	3.5	49	0.05	35.09	26.71	8.26	6.98	0.15
T6-500m	1/26/12	1030	0.05	1.6	0.04	0.6	0.06	0.8	1.1	31	0.35	10.9	3.2	45	0.09	35.06	24.49	8.22	6.66	0.15
T6-500m	4/25/12	1042	0.17	5.4	0.15	2.1	0.36	5.1	3.2	89	0.44	13.6	3.8	54	0.10	34.91	24.88	8.19	6.69	0.04
Geomean	FY '12		2.7		0.7		1.2				12.6		47		0.06					0.09
T6-500m	7/25/12	1049	0.01	0.2	0.03	0.4	0.34	4.7	1.5	41	0.35	10.9	3.1	43	0.06	35.11	26.50	8.24	7.21	0.16
T6-500m	11/28/12	1041	0.12	3.6	1.06	14.9	0.31	4.4	7.4	209	0.55	16.9	4.8	67	0.03	34.96	25.23	8.20	6.59	0.15
T6-500m	1/24/13	1035	0.07	2.2	0.01	0.1	0.04	0.6	1.1	30	0.43	13.3	3.8	53	0.05	35.13	24.87	8.23	6.30	0.05
T6-500m	4/24/13	1000	0.15	4.75	0.01	0.1	0.13	1.85	3.2	89	0.55	17.15	3.6	51	0.03	35.15	25.17	8.22	6.80	0.05
Geomean	FY '13		1.7		0.5		2.2				14.3		53		0.04					0.09
T6-500m	8/6/13	1118	0.06	1.8	0.02	0.3	0.16	2.3	2.1	59	0.33	10.2	4.4	62	0.02	35.24	26.8	8.20	6.85	0.10
T6-500m	10/30/13	1027	0.13	4.1	0.17	2.4	0.06	0.8	2.0	57	0.53	16.4	5.3	75	0.02	34.90	27.1	8.22	5.84	0.11
T6-500m	2/5/14	1051	0.13	4.0	0.14	2.0	0.21	3.0	2.4	68	0.46	14.3	3.7	52	0.02	34.94	25.2	8.21	6.27	0.20
T6-500m	5/7/14	1049	0.13	3.9	0.31	4.4	0.11	1.5	2.8	78	0.45	13.9	5.4	75	0.06	34.75	25.8	8.20	5.36	0.15
Geomean	FY '14		3.3		1.6		1.7				13.5		65		0.03					0.13
T6-500m	8/6/14	1040	0.16	4.9	0.01	0.2	0.24	3.4	0.6	16	0.48	14.9	3.6	51	0.07	34.98	27.1	8.22	5.97	0.08
T6-500m	12/4/14	1120	0.03	4.6	0.16	12.6	0.09	7.8	2.3	155	0.31	15.3	2.2	73	0.06	35.10	26.3	8.26	6.15	0.20
T6-500m	3/5/15	1137					0.17	2.4							0.10	34.70	25.5	8.29	6.60	0.11
T6-500m	6/18/15	1058	0.10	3.2	0.02	0.3	0.29	4.0	1.5	42	0.35	10.7	6.4	90	0.06	34.48	27.1	8.21	6.50	0.14
Geomean	FY '15		4.2		0.9		4.0				13.5		69		0.07					0.13
T6-500m	8/27/15	1054	0.14	4.2	0.06	0.8	0.18	2.5	2.7	77	0.19	5.9	4.7	67	0.03	34.69	28.6	8.28	5.99	0.03
T6-500m	11/18/15	1128	0.15	4.5	0.45	6.3	0.16	2.3	3.6	102	0.54	16.8	7.3	103	0.06	34.58	27.4	8.30	6.68	0.10
T6-500m	3/2/16	1005	0.11	3.3	0.06	0.8	0.39	5.5	1.1	31	0.46	14.4	6.1	85	0.08	34.81	25.4	8.26	5.71	0.09
T6-500m	5/4/16	1106	0.12	3.6	0.09	1.2	0.21	3.0	1.5	42	0.27	8.4	4.1	58	0.08	34.69	26.0	8.19	6.01	0.28
Geomean	FY '16		3.9		1.5		3.1				10.5		76		0.06					0.09
T6-500m	7/7/16	1106	0.07	2.1	1.06	14.8	0.49	6.8	0.4	12	0.41	12.8	2.1	29	0.10	34.68	27.1	8.33	6.70	0.22
T6-500m	12/21/16	1147	0.04	1.1	0.16	2.3	0.04	0.5	1.6	45	0.35	10.9	4.4	62	0.03	34.67	25.6	8.28	5.76	0.19
T6-500m	3/1/17	1215	0.01	0.3	0.01	0.1	0.07	1.0	0.2	5	0.30	9.2	3.6	51	0.09	34.78	24.6	8.25	5.61	0.17
T6-500m	5/10/17	1201	0.05	1.7	0.01	0.2	0.05	0.7	0.1	3	0.22	6.9	3.3	46	0.08	34.87	25.6	8.22	4.11	0.07
Geomean	FY '17		1.0		0.9		1.2				9.7		45		0.07					0.15

NELHA Water Quality Laboratory

Transect 6, Station 5

7/26/1993 - 7/16/20

SITE ID	DATE M/D/Y	TIME (2400)	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)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (o/oo)	Temp. (°C)	pH	DO (ppm)	Chl a (µg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
T6-500m	9/28/17	1059	0.13	4.0	0.09	1.3	0.19	2.6	0.4	12	0.39	12.1	2.5	36	0.05	34.86	28.1	8.19	4.64	0.07
T6-500m	11/30/17	1039	0.09	2.7	0.10	1.4	0.51	7.2	1.2	33	0.36	11.2	3.6	51	0.04	35.23	26.5	8.25	5.50	0.13
T6-500m	2/6/18	1135	0.06	1.9	0.06	0.9	0.36	5.1	1.0	27.5	0.33	10.2	2.0	27.8	0.09	34.90	25.0	8.16	5.71	0.14
T6-500m	5/17/18	1051	0.08	2.5	0.13	1.8	0.17	2.4	3.3	93	0.36	11.2	3.1	43	0.05	34.81	26.2	8.16	6.31	0.12
Geomean	FY '18		2.7		1.3		3.9				11.2		38		0.05					0.11
T6-500m	9/26/18	1348	0.01	0.2	0.16	2.3	0.09	1.3	0.8	22	0.33	10.3	1.8	25	0.10	34.70	27.6	8.15	4.70	0.16
T6-500m	11/14/18	1151	0.04	1.1	0.12	1.7	0.56	7.8	0.0	1	0.37	11.5	3.4	48	0.06	34.93	27.3	8.20	6.02	0.20
T6-500m	1/23/19	1137	0.08	2.6	0.04	0.5	0.08	1.1	0.1	2.0	0.37	11.4	2.2	31.0	0.06	34.82	25.2	8.20	5.01	0.23
T6-500m	4/17/19	1134	0.11	3.4	0.03	0.4	0.17	2.4	0.6	17	0.37	11.6	3.1	43	0.03	34.74	26.0	8.13	6.77	0.07
Geomean	FY '19		1.2		0.9		2.3				11.2		35		0.06					0.15
T6-500m	8/15/19	1102	0.03	0.9	0.16	2.3	0.09	1.3	2.3	66	0.31	9.6	2.2	31	0.07	35.31	28.4	8.28	6.54	0.17
T6-500m	11/20/19	1215	0.11	3.4	0.04	0.5	0.09	1.3	0.5	13	0.42	13.1	3.0	42	0.06	35.21	27.7	8.22	6.49	0.12
T6-500m	1/23/20	1118	0.10	3.0	0.16	2.3	0.09	1.3	-0.7	-20.2	0.38	11.9	3.5	49.5	0.09	34.98	25.0	8.23	6.62	0.15
T6-500m	6/25/20	1039	0.07	2.3	0.16	2.3	0.06	0.9	0.5	13	0.33	10.3	2.5	36	0.06	35.54	26.4	8.18	6.60	0.22
Geomean	FY '20		2.1		1.6		1.2				11.1		39		0.07					0.16

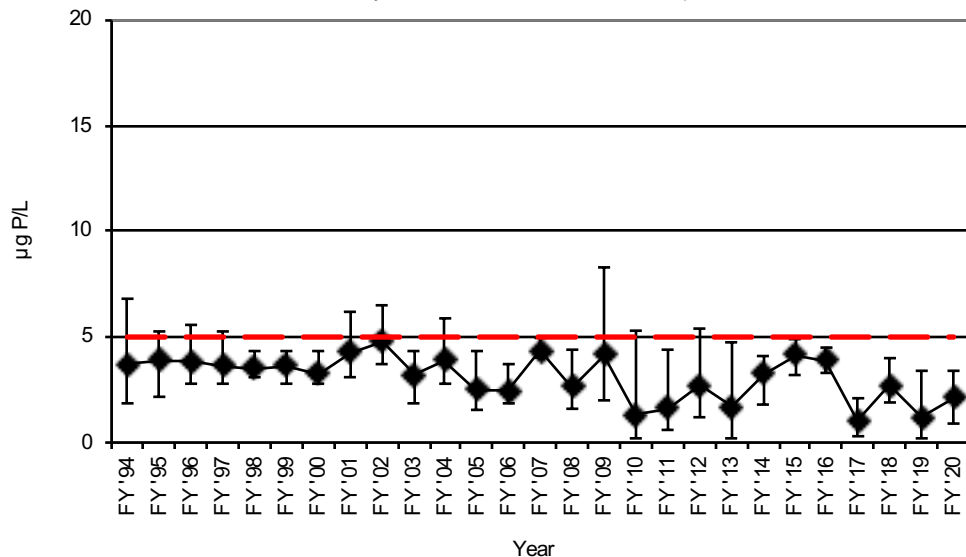
NELHA Water Quality Laboratory

Transect 6, Station 5

7/26/1993 - 7/16/20

NELHA Offshore Transect 6, Station 5

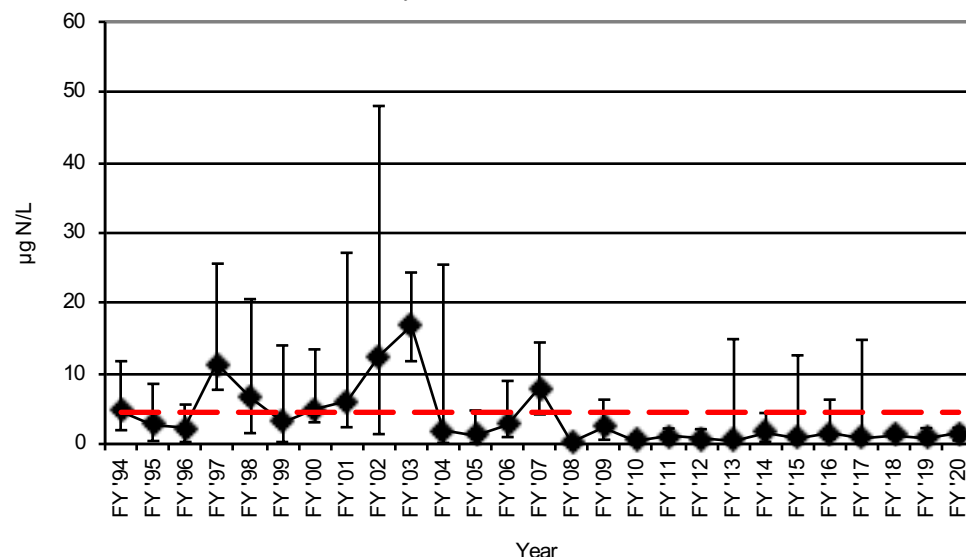
Yearly Geometric Mean of Ortho-Phosphate



Transect 6, Station 5 2014 HDOH Class AA Water Quality Standard

NELHA Offshore Transect 6, Station 5

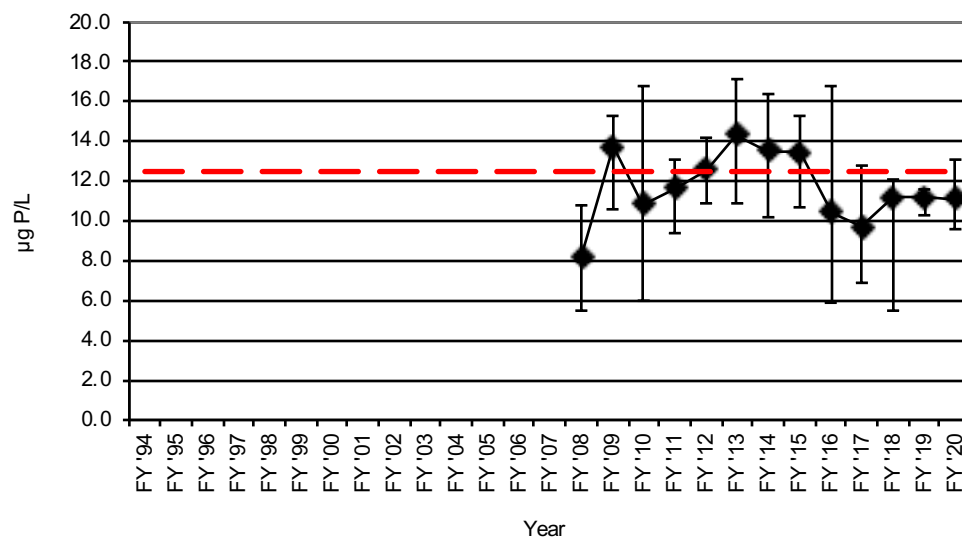
Yearly Geometric Mean of Nitrate + Nitrite



Transect 6, Station 5 2014 HDOH Class AA Water Quality Standard

NELHA Offshore Transect 6, Station 5

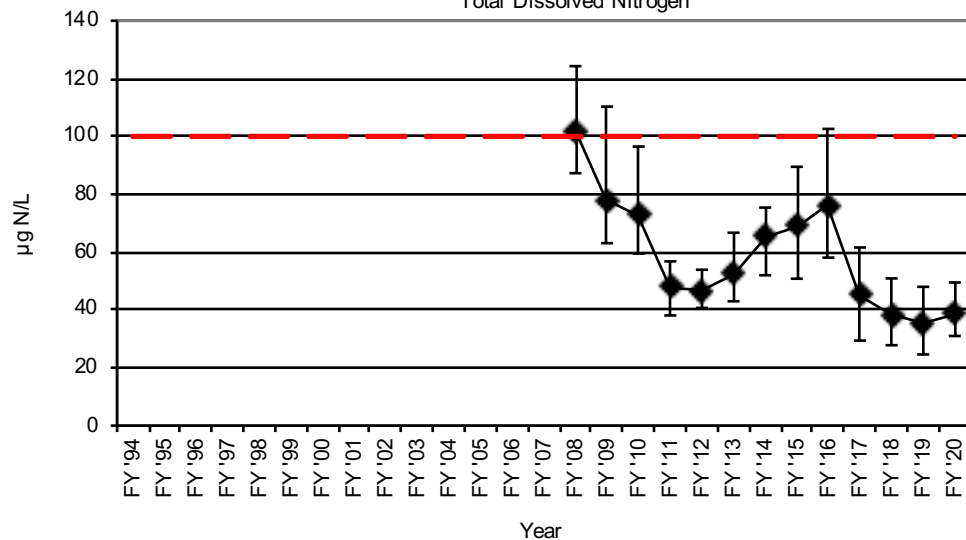
Yearly Geometric Mean of Total Dissolved Phosphorous



Transect 6, Station 5 2014 HDOH Class AA Water Quality Standard

NELHA Offshore Transect 6, Station 5

Yearly Geometric Mean of Total Dissolved Nitrogen



Transect 6, Station 5 2014 HDOH Class AA Water Quality Standard

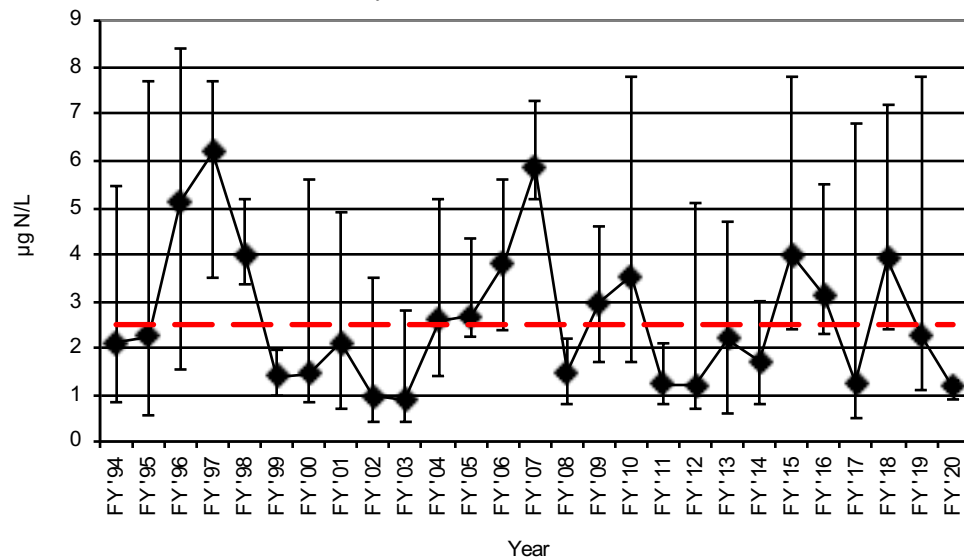
NELHA Water Quality Laboratory

Transect 6, Station 5

7/26/1993 - 7/16/20

NELHA Offshore Transect 6, Station 5

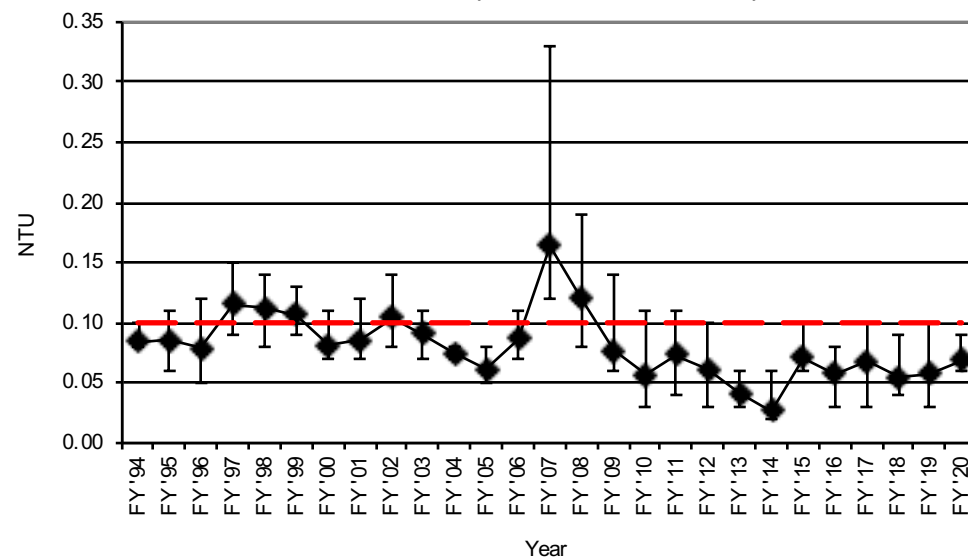
Yearly Geometric Mean of Total Ammonia



Transect 6, Station 5 2014 HDOH Class AA Water Quality Standard

NELHA Offshore Transect 6, Station 5

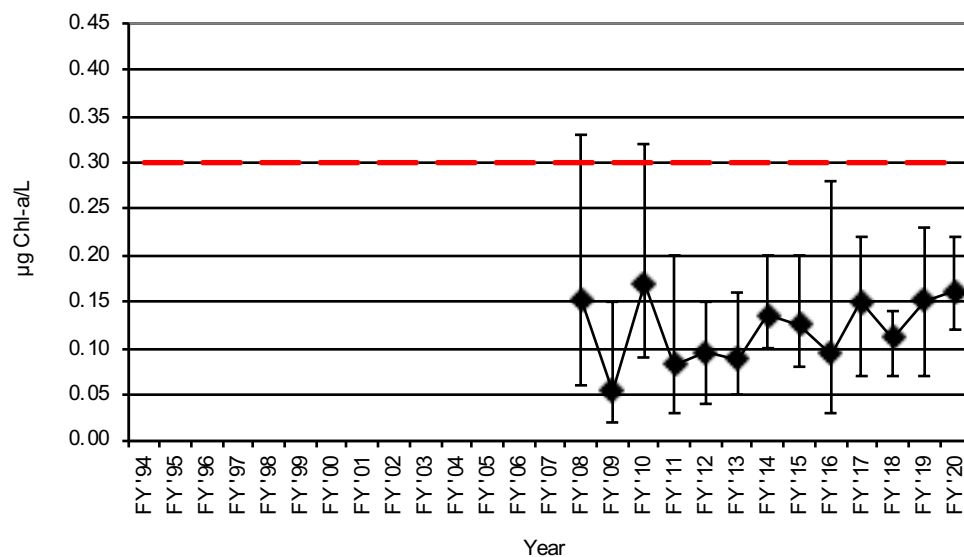
Yearly Geometric Mean of Turbidity



Transect 6, Station 5 2014 HDOH Class AA Water Quality Standard

NELHA Offshore Transect 6, Station 5

Yearly Geometric Mean of Chlorophyll-a



Transect 6, Station 5 2014 HDOH Class AA Water Quality Standard