

NELHA Water Quality Laboratory

Transect 4

July 2024 - June 2025

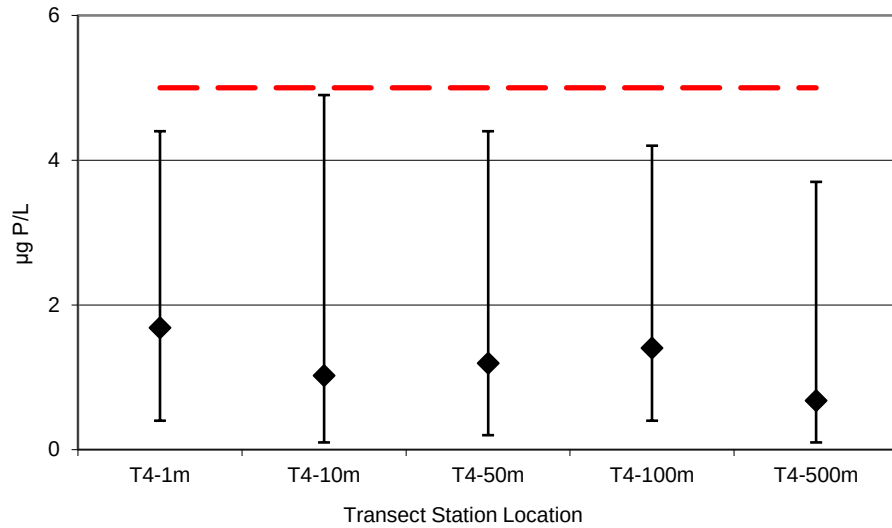
SITE ID	DATE	TIME	Tide		PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		Turbidity	Salinity	Temp.	pH	DO	Chl a	ORP
	M/D/Y	(2400)	(ft)	(cycle)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg N/L)	(μM)	(μg Si/L)	(μM)	(μg P/L)	(μM)	(μg N/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(μg/L)	(mV)
DOH LIMIT					0.16	5	0.32	4.5	0.18	2.5			0.40	12.5	7.1	100	0.10					0.30	
T4-1m	8/8/24	933	0.6	Ebb	0.12	3.8	0.34	4.7	0.04	0.5	1.4	38	0.25	7.7	5.1	71	0.13	34.75	27.3	8.08	6.83	0.23	219.3
T4-1m	12/18/24	1120	0.7	Ebb	0.14	4.4	0.25	3.5	0.26	3.7	1.0	29	0.28	8.7	5.6	78	0.09	34.86	25.8	8.15	6.97	0.14	262.5
T4-1m	3/6/25	922	0.3	Ebb	0.04	1.2	0.86	12.0	0.01	0.1	2.0	57	0.18	5.5	6.6	92	0.10	34.96	25.6	8.10	7.01	0.22	252.9
T4-1m	6/19/25	1248	1.4	High	0.01	0.4	0.09	1.2	0.09	1.2	0.0	1	0.17	5.3	5.9	82	0.11	34.89	27.0	8.16	6.92	0.22	213.5
Geomear	FY '25				0.05	1.7	0.28	3.9	0.0	0.7			0.2	6.6	5.8	81	0.11					0.20	
T4-10m	8/8/24	938	0.6	Ebb	0.10	3.2	0.24	3.3	0.06	0.8	1.2	35	0.24	7.5	4.9	68	0.10	34.75	27.3	8.10	6.87	0.22	220.5
T4-10m	12/18/24	1124	0.7	Ebb	0.16	4.9	0.24	3.3	0.25	3.5	1.0	27	0.27	8.5	5.3	74	0.08	34.84	25.8	8.15	6.95	0.11	263.7
T4-10m	3/6/25	926	0.3	Ebb	0.00	0.1	0.16	2.3	0.10	1.4	0.0	1	0.17	5.4	5.5	77	0.08	35.02	25.7	8.10	6.89	0.18	253.6
T4-10m	6/19/25	1253	1.4	High	0.02	0.7	0.05	0.7	0.09	1.2	0.1	2	0.17	5.4	6.0	84	0.09	34.89	27.0	8.16	6.88	0.21	212.6
Geomear	FY '25				0.03	1.0	0.15	2.0	0.1	1.5			0.2	6.6	5.4	76	0.08					0.17	
T4-50m	8/8/24	943	0.6	Ebb	0.11	3.3	0.04	0.5	0.04	0.6	1.1	32	0.24	7.4	5.2	73	0.10	34.76	27.2	8.09	6.67	0.20	221.8
T4-50m	12/18/24	1129	0.7	Ebb	0.14	4.4	0.13	1.8	0.24	3.3	0.8	23	0.28	8.7	5.2	73	0.07	34.88	25.8	8.15	6.76	0.10	265.6
T4-50m	3/6/25	931	0.3	Ebb	0.01	0.2	0.06	0.9	0.04	0.6	-0.1	-4	0.15	4.8	5.1	71	0.08	35.01	25.6	8.10	6.83	0.17	255.7
T4-50m	6/19/25	1259	1.4	High	0.02	0.7	0.03	0.4	0.07	1.0	0.1	2	0.16	5.0	5.8	82	0.07	34.88	26.9	8.15	6.78	0.17	211.1
Geomear	FY '25				0.04	1.2	0.05	0.8	0.1	1.0			0.2	6.3	5.3	75	0.08					0.16	
T4-100m	8/8/24	949	0.6	Ebb	0.11	3.3	0.01	0.1	0.04	0.5	1.1	31	0.23	7.1	4.6	65	0.09	34.76	27.5	8.09	6.66	0.20	217.1
T4-100m	12/18/24	1133	0.7	Ebb	0.14	4.2	0.29	4.1	0.23	3.2	1.3	36	0.27	8.3	5.2	73	0.08	34.87	25.9	8.15	6.88	0.11	265.6
T4-100m	3/6/25	937	0.3	Ebb	0.02	0.7	0.01	0.1	0.03	0.4	-0.3	-9	0.16	5.1	5.7	80	0.10	35.01	25.6	8.11	6.83	0.18	255.0
T4-100m	6/19/25	1304	1.4	High	0.01	0.4	0.03	0.4	0.13	1.8	0.1	2	0.14	4.4	5.9	83	0.08	34.88	26.9	8.15	6.79	0.19	210.3
Geomear	FY '25				0.05	1.4	0.03	0.4	0.1	1.0			0.2	6.0	5.3	75	0.09					0.17	
T4-500m	8/8/24	957	0.6	Ebb	0.09	2.8	0.01	0.2	0.08	1.1	1.3	37	0.22	6.9	4.4	61	0.09	34.76	27.4	8.10	6.68	0.16	219.6
T4-500m	12/18/24	1142	0.7	Ebb	0.12	3.7	0.01	0.1	0.11	1.6	0.4	11	0.24	7.4	6.1	86	0.06	34.88	25.9	8.15	6.71	0.09	266.4
T4-500m	3/6/25	946	0.3	Ebb	0.01	0.2	0.04	0.5	0.01	0.2	-0.1	-3	0.16	5.0	5.4	76	0.07	35.01	25.9	8.11	6.82	0.18	247.6
T4-500m	6/19/25	1311	1.4	High	0.00	0.1	0.01	0.2	0.10	1.4	0.0	-1	0.14	4.3	5.4	76	0.08	34.88	27.0	8.15	6.75	0.19	206.6
Geomear	FY '25				0.02	0.7	0.02	0.2	0.1	0.8			0.2	5.8	5.3	74	0.07					0.15	

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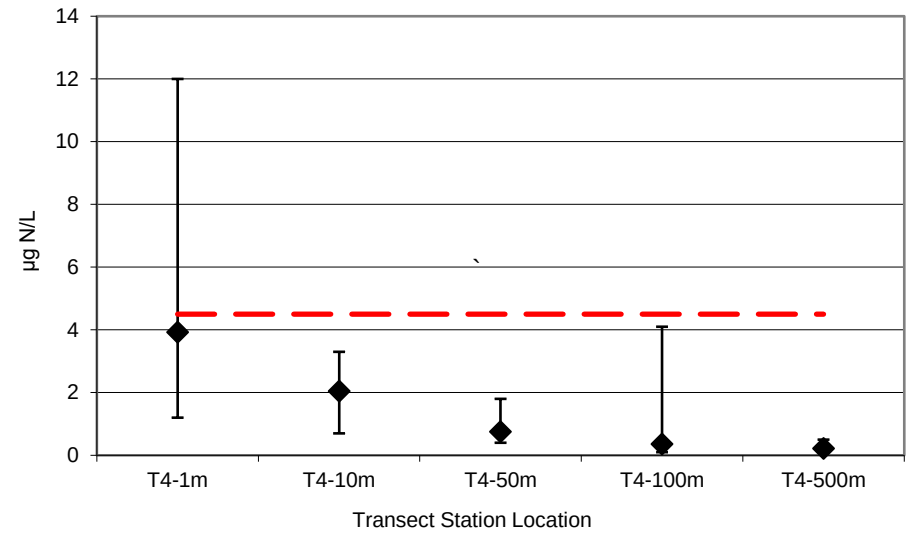
July 2024 - June 2025

Ortho-Phosphate Geometric Mean



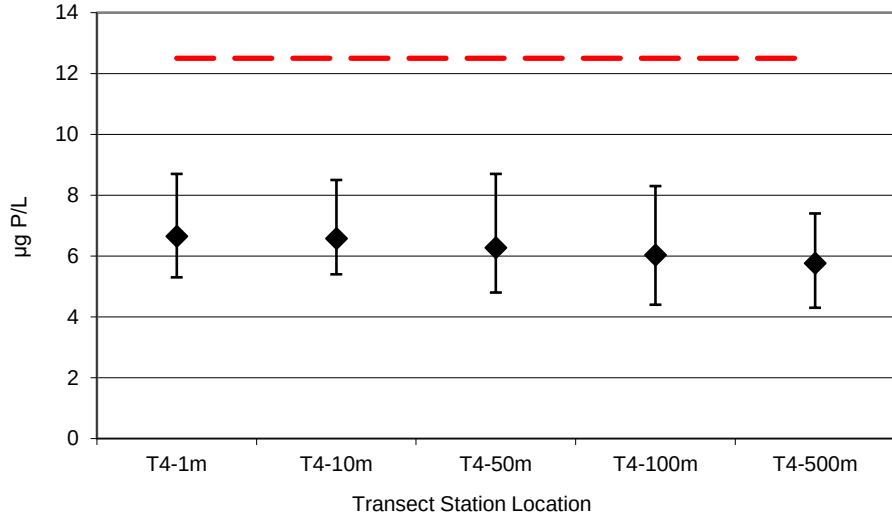
◆ Transect 4, July 2023 - June 2024

Nitrate + Nitrite Geometric Mean



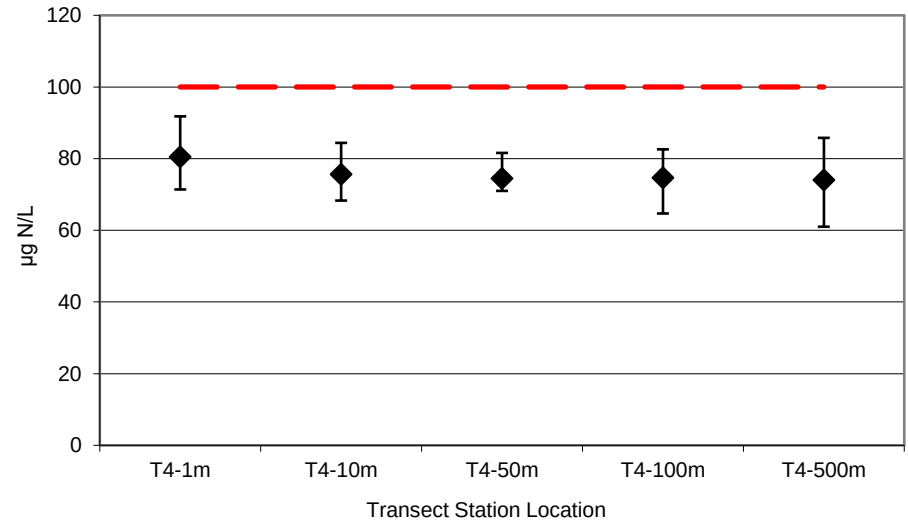
◆ Transect 4, July 2023 - June 2024

Total Dissolved Phosphorous Geometric Mean



◆ Transect 4, July 2023 - June 2024

Total Dissolved Nitrogen Geometric Mean

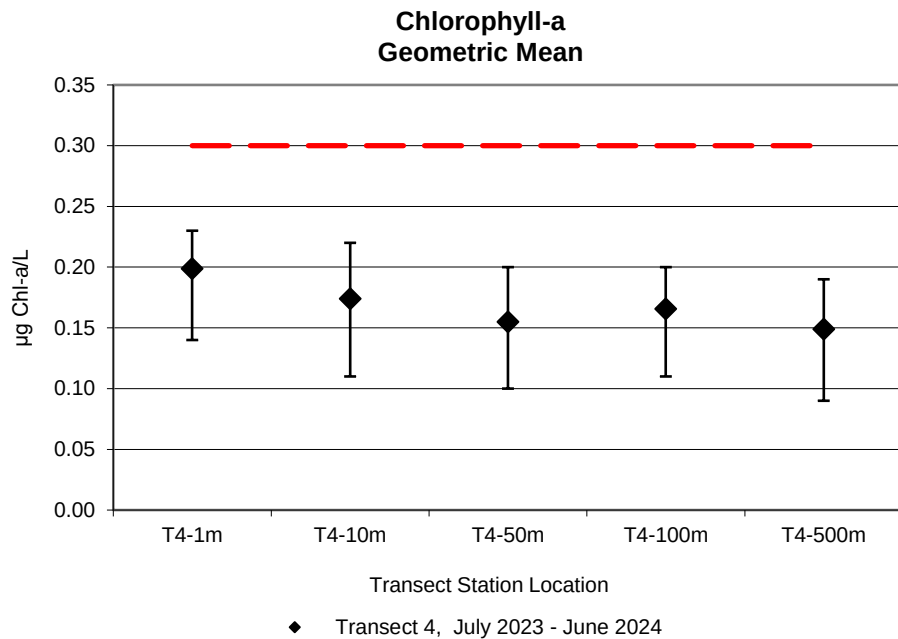
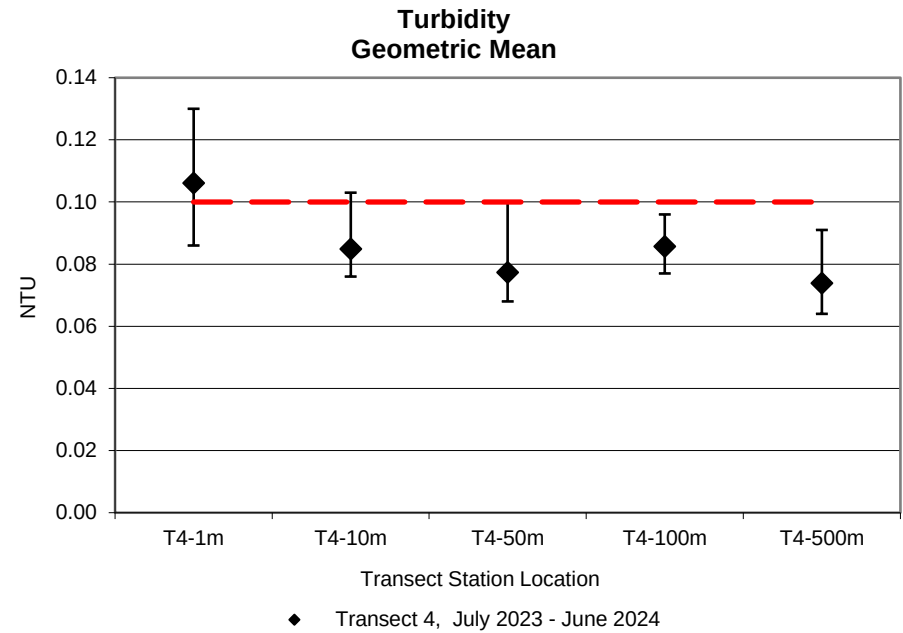
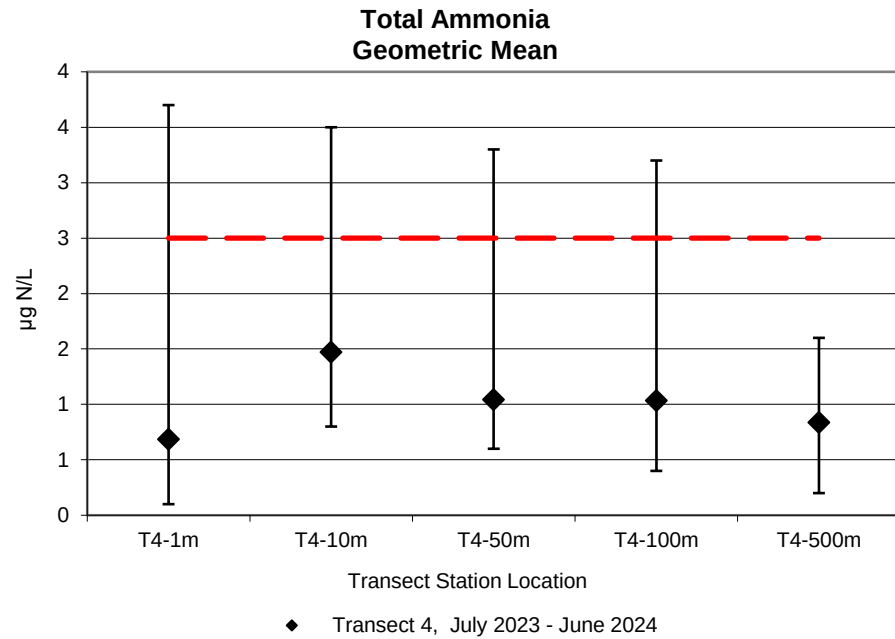


◆ Transect 4, July 2023 - June 2024

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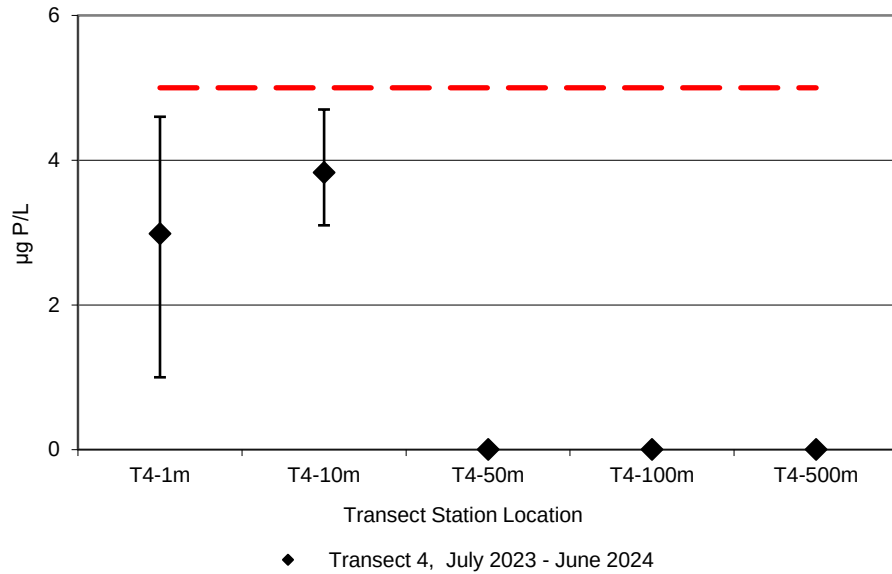
SITE ID	DATE	TIME	Tide		PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		Turbidity	Salinity	Temp.	pH	DO	Chl a	ORP
	M/D/Y	(2400)	(ft)	(cycle)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg N/L)	(μM)	(μg Si/L)	(μM)	(μg P/L)	(μM)	(μg N/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(μg/L)	(mV)
DOH LIMIT					0.16	5	0.32	4.5	0.18	2.5			0.40	12.5	7.1	100	0.10					0.30	
T4-1m	9/14/23	859	0.1	Low	0.13	4.0	1.08	15.1	0.14	2.0	3.8	108	0.25	7.8	6.3	88	0.15	34.82	27.0	8.06	6.75	0.26	219.2
T4-1m	12/8/23	920	0.8	Flood	0.14	4.3	0.74	10.3	0.34	4.7	2.1	58	0.40	12.3	5.6	79	0.12	34.94	26.2	8.07	6.75	0.12	200.4
T4-1m	2/22/24	1008	0.2	Low	0.03	1.0	0.79	11.0	0.20	2.8	2.0	57	0.12	3.7	6.6	93	0.16	34.94	25.0	8.14	7.14	0.19	201.8
T4-1m	6/19/24	1003	0.9	Flood	0.15	4.6	0.29	4.0	0.28	3.9	1.8	51	0.30	9.4	5.2	73	0.14	34.86	26.5	8.02	7.03	0.14	233.6
Geomear FY '24					0.10	3.0	0.65	9.1	0.2	3.2			0.2	7.6	5.9	83	0.14					0.17	
T4-10m	9/14/23	904	0.1	Low	0.10	3.2	0.37	5.2	0.14	2.0	1.5	43	0.24	7.5	5.9	82	0.13	34.84	27.1	8.08	6.67	0.15	229.3
T4-10m	12/8/23	925	0.8	Flood	0.15	4.7	0.36	5.0	0.44	6.1	0.9	27	0.37	11.6	5.2	73	0.10	34.98	26.2	8.07	6.63	0.15	194.5
T4-10m	2/22/24	1016	0.2	Low	0.10	3.1	0.88	12.3	0.24	3.3	2.2	63	0.12	3.7	6.0	84	0.14	35.02	25.0	8.13	7.06	0.21	202.9
T4-10m	6/19/24	1009	0.9	Flood	0.15	4.6	0.24	3.4	0.28	3.9	1.3	35	0.29	9.1	5.0	70	0.12	34.90	26.4	8.02	6.91	0.11	238.7
Geomear FY '24					0.12	3.8	0.41	5.7	0.3	3.5			0.2	7.4	5.5	77	0.12					0.15	
T4-50m	9/14/23	912	0.1	Low	0.07	2.1	0.14	1.9	-0.04	-0.6	0.4	13	0.25	7.6	5.3	75	0.12	34.84	27.1	8.08	6.66	0.20	232.3
T4-50m	12/8/23	931	0.8	Flood	0.10	3.2	0.39	5.5	0.44	6.2	1.0	27	0.35	10.7	5.6	79	0.09	34.98	26.2	8.07	6.53	0.11	192.2
T4-50m	2/22/24	1021	0.2	Low	-0.01	-0.2	0.42	5.9	0.23	3.2	0.8	23	0.06	1.8	5.5	76	0.15	35.05	25.0	8.13	6.94	0.21	202.8
T4-50m	6/19/24	1015	0.9	Flood	0.19	5.8	0.14	1.9	0.10	1.4	1.1	30	0.28	8.7	5.0	70	0.12	34.89	26.3	8.02	6.76	0.11	243.7
Geomear FY '24					#NUM!	#NUM!	0.23	3.3	#NUM!	#NUM!			0.2	6.0	5.3	75	0.12					0.15	
T4-100m	9/14/23	920	0.1	Low	0.11	3.4	0.18	2.5	0.12	1.7	0.4	10	0.24	7.4	5.3	75	0.12	34.84	27.1	8.09	6.66	0.18	235.3
T4-100m	12/8/23	940	0.8	Flood	0.15	4.5	0.34	4.7	0.56	7.8	1.0	29	0.27	8.3	9.2	129	0.10	34.99	26.3	8.09	6.60	0.12	189.0
T4-100m	2/22/24	1027	0.2	Low	-0.02	-0.5	0.19	2.7	0.23	3.2	-0.3	-9	0.07	2.3	5.5	77	0.16	35.07	25.0	8.12	6.84	0.22	203.4
T4-100m	6/19/24	1021	0.9	Flood	0.15	4.8	0.18	2.5	0.26	3.7	1.4	40	0.29	9.1	5.0	69	0.12	34.89	26.3	8.02	6.77	0.11	242.2
Geomear FY '24					#NUM!	#NUM!	0.21	3.0	0.3	3.5			0.2	6.0	6.0	85	0.12					0.15	
T4-500m	9/14/23	928	0.1	Low	0.11	3.4	0.16	2.2	0.00	0.0	0.7	18	0.19	5.9	5.1	71	0.16	34.85	27.2	8.09	6.66	0.18	235.6
T4-500m	12/8/23	952	0.8	Flood	0.13	4.1	0.05	0.7	0.39	5.4	0.0	0	0.32	9.8	4.9	69	0.13	34.99	26.3	8.10	6.65	0.15	189.8
T4-500m	2/22/24	1035	0.2	Low	-0.08	-2.4	0.15	2.1	0.19	2.7	-0.9	-26	0.03	0.9	5.1	72	0.13	35.10	25.1	8.13	6.82	0.16	204.6
T4-500m	6/19/24	1030	0.9	Flood	0.14	4.2	0.09	1.2	0.34	4.8	1.2	35	0.29	9.0	4.6	65	0.13	34.88	26.6	8.02	6.76	0.11	244.3
Geomear FY '24					#NUM!	#NUM!	0.10	1.4	#NUM!	#NUM!			0.2	4.7	4.9	69	0.14					0.15	

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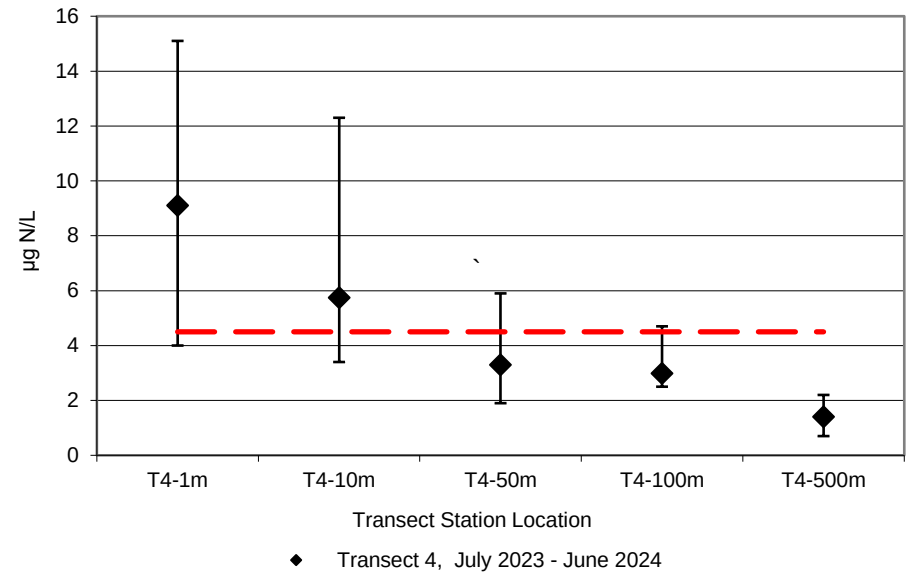
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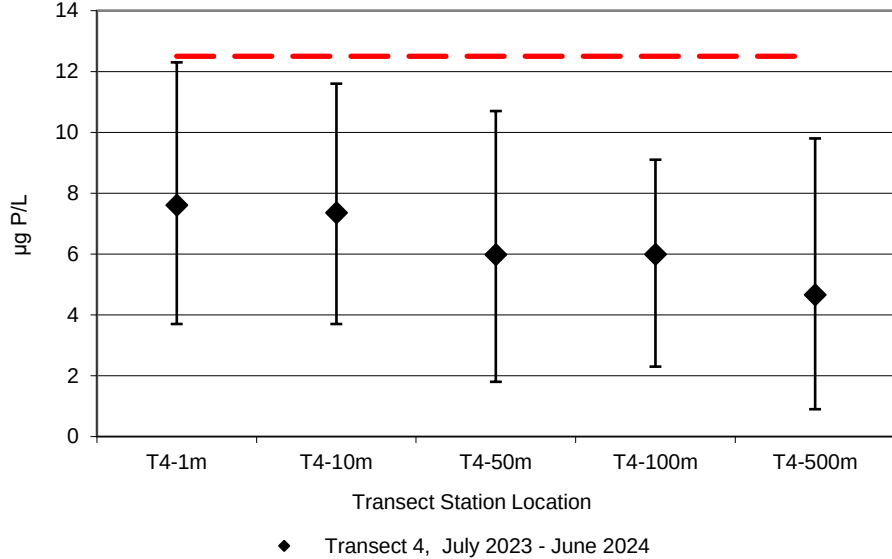
**Ortho-Phosphate
Geometric Mean**



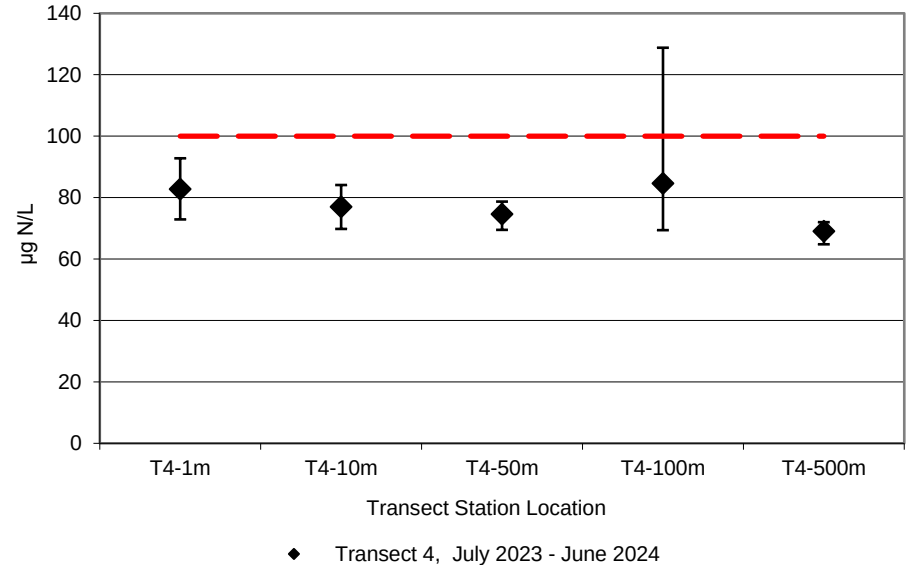
**Nitrate + Nitrite
Geometric Mean**



**Total Dissolved Phosphorous
Geometric Mean**



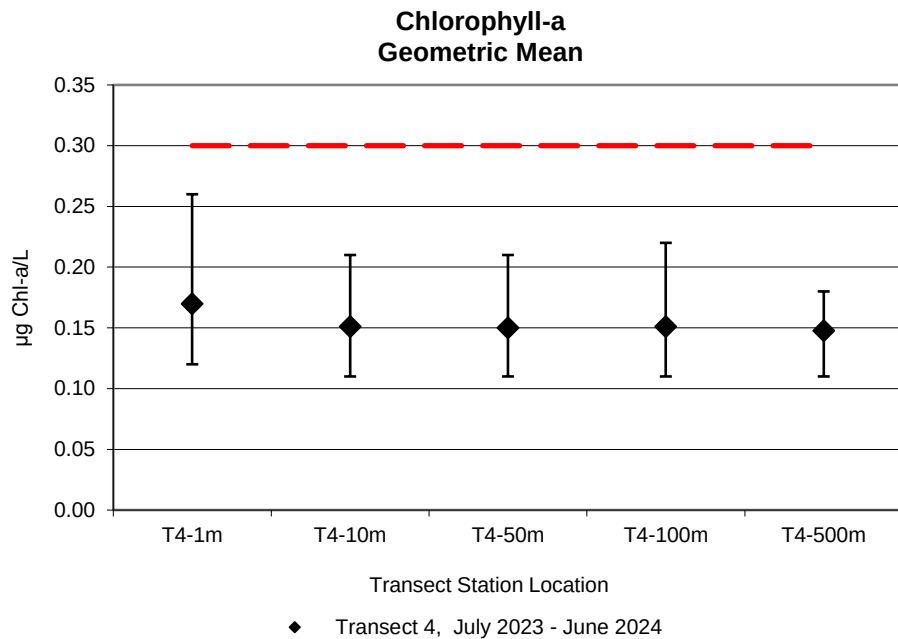
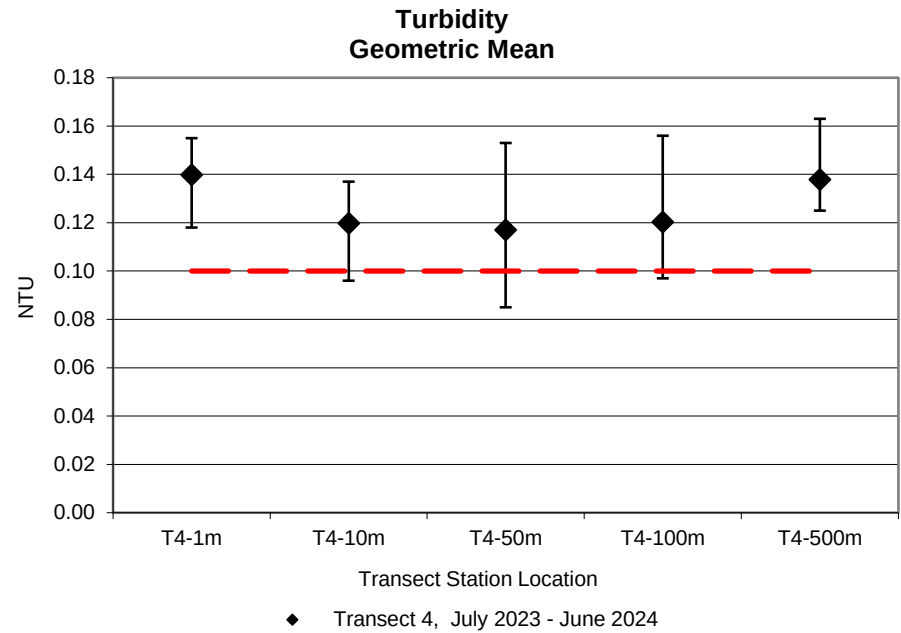
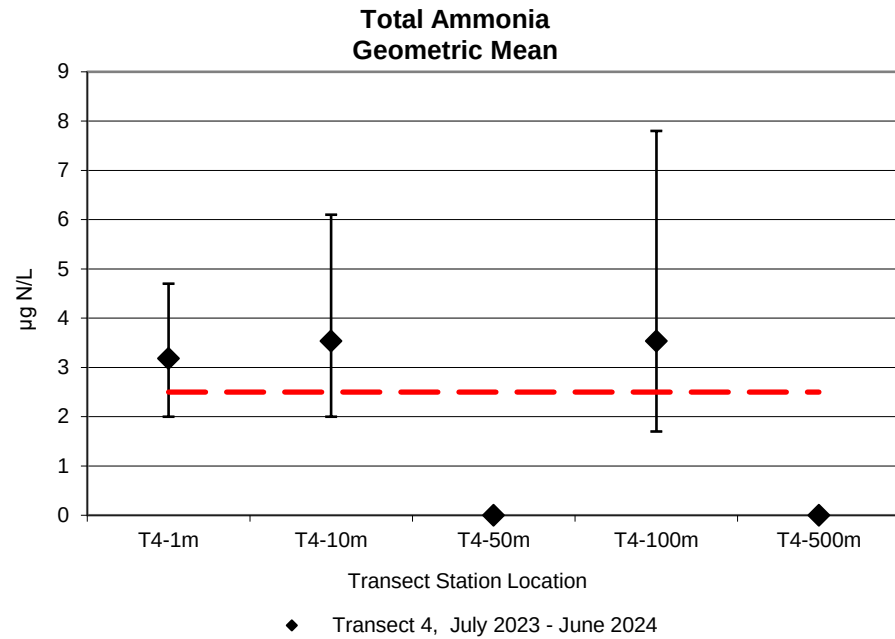
**Total Dissolved Nitrogen
Geometric Mean**



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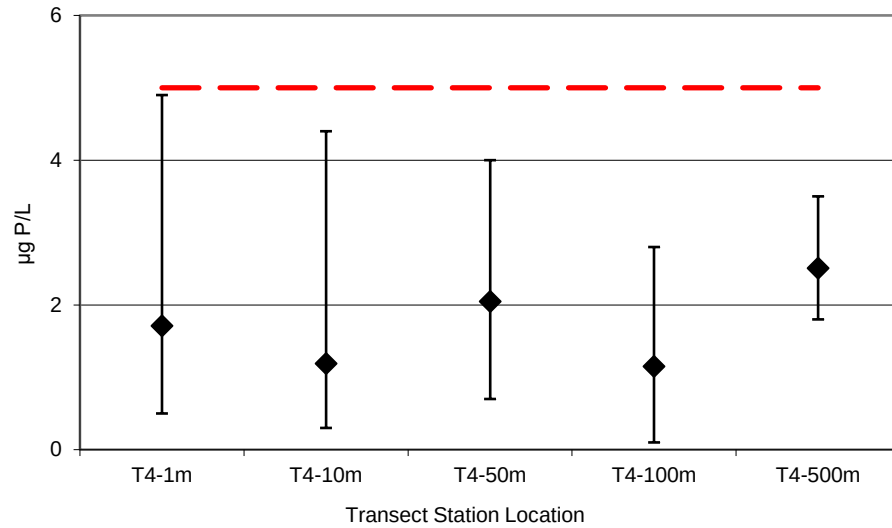
SITE ID	DATE	TIME	Tide		PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		Turbidity	Salinity	Temp.	pH	DO	Chl a
	M/D/Y	(2400)	(ft)	(cycle)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg N/L)	(μM)	(μg Si/L)	(μM)	(μg P/L)	(μM)	(μg N/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(μg/L)
DOH LIMIT					0.16	5	0.32	4.5	0.18	2.5			0.40	12.5	7.1	100	0.10					0.30
T4-1m	9/22/22	855	0.4	Flood	0.05	1.4	0.24	3.3	0.10	1.4	0.7	19	0.21	6.6	4.6	65	0.15	34.91	27.2	7.99	6.85	0.22
T4-1m	12/27/22	1055	0.4	Low	0.08	2.5	0.86	12.0	0.16	2.2	2.2	61	0.22	6.7	6.3	88	0.15	34.93	25.7	8.16	7.07	0.28
T4-1m	3/16/23	908	0.4	Low	0.16	4.9	0.84	11.7	0.19	2.7	3.9	111	0.27	8.3	6.0	84	0.12	34.58	24.7	8.05	7.13	0.29
T4-1m	6/1/23	905	0.0	Flood	0.02	0.5	0.23	3.2	0.20	2.8	0.8	24	0.20	6.1	4.9	69	0.09	34.75	25.7	8.00	6.88	0.21
Geomear FY '23					0.06	1.7	0.44	6.2	0.2	2.2			0.2	6.9	5.4	76	0.12					0.25
T4-10m	9/22/22	859	0.4	Flood	0.01	0.3	0.08	1.1	0.06	0.9	0.1	2	0.17	5.2	5.3	74	0.11	34.92	27.2	8.04	6.69	0.19
T4-10m	12/27/22	1059	0.4	Low	0.08	2.5	0.27	3.8	0.09	1.3	0.6	16	0.15	4.7	5.4	75	0.08	34.96	25.7	8.15	6.94	0.25
T4-10m	3/16/23	912	0.4	Low	0.14	4.4	0.56	7.9	0.18	2.5	3.0	85	0.23	7.2	5.4	76	0.13	34.61	24.7	8.06	7.04	0.29
T4-10m	6/1/23	910	0.0	Flood	0.02	0.6	0.22	3.1	0.10	1.4	0.7	19	0.20	6.2	5.1	71	0.07	34.75	25.7	8.04	6.84	0.20
Geomear FY '23					0.04	1.2	0.23	3.2	0.1	1.4			0.2	5.7	5.3	74	0.10					0.23
T4-50m	9/22/22	903	0.4	Flood	0.08	2.5	0.05	0.7	0.04	0.6	-0.2	-5	0.09	2.9	4.7	66	0.15	34.92	27.1	8.06	6.67	0.16
T4-50m	12/27/22	1103	0.4	Low	0.08	2.5	0.33	4.6	0.18	2.5	0.8	21	0.18	5.5	6.0	84	0.09	34.95	25.8	8.15	6.93	0.26
T4-50m	3/16/23	917	0.4	Low	0.13	4.0	0.29	4.1	0.10	1.4	2.3	66	0.22	6.8	5.2	72	0.11	34.67	24.8	8.06	6.90	0.27
T4-50m	6/1/23	915	0.0	Flood	0.02	0.7	0.09	1.2	0.12	1.7	0.1	2	0.20	6.2	4.6	64	0.11	34.75	25.7	8.06	6.85	0.13
Geomear FY '23					0.07	2.0	0.14	2.0	0.1	1.4			0.2	5.1	5.1	71	0.11					0.20
T4-100m	9/22/22	913	0.4	Flood	0.08	2.5	0.06	0.9	0.05	0.7	-0.1	-4	0.09	2.8	4.6	65	0.11	34.92	27.2	8.08	6.67	0.20
T4-100m	12/27/22	1108	0.4	Low	0.08	2.5	0.21	2.9	0.11	1.6	0.5	13	0.16	4.9	6.1	86	0.07	34.96	25.9	8.14	6.88	0.27
T4-100m	3/16/23	923	0.4	Low	0.09	2.8	0.14	2.0	0.19	2.6	1.8	49	0.22	6.9	5.1	71	0.10	34.68	24.8	8.06	6.92	0.26
T4-100m	6/1/23	920	0.0	Flood	0.00	0.1	0.09	1.3	0.03	0.4	0.1	3	0.21	6.6	4.8	67	0.13	34.76	25.7	8.06	6.69	0.14
Geomear FY '23					0.04	1.2	0.12	1.6	0.1	1.0			0.2	5.0	5.1	72	0.10					0.21
T4-500m	9/22/22	925	0.4	Flood	0.08	2.5	0.06	0.8	0.01	0.1	0.0	0	0.15	4.8	4.6	64	0.16	34.92	27.1	8.09	6.68	0.22
T4-500m	12/27/22	1113	0.4	Low	0.08	2.5	0.05	0.7	0.09	1.3	0.2	6	0.16	5	5.1	72	0.08	34.96	25.8	8.15	6.72	0.27
T4-500m	3/16/23	930	0.4	Low	0.11	3.5	0.17	2.4	0.12	1.7	2.8	79	0.22	6.9	4.7	66	0.12	34.62	25.0	8.06	6.91	0.32
T4-500m	6/1/23	929	0.0	Flood	0.06	1.8	0.56	7.8	0.17	2.4	2.9	82	0.25	7.6	4.9	69	0.13	34.64	25.9	8.06	6.63	0.20
Geomear FY '23					0.08	2.5	0.13	1.8	0.1	0.8			0.2	6.0	4.8	68	0.12					0.25

NELHA Water Quality Laboratory

Transect 4

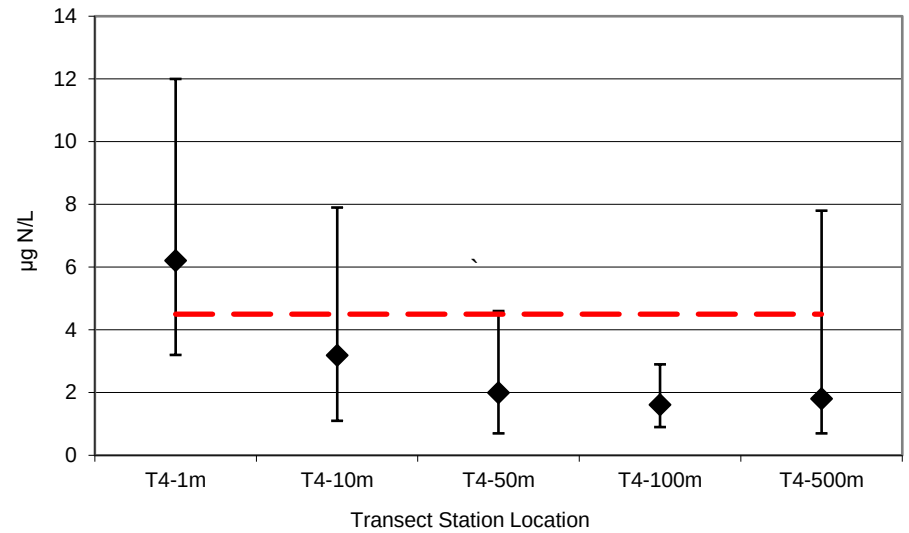
July 2022 - June 2023

Ortho-Phosphate Geometric Mean



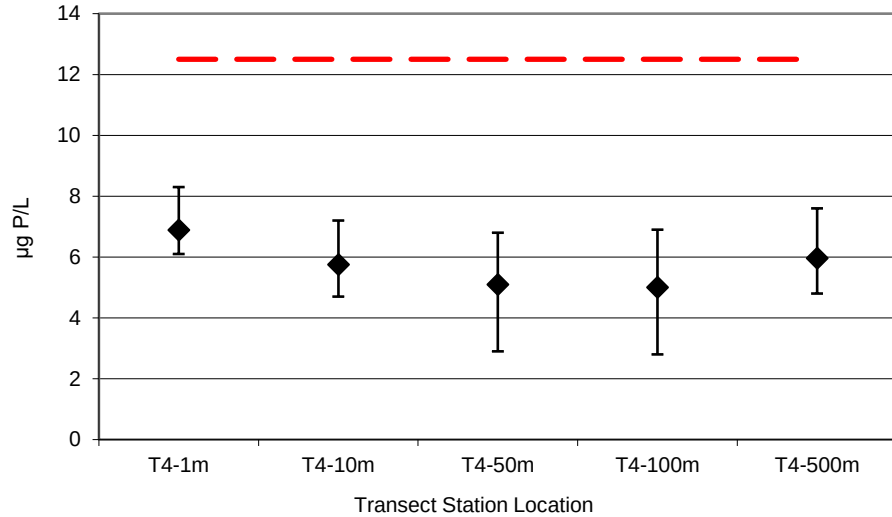
◆ Transect 4, July 2022 - June 2023

Nitrate + Nitrite Geometric Mean



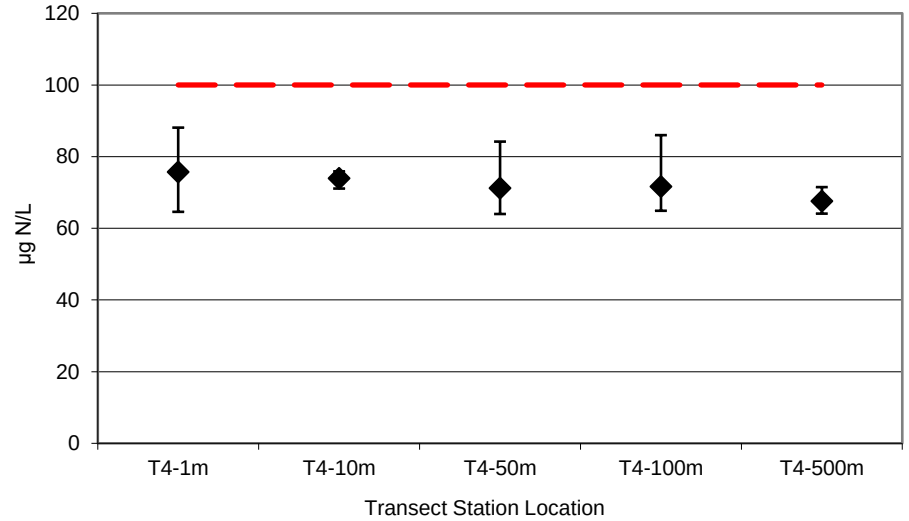
◆ Transect 4, July 2022 - June 2023

Total Dissolved Phosphorous Geometric Mean



◆ Transect 4, July 2022 - June 2023

Total Dissolved Nitrogen Geometric Mean



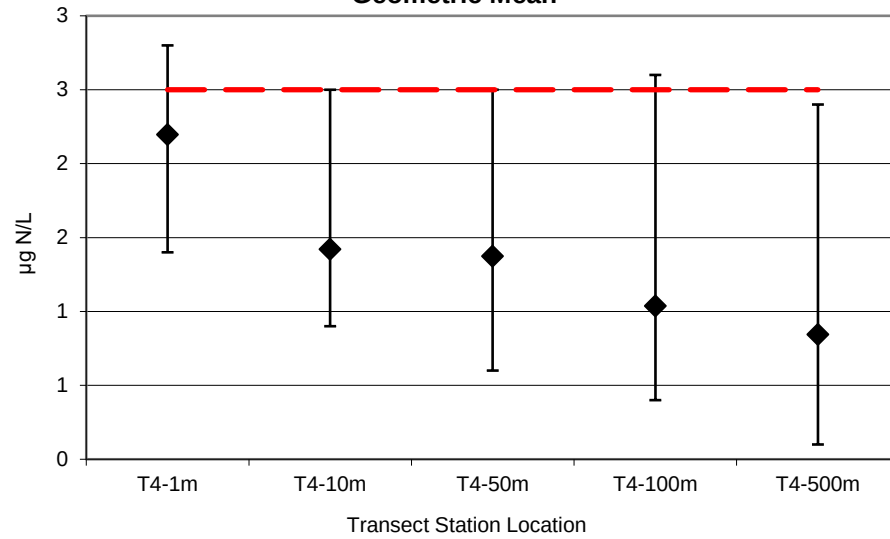
◆ Transect 4, July 2022 - June 2023

NELHA Water Quality Laboratory

Transect 4

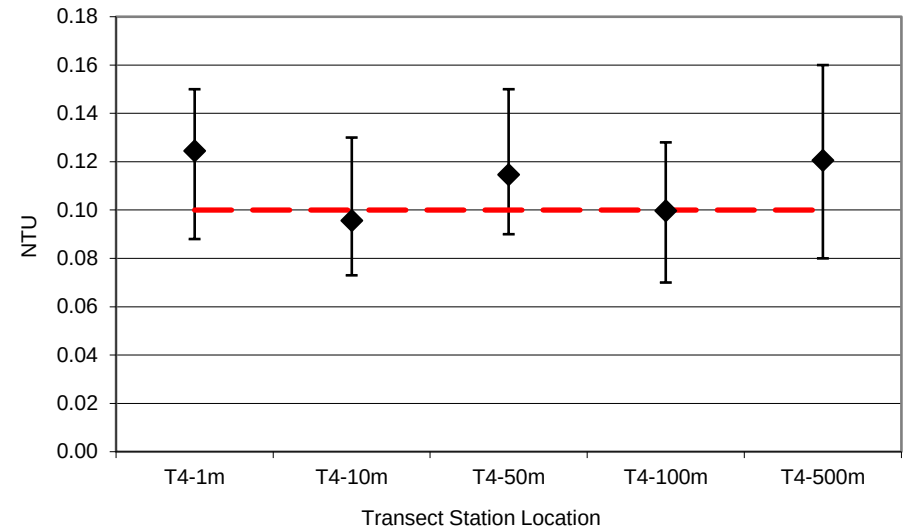
July 2022 - June 2023

Total Ammonia Geometric Mean



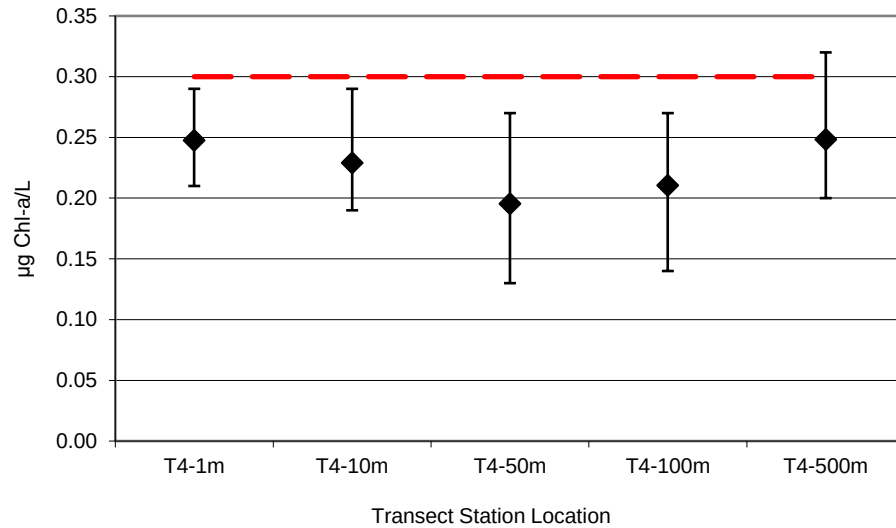
◆ Transect 4, July 2022 - June 2023

Turbidity Geometric Mean



◆ Transect 4, July 2022 - June 2023

Chlorophyll-a Geometric Mean



◆ Transect 4, July 2022 - June 2023

NELHA Water Quality Laboratory

Transect 4

July 2021 - June 2022

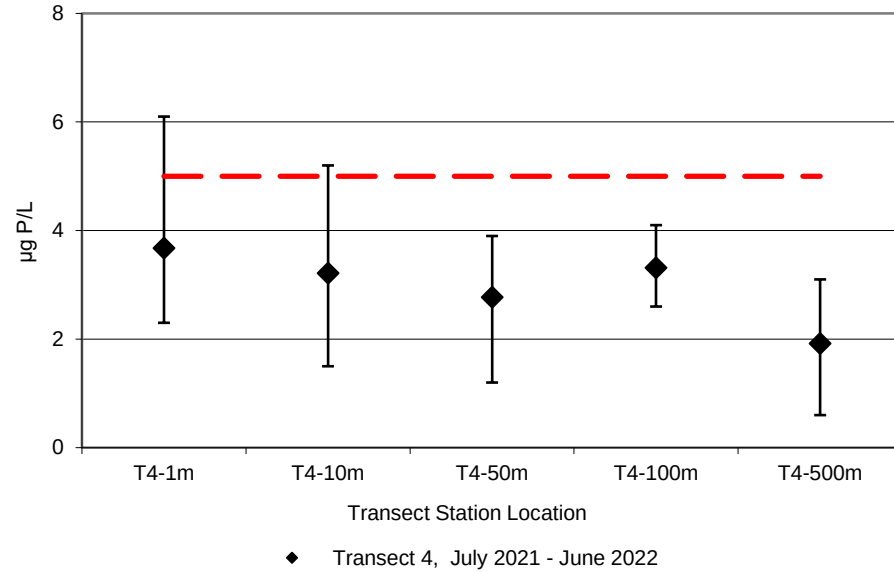
SITE ID	DATE	TIME	Tide		PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		Turbidity	Salinity	Temp.	pH	DO	Chl a
	M/D/Y	(2400)	(ft)	(cycle)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg N/L)	(μM)	(μg Si/L)	(μM)	(μg P/L)	(μM)	(μg N/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(μg/L)
DOH LIMIT					0.16	5	0.32	4.5	0.18	2.5			0.40	12.5	7.1	100	0.10					0.30
T4-1m	9/24/21	1003	0.6	Ebb	0.07	2.3	0.66	9.3	0.30	4.2	1.7	48	0.25	7.6	5.6	78	0.09	35.50	26.7	8.03	6.94	0.15
T4-1m	12/16/21	916	0.6	Low	0.20	6.1	1.08	15.1	0.28	3.9	3.3	93	0.28	8.7	6.1	85	0.08	34.98	25.8	8.08	6.81	0.19
T4-1m	3/16/22	956	0.2	Low	0.11	3.5	0.43	6.0	0.07	1.0	0.8	24	0.34	10.5	5.4	76	0.05	34.94	25.4	8.07	6.87	0.19
T4-1m	6/9/22	856	0.6	Flood	0.12	3.7	0.25	3.5	0.35	4.9	1.2	34	0.33	10.2	4.8	67	0.17	34.48	26.2	7.99	6.90	0.19
Geomear FY '22					0.12	3.7	0.53	7.4	0.2	3.0			0.3	9.2	5.4	76	0.09					0.18
T4-10m	9/24/21	1007	0.6	Ebb	0.05	1.5	0.40	5.6	0.27	3.8	1.0	27	0.22	6.9	5.2	72	0.10	35.52	26.7	8.02	6.90	0.15
T4-10m	12/16/21	920	0.6	Low	0.17	5.2	1.01	14.1	0.25	3.5	2.9	82	0.29	9	5.6	78	0.07	35.02	25.9	8.09	6.80	0.19
T4-10m	3/16/22	1002	0.2	Low	0.13	3.9	0.29	4.1	0.11	1.5	0.7	20	0.32	10.0	4.8	68	0.07	34.93	25.4	8.08	7.00	0.20
T4-10m	6/9/22	901	0.6	Flood	0.11	3.5	0.35	4.9	0.30	4.2	2.3	65	0.31	9.7	4.9	68	0.08	34.46	26.2	8.01	6.88	0.20
Geomear FY '22					0.10	3.2	0.45	6.3	0.2	3.0			0.3	8.8	5.1	71	0.08					0.18
T4-50m	9/24/21	1012	0.6	Ebb	0.04	1.2	0.18	2.5	0.15	2.1	0.2	5	0.21	6.6	5.0	70	0.05	35.55	26.7	8.01	6.61	0.17
T4-50m	12/16/21	924	0.6	Low	0.13	3.9	0.14	1.9	0.10	1.4	0.7	19	0.28	8.7	5.5	77	0.08	35.13	25.9	8.10	6.60	0.18
T4-50m	3/16/22	1007	0.2	Low	0.11	3.3	0.11	1.6	0.03	0.4	0.2	4	0.32	9.9	4.6	65	0.06	34.94	25.4	8.06	6.80	0.19
T4-50m	6/9/22	907	0.6	Flood	0.12	3.8	0.64	9.0	0.29	4.1	5.6	158	0.30	9.2	5.5	77	0.13	34.22	26.2	7.98	6.53	0.25
Geomear FY '22					0.09	2.8	0.21	2.9	0.1	1.5			0.3	8.5	5.2	72	0.07					0.20
T4-100m	9/24/21	1017	0.6	Ebb	0.08	2.6	0.05	0.7	0.23	3.2	-0.1	-4	0.19	5.9	4.9	68	0.07	35.56	26.8	8.02	6.63	0.12
T4-100m	12/16/21	929	0.6	Low	0.13	3.9	0.37	5.2	0.19	2.6	1.5	42	0.28	8.7	5.3	74	0.06	35.09	25.9	8.10	6.57	0.21
T4-100m	3/16/22	1013	0.2	Low	0.09	2.9	0.19	2.7	0.09	1.2	0.9	24	0.31	9.6	4.6	65	0.06	34.91	25.4	8.07	6.82	0.21
T4-100m	6/9/22	913	0.6	Flood	0.13	4.1	0.71	9.9	0.31	4.4	6.4	179	0.30	9.3	5.8	81	0.09	34.34	26.2	7.99	6.55	0.21
Geomear FY '22					0.11	3.3	0.22	3.1	0.2	2.6			0.3	8.2	5.1	72	0.07					0.18
T4-500m	9/24/21	1024	0.6	Ebb	0.02	0.6	0.02	0.3	0.16	2.2	-0.2	-7	0.17	5.2	4.6	65	0.06	35.55	26.9	8.02	6.65	0.14
T4-500m	12/16/21	940	0.6	Low	0.10	3.1	0.01	0.1	0.09	1.3	0.7	18	0.26	8.2	4.6	64	0.09	35.12	26.0	8.11	6.71	0.27
T4-500m	3/16/22	1020	0.2	Low	0.09	2.8	0.01	0.1	0.04	0.5	0.1	3	0.31	9.7	4.3	61	0.03	34.92	25.5	8.07	6.84	0.22
T4-500m	6/9/22	920	0.6	Flood	0.08	2.6	0.12	1.7	0.54	7.5	0.0	-1	0.28	8.8	4.1	58	0.09	34.49	26.3	8.02	6.74	0.10
Geomear FY '22					0.06	1.9	0.02	0.3	0.1	1.8			0.3	7.8	4.4	62	0.06					0.17

NELHA Water Quality Laboratory

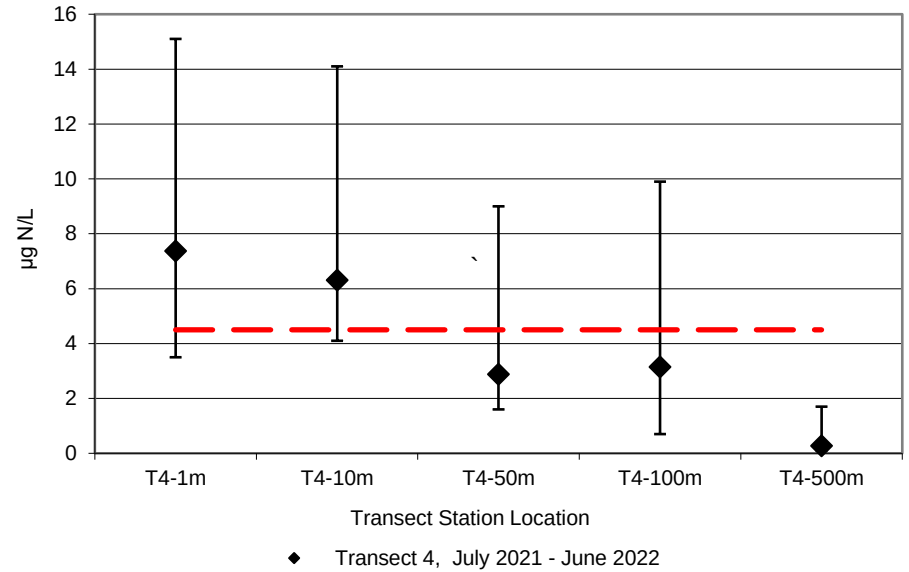
Transect 4

July 2021 - June 2022

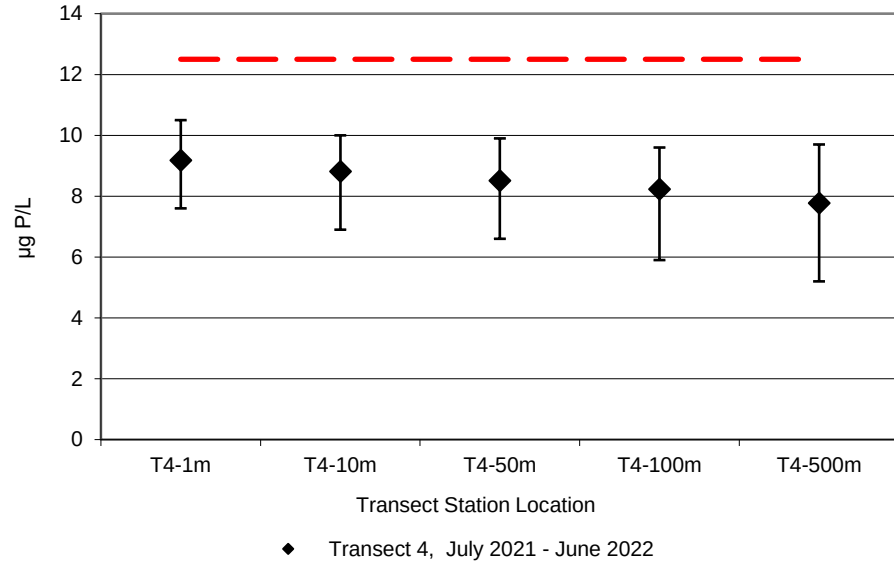
Ortho-Phosphate Geometric Mean



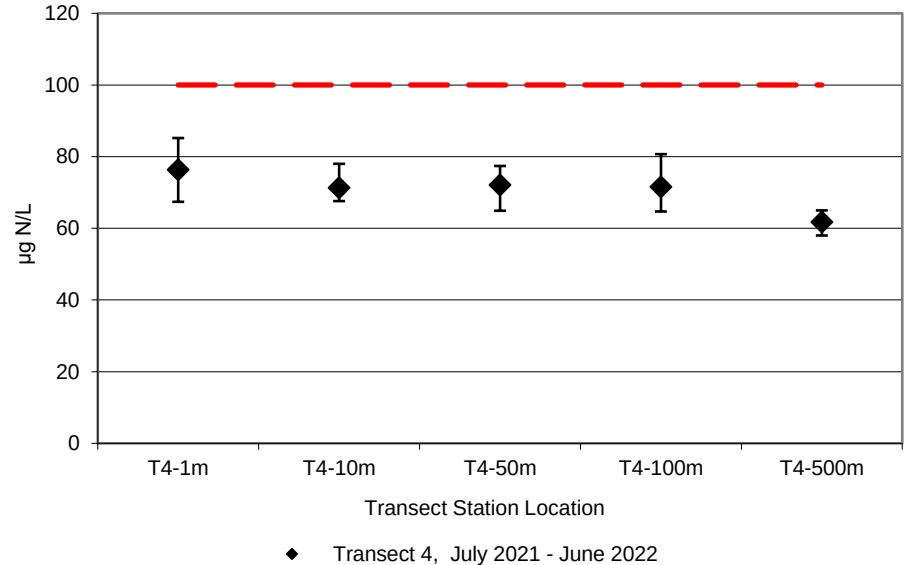
Nitrate + Nitrite Geometric Mean



Total Dissolved Phosphorous Geometric Mean



Total Dissolved Nitrogen Geometric Mean

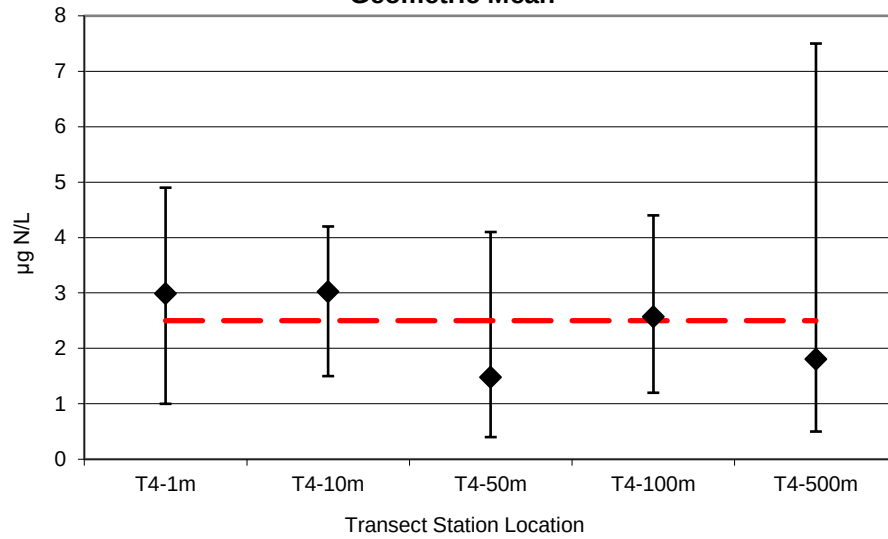


NELHA Water Quality Laboratory

Transect 4

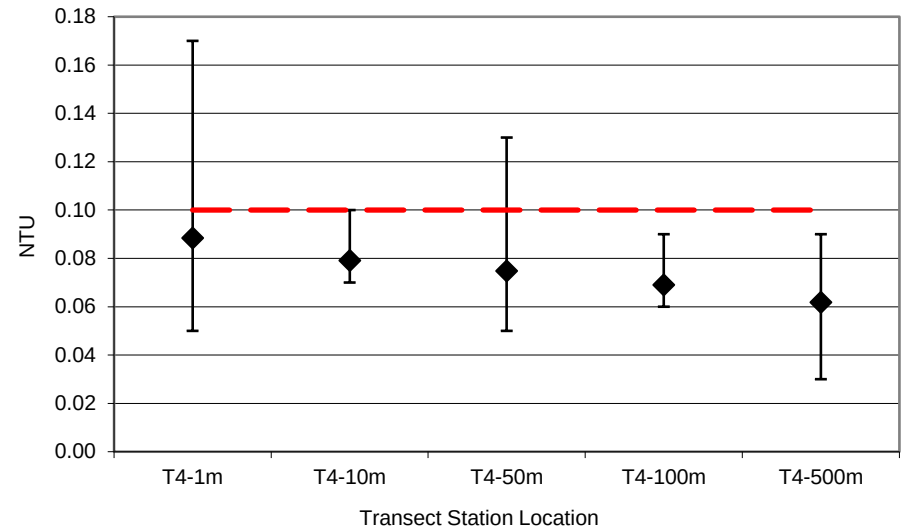
July 2021 - June 2022

**Total Ammonia
Geometric Mean**



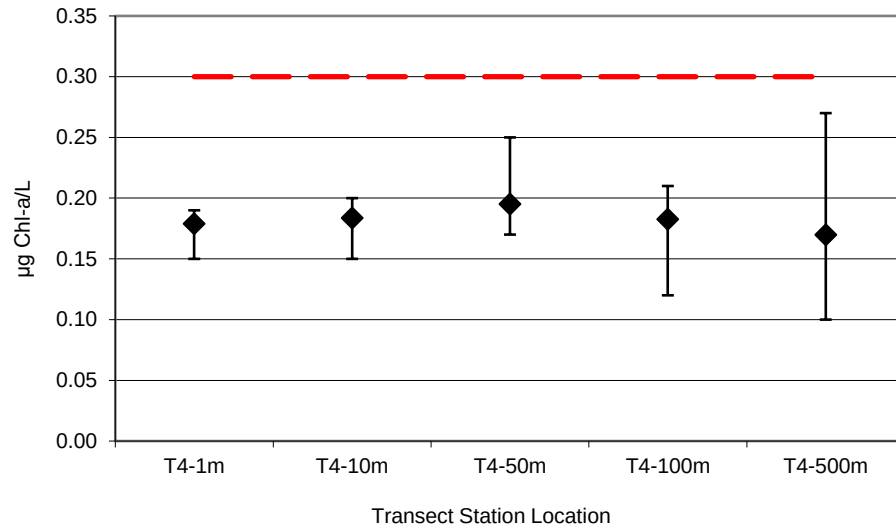
◆ Transect 4, July 2021 - June 2022

**Turbidity
Geometric Mean**



◆ Transect 4, July 2021 - June 2022

**Chlorophyll-a
Geometric Mean**



◆ Transect 4, July 2021 - June 2022

NELHA Water Quality Laboratory

Transect 4

July 2020 - June 2021

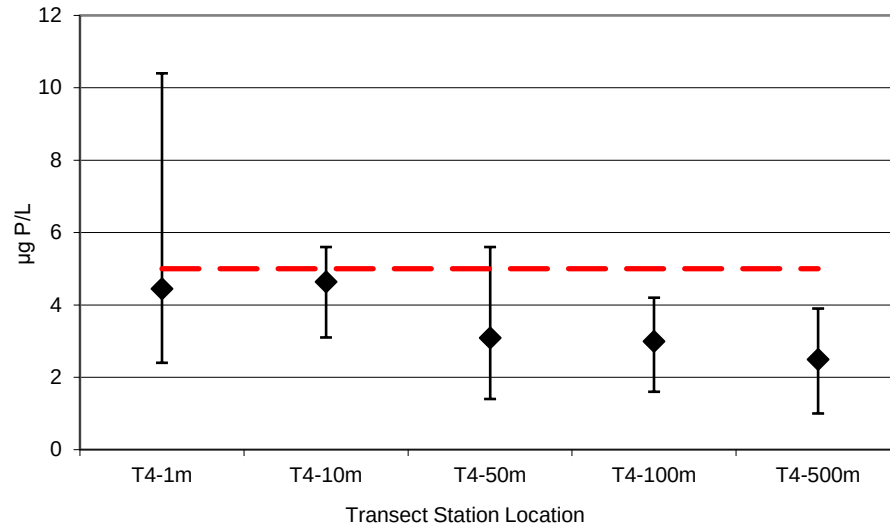
SITE ID	DATE	TIME	Tide		PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		Turbidity	Salinity	Temp.	pH	DO	Chl a
	M/D/Y	(2400)	(ft)	(cycle)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg N/L)	(μM)	(μg Si/L)	(μM)	(μg P/L)	(μM)	(μg N/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(μg/L)
DOH LIMIT					0.16	5	0.32	4.5	0.18	2.5			0.40	12.5	7.1	100	0.10					0.30
T4-1m	9/23/20	916	1.9	High	0.13	3.9	0.21	2.9	0.69	9.6	0.9	25	0.41	12.6	6.4	89	0.04	36.04	26.2	8.15	6.22	0.21
T4-1m	12/16/20	919	1.3	Ebb	0.13	4.0	0.36	5.1	0.32	4.5	1.1	30	0.30	9.3	6.5	90	0.09	35.61	26.5	8.08	6.75	0.17
T4-1m	3/10/21	932	0.2	Low	0.34	10.4	1.74	24.4	0.35	4.9	4.2	117	0.31	9.7	5.8	82	0.08	35.67	24.7	8.06	6.97	0.19
T4-1m	5/26/21	935	-0.4	Low	0.08	2.4	0.68	9.5	0.19	2.6	2.3	66	0.22	6.9	5.5	76	0.14	35.57	25.4	8.01	7.11	0.19
Geomear FY '21					0.14	4.4	0.55	7.7	0.35	4.8			0.30	9.4	6.0	84	0.08					0.19
T4-10m	9/23/20	921	1.9	High	0.16	5.0	0.21	3.0	0.84	11.7	1.1	32	0.40	12.4	7.1	99	0.02	36.05	26.2	8.12	5.94	0.21
T4-10m	12/16/20	924	1.3	Ebb	0.17	5.3	0.18	2.5	0.29	4.1	0.5	15	0.30	9.2	6.5	91	0.06	35.62	26.5	8.09	6.74	0.15
T4-10m	3/10/21	938	0.2	Low	0.18	5.6	0.55	7.7	0.08	1.1	2.2	62	0.33	10.2	5.0	70	0.05	35.67	24.7	8.07	6.96	0.19
T4-10m	5/26/21	931	-0.4	Low	0.10	3.1	0.66	9.2	0.22	3.1	2.4	67	0.16	5.1	5.5	77	0.09	35.58	25.4	8.00	7.13	0.16
Geomear FY '21					0.15	4.6	0.34	4.8	0.26	3.6			0.28	8.8	6.0	83	0.05					0.18
T4-50m	9/23/20	927	1.9	High	0.11	3.3	0.13	1.8	0.49	6.9	0.8	22	0.40	12.4	6.6	92	0.03	36.06	26.2	8.14	5.80	0.14
T4-50m	12/16/20	930	1.3	Ebb	0.11	3.5	0.11	1.5	0.21	3.0	0.0	0	0.27	8.3	6.0	85	0.05	35.61	26.5	8.10	6.61	0.17
T4-50m	3/10/21	944	0.2	Low	0.18	5.6	0.37	5.2	0.16	2.2	0.3	7	0.31	9.5	4.2	60	0.06	35.75	24.7	8.07	6.81	0.15
T4-50m	5/26/21	927	-0.4	Low	0.05	1.4	0.38	5.3	0.19	2.6	1.7	47	0.16	5.0	5.2	73	0.07	35.59	25.4	7.98	6.84	0.14
Geomear FY '21					0.10	3.1	0.21	2.9	0.24	3.3			0.27	8.4	5.4	76	0.05					0.15
T4-100m	9/23/20	932	1.9	High	0.11	3.3	0.04	0.5	0.29	4.1	0.9	25	0.33	10.2	6.8	95	0.03	36.06	26.2	8.15	5.63	0.26
T4-100m	12/16/20	936	1.3	Ebb	0.12	3.6	0.04	0.6	0.25	3.5	0.0	1	0.27	8.4	6.4	90	0.07	35.60	26.5	8.10	6.63	0.15
T4-100m	3/10/21	949	0.2	Low	0.14	4.2	0.15	2.1	0.25	3.5	0.6	18	0.29	9.1	4.3	60	0.05	35.75	24.7	8.08	6.80	0.17
T4-100m	5/26/21	922	-0.4	Low	0.05	1.6	0.31	4.3	0.05	0.7	1.2	34	0.15	4.8	6.6	92	0.06	35.61	25.5	7.99	6.81	0.16
Geomear FY '21					0.10	3.0	0.09	1.3	0.17	2.4			0.25	7.8	5.9	83	0.05					0.18
T4-500m	9/23/20	941	1.9	High	0.08	2.6	0.06	0.8	0.29	4.1	0.7	20	0.38	11.9	6.4	90	0.02	36.08	26.3	8.16	5.57	0.18
T4-500m	12/16/20	943	1.3	Ebb	0.13	3.9	0.16	2.3	0.25	3.5	0.2	6	0.29	8.9	5.5	77	0.03	35.57	26.5	8.11	6.64	0.11
T4-500m	3/10/21	957	0.2	Low	0.12	3.8	0.19	2.6	0.15	2.1	0.1	2	0.32	9.8	3.8	53	0.06	35.75	24.8	8.09	6.81	0.17
T4-500m	5/26/21	915	-0.4	Low	0.03	1.0	0.19	2.7	0.16	2.2	2.2	61	0.13	4.1	4.8	68	0.08	35.66	25.5	7.98	6.82	0.13
Geomear FY '21					0.08	2.5	0.13	1.9	0.20	2.9			0.26	8.1	5.0	70	0.04					0.14

NELHA Water Quality Laboratory

Transect 4

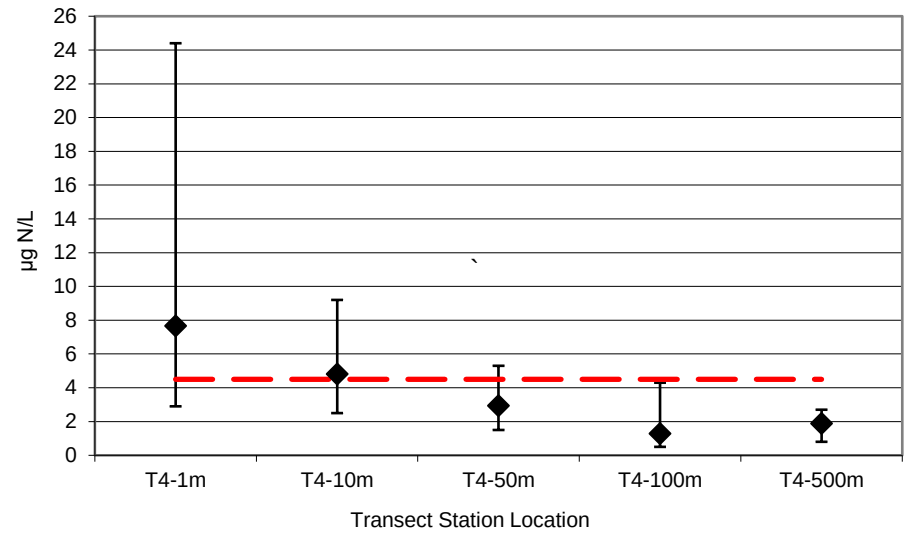
July 2020 - June 2021

Ortho-Phosphate Geometric Mean



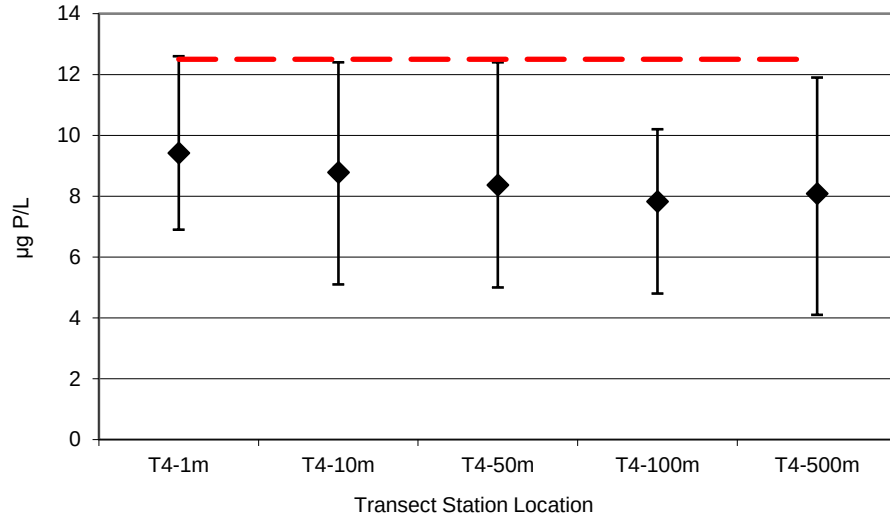
◆ Transect 4, July 2020 - June 2021

Nitrate + Nitrite Geometric Mean



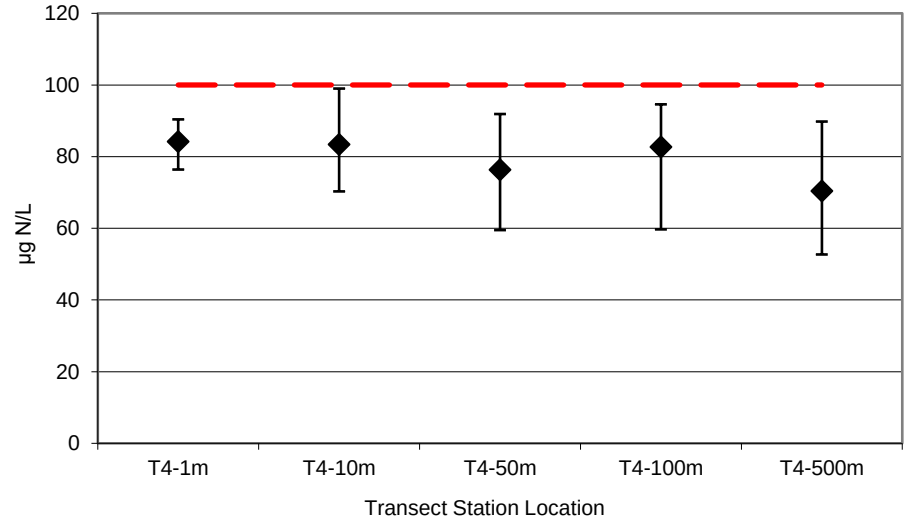
◆ Transect 4, July 2020 - June 2021

Total Dissolved Phosphorous Geometric Mean



◆ Transect 4, July 2020 - June 2021

Total Dissolved Nitrogen Geometric Mean



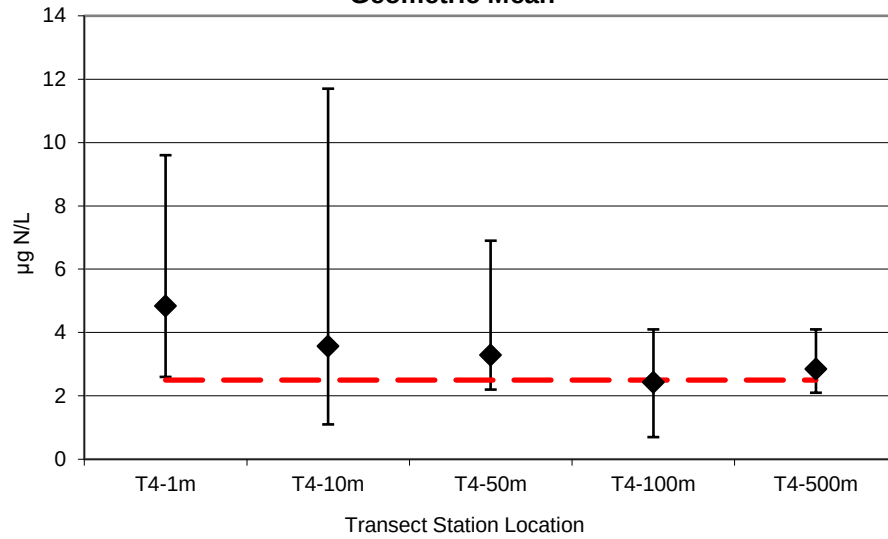
◆ Transect 4, July 2020 - June 2021

NELHA Water Quality Laboratory

Transect 4

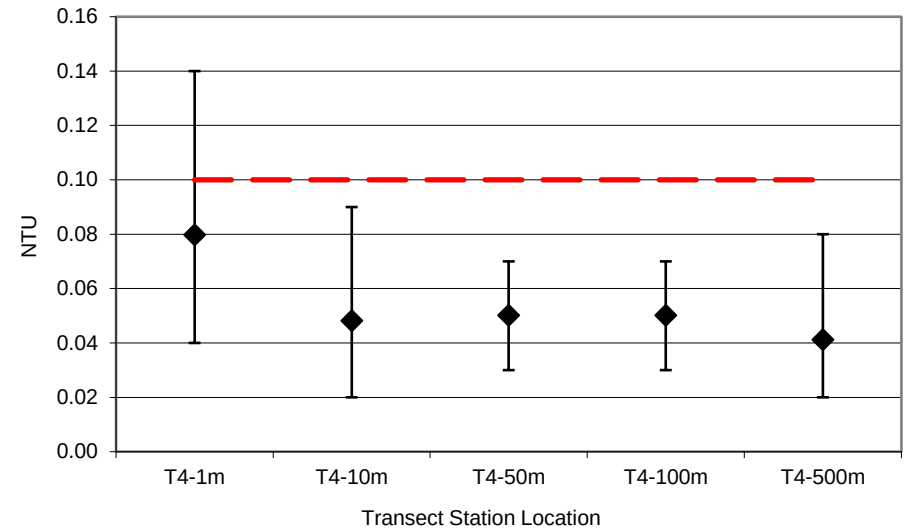
July 2020 - June 2021

Total Ammonia Geometric Mean



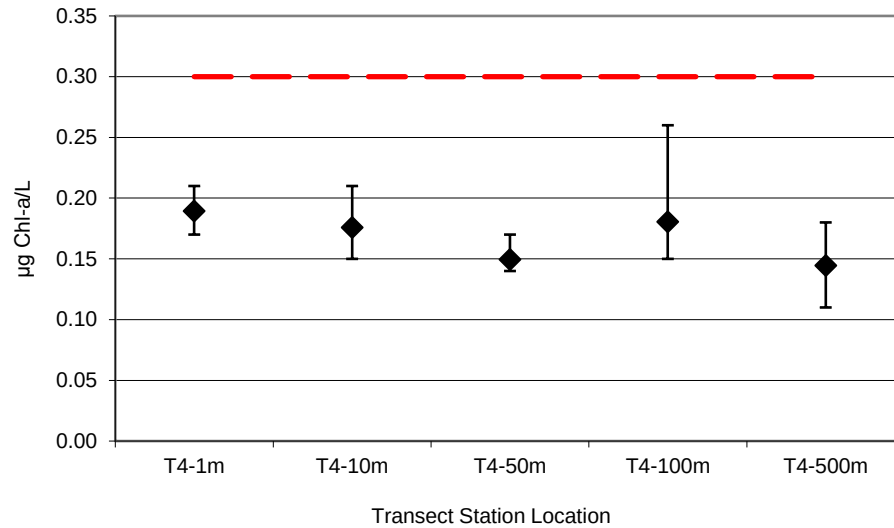
◆ Transect 4, July 2020 - June 2021

Turbidity Geometric Mean



◆ Transect 4, July 2020 - June 2021

Chlorophyll-a Geometric Mean



◆ Transect 4, July 2020 - June 2021

NELHA Water Quality Laboratory

Transect 4, Station 1

8/3/1993 - 7/10/2025

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		
O4-1S-8r	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-8r	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-8r	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-8r	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
Geomear FY '94			4.2		3.6		3.3				9.6		89				0.09					0.07			
O4-1S-8r	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-8r	#####	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-8r	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-8r	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
Geomear FY '95			4.4		3.6		3.9				9.9		80				0.12					0.09			
O4-1S-8r	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-8r	#####	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-8r	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-8r	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
Geomear FY '96			3.9		3.4		5.3				9.3		89				0.09					0.09			
O4-1S-8r	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-8r	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-8r	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-8r	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
Geomear FY '97			3.0		2.9		3.8				10.8		70				0.08					0.06			
O4-1S-8r	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-8r	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-8r	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-8r	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
Geomear FY '98			3.2		3.1		3.2				10.0		69				0.09					0.07			
O4-1S-8r	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-8r	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-8r	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-8r	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
Geomear 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 - 7/10/2025

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-8r 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-8r #####	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-8r 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-8r 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
Geomear FY '00			4.0		2.3		3.3				10.6		72					0.10					0.14		
O4-1S-8r 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-8r #####	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-8r 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-8r 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
Geomear FY '01			3.7		2.9		2.7				11.5		76					0.08					0.11		
O4-1S-8r 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-8r #####	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-8r 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-8r 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
Geomear FY '02			4.3		2.1		1.6				11.8		78					0.10					0.14		
O4-1S-8r 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-8r 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-8r 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-8r 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
Geomear FY '03			3.1		2.0		1.4				10.7		75					0.08					0.08		
O4-1S-8r 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-8r #####	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-8r 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-8r 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
Geomear FY '04			3.7		1.7		2.3				11.7		78					0.09					0.06		
O4-1S-8r 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-8r #####	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-8r 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-8r 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
Geomear 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 - 7/10/2025

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-8rr	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-8rr	#####	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-8rr	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-8rr	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
Geomear FY '06			3.0		2.3		4.2				11.1		64				0.13						0.08		
O4-1S-8rr	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-8rr	#####	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-8rr	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-8rr	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
Geomear 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	#####	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		
Geomear 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		
Geomear 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	#####	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		
Geomear 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		
Geomear 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 - 7/10/2025

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		
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	#####	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		
Geomear 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	#####	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		
Geomear 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	#####	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		
Geomear 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		
Geomear 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	#####	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		
Geomear 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	#####	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		
Geomear 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 - 7/10/2025

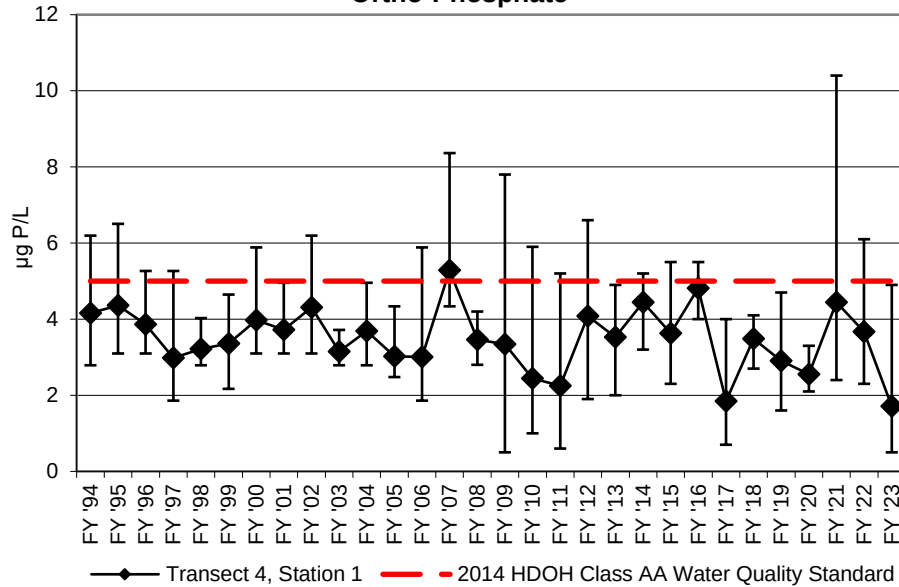
SITE ID	DATE	TIME	PO ₄ ³⁻		NO ₃ ⁻ & NO ₂ ⁻		NH ₄ ⁺ & NH ₃		Si		TDP		TDN		TP		TOC	Turbidity	Salinity	Temp.	pH	DO	Chl a	Fecal Coli.	Entero.
	M/D/Y	(2400)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg N/L)	(μM)	(μg Si/L)	(μM)	(μg P/L)	(μM)	(μg N/L)	(μM)	(μg P/L)	(mgC/L)	(NTU)	(PSU)	(°C)	(unit)	(ppm)	(μg/L)	Bact/100 ml	Bact/100 ml
DOH LIMIT			5		4.5		2.5				12.5		100					0.10					0.30		
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	#####	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		
Geomear 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	#####	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		
Geomear 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	#####	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		
Geomear FY '20			2.6		2.1		2.8				10.6		30					0.11					0.16		
T4-1m	9/23/20	916	0.13	3.9	0.21	2.9	0.69	9.6	0.9	25	0.41	12.6	6.4	89				0.04	36.04	26.2	8.15	6.22	0.21		
T4-1m	#####	919	0.13	4.0	0.36	5.1	0.32	4.5	1.1	30	0.30	9.3	6.5	90				0.09	35.61	26.5	8.08	6.75	0.17		
T4-1m	3/10/21	932	0.34	10.4	1.74	24.4	0.35	4.9	4.2	117	0.31	9.7	5.8	82				0.08	35.67	24.7	8.06	6.97	0.19		
T4-1m	5/26/21	935	0.08	2.4	0.68	9.5	0.19	2.6	2.3	66	0.22	6.9	5.5	76				0.14	35.57	25.4	8.01	7.11	0.19		
Geomear FY '21			4.4		7.7		4.8				9.4		84					0.08					0.19		
T4-1m	9/24/21	1003	0.07	2.3	0.66	9.3	0.30	4.2	1.7	48	0.25	7.6	5.6	78				0.09	35.50	26.7	8.03	6.94	0.15		
T4-1m	#####	916	0.20	6.1	1.08	15.1	0.28	3.9	3.3	93	0.28	8.7	6.1	85				0.08	34.98	25.8	8.08	6.81	0.19		
T4-1m	3/16/22	956	0.11	3.5	0.43	6.0	0.07	1.0	0.8	24	0.34	10.5	5.4	76				0.05	34.94	25.4	8.07	6.87	0.19		
T4-1m	6/9/22	856	0.12	3.7	0.25	3.5	0.35	4.9	1.2	34	0.33	10.2	4.8	67				0.17	34.48	26.2	7.99	6.90	0.19		
Geomear FY '22			3.7		7.4		3.0				9.2		76					0.09					0.18		
T4-1m	9/22/22	855	0.05	1.4	0.24	3.3	0.10	1.4	0.7	19	0.21	6.6	4.6	65				0.15	34.91	27.2	7.99	6.85	0.22		
T4-1m	#####	1055	0.08	2.5	0.86	12.0	0.16	2.2	2.2	61	0.22	6.7	6.3	88				0.15	34.93	25.7	8.16	7.07	0.28		
T4-1m	3/16/23	908	0.16	4.9	0.84	11.7	0.19	2.7	3.9	111	0.27	8.3	6.0	84				0.12	34.58	24.7	8.05	7.13	0.29		
T4-1m	6/1/23	905	0.02	0.5	0.23	3.2	0.20	2.8	0.8	24	0.20	6.1	4.9	69				0.09	34.75	25.7	8.00	6.88	0.21		
Geomear FY '23			1.7		6.2		2.2				6.9		76					0.12					0.25		

NELHA Water Quality Laboratory

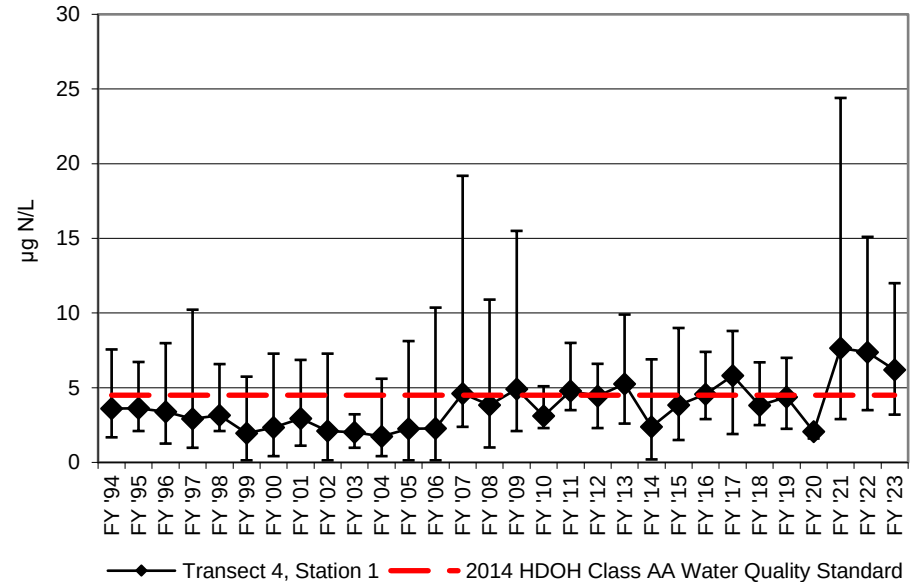
Transect 4, Station 1

8/3/1993 - 7/10/2025

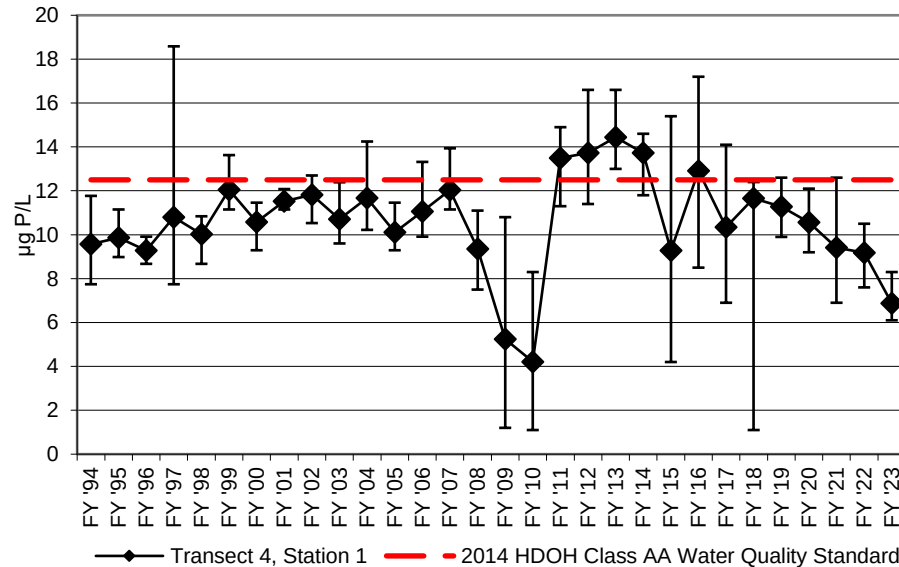
**Yearly Geometric Mean
Ortho-Phosphate**



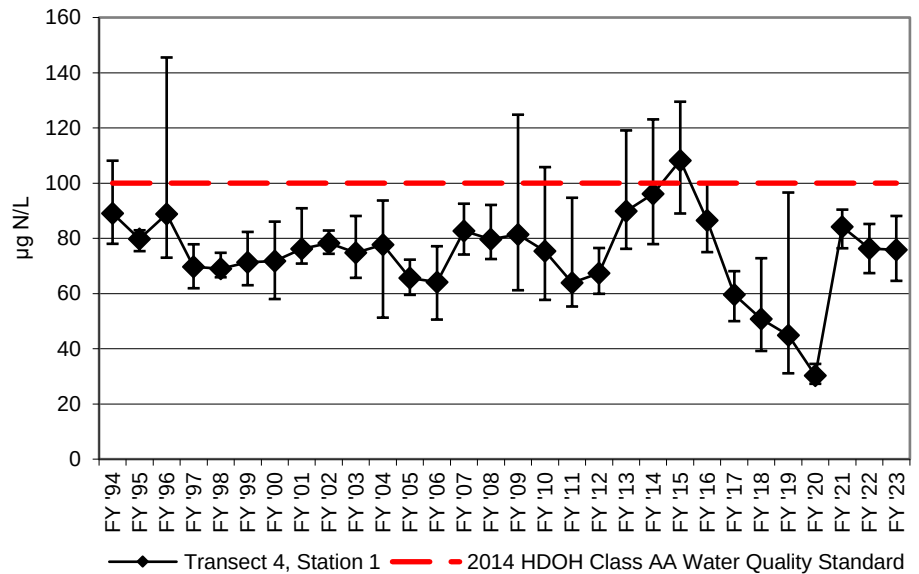
**Yearly Geometric Mean
Nitrate + Nitrite**



**Yearly Geometric Mean
Total Dissolved Phosphorous**



**Yearly Geometric Mean
Total Dissolved Nitrogen**

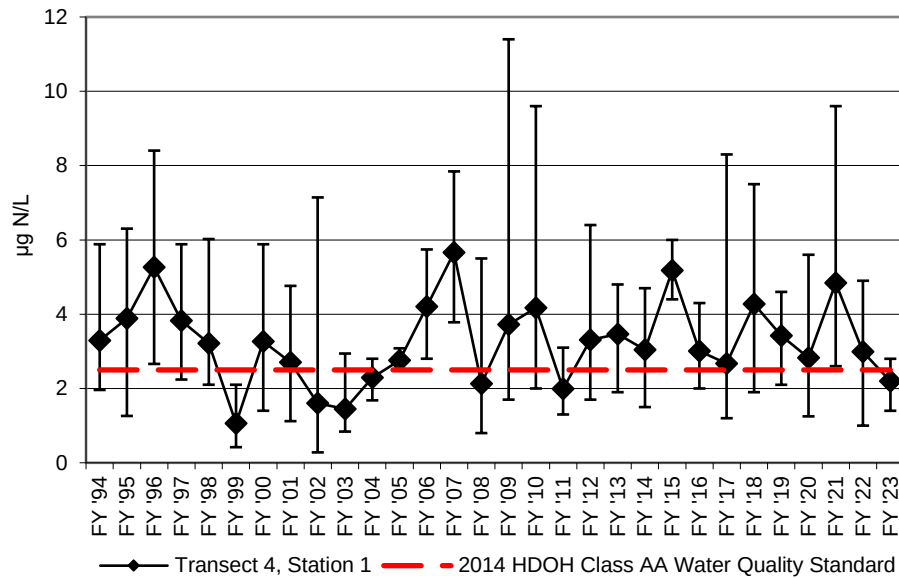


NELHA Water Quality Laboratory

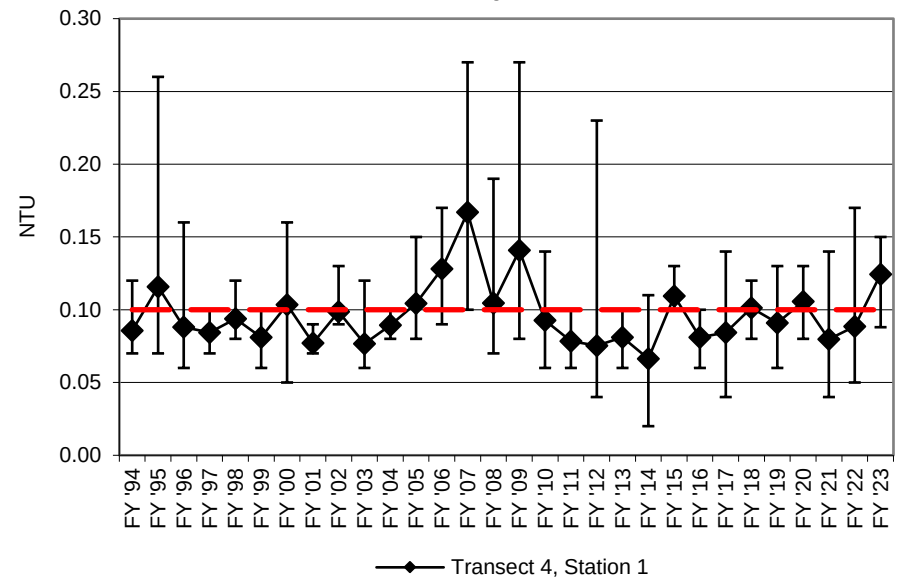
Transect 4, Station 1

8/3/1993 - 7/10/2025

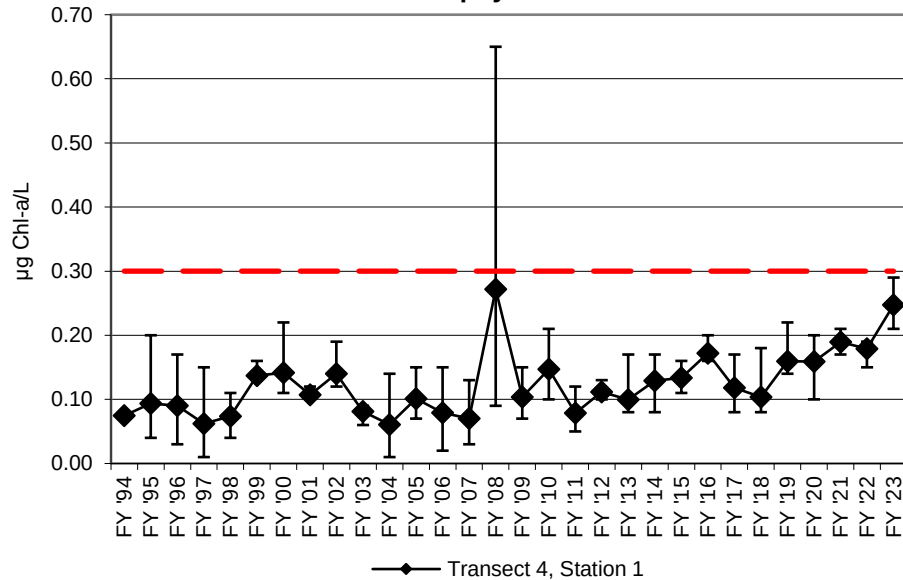
Yearly Geometric Mean Total Ammonia



Yearly Geometric Mean Turbidity



Yearly Geometric Mean Chlorophyll-a



NELHA Water Quality Laboratory

Transect 4, Station 2

8/3/1993 - 7/10/2025

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-23n	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-23n	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-23n	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-23n	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-23n	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-23n	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-23n	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-23n	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								0.08						
O4-2S-23n	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-23n	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-23n	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-23n	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-23n	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-23n	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-23n	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-23n	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								0.08						
O4-2S-23n	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-23n	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-23n	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-23n	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-23n	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-23n	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-23n	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-23n	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								0.08						

NELHA Water Quality Laboratory

Transect 4, Station 2

8/3/1993 - 7/10/2025

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-23n	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-23n	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-23n	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-23n	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-23n	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-23n	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-23n	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-23n	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-23n	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-23n	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-23n	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-23n	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-23n	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-23n	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-23n	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-23n	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-23n	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-23n	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-23n	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-23n	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-23n	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-23n	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-23n	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-23n	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 - 7/10/2025

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-23rr	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-23rr	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-23rr	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-23rr	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-23rr	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-23rr	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-23rr	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-23rr	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 - 7/10/2025

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 - 7/10/2025

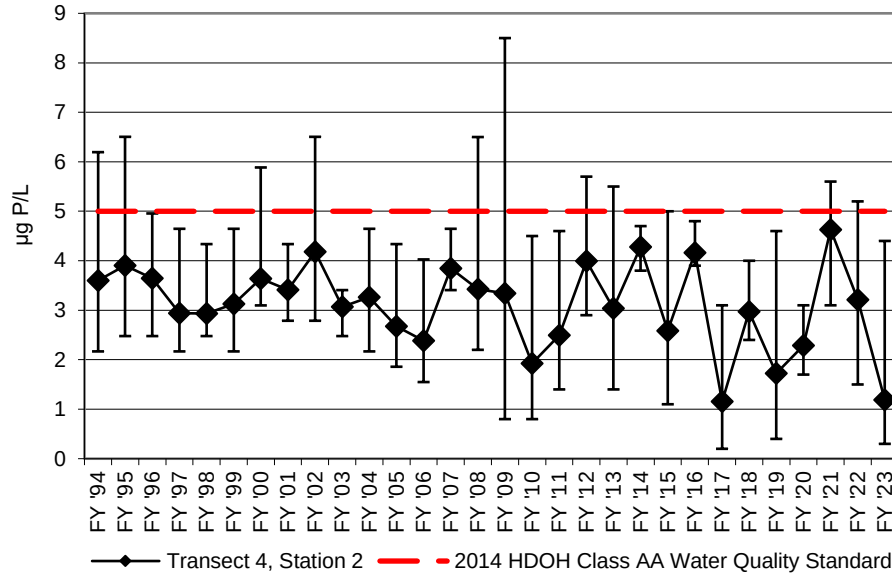
SITE ID	DATE M/D/Y	TIME (2400)	PO ₄ ³⁻ (μM) (μg P/L)		NO ₃ ⁻ & NO ₂ ⁻ (μM) (μg N/L)		NH ₄ ⁺ & NH ₃ (μM) (μg N/L)		Si (μM) (μg Si/L)		TDP (μM) (μg P/L)		TDN (μM) (μg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (μg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
T4-10m	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
T4-10m	9/23/20	921	0.16	5.0	0.21	3.0	0.84	11.7	1.1	32	0.40	12.4	7.1	99	0.02	36.05	26.2	8.12	5.94	0.21
T4-10m	12/16/20	924	0.17	5.3	0.18	2.5	0.29	4.1	0.5	15	0.30	9.2	6.5	91	0.06	35.62	26.5	8.09	6.74	0.15
T4-10m	3/10/21	938	0.18	5.6	0.55	7.7	0.08	1.1	2.2	62	0.33	10.2	5.0	70	0.05	35.67	24.7	8.07	6.96	0.19
T4-10m	5/26/21	931	0.10	3.1	0.66	9.2	0.22	3.1	2.4	67	0.16	5.1	5.5	77	0.09	35.58	25.4	8.00	7.13	0.16
Geomean FY '21			4.6		4.8		3.6				8.8		83		0.05					0.18
T4-10m	9/24/21	1007	0.05	1.5	0.40	5.6	0.27	3.8	1.0	27	0.22	6.9	5.2	72	0.10	35.52	26.7	8.02	6.90	0.15
T4-10m	12/16/21	920	0.17	5.2	1.01	14.1	0.25	3.5	2.9	82	0.29	9.0	5.6	78	0.07	35.02	25.9	8.09	6.80	0.19
T4-10m	3/16/22	1002	0.13	3.9	0.29	4.1	0.11	1.5	0.7	20	0.32	10.0	4.8	68	0.07	34.93	25.4	8.08	7.00	0.20
T4-10m	6/9/22	901	0.11	3.5	0.35	4.9	0.30	4.2	2.3	65	0.31	9.7	4.9	68	0.08	34.46	26.2	8.01	6.88	0.20
Geomean FY '22			3.2		6.3		3.0				8.8		71		0.08					0.18
T4-10m	9/22/22	859	0.01	0.3	0.08	1.1	0.06	0.9	0.1	2	0.17	5.2	5.3	74	0.11	34.92	27.2	8.04	6.69	0.19
T4-10m	12/27/22	1059	0.08	2.5	0.27	3.8	0.09	1.3	0.6	16	0.15	4.7	5.4	75	0.08	34.96	25.7	8.15	6.94	0.25
T4-10m	3/16/23	912	0.14	4.4	0.56	7.9	0.18	2.5	3.0	85	0.23	7.2	5.4	76	0.13	34.61	24.7	8.06	7.04	0.29
T4-10m	6/1/23	910	0.02	0.6	0.22	3.1	0.10	1.4	0.7	19	0.20	6.2	5.1	71	0.07	34.75	25.7	8.04	6.84	0.20
Geomean FY '23			1.2		3.2		1.4				5.7		74		0.10					0.23

NELHA Water Quality Laboratory

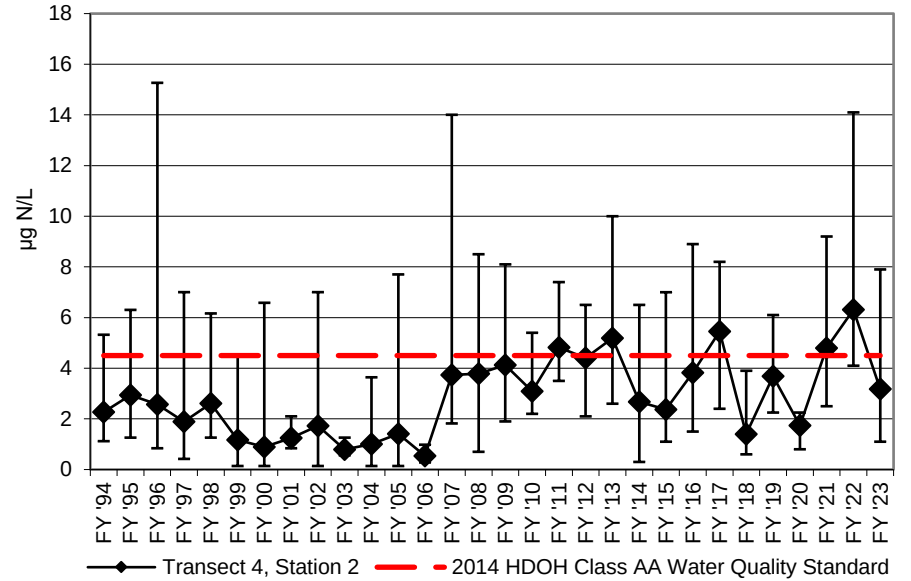
Transect 4, Station 2

8/3/1993 - 7/10/2025

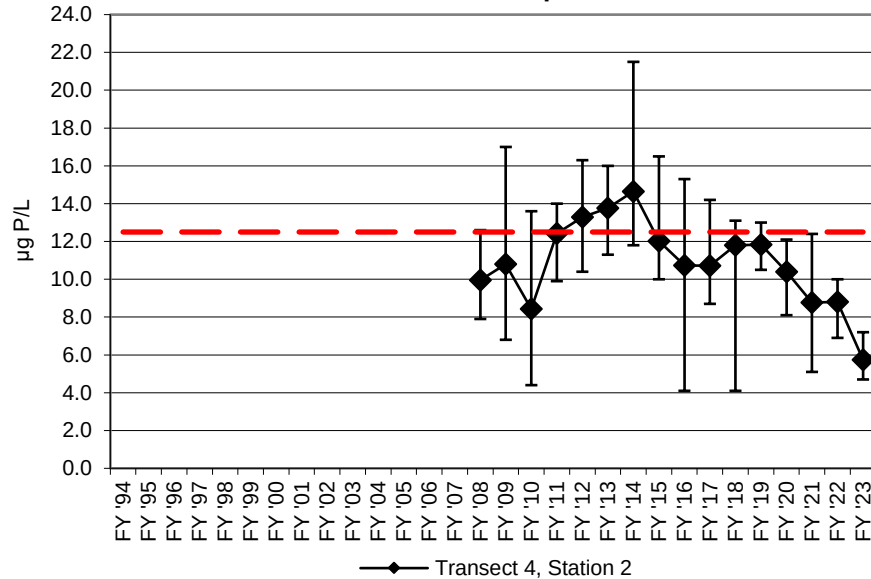
**Yearly Geometric Mean
Ortho-Phosphate**



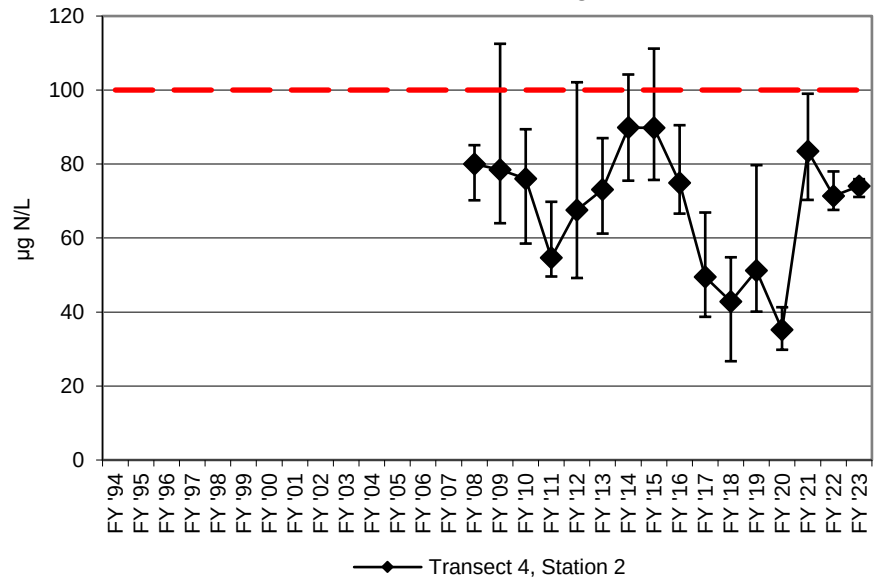
**Yearly Geometric Mean
Nitrate + Nitrite**



**Yearly Geometric Mean
Total Dissolved Phosphorous**



**Yearly Geometric Mean
Total Dissolved Nitrogen**

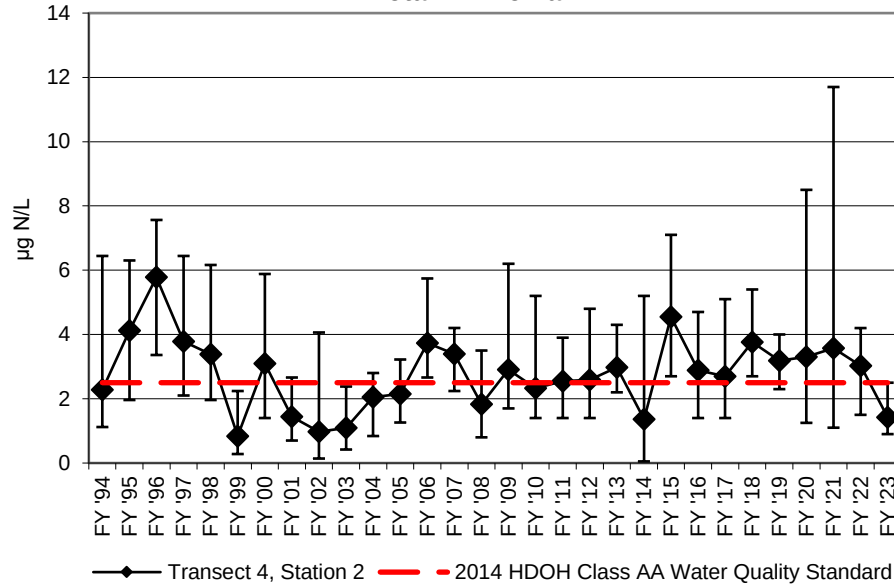


NELHA Water Quality Laboratory

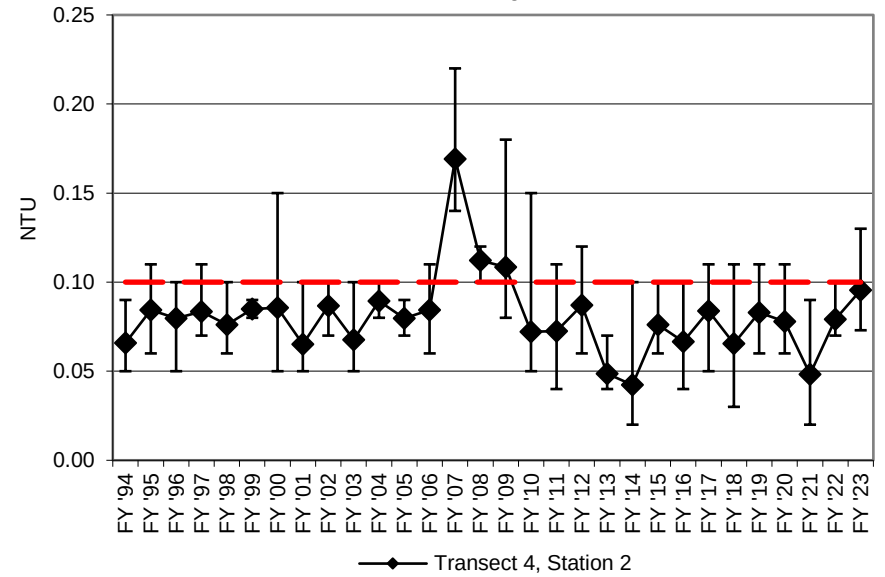
Transect 4, Station 2

8/3/1993 - 7/10/2025

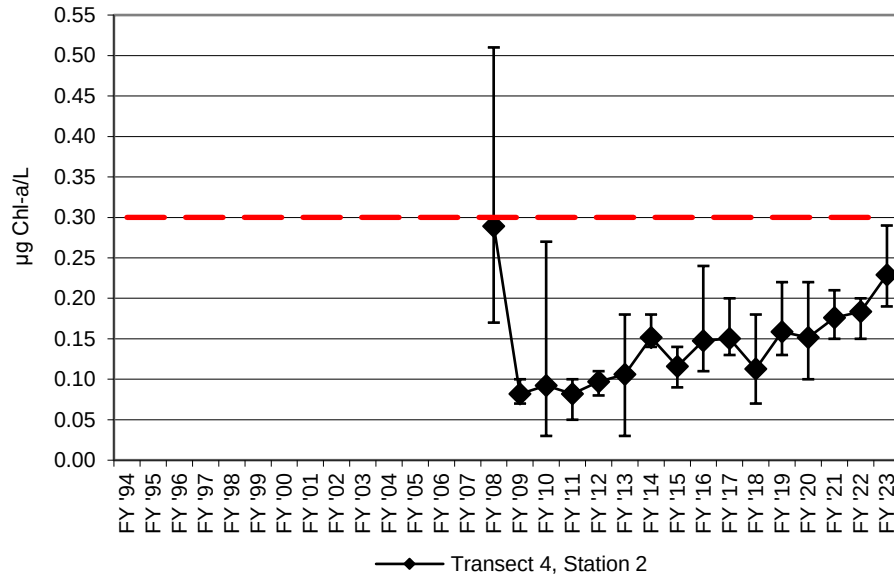
**Yearly Geometric Mean
Total Ammonia**



**Yearly Geometric Mean
Turbidity**



**Yearly Geometric Mean
Chlorophyll-a**



NELHA Water Quality Laboratory

Transect 4, Station 3

8/3/1993 - 7/10/2025

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-38r	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-38r	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-38r	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-38r	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-38r	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-38r	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-38r	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-38r	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-38r	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-38r	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-38r	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-38r	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-38r	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-38r	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-38r	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-38r	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-38r	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-38r	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-38r	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-38r	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-38r	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-38r	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-38r	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-38r	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 - 7/10/2025

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-38r	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-38r	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-38r	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-38r	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-38r	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-38r	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-38r	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-38r	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-38r	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-38r	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-38r	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-38r	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-38r	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-38r	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-38r	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-38r	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-38r	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-38r	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-38r	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-38r	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-38r	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-38r	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-38r	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-38r	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 - 7/10/2025

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-38r	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-38r	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-38r	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-38r	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-38r	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-38r	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-38r	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-38r	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 - 7/10/2025

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 - 7/10/2025

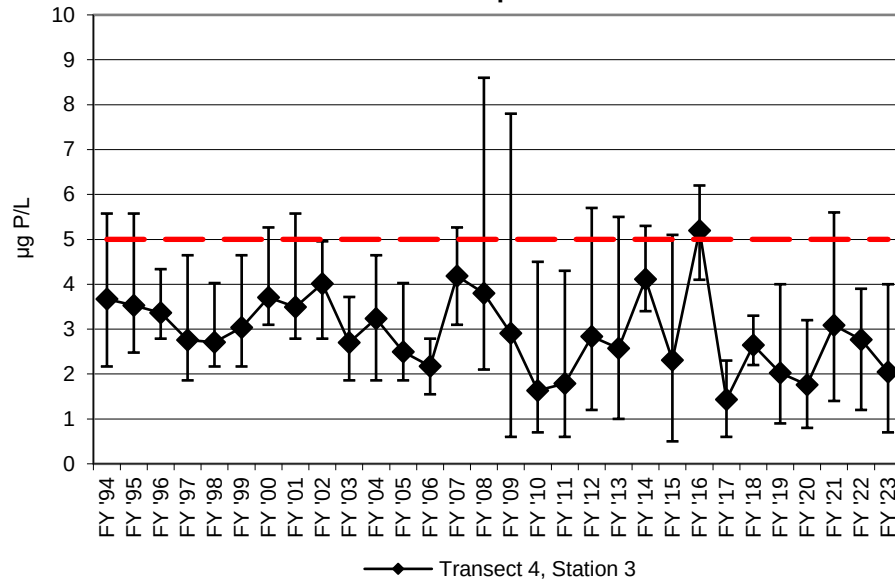
SITE ID	DATE M/D/Y	TIME (2400)	PO ₄ ³⁻ (μM) (μg P/L)		NO ₃ ⁻ & NO ₂ ⁻ (μM) (μg N/L)		NH ₄ ⁺ & NH ₃ (μM) (μg N/L)		Si (μM) (μg Si/L)		TDP (μM) (μg P/L)		TDN (μM) (μg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (μg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
T4-50m	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
T4-50m	9/23/20	927	0.11	3.3	0.13	1.8	0.49	6.9	0.8	22	0.40	12.4	6.6	92	0.03	36.06	26.2	8.14	5.80	0.14
T4-50m	12/16/20	930	0.11	3.5	0.11	1.5	0.21	3.0	0.0	0	0.27	8.3	6.0	85	0.05	35.61	26.5	8.10	6.61	0.17
T4-50m	3/10/21	944	0.18	5.6	0.37	5.2	0.16	2.2	0.3	7	0.31	9.5	4.2	60	0.06	35.75	24.7	8.07	6.81	0.15
T4-50m	5/26/21	927	0.05	1.4	0.38	5.3	0.19	2.6	1.7	47	0.16	5.0	5.2	73	0.07	35.59	25.4	7.98	6.84	0.14
Geomean	FY '21		3.1		2.9		3.3				8.4		76		0.05					0.15
T4-50m	9/24/21	1012	0.04	1.2	0.18	2.5	0.15	2.1	0.2	5	0.21	6.6	5.0	70	0.05	35.55	26.7	8.01	6.61	0.17
T4-50m	12/16/21	924	0.13	3.9	0.14	1.9	0.10	1.4	0.7	19	0.28	8.7	5.5	77	0.08	35.13	25.9	8.10	6.60	0.18
T4-50m	3/16/22	1007	0.11	3.3	0.11	1.6	0.03	0.4	0.2	4	0.32	9.9	4.6	65	0.06	34.94	25.4	8.06	6.80	0.19
T4-50m	6/9/22	907	0.12	3.8	0.64	9.0	0.29	4.1	5.6	158	0.30	9.2	5.5	77	0.13	34.22	26.2	7.98	6.53	0.25
Geomean	FY '22		2.8		2.9		1.5				8.5		72		0.07					0.20
T4-50m	9/22/22	903	0.08	2.5	0.05	0.7	0.04	0.6	-0.2	-5	0.09	2.9	4.7	66	0.15	34.92	27.1	8.06	6.67	0.16
T4-50m	12/27/22	1103	0.08	2.5	0.33	4.6	0.18	2.5	0.8	21	0.18	5.5	6.0	84	0.09	34.95	25.8	8.15	6.93	0.26
T4-50m	3/16/23	917	0.13	4.0	0.29	4.1	0.10	1.4	2.3	66	0.22	6.8	5.2	72	0.11	34.67	24.8	8.06	6.90	0.27
T4-50m	6/1/23	915	0.02	0.7	0.09	1.2	0.12	1.7	0.1	2	0.20	6.2	4.6	64	0.11	34.75	25.7	8.06	6.85	0.13
Geomean	FY '23		2.0		2.0		1.4				5.1		71		0.11					0.20

NELHA Water Quality Laboratory

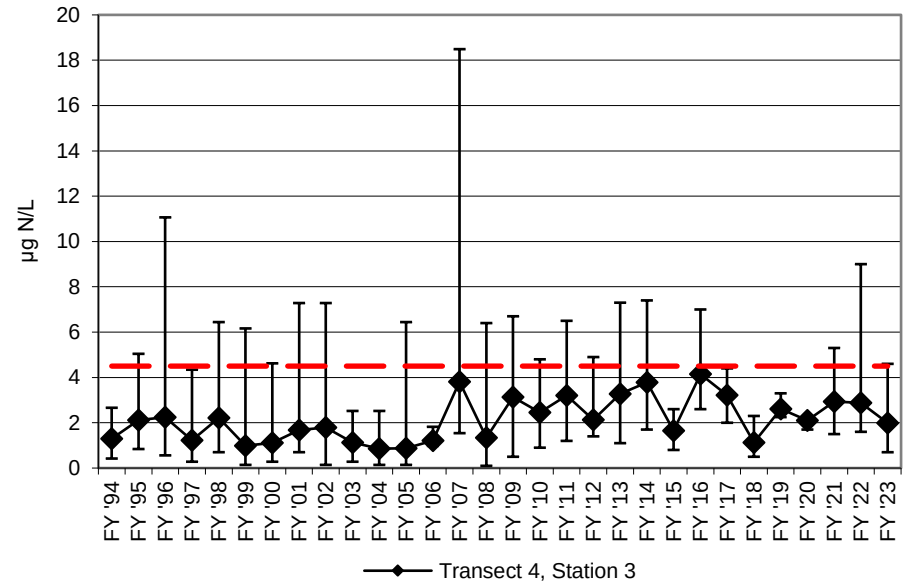
Transect 4, Station 3

8/3/1993 - 7/10/2025

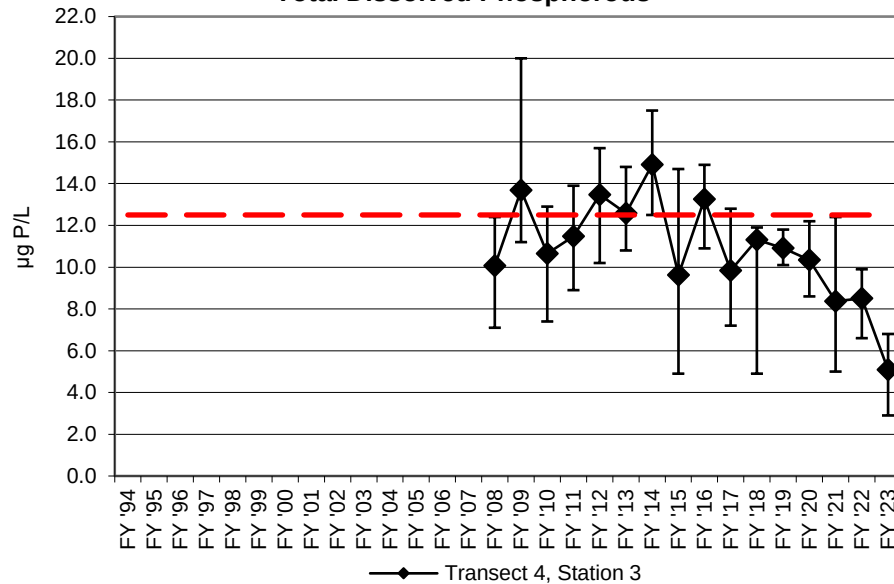
Yearly Geometric Mean
Ortho-Phosphate



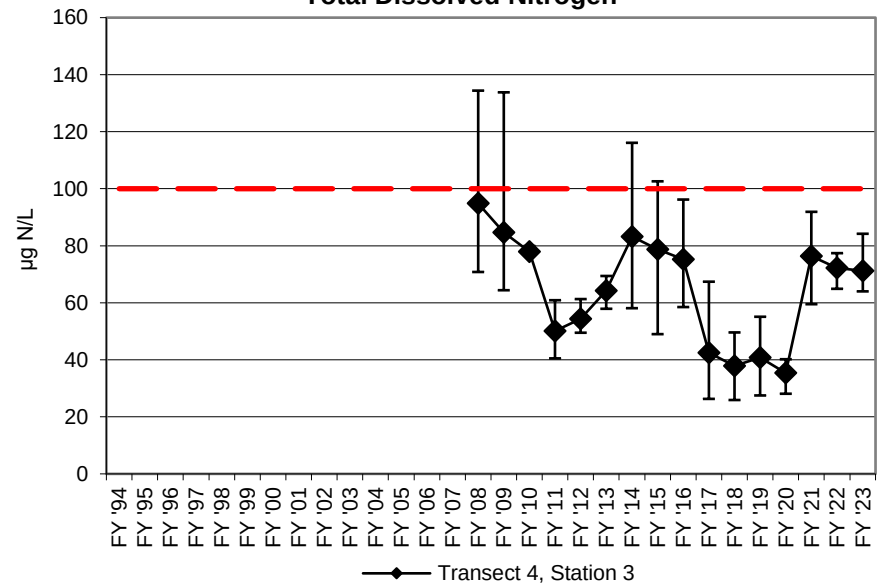
Yearly Geometric Mean
Nitrate + Nitrite



Yearly Geometric Mean
Total Dissolved Phosphorous



Yearly Geometric Mean
Total Dissolved Nitrogen

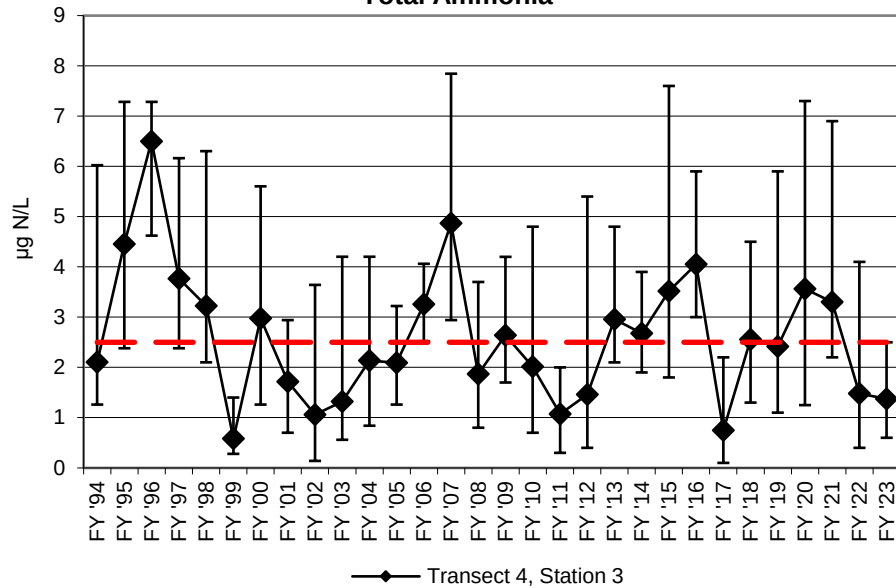


NELHA Water Quality Laboratory

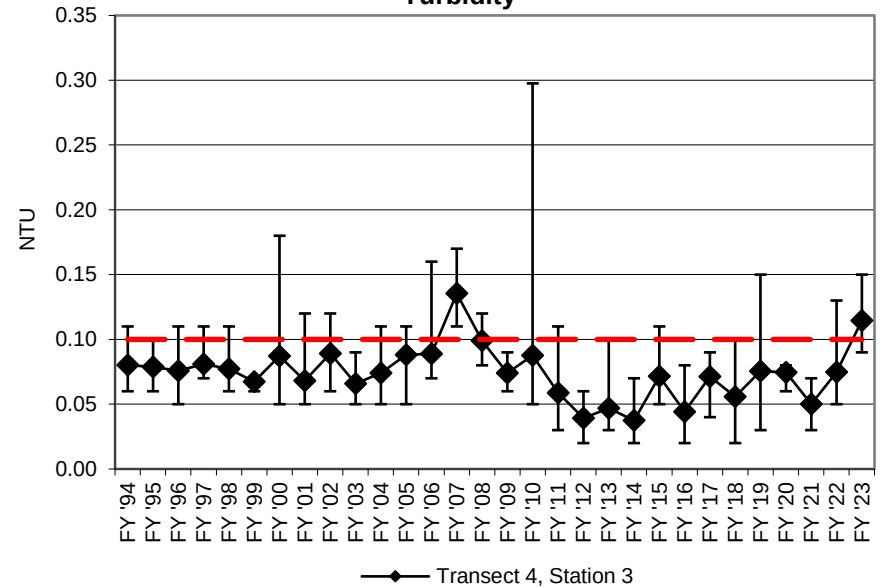
Transect 4, Station 3

8/3/1993 - 7/10/2025

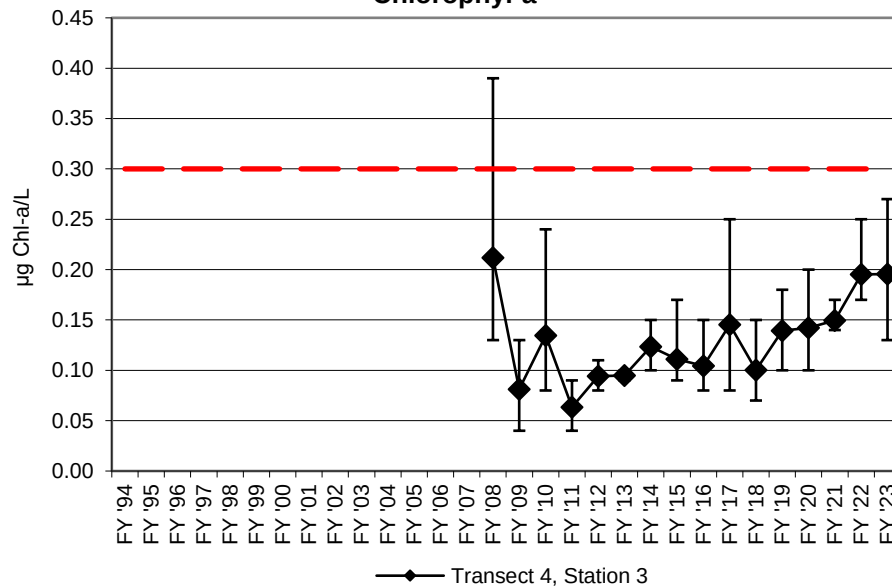
Yearly Geometric Mean
Total Ammonia



Yearly Geometric Mean
Turbidity



Yearly Geometric Mean
Chlorophyll-a



NELHA Water Quality Laboratory

Transect 4, Station 4

8/3/1993 - 7/10/2025

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-53r	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-53r	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-53r	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-53r	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-53r	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-53r	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-53r	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-53r	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-53r	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-53r	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-53r	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-53r	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-53r	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-53r	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-53r	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-53r	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-53r	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-53r	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-53r	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-53r	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-53r	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-53r	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-53r	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-53r	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 - 7/10/2025

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-53r	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-53r	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-53r	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-53r	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-53r	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-53r	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-53r	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-53r	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-53r	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-53r	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-53r	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-53r	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-53r	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-53r	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-53r	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-53r	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-53r	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-53r	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-53r	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-53r	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-53r	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-53r	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-53r	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-53r	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 - 7/10/2025

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-53rr	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-53rr	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-53rr	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-53rr	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-53rr	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-53rr	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-53rr	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-53rr	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 - 7/10/2025

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 - 7/10/2025

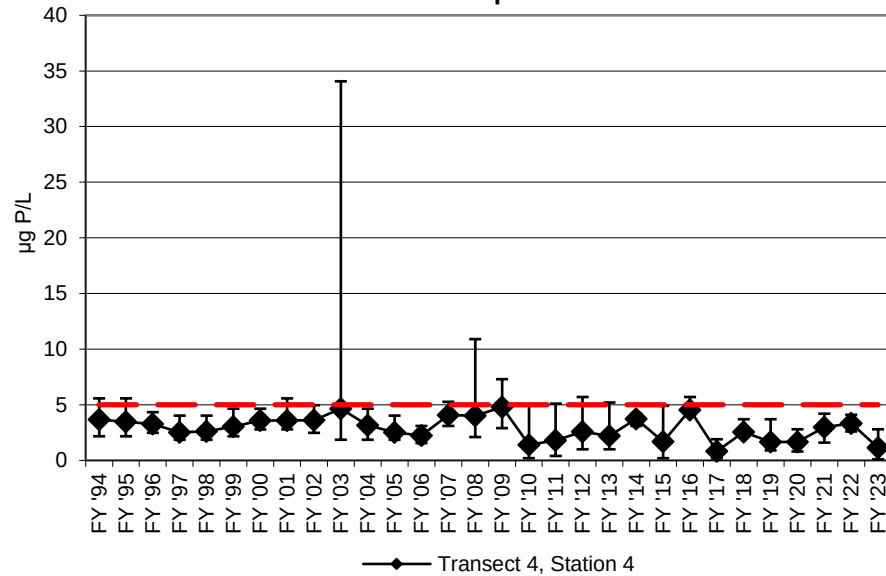
SITE ID	DATE M/D/Y	TIME (2400)	PO ₄ ³⁻ (μM) (μg P/L)		NO ₃ ⁻ & NO ₂ ⁻ (μM) (μg N/L)		NH ₄ ⁺ & NH ₃ (μM) (μg N/L)		Si (μM) (μg Si/L)		TDP (μM) (μg P/L)		TDN (μM) (μg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (μg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
T4-100m	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
T4-100m	9/23/20	932	0.11	3.3	0.04	0.5	0.29	4.1	0.9	25	0.33	10.2	6.8	95	0.03	36.06	26.2	8.15	5.63	0.26
T4-100m	12/16/20	936	0.12	3.6	0.04	0.6	0.25	3.5	0.0	1	0.27	8.4	6.4	90	0.07	35.60	26.5	8.10	6.63	0.15
T4-100m	3/10/21	949	0.14	4.2	0.15	2.1	0.25	3.5	0.6	18	0.29	9.1	4.3	60	0.05	35.75	24.7	8.08	6.80	0.17
T4-100m	5/26/21	922	0.05	1.6	0.31	4.3	0.05	0.7	1.2	34	0.15	4.8	6.6	92	0.06	35.61	25.5	7.99	6.81	0.16
Geomean FY '21			3.0		1.3		2.4				7.8		83		0.05					0.18
T4-100m	9/24/21	1017	0.08	2.6	0.05	0.7	0.23	3.2	-0.1	-4	0.19	5.9	4.9	68	0.07	35.56	26.8	8.02	6.63	0.12
T4-100m	12/16/21	929	0.13	3.9	0.37	5.2	0.19	2.6	1.5	42	0.28	8.7	5.3	74	0.06	35.09	25.9	8.10	6.57	0.21
T4-100m	3/16/22	1013	0.09	2.9	0.19	2.7	0.09	1.2	0.9	24	0.31	9.6	4.6	65	0.06	34.91	25.4	8.07	6.82	0.21
T4-100m	6/9/22	913	0.13	4.1	0.71	9.9	0.31	4.4	6.4	179	0.30	9.3	5.8	81	0.09	34.34	26.2	7.99	6.55	0.21
Geomean FY '22			3.3		3.1		2.6				8.2		72		0.07					0.18
T4-100m	9/22/22	913	0.08	2.5	0.06	0.9	0.05	0.7	-0.1	-4	0.09	2.8	4.6	65	0.11	34.92	27.2	8.08	6.67	0.20
T4-100m	12/27/22	1108	0.08	2.5	0.21	2.9	0.11	1.6	0.5	13	0.16	4.9	6.1	86	0.07	34.96	25.9	8.14	6.88	0.27
T4-100m	3/16/23	923	0.09	2.8	0.14	2.0	0.19	2.6	1.8	49	0.22	6.9	5.1	71	0.10	34.68	24.8	8.06	6.92	0.26
T4-100m	6/1/23	920	0.00	0.1	0.09	1.3	0.03	0.4	0.1	3	0.21	6.6	4.8	67	0.13	34.76	25.7	8.06	6.69	0.14
Geomean FY '23			1.2		1.6		1.0				5.0		72		0.10					0.21

NELHA Water Quality Laboratory

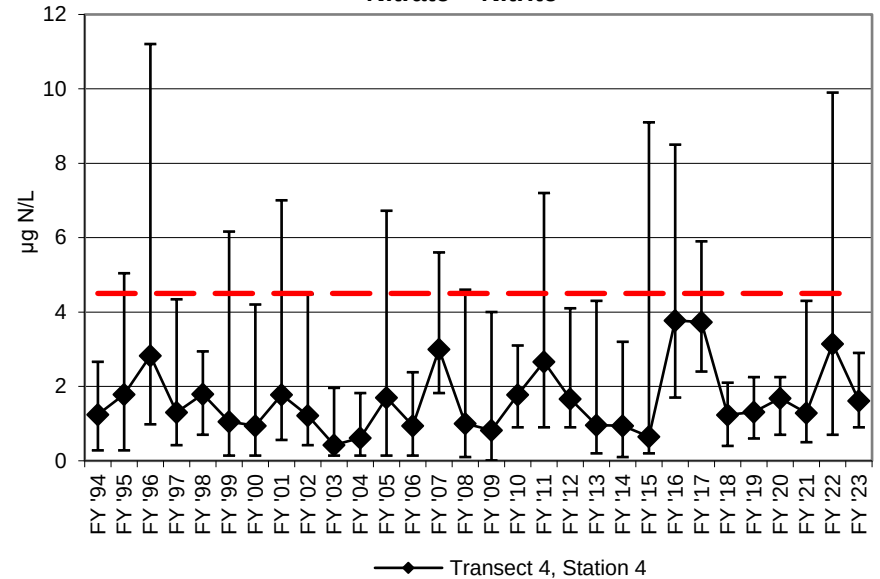
Transect 4, Station 4

8/3/1993 - 7/10/2025

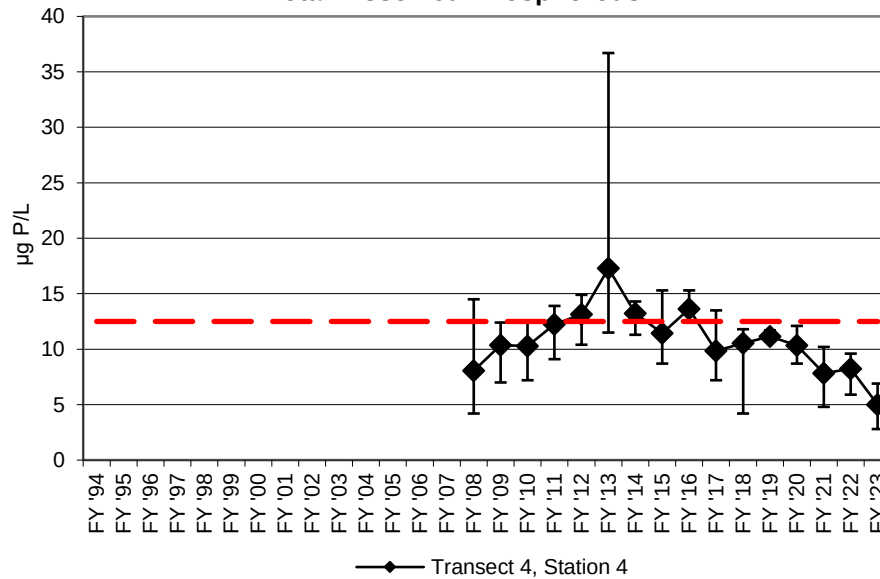
**Yearly Geometric Mean
Ortho-Phosphate**



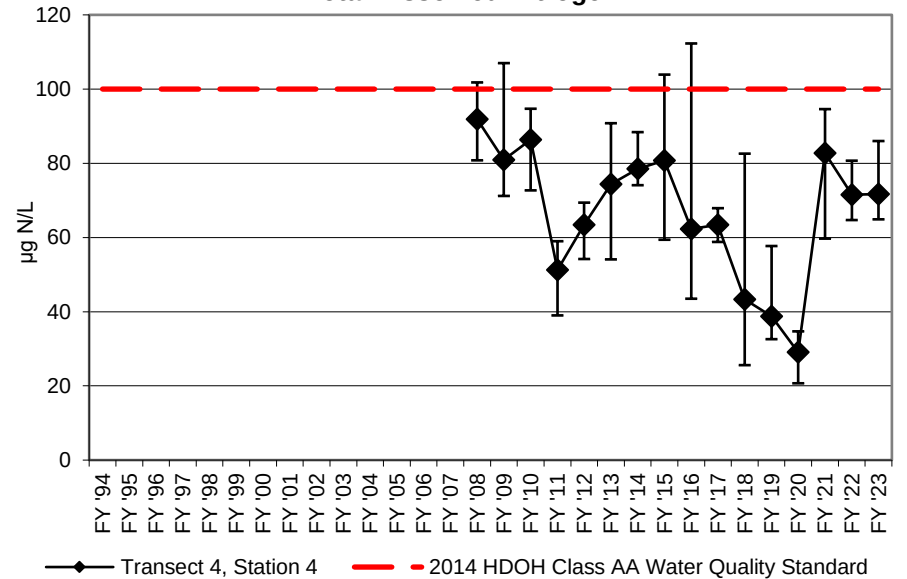
**Yearly Geometric Mean
Nitrate + Nitrite**



**Yearly Geometric Mean
Total Dissolved Phosphorous**



**Yearly Geometric Mean
Total Dissolved Nitrogen**

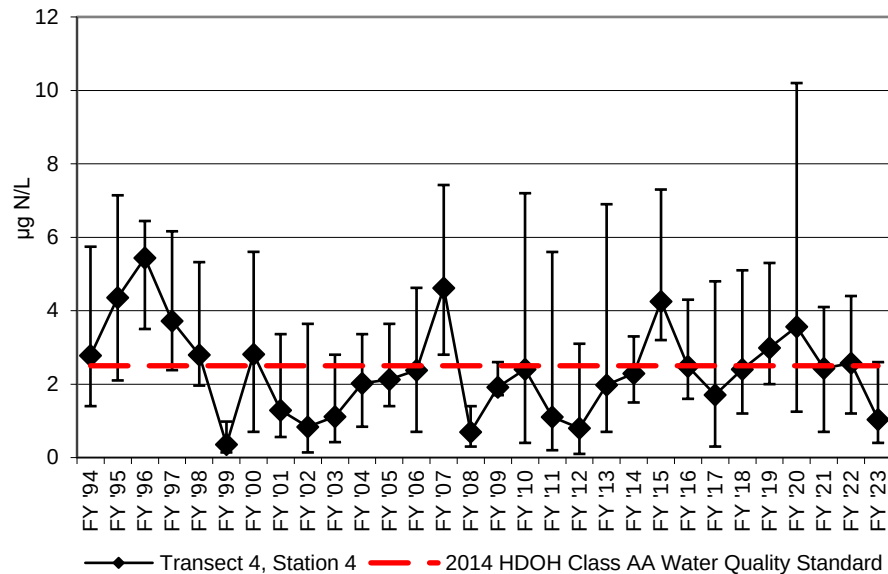


NELHA Water Quality Laboratory

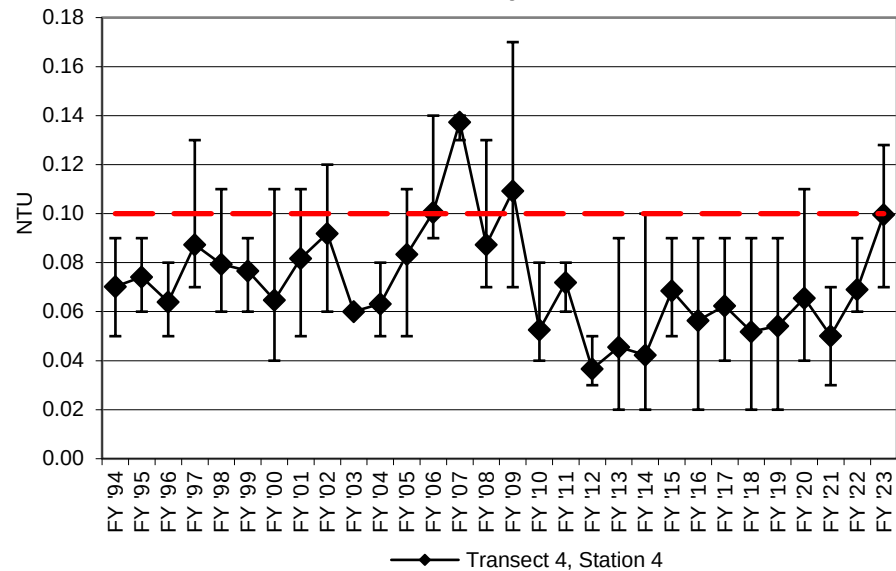
Transect 4, Station 4

8/3/1993 - 7/10/2025

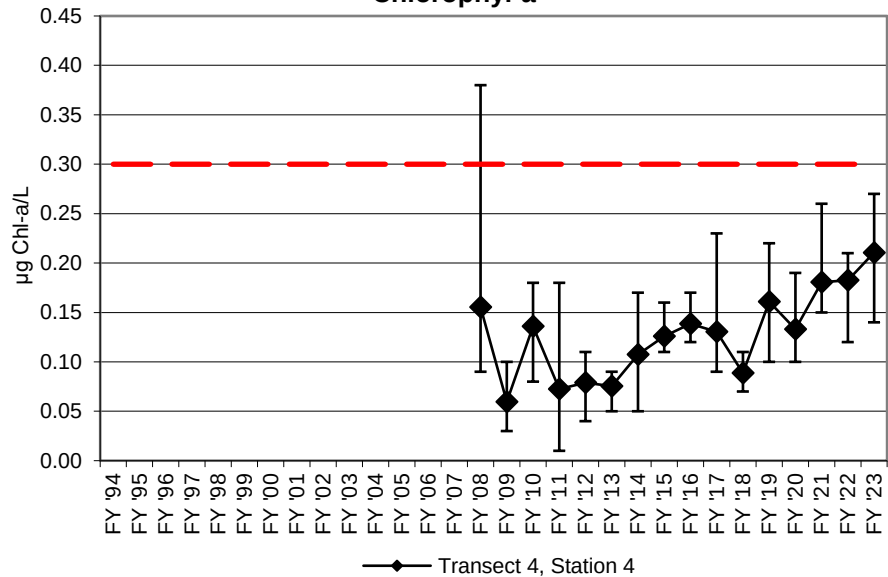
Yearly Geometric Mean Total Ammonia



Yearly Geometric Mean Turbidity



Yearly Geometric Mean Chlorophyll-a



NELHA Water Quality Laboratory

Transect 4, Station 5

8/3/1993 - 7/10/2025

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-69r	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-69r	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-69r	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-69r	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-69r	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-69r	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-69r	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-69r	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-69r	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-69r	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-69r	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-69r	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-69r	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-69r	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-69r	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-69r	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-69r	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-69r	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-69r	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-69r	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-69r	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-69r	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-69r	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-69r	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 - 7/10/2025

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-69n	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-69n	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-69n	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-69n	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-69n	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-69n	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-69n	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-69n	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-69n	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-69n	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-69n	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-69n	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-69n	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-69n	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-69n	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-69n	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-69n	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-69n	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-69n	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-69n	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-69n	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-69n	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-69n	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-69n	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 - 7/10/2025

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-69r	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-69r	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-69r	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-69r	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-69r	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-69r	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-69r	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-69r	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 - 7/10/2025

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 - 7/10/2025

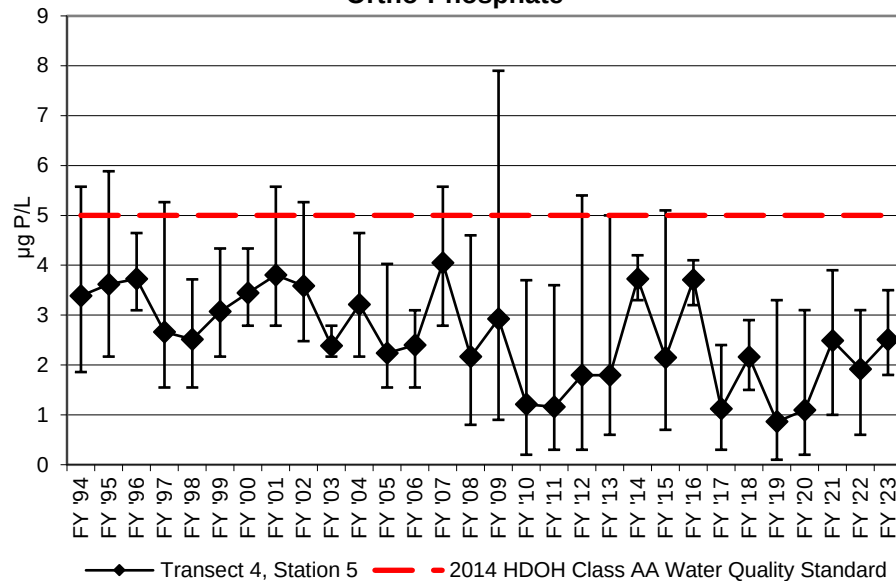
SITE ID	DATE M/D/Y	TIME (2400)	PO ₄ ³⁻ (μM) (μg P/L)		NO ₃ ⁻ & NO ₂ ⁻ (μM) (μg N/L)		NH ₄ ⁺ & NH ₃ (μM) (μg N/L)		Si (μM) (μg Si/L)		TDP (μM) (μg P/L)		TDN (μM) (μg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (μg/L)
DOH LIMIT			5		4.5		2.5				12.5		100		0.10					0.30
T4-500m	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
T4-500m	9/23/20	941	0.08	2.6	0.06	0.8	0.29	4.1	0.7	20	0.38	11.9	6.4	90	0.02	36.08	26.3	8.16	5.57	0.18
T4-500m	12/16/20	943	0.13	3.9	0.16	2.3	0.25	3.5	0.2	6	0.29	8.9	5.5	77	0.03	35.57	26.5	8.11	6.64	0.11
T4-500m	3/10/21	957	0.12	3.8	0.19	2.6	0.15	2.1	0.1	2	0.32	9.8	3.8	53	0.06	35.75	24.8	8.09	6.81	0.17
T4-500m	5/26/21	915	0.03	1.0	0.19	2.7	0.16	2.2	2.2	61	0.13	4.1	4.8	68	0.08	35.66	25.5	7.98	6.82	0.13
Geomean FY '21			2.5		1.9		2.9				8.1		70		0.04					0.14
T4-500m	9/24/21	1024	0.02	0.6	0.02	0.3	0.16	2.2	-0.2	-7	0.17	5.2	4.6	65	0.06	35.55	26.9	8.02	6.65	0.14
T4-500m	12/16/21	940	0.10	3.1	0.01	0.1	0.09	1.3	0.7	18	0.26	8.2	4.6	64	0.09	35.12	26.0	8.11	6.71	0.27
T4-500m	3/16/22	1020	0.09	2.8	0.01	0.1	0.04	0.5	0.1	3	0.31	9.7	4.3	61	0.03	34.92	25.5	8.07	6.84	0.22
T4-500m	6/9/22	920	0.08	2.6	0.12	1.7	0.54	7.5	0.0	-1	0.28	8.8	4.1	58	0.09	34.49	26.3	8.02	6.74	0.10
Geomean FY '22			1.9		0.3		1.8				7.8		62		0.06					0.17
T4-500m	9/22/22	925	0.08	2.5	0.06	0.8	0.01	0.1	0.0	0	0.15	4.8	4.6	64	0.16	34.92	27.1	8.09	6.68	0.22
T4-500m	12/27/22	1113	0.08	2.5	0.05	0.7	0.09	1.3	0.2	6	0.16	5.0	5.1	72	0.08	34.96	25.8	8.15	6.72	0.27
T4-500m	3/16/23	930	0.11	3.5	0.17	2.4	0.12	1.7	2.8	79	0.22	6.9	4.7	66	0.12	34.62	25.0	8.06	6.91	0.32
T4-500m	6/1/23	929	0.06	1.8	0.56	7.8	0.17	2.4	2.9	82	0.25	7.6	4.9	69	0.13	34.64	25.9	8.06	6.63	0.20
Geomean FY '23			2.5		1.8		0.8				6.0		68		0.12					0.25

NELHA Water Quality Laboratory

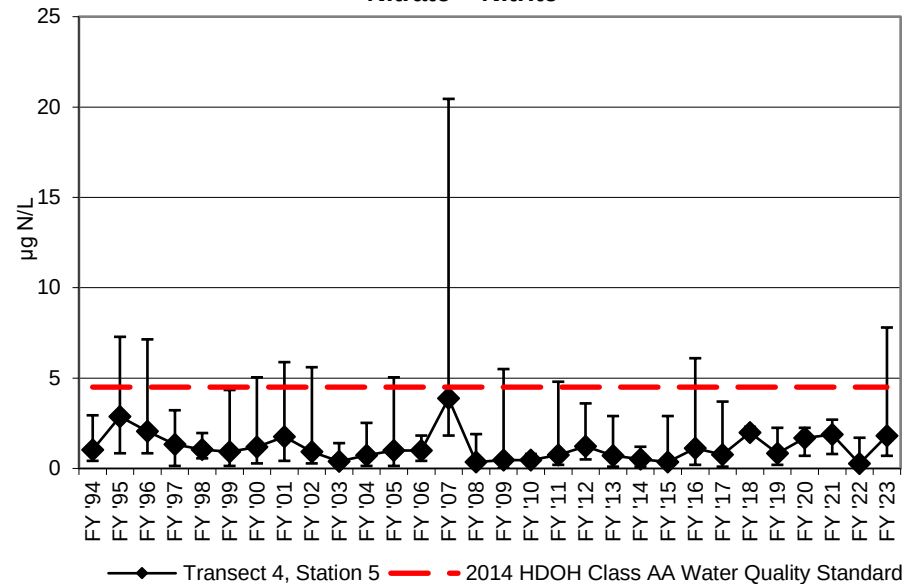
Transect 4, Station 5

8/3/1993 - 7/10/2025

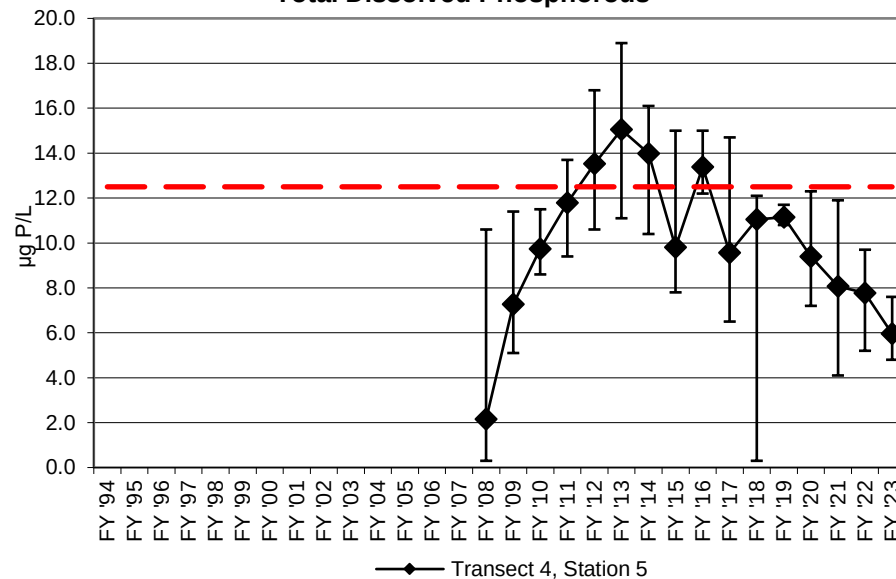
**Yearly Geometric Mean
Ortho-Phosphate**



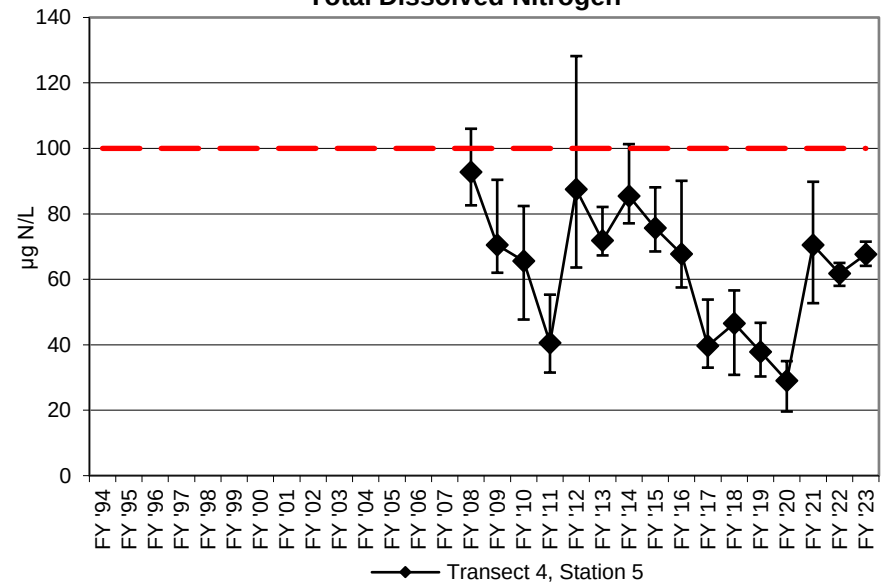
**Yearly Geometric Mean
Nitrate + Nitrite**



**Yearly Geometric Mean
Total Dissolved Phosphorous**



**Yearly Geometric Mean
Total Dissolved Nitrogen**

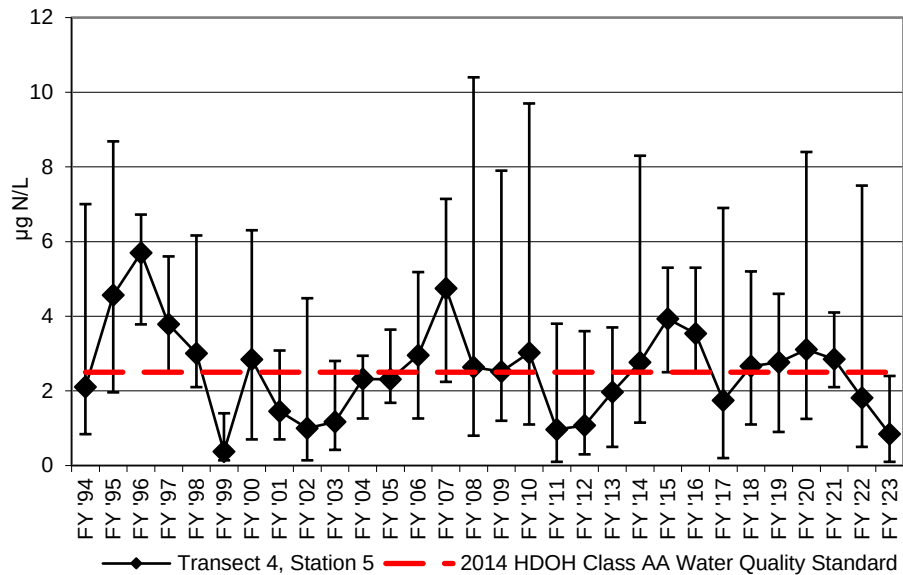


NELHA Water Quality Laboratory

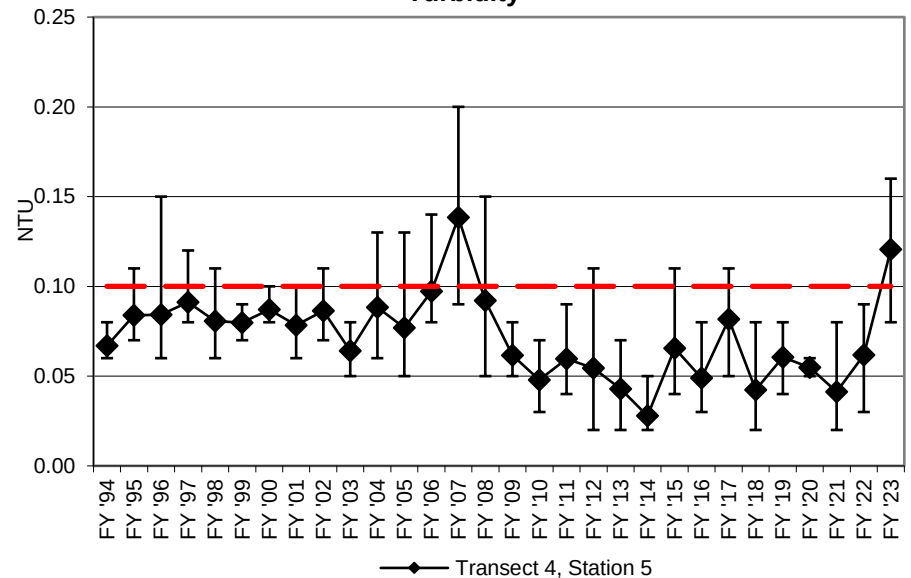
Transect 4, Station 5

8/3/1993 - 7/10/2025

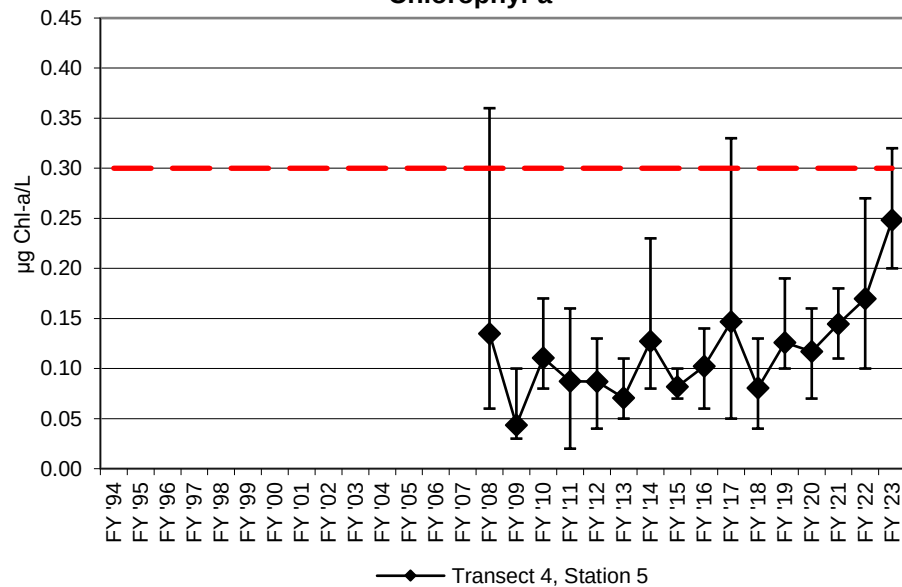
Yearly Geometric Mean Total Ammonia



Yearly Geometric Mean Turbidity



Yearly Geometric Mean Chlorophyll-a



SITE ID	DATE D-M-Y	TIME (2400)	PO4 (μM)	NO3 (μM)	NH4 (μM)	Si (μM)	TDP (μM)	TP (μM)
O4-1B	3-Aug-93	928	0.12	0.09	0.42	3.67	0.28	0.28
O4-1B	8-Dec-93	926	0.09	0.12	0.13	2.65	0.25	0.25
O4-1B	8-Mar-94	900	0.19	0.22	0.25	3.36	0.37	0.38
O4-1B	13-Jun-94	906	0.13	0.29	0.16	4.24	0.30	0.30
O4-1B	15-Sep-94	908	0.10	0.13	0.11	3.04	0.25	0.28
O4-1B	15-Nov-94	820	0.15	0.36	0.45	5.34	0.35	0.39
O4-1B	22-Mar-95	1209	0.21	0.36	0.43	7.10	0.34	0.34
O4-1B	21-Jun-95	831	0.11	0.17	0.36	2.41	0.30	0.30
O4-1B	28-Sep-95	802	0.10	0.10	0.59	2.56	0.29	0.29
O4-1B	14-Nov-95	831	0.10	0.10	0.56	2.73	0.29	0.29
O4-1B	12-Mar-96	908	0.16	0.30	0.54	3.16	0.32	0.32
O4-1B	14-May-96	844	0.13	0.48	0.26	3.49	0.29	0.32
O4-1B	31-Jul-96	930	0.07	0.03	0.37	8.21	0.24	0.24
O4-1B	2-Oct-96	858	0.08	0.03	0.16	2.61	0.28	0.28
O4-1B	7-Jan-97	912	0.11	0.22	0.20	2.79	0.30	0.30
O4-1B	28-Apr-97	926	0.17	0.53	0.44	7.20	0.70	0.77
O4-1B	19-Aug-97	914	0.09	0.44	0.26	3.50	0.36	0.36
O4-1B	7-Oct-97	1157	0.13	0.15	0.40	2.73	0.31	0.31
O4-1B	4-Mar-98	916	0.09	0.17	0.23	2.90	0.32	0.32
O4-1B	5-May-98	929	0.08	0.19	0.15	4.75	0.35	0.35
O4-1B	7-Jul-98	946	0.10	0.09	0.05	3.95	0.39	0.39
O4-1B	6-Oct-98	905	0.12	0.27	0.04	2.37	0.38	0.38
O4-1B	19-Jan-99	926	0.12	1.01	0.20	4.30	0.32	0.32
O4-1B	13-Apr-99	1014	0.13	0.13	0.14	3.11	0.39	0.39
O4-1B	16-Aug-99	940	0.10	0.13	0.52	2.50	0.37	0.37
O4-1B	25-Oct-99	1035	0.11	0.03	0.26	2.77	0.36	0.37
O4-1B	12-Jan-00	946	0.10	0.03	0.30	2.34	0.30	0.30
O4-1B	16-May-00	915	0.19	0.61	0.12	6.38	0.34	0.35
O4-1B	25-Jul-00	943	0.09	0.07	0.05	3.09	0.34	0.35
O4-1B	31-Oct-00	937	0.09	0.05	0.21	7.85	0.37	0.37
O4-1B	6-Mar-01	932	0.15	0.30	0.12	3.30	0.39	0.39
O4-1B	8-May-01	1022	0.13	0.29	0.15	3.90	0.33	0.36
O4-1B	13-Aug-01	1030	0.10	0.01	0.54	3.61	0.32	0.29
O4-1B	30-Oct-01	942	0.16	0.43	0.05	3.15	0.41	0.41
O4-1B	4-Mar-02	1006	0.11	0.09	0.02	2.00	0.38	0.38
O4-1B	16-Apr-02	1117	0.20	0.50	0.30	8.23	0.40	0.41
O4-1B	9-Jul-02	1008	0.12	0.05	0.22	5.62	0.34	0.35
O4-1B	7-Oct-02	957	0.10	0.04	0.19	2.80	0.33	0.34
O4-1B	10-Mar-03	1131	0.10	0.24	0.08	3.57	0.37	0.40
O4-1B	22-Apr-03	1000	0.07	<0.03	0.06	3.00	0.30	0.33
O4-1B	19-Aug-03	1231	0.07	0.02	<0.20	2.23	0.34	0.35
O4-1B	30-Oct-03	939	0.11	0.12	0.20	1.60	0.37	0.37
O4-1B	17-Mar-04	1023	0.11	0.05	0.17	1.30	0.35	0.36
O4-1B	24-May-04	947	0.16	0.42	0.06	3.61	0.43	0.44
O4-1B	22-Sep-04	1022	0.07	<0.01	0.19	3.72	0.31	0.31
O4-1B	29-Nov-04	928	0.08	0.21	0.16	1.44	0.32	0.31
O4-1B	24-Jan-05	1004	0.09	0.63	0.16	3.26	0.29	0.33
O4-1B	13-Apr-05	1009	0.13	0.58	0.18	3.78	0.36	0.38

O4-1B	21-Jul-05	923	0.05	0.01	0.30	1.33	0.31	0.30
O4-1B	13-Oct-05	903	0.05	<0.01	0.20	2.54	0.31	0.31
O4-1B	14-Mar-06	945	0.11	0.44	0.37	2.38	0.35	0.34
O4-1B	17-May-06	916	0.11	0.85	0.30	3.23	0.35	0.41
O4-1B	16-Aug-06	919	0.13	0.30	0.28	2.33	0.36	0.41
O4-1B	20-Nov-06	918	0.13	0.17	0.30	1.68	0.35	0.38
O4-1B	12-Feb-07	1009	0.12	0.18	0.32	1.19	0.38	0.36
O4-1B	16-Apr-07	1006	0.13	0.52	0.36	4.07	0.34	0.37

TDN (µM)	TOC (mgC/L)	TURBIDITY (NTU)	SALINITY (o/oo)	TEMP/F (Deg C)	pH	DO (ppm)	Chl a (µg/L)	ecal Bact/100 m	Colifor Bact/100 m	Enterococci Bact/100 m
8.07	1.97	0.09	34.456	26.8	8.235	7.20				
5.67	1.17	0.06	34.793	25.7	8.256	6.78				
5.66	1.06	0.08	34.216	25.1	8.243	7.47	0.01	<1	<1	<1
7.02	1.10	0.14	34.531	25.5	8.219	7.46	0.09	<1	<1	<1
6.41	1.15	0.08	34.609	27.6	8.251	7.14	0.18	<1	<1	<1
5.78	1.04	0.08	34.564	26.0	8.248	7.30	0.23	<1	<1	<1
6.23	1.11	0.11	34.167	25.2	8.261	7.89	0.23	<1	<1	<1
5.53	0.95	0.07	34.452	26.2	8.211	7.37	0.16	5	<1	<1
5.91	0.98	0.10	34.600	27.2	8.154	6.96	0.05	<1	<1	<1
5.90	1.14	0.06	34.360	26.6	8.079	6.72	0.00	<1	1	1
5.36	0.99	0.09	34.169	25.2	7.902	7.06	0.23	<1	<1	<1
4.27	1.16	0.08	34.301	27.1	7.974	6.86	0.13	1	2	2
4.10	1.01	0.07	34.497	27.9	8.252	6.95	0.07	<1	<1	<1
5.28	1.08	0.07	34.649	28.1	8.228	7.22	0.07	<1	1	1
5.12	1.13	0.10	34.681	25.4	8.271	7.41	0.00	<1	<1	<1
5.34	1.07	0.14	34.421	26.6	8.276	6.76	0.23	<1	<1	<1
5.10	1.09	0.10	34.632	26.9	8.376	8.13	0.15	<1	1	1
4.58	1.12	0.09	34.744	27.7	8.447	7.17	0.17	<1	<1	<1
4.93	1.04	0.10	35.016	24.9	8.231	7.27	0.00	<1	<1	<1
5.01	0.94	0.08	35.050	24.1	8.221	7.47	0.10	<1	31	31
5.80	1.13	0.08	35.009	26.1	8.225	7.51	0.08	<1	<1	<1
5.91	1.08	0.08	35.105	27.1	8.220	7.84	0.12	<1	<1	<1
5.15	1.23	0.06	35.152	25.1	8.230	7.41	0.21	<1	<1	<1
4.44	1.07	0.07	34.686	24.2	8.214	7.61	0.11	<1	<1	<1
5.03	1.10	0.10	34.841	26.1	8.248	7.20	0.08	<1	1	1
4.92	1.06	0.08	34.962	26.2	8.271	7.31	0.12	<1	<1	<1
5.61	0.98	0.08	35.139	24.7	8.262	7.76	0.05	<1	<1	<1
6.20	1.00	0.24	34.589	25.0	8.236	7.60	0.20	<1	<1	<1
4.94	0.96	0.07	34.866	26.8	8.280	7.18	0.12	<1	<1	<1
4.67	1.09	0.10	34.964	27.0	8.249	6.98	0.07	<1	<1	<1
5.34	1.14	0.12	34.711	24.8	8.203	7.19	0.07	<1	<1	<1
5.03	1.06	0.08	34.782	24.9	8.024	7.25	0.07	<1	1	1
5.59	1.09	0.07	34.885	26.6	8.223	7.45	0.12	<1	<1	<1
7.31	1.11	0.06	34.986	26.7	8.209	7.60	0.15	<1	<1	<1
5.57	0.96	0.15	34.678	24.2	8.128	7.09	0.10	<1	<1	<1
6.36	1.01	0.08	34.397	25.6	8.232	7.25	0.06	<1	<1	<1
5.40	0.87	0.07	34.656	25.8	8.194	7.46	0.09	<1	<1	<1
5.99	1.09	0.06	34.942	27.0	8.248	7.43	0.08	<1	<1	<1
6.82	1.14	0.14	34.769	25.1	8.266	7.83	0.12	<1	<1	<1
4.21	0.88	0.12	34.099	24.5	8.272	7.11	0.11	<1	<1	<1
4.06		0.06	34.837	28.2	8.250	6.75	0.09	<1	<1	<1
6.64		0.11	34.823	27.5	8.228	NO DATA	0.09	<1	<1	<1
4.56		NO DATA	34.403	25.8	8.280	6.44	0.07	<1	<1	<1
5.93		NO DATA	33.38	26.7	8.237	3.86	0.01	<1	<1	<1
4.14		0.08	33.83	27.8	8.240	6.64	0.10	<1	<1	<1
4.40		0.08	33.67	27.0	8.289	6.54	0.06	1	1	1
5.37		0.09	34.747	25.6	8.314	6.86	0.11	<1	<1	<1
5.20		0.11	34.370	25.4	8.306	7.07	0.11	<1	<1	<1

4.14		0.08	34.690	27.3	8.270	6.54	0.04	<1	<1
4.21		0.10	34.827	27.1	8.292	6.62	0.04	<1	<1
4.86	1.21	0.12	34.827	24.5	8.272	6.98	0.09	<1	<1
5.92	1.23	0.11	34.624	24.7	8.274	6.99	0.12	<1	<1
4.86	1.04	0.13	34.608	26.7	8.229	7.27	0.12	<1	<1
5.27	1.09	0.15	34.805	26.8	8.266	6.78	0.09	<1	<1
5.20	1.11	0.14	34.422	24.6	8.230	6.69	0.11	<1	<1
6.25	0.92	0.14	34.606	26.5	8.261	6.60	0.14	<1	<1

-134.9	26.8
-144.3	23.5
-150.7	24.3
-154.9	24.5
-160.6	26.0
-160.7	23.7
-160.0	23.2
-131.9	24.1
-98.8	25.4
-90.7	23.8
-48.2	23.1
-65.2	25.0
-108.5	23.7
-115.6	24.4
-86.9	21.2
-86.5	24.4
-83.0	25.3
-83.4	26.5
-74.8	24.4
-74.3	25.2
-83.9	24.1
-85.8	25.2
-89.6	24.1
-91.4	24.7
-72.4	24.3
-76.3	24.7
-75.3	24.1
-77.1	24.8
-81.1	25.2
-84.8	25.0
-84.4	24.7
-74.0	24.8
-85.7	27.2
-85.4	25.4
-81.7	25.2
-88.0	26.8
-85.7	27.0
-86.6	27.4
-89.1	24.8
-86.6	25.3
-86.9	25.5
-95.3	24.6
-88.0	23.6
-93.0	23.4
-97.4	25.5
-100.1	23.4
-86.1	23.6
-87.8	23.5

-91.4	26.1
-84.2	23.0
-87.2	24.4
-86.9	25.5
-88.4	27.5
-92.4	26.5
-90.0	25.1
-91.3	25.3

SITE ID	DATE D-M-Y	TIME (2400)	PO4 (μM)	NO3 (μM)	NH4 (μM)	Si (μM)	TDP (μM)	TP (μM)	TDN (μM)
O4-2B	3-Aug-93	917	0.10	0.03	0.53	2.15			
O4-2B	8-Dec-93	921	0.07	0.12	0.09	2.47			
O4-2B	8-Mar-94	856	0.18	0.09	0.24	2.25			5.80
O4-2B	13-Jun-94	900	0.12	0.13	0.08	5.94			
O4-2B	15-Sep-94	857	0.09	0.10	0.11	3.11			
O4-2B	15-Nov-94	814	0.14	0.28	0.45	3.99			
O4-2B	22-Mar-95	1159	0.20	0.25	0.37	4.25			
O4-2B	21-Jun-95	826	0.09	0.09	0.36	1.95			
O4-2B	28-Sep-95	1000	0.08	0.07	0.43	2.85			
O4-2B	14-Nov-95	825	0.19	0.07	0.66	1.92			
O4-2B	12-Mar-96	905	0.15	0.26	0.58	3.03			
O4-2B	14-May-96	840	0.11	0.72	0.30	4.43			
O4-2B	31-Jul-96	920	0.07	0.00	0.33	16.3			
O4-2B	2-Oct-96	853	0.08	0.06	0.16	2.21			
O4-2B	7-Jan-97	908	0.09	0.09	0.21	2.21			
O4-2B	28-Apr-97	920	0.14	0.24	0.38	3.80			
O4-2B	19-Aug-97	909	0.09	0.46	0.28	3.45			
O4-2B	7-Oct-97	1152	0.12	0.13	0.43	2.97			
O4-2B	4-Mar-98	912	0.09	0.16	0.21	3.16			
O4-2B	5-May-98	923	0.08	0.14	0.18	4.15			
O4-2B	7-Jul-98	940	0.09	0.05	0.03	2.88			
O4-2B	6-Oct-98	859	0.09	0.06	0.04	1.55			
O4-2B	19-Jan-99	919	0.07	0.03	0.09	3.06			
O4-2B	13-Apr-99	1009	0.13	0.19	0.12	2.72			
O4-2B	16-Aug-99	938	0.10	0.18	0.41	1.56			
O4-2B	25-Oct-99	1030	0.10	0.04	0.25	3.50			
O4-2B	12-Jan-00	942	0.10	0.04	0.32	1.86			
O4-2B	16-May-00	911	0.19	0.45	0.12	6.02			
O4-2B	25-Jul-00	938	0.09	0.19	0.05	2.80			
O4-2B	31-Oct-00	934	0.09	0.08	0.20	2.57			
O4-2B	6-Mar-01	925	0.18	0.52	0.12	4.07			
O4-2B	8-May-01	1019	0.14	0.33	0.16	3.84			
O4-2B	13-Aug-01	1028	0.09	0.01	0.29	8.41			
O4-2B	30-Oct-01	937	0.16	0.44	0.03	4.00			
O4-2B	4-Mar-02	1001	0.12	0.12	0.01	3.08			
O4-2B	16-Apr-02	1001	0.18	0.42	0.28	9.28			
O4-2B	9-Jul-02	1114	0.11	0.04	0.17	2.88			
O4-2B	7-Oct-02	955	0.10	0.04	0.19	4.90			
O4-2B	10-Mar-03	1121	0.10	0.30	0.08	3.71			
O4-2B	22-Apr-03	956	0.10	<0.03	<0.03	1.57			
O4-2B	19-Aug-03	1220	0.06	<0.01	<0.20	1.49			
O4-2B	30-Oct-03	933	0.10	0.10	0.20	2.16			
O4-2B	17-Mar-04	1017	0.12	0.06	0.15	1.30			
O4-2B	24-May-04	941	0.15	0.23	0.06	3.39			
O4-2B	22-Sep-04	1014	0.06	<0.01	0.20	1.50			
O4-2B	29-Nov-04	922	0.09	0.08	0.14	1.07			
O4-2B	24-Jan-05	1001	0.10	0.38	0.11	2.91			
O4-2B	13-Apr-05	1002	0.13	0.54	0.21	3.05			

O4-2B	21-Jul-05	916	0.03	<0.01	0.30	1.70
O4-2B	13-Oct-05	854	0.05	0.02	0.17	3.04
O4-2B	14-Mar-06	940	0.08	<0.07	0.27	4.19
O4-2B	17-May-06	908	0.10	<0.07	<0.05	1.41
O4-2B	16-Aug-06	912	0.14	0.45	0.17	2.37
O4-2B	20-Nov-06	909	0.10	0.12	0.22	1.71
O4-2B	12-Feb-07	1002	0.27	0.16	0.33	0.92
O4-2B	16-Apr-07	956	0.14	0.22	0.31	3.33

TOC (mgC/L)	TURBIDITY (NTU)	SALINITY (o/oo)	TEMP/F (Deg C)	pH	DO (ppm)	Chl a (µg/L)	ecal 3act/100 m	Colifor 3act/100 ml	Enterococci 3act/100 ml
	0.07	34.453	26.8						
	0.06	34.797	25.7						
	0.07	34.240	25.1						
	0.09	34.549	25.5						
	0.08	34.614	27.5						
	0.07	34.588	26.0						
	0.11	34.171	25.2						
	0.07	34.471	26.2						
	0.08	34.601	27.3						
	0.07	34.360	26.6						
	0.08	34.180	25.4						
	0.08	34.258	27.1						
	0.08	34.503	27.9						
	0.08	34.652	27.9						
	0.08	34.710	25.4						
	0.11	34.428	26.6						
	0.09	34.631	27.0						
	0.10	34.743	27.7						
	0.09	35.019	24.9						
	0.07	35.050	24.1						
	0.13	35.029	26.1						
	0.07	35.131	26.9						
	0.07	35.165	25.1						
	0.09	34.676	24.2						
	0.13	34.872	26.0						
	0.11	34.968	26.1						
	0.05	35.140	24.7						
	0.12	34.586	25.1						
	0.05	34.871	26.7						
	0.10	34.963	26.9						
	0.13	34.726	24.8						
	0.11	34.781	24.9						
	0.10	34.888	26.6						
	0.07	35.033	26.7						
	0.09	34.671	24.2						
	0.08	34.403	25.6						
	0.08	34.655	26.7						
	0.09	34.947	27.0						
	0.07	34.772	24.9						
	0.07	35.108	24.7						
	0.08	34.838	28.2						
	0.09	34.820	27.5						
	NO DATA	34.416	26.8						
	NO DATA	33.37	26.9						
	0.07	33.77	27.8						
	0.05	33.75	26.9						
	0.10	34.810	25.5						
	0.11	34.433	25.4						

0.07	34.753	27.4
0.14	34.877	27.2
0.06	34.866	24.5
0.06	34.676	25.0
0.14	34.661	26.7
0.34	34.806	26.7
0.15	34.435	24.7
0.28	34.635	25.5

SITE ID	DATE D-M-Y	TIME (2400)	PO4 (μM)	NO3 (μM)	NH4 (μM)	Si (μM)	TDP (μM)	TP (μM)	TDN (μM)
O4-3B	3-Aug-93	907	0.12	0.02	0.40	1.94			
O4-3B	8-Dec-93	914	0.07	0.09	0.05	2.36			
O4-3B	8-Mar-94	850	0.17	0.03	0.07	1.79			
O4-3B	13-Jun-94	854	0.12	0.18	0.16	6.11			
O4-3B	15-Sep-94	851	0.08	0.09	0.19	2.79			
O4-3B	15-Nov-94	812	0.14	0.32	0.51	4.21			
O4-3B	22-Mar-95	1153	0.17	0.15	0.37	3.31			
O4-3B	21-Jun-95	818	0.09	0.05	0.37	1.96			
O4-3B	28-Sep-95	1010	0.09	0.02	0.54	2.27			
O4-3B	14-Nov-95	821	0.11	0.12	0.45	1.77			
O4-3B	12-Mar-96	901	0.13	0.26	0.48	2.93			
O4-3B	14-May-96	835	0.09	0.48	0.26	3.58			
O4-3B	31-Jul-96	910	0.07	0.00	0.35	2.63			
O4-3B	2-Oct-96	848	0.06	0.06	0.21	2.38			
O4-3B	7-Jan-97	903	0.09	0.04	0.20	1.92			
O4-3B	28-Apr-97	915	0.12	0.22	0.41	2.37			
O4-3B	19-Aug-97	906	0.07	0.33	0.24	2.99			
O4-3B	7-Oct-97	1144	0.13	0.15	0.44	3.09			
O4-3B	4-Mar-98	907	0.08	0.15	0.23	3.84			
O4-3B	5-May-98	918	0.08	0.17	0.17	3.54			
O4-3B	7-Jul-98	935	0.09	0.05	0.01	2.31			
O4-3B	6-Oct-98	854	0.08	0.01	0.03	1.44			
O4-3B	19-Jan-99	915	0.07	0.03	0.08	2.40			
O4-3B	13-Apr-99	1004	0.12	0.14	0.06	2.06			
O4-3B	16-Aug-99	932	0.11	0.24	0.40	2.53			
O4-3B	25-Oct-99	1026	0.09	0.01	0.24	2.39			
O4-3B	12-Jan-00	937	0.11	0.03	0.27	1.90			
O4-3B	16-May-00	907	0.16	0.30	0.05	4.99			
O4-3B	25-Jul-00	934	0.10	0.44	0.05	2.66			
O4-3B	31-Oct-00	930	0.10	0.08	0.24	8.55			
O4-3B	6-Mar-01	919	0.15	0.07	0.06	2.60			
O4-3B	8-May-01	1016	0.14	0.26	0.18	7.43			
O4-3B	13-Aug-01	1024	0.09	0.05	0.32	2.42			
O4-3B	30-Oct-01	932	0.14	0.32	0.03	2.58			
O4-3B	4-Mar-02	956	0.15	0.15	0.01	1.99			
O4-3B	16-Apr-02	954	0.17	0.43	0.23	5.95			
O4-3B	9-Jul-02	1109	0.10	<0.01	0.14	2.72			
O4-3B	7-Oct-02	949	0.08	0.02	0.25	3.01			
O4-3B	10-Mar-03	1113	0.11	0.14	0.04	3.46			
O4-3B	22-Apr-03	952	0.07	<0.03	0.06	1.52			
O4-3B	19-Aug-03	1210	0.06	<0.01	<0.20	1.58			
O4-3B	30-Oct-03	926	0.10	0.15	0.30	2.04			
O4-3B	17-Mar-04	1014	0.12	0.04	0.15	1.23			
O4-3B	24-May-04	936	0.15	0.15	0.06	3.46			
O4-3B	22-Sep-04	1008	0.07	<0.01	0.18	2.74			
O4-3B	29-Nov-04	918	0.05	0.09	0.08	1.25			
O4-3B	24-Jan-05	957	0.02	0.18	0.10	2.76			
O4-3B	13-Apr-05	955	0.13	0.46	0.20	4.90			

O4-3B	21-Jul-05	909	0.04	0.02	0.27	1.49
O4-3B	13-Oct-05	847	0.05	0.09	0.13	2.10
O4-3B	14-Mar-06	934	0.10	<0.07	0.29	1.42
O4-3B	17-May-06	904	0.09	0.08	0.06	1.44
O4-3B	16-Aug-06	906	0.11	0.33	0.24	2.13
O4-3B	20-Nov-06	901	0.10	0.11	0.56	1.69
O4-3B	14-Feb-07	954	0.22	0.18	0.38	1.03
O4-3B	16-Apr-07	951	0.11	<0.07	0.27	1.67

TOC (mgC/L)	TURBIDITY (NTU)	SALINITY (o/oo)	TEMP/F (Deg C)	pH	DO (ppm)	Chl a (µg/L)	ecal 3act/100 m	Colifor 3act/100 ml	Enterococci 3act/100 ml
	0.08	34.450	26.8						
	0.06	34.794	25.7						
	0.07	34.246	25.0						
	0.10	34.539	25.5						
	0.09	34.609	27.6						
	0.09	34.584	26.0						
	0.09	34.203	25.2						
	0.07	34.487	26.2						
	0.10	34.610	27.3						
	0.08	34.362	26.6						
	0.08	34.174	25.1						
	0.07	34.295	27.0						
	0.10	34.502	28.0						
	0.08	34.657	28.0						
	0.07	34.739	25.5						
	0.12	34.433	26.7						
	0.10	34.647	27.1						
	0.10	34.755	27.7						
	0.07	35.018	24.9						
	0.07	35.043	24.1						
	0.09	35.035	26.0						
	0.12	35.146	26.9						
	0.08	35.151	25.1						
	0.07	34.690	24.2						
	0.10	34.859	26.0						
	0.11	34.990	26.1						
	0.05	35.134	24.7						
	0.11	34.633	25.1						
	0.06	34.868	26.7						
	0.07	34.958	26.9						
	0.06	34.752	24.8						
	0.13	34.818	24.8						
	0.11	34.893	26.5						
	0.09	34.999	26.7						
	0.08	34.680	24.1						
	0.07	34.411	25.5						
	0.07	34.658	26.7						
	0.09	34.946	27.0						
	0.07	34.808	24.9						
	0.09	35.088	24.7						
	0.06	34.846	28.1						
	0.07	34.818	27.5						
	NO DATA	34.416	25.8						
	NO DATA	33.35	26.7						
	0.09	33.85	27.8						
	0.08	33.69	26.9						
	0.13	34.847	25.5						
	0.11	34.572	25.4						

0.06	34.734	27.4
0.11	34.873	27.2
0.09	34.863	24.5
0.10	34.665	25.0
0.18	34.656	26.7
0.17	34.808	26.6
0.29	34.443	24.6
0.11	34.695	26.9

SITE ID	DATE D-M-Y	TIME (2400)	PO4 (μM)	NO3 (μM)	NH4 (μM)	Si (μM)	TDP (μM)	TP (μM)	TDN (μM)
O4-4B	3-Aug-93	854	0.12	0.02	0.41	1.83			
O4-4B	8-Dec-93	905	0.06	0.09	0.10	2.24			
O4-4B	8-Mar-94	843	0.17	0.04	0.18	1.79			
O4-4B	13-Jun-94	848	0.12	0.11	0.08	5.43			
O4-4B	15-Sep-94	848	0.07	0.00	0.10	1.80			
O4-4B	15-Nov-94	806	0.12	0.16	0.51	3.45			
O4-4B	22-Mar-95	1146	0.17	0.10	0.35	2.09			
O4-4B	21-Jun-95	811	0.10	0.05	0.40	1.70			
O4-4B	28-Sep-95	1017	0.10	0.04	0.50	2.31			
O4-4B	14-Nov-95	817	0.11	0.12	0.46	2.00			
O4-4B	12-Mar-96	854	0.14	0.23	0.46	2.75			
O4-4B	14-May-96	830	0.08	0.26	0.27	2.45			
O4-4B	31-Jul-96	900	0.06	0.01	0.35	2.14			
O4-4B	2-Oct-96	843	0.06	0.04	0.18	2.35			
O4-4B	7-Jan-97	858	0.07	0.01	0.20	2.07			
O4-4B	28-Apr-97	910	0.14	0.26	0.44	4.32			
O4-4B	19-Aug-97	902	0.06	0.28	0.25	2.61			
O4-4B	7-Oct-97	1139	0.13	0.13	0.44	2.65			
O4-4B	4-Mar-98	902	0.09	0.14	0.21	3.19			
O4-4B	5-May-98	913	0.09	0.19	0.18	3.62			
O4-4B	7-Jul-98	929	0.09	0.14	0.03	6.13			
O4-4B	6-Oct-98	848	0.09	0.01	0.03	3.73			
O4-4B	19-Jan-99	909	0.07	0.04	0.08	2.42			
O4-4B	13-Apr-99	1000	0.13	0.13	0.08	2.21			
O4-4B	16-Aug-99	924	0.10	0.26	0.40	1.60			
O4-4B	25-Oct-99	1020	0.08	0.01	0.28	3.20			
O4-4B	12-Jan-00	932	0.11	0.03	0.27	3.63			
O4-4B	16-May-00	903	0.13	0.18	0.05	4.42			
O4-4B	25-Jul-00	929	0.10	0.14	0.07	2.63			
O4-4B	31-Oct-00	923	0.09	0.04	0.24	4.08			
O4-4B	6-Mar-01	915	0.15	0.10	0.06	2.30			
O4-4B	8-May-01	1013	0.14	0.11	0.13	2.41			
O4-4B	13-Aug-01	1020	0.08	0.05	0.33	2.18			
O4-4B	30-Oct-01	925	0.11	0.18	0.03	2.10			
O4-4B	4-Mar-02	951	0.15	0.13	0.02	1.81			
O4-4B	16-Apr-02	949	0.15	0.32	0.27	4.69			
O4-4B	9-Jul-02	1103	0.09	0.00	0.16	2.52			
O4-4B	7-Oct-02	945	0.05	0.02	0.25	3.53			
O4-4B	10-Mar-03	1106	0.08	0.20	0.03	2.11			
O4-4B	22-Apr-03	948	0.06	<0.03	0.06	1.53			
O4-4B	19-Aug-03	1200	0.06	<0.01	<0.20	1.20			
O4-4B	30-Oct-03	919	0.11	0.16	0.20	1.88			
O4-4B	17-Mar-04	1009	0.10	0.04	0.17	1.42			
O4-4B	24-May-04	931	0.15	0.04	0.06	1.84			
O4-4B	22-Sep-04	1000	0.06	<0.01	0.19	1.38			
O4-4B	29-Nov-04	913	0.05	0.07	0.10	1.06			
O4-4B	24-Jan-05	950	0.05	<0.01	0.10	1.89			
O4-4B	13-Apr-05	948	0.13	0.42	0.17	4.56			

O4-4B	21-Jul-05	904	0.03	<0.01	0.28	1.24
O4-4B	13-Oct-05	839	0.05	0.01	0.15	1.80
O4-4B	14-Mar-06	930	0.12	0.10	0.37	1.61
O4-4B	17-May-06	858	0.09	0.07	<0.05	1.62
O4-4B	16-Aug-06	901	0.09	0.24	0.14	1.67
O4-4B	20-Nov-06	854	0.11	0.12	0.49	1.68
O4-4B	14-Feb-07	947	0.14	0.17	0.53	2.31
O4-4B	16-Apr-07	944	0.11	0.35	0.27	2.39

TOC (mgC/L)	TURBIDITY (NTU)	SALINITY (o/oo)	TEMP/F (Deg C)	pH	DO (ppm)	Chl a (µg/L)	ecal 3act/100 m	Colifor 3act/100 ml	Enterococci 3act/100 ml
	0.06	34.454	26.8						
	0.07	34.795	25.7						
	0.06	34.250	25.0						
	0.09	34.544	25.5						
	0.07	34.654	27.6						
	0.07	34.620	26.0						
	0.11	34.215	25.1						
	0.07	34.475	26.3						
	0.07	34.608	27.4						
	0.07	34.357	26.6						
	0.07	34.184	25.0						
	0.05	34.390	26.7						
	0.07	34.493	28.2						
	0.09	34.655	28.0						
	0.07	34.756	25.5						
	0.12	34.418	26.8						
	0.11	34.663	27.1						
	0.11	34.752	27.6						
	0.07	35.028	24.9						
	0.10	35.043	24.1						
	0.07	35.033	26.0						
	0.08	35.136	27.0						
	0.08	35.142	25.1						
	0.07	34.698	24.2						
	0.10	34.853	26.0						
	0.09	35.040	26.0						
	0.05	35.146	24.7						
	0.07	34.663	25.5						
	0.08	34.866	26.7						
	0.10	34.963	26.9						
	0.08	34.760	24.8						
	0.06	34.867	24.7						
	0.10	34.893	26.5						
	0.06	35.009	26.7						
	0.11	34.673	24.2						
	0.07	34.427	25.6						
	0.07	34.660	26.7						
	0.09	34.949	27.0						
	0.14	34.859	24.8						
	0.07	35.100	24.6						
	0.04	34.834	27.9						
	0.08	34.820	27.5						
	NO DATA	34.411	25.8						
	NO DATA	33.38	26.8						
	0.07	33.80	27.8						
	0.05	33.69	26.9						
	0.09	34.845	25.5						
	0.13	34.439	25.4						

0.10	34.760	27.4
0.15	34.893	27.1
0.06	34.853	24.5
0.11	34.679	24.9
0.07	34.692	26.6
0.12	34.805	26.8
0.27	34.446	24.6
0.13	34.664	25.9

SITE ID	DATE D-M-Y	TIME (2400)	PO4 (μM)	NO3 (μM)	NH4 (μM)	Si (μM)	TDP (μM)	TP (μM)
O4-5B	3-Aug-93	842	0.12	0.03	0.46	1.97		
O4-5B	8-Dec-93	856	0.07	0.07	0.17	2.05		
O4-5B	8-Mar-94	836	0.17	0.04	0.17	1.88		
O4-5B	13-Jun-94	839	0.13	0.09	0.06	17.5		
O4-5B	15-Sep-94	842	0.07	0.01	0.19	2.04		
O4-5B	15-Nov-94	802	0.11	0.09	0.51	2.74		
O4-5B	22-Mar-95	1138	0.17	0.08	0.35	1.84		
O4-5B	21-Jun-95	810	0.10	0.08	0.38	1.07		
O4-5B	28-Sep-95	1026	0.09	0.00	0.48	1.98		
O4-5B	14-Nov-95	811	0.11	0.07	0.46	1.80		
O4-5B	12-Mar-96	850	0.13	0.13	0.52	2.83		
O4-5B	14-May-96	824	0.08	0.26	0.27	1.40		
O4-5B	31-Jul-96	842	0.06	0.00	0.35	2.40		
O4-5B	2-Oct-96	837	0.06	0.07	0.21	2.40		
O4-5B	7-Jan-97	852	0.06	0.01	0.17	1.50		
O4-5B	28-Apr-97	905	0.17	0.39	0.32	6.98		
O4-5B	19-Aug-97	857	0.07	0.39	0.32	3.55		
O4-5B	7-Oct-97	1132	0.12	0.13	0.41	2.81		
O4-5B	4-Mar-98	857	0.09	0.14	0.23	2.64		
O4-5B	5-May-98	905	0.10	0.29	0.18	3.49		
O4-5B	7-Jul-98	923	0.11	0.20	0.03	3.15		
O4-5B	6-Oct-98	841	0.09	0.04	0.04	2.31		
O4-5B	19-Jan-99	902	0.07	0.08	0.19	2.26		
O4-5B	13-Apr-99	954	0.21	0.33	0.23	3.04		
O4-5B	16-Aug-99	915	0.10	0.10	0.44	1.64		
O4-5B	25-Oct-99	1015	0.09	0.08	0.31	5.57		
O4-5B	12-Jan-00	925	0.11	0.03	0.30	2.20		
O4-5B	16-May-00	857	0.14	0.33	0.10	3.30		
O4-5B	25-Jul-00	925	0.09	0.12	0.05	2.98		
O4-5B	31-Oct-00	917	0.09	0.02	0.31	2.24		
O4-5B	6-Mar-01	909	0.15	0.16	0.08	2.60		
O4-5B	8-May-01	1008	0.13	0.04	0.18	2.25		
O4-5B	13-Aug-01	1016	0.09	0.03	0.33	2.41		
O4-5B	30-Oct-01	920	0.14	0.18	0.05	2.17		
O4-5B	4-Mar-02	945	0.12	0.07	0.01	2.76		
O4-5B	16-Apr-02	945	0.15	0.24	0.28	6.78		
O4-5B	9-Jul-02	1058	0.10	0.01	0.28	2.41		
O4-5B	7-Oct-02	940	0.11	0.03	0.26	2.56		
O4-5B	10-Mar-03	1059	0.06	0.07	<0.03	1.24		
O4-5B	22-Apr-03	942	0.06	<0.03	<0.03	1.39		
O4-5B	19-Aug-03	1146	0.06	0.01	<0.20	1.28		
O4-5B	30-Oct-03	912	0.10	0.38	0.20	1.90		
O4-5B	17-Mar-04	1003	0.11	0.06	0.25	1.33		
O4-5B	24-May-04	925	0.15	0.18	0.06	3.52		
O4-5B	22-Sep-04	950	0.06	<0.01	0.20	1.31		
O4-5B	29-Nov-04	910	0.05	0.03	0.12	0.99		
O4-5B	24-Jan-05	943	0.05	<0.01	0.16	1.67		
O4-5B	13-Apr-05	942	0.13	0.30	0.20	2.57		

O4-5B	21-Jul-05	858	0.04	<0.01	0.30	1.45
O4-5B	13-Oct-05	830	0.05	0.01	0.18	2.36
O4-5B	14-Mar-06	922	0.09	<0.07	0.29	1.46
O4-5B	17-May-06	851	0.09	0.13	<0.05	1.44
O4-5B	16-Aug-06	854	0.08	0.12	0.15	1.42
O4-5B	20-Nov-06	848	0.10	0.12	0.59	1.67
O4-5B	14-Feb-07	939	0.12	0.13	0.26	1.03
O4-5B	16-Apr-07	935	0.11	<0.07	0.36	1.65

TDN (µM)	TOC (mgC/L)	TURBIDITY (NTU)	SALINITY (o/oo)	TEMP/F (Deg C)	pH	DO (ppm)	Chl a (µg/L)	ecal Bact/100 m	Colifor Bact/100 ml	Enterococci Bact/100 ml
		0.06	34.476	26.8						
		0.06	34.799	25.7						
		0.14	34.248	25.1						
		0.11	34.561	25.5						
		0.08	34.653	27.6						
		0.07	34.629	26.0						
		0.11	34.224	25.1						
		0.07	34.477	26.2						
		0.13	34.614	27.4						
		0.08	34.360	26.6						
		0.08	34.222	25.1						
		0.08	34.434	26.4						
		0.07	34.495	27.8						
		0.10	34.655	28.0						
		0.10	34.753	25.5						
		0.14	34.442	26.7						
		0.13	34.668	27.1						
		0.15	34.750	27.6						
		0.14	35.029	24.9						
		0.15	35.055	24.1						
		0.13	35.014	26.1						
		0.17	35.137	26.9						
		0.12	35.148	25.1						
		0.09	34.681	24.2						
		0.16	34.873	25.9						
		0.13	35.050	26.0						
		0.06	35.151	24.7						
		0.10	34.673	25.1						
		0.08	34.873	26.7						
		0.14	34.968	27.0						
		0.08	34.742	24.8						
		0.06	34.891	24.7						
		0.12	34.897	26.4						
		0.14	35.011	26.7						
		0.07	34.683	24.2						
		0.09	34.442	25.6						
		0.10	34.661	26.7						
		0.09	34.945	27.0						
		0.11	34.938	24.7						
		0.06	35.088	24.6						
		0.05	34.863	27.9						
		0.09	34.819	27.4						
		NO DATA	34.434	25.8						
		NO DATA	33.37	26.8						
		0.06	33.79	27.8						
		0.09	33.66	26.9						
		0.09	34.853	25.6						
		0.08	34.482	25.4						

0.06	34.871	27.4
0.12	34.768	27.3
0.07	34.854	24.4
0.09	34.672	25.3
0.15	34.714	26.5
0.11	34.804	27.0
0.18	34.443	24.6
0.15	34.697	26.1

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
Geomear 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
Geomear 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
Geomear 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
Geomear 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
Geomear 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

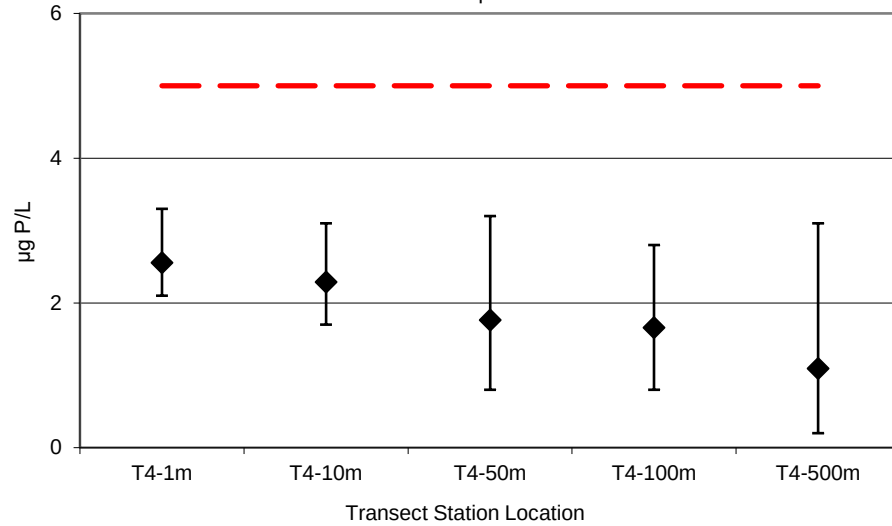
NELHA Water Quality Laboratory

Transect 4

July 2018 - June 2019

Transect 4 Station Summary

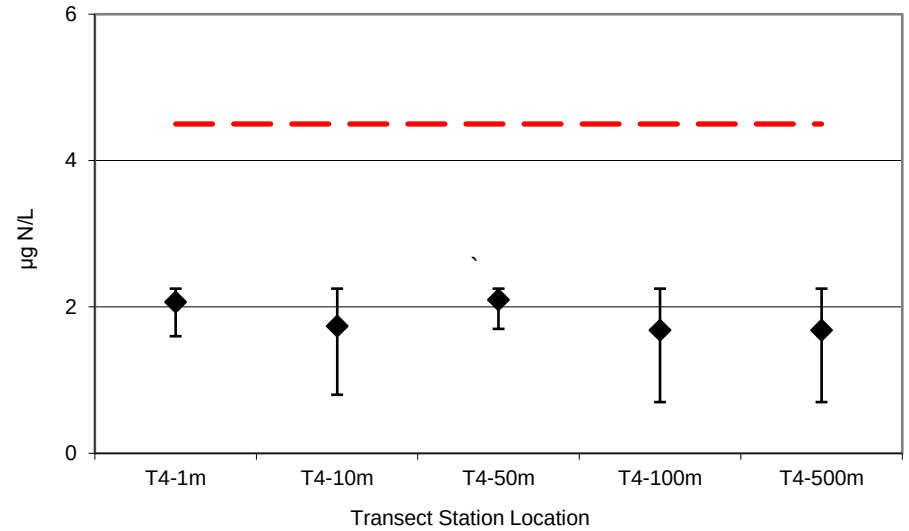
Ortho-Phosphate Geometric Mean



◆ Transect 4, July 2019 - June 2020

Transect 4 Station Summary

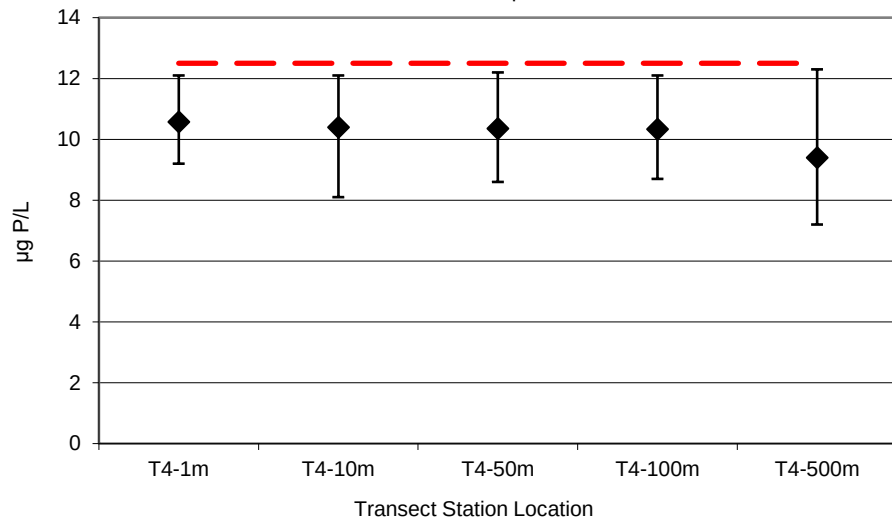
Nitrate + Nitrite Geometric Mean



◆ Transect 4, July 2019 - June 2020

Transect 4 Station Summary

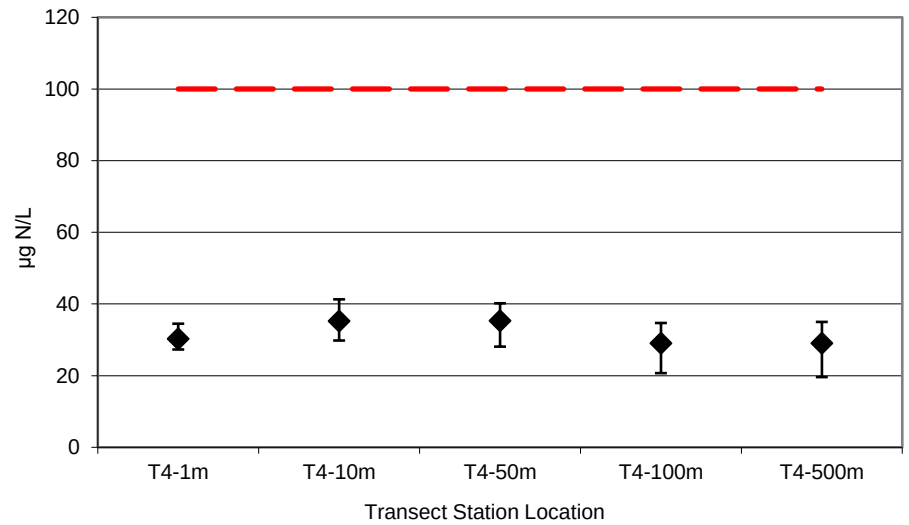
Total Dissolved Phosphorous Geometric Mean



◆ Transect 4, July 2019 - June 2020

Transect 4 Station Summary

Total Dissolved Nitrogen Geometric Mean



◆ Transect 4, July 2019 - June 2020

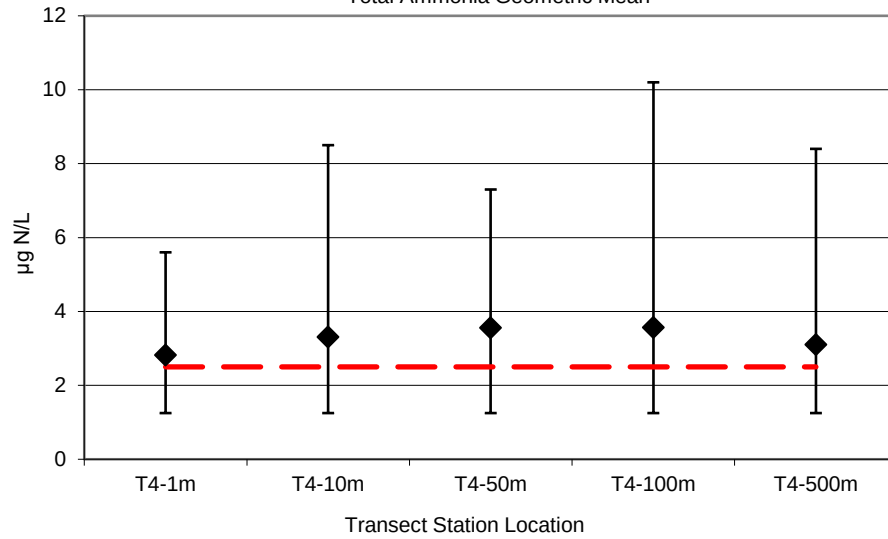
NELHA Water Quality Laboratory

Transect 4

July 2018 - June 2019

Transect 4 Station Summary

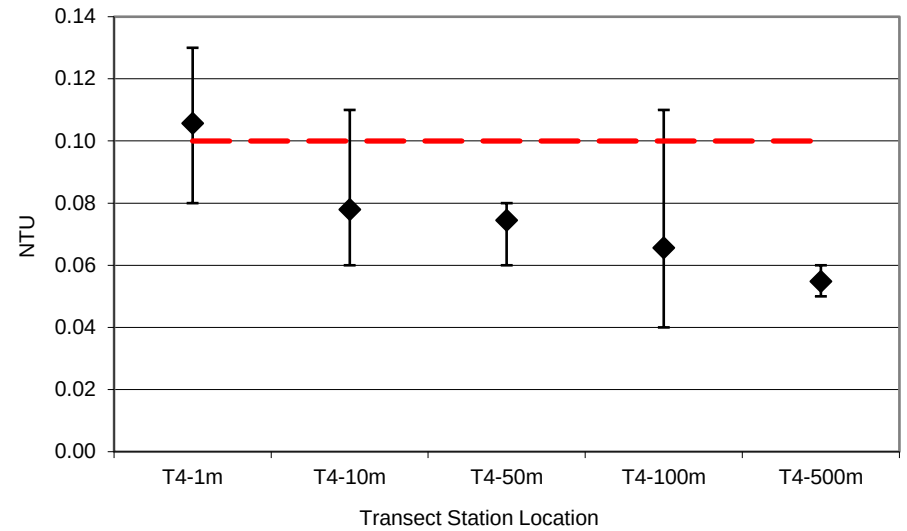
Total Ammonia Geometric Mean



◆ Transect 4, July 2019 - June 2020

Transect 4 Station Summary

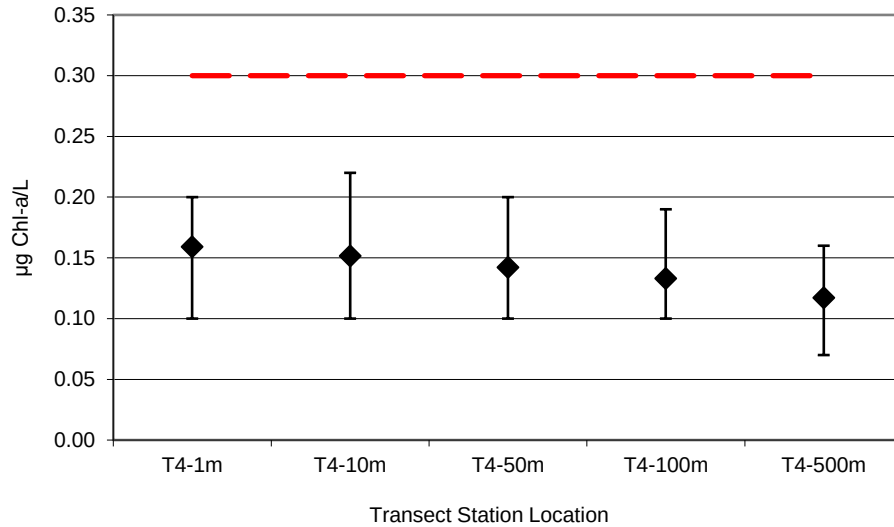
Turbidity Geometric Mean



◆ Transect 4, July 2019 - June 2020

Transect 4 Station Summary

Chlorophyll-a Geometric Mean



◆ Transect 4, July 2019 - June 2020

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	#####	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
Geomear 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	#####	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
Geomear 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	#####	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
Geomear 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	#####	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
Geomear 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	#####	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
Geomear 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

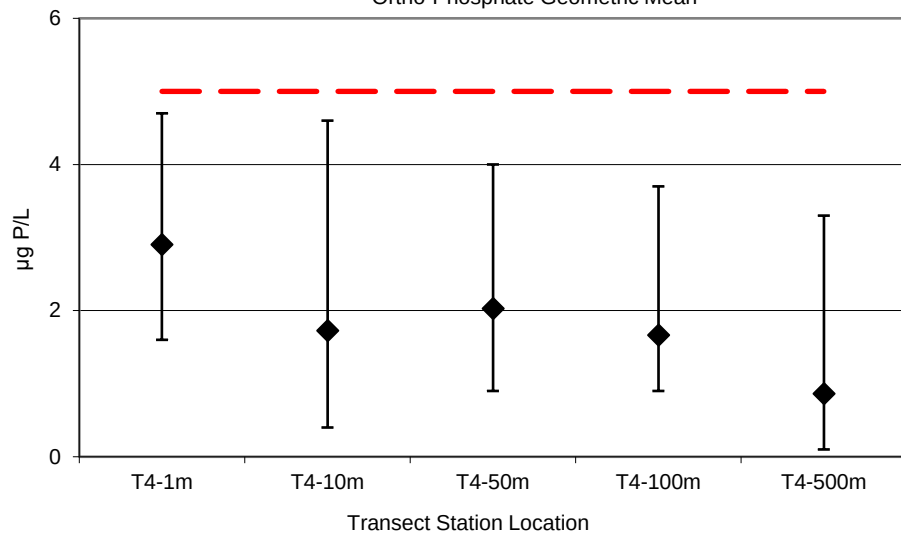
NELHA Water Quality Laboratory

Transect 4

Julv 2018 - June 2019

Transect 4 Station Summary

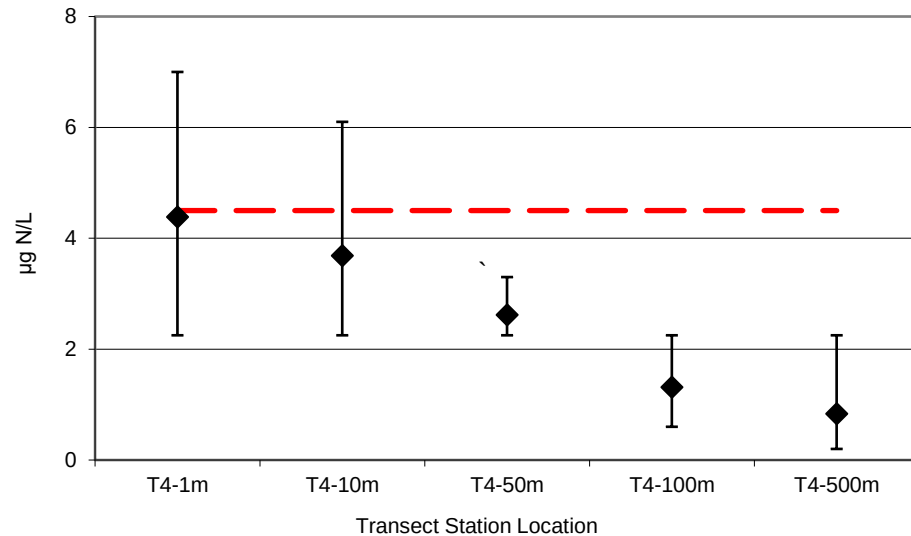
Ortho-Phosphate Geometric Mean



◆ Transect 4, July 2018 - June 2019

Transect 4 Station Summary

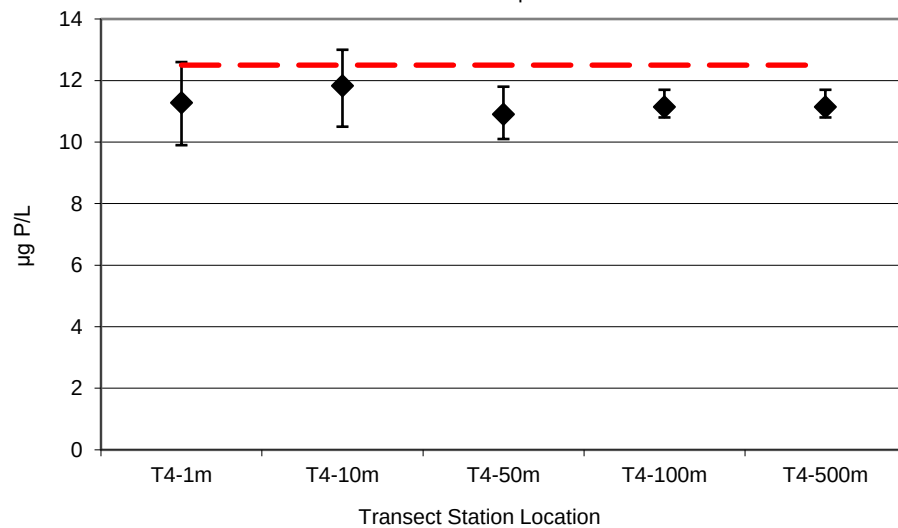
Nitrate + Nitrite Geometric Mean



◆ Transect 4, July 2018 - June 2019

Transect 4 Station Summary

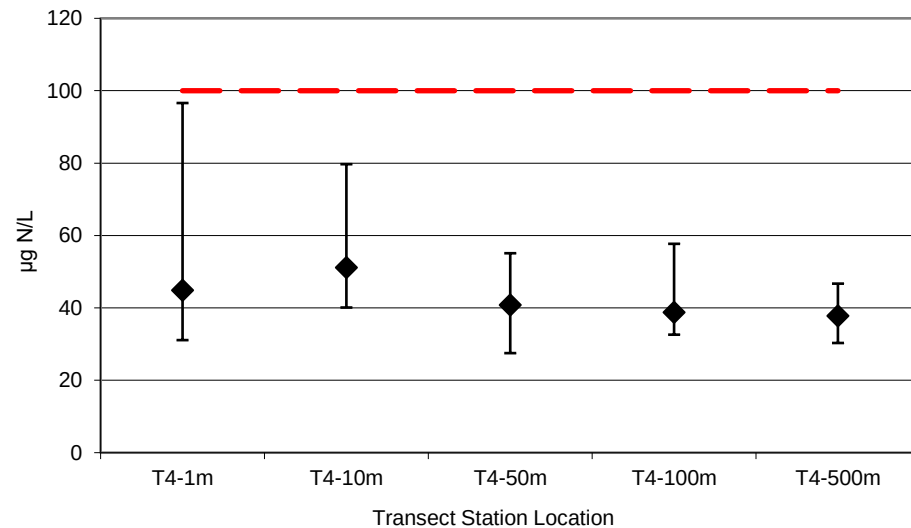
Total Dissolved Phosphorous Geometric Mean



◆ Transect 4, July 2018 - June 2019

Transect 4 Station Summary

Total Dissolved Nitrogen Geometric Mean



◆ Transect 4, July 2018 - June 2019

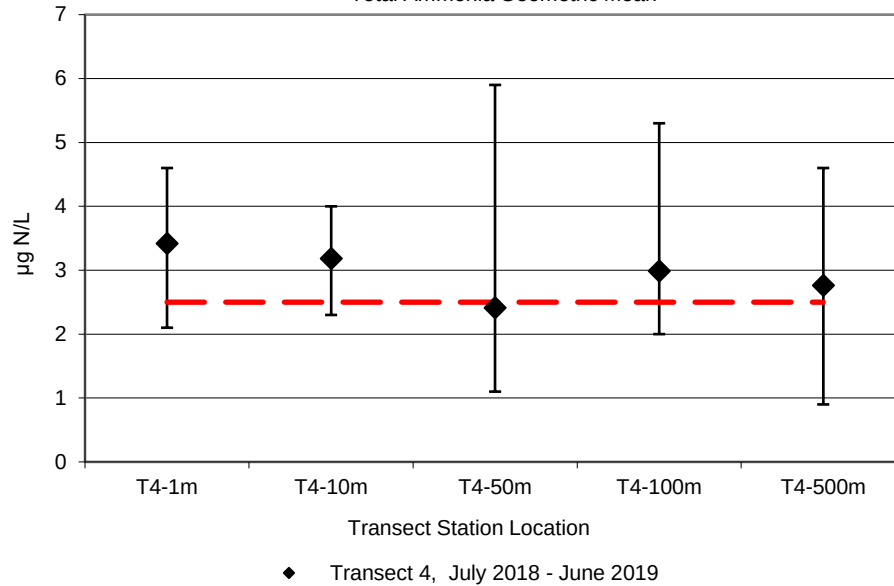
NELHA Water Quality Laboratory

Transect 4

July 2018 - June 2019

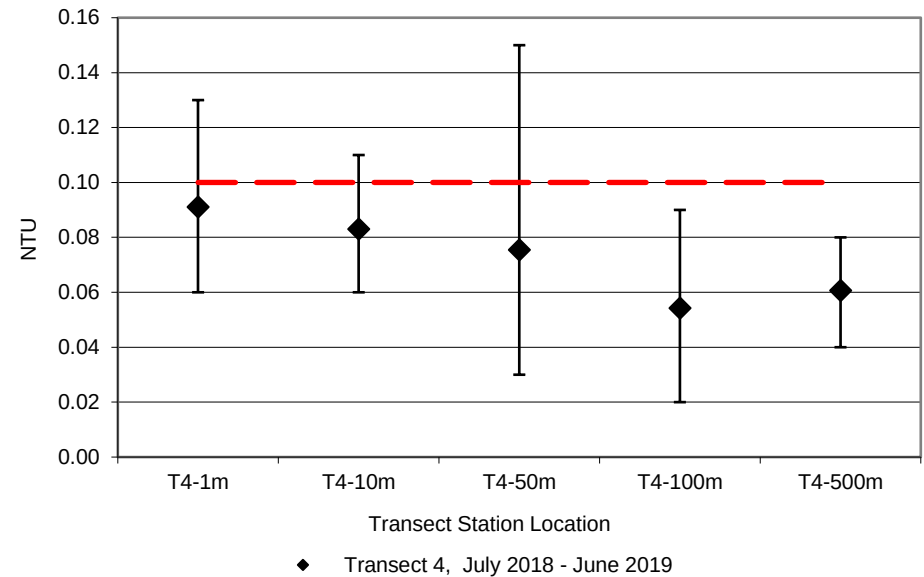
Transect 4 Station Summary

Total Ammonia Geometric Mean



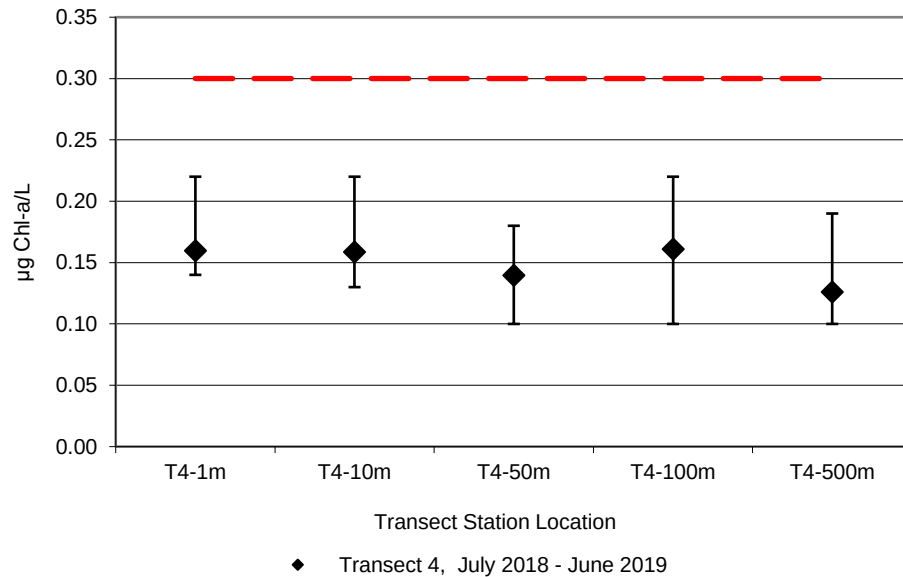
Transect 4 Station Summary

Turbidity Geometric Mean



Transect 4 Station Summary

Chlorophyll-a Geometric Mean



NELHA Water Quality Laboratory

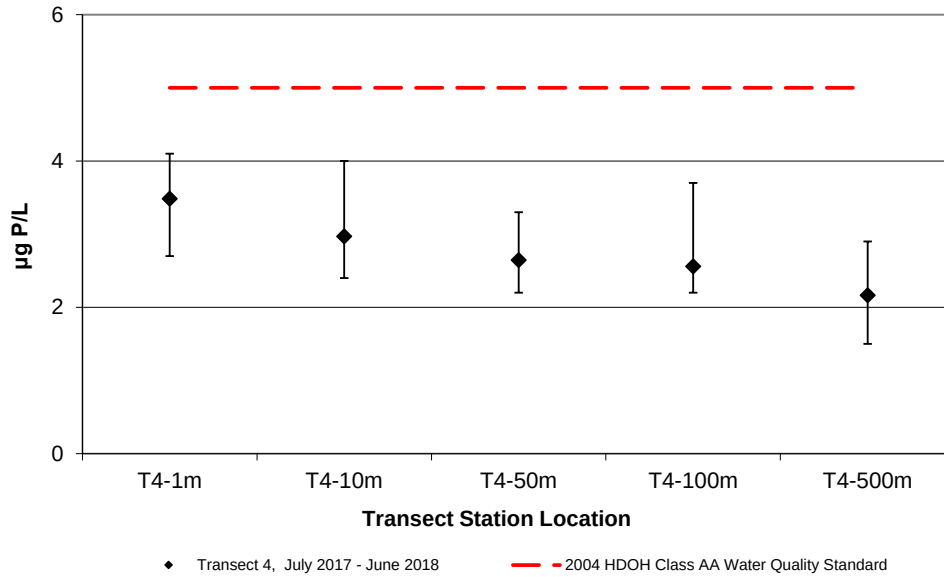
Transect 4

July 2017 - June 2018

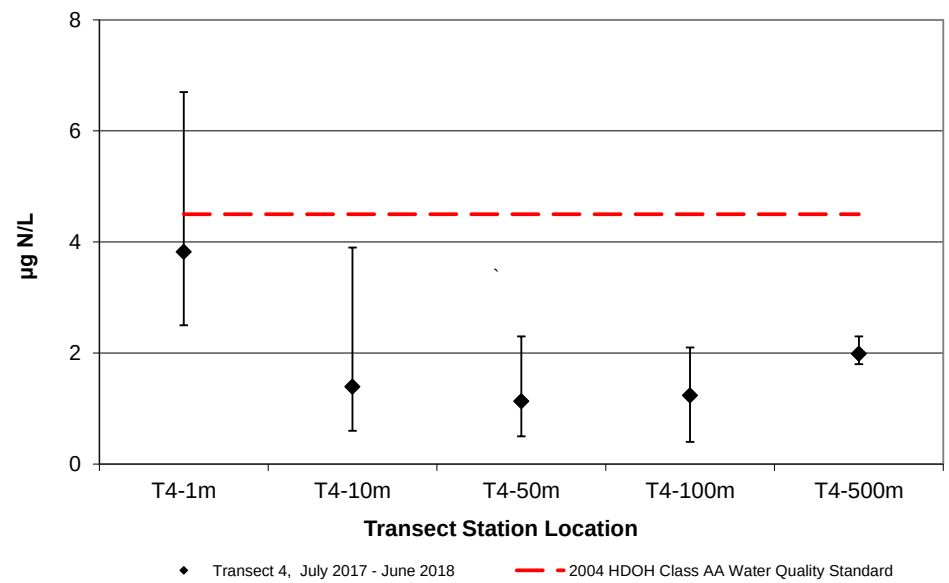
SITE ID	DATE M/D/Y	TIME (2400)	Tide (ft) (cycle)		PO ₄ ³⁻ (μM) (μg P/L)		NO ₃ ⁻ & NO ₂ ⁻ (μM) (μg N/L)		NH ₄ ⁺ & NH ₃ (μM) (μg N/L)		Si (μM) (μg Si/L)		TDP (μM) (μg P/L)		TDN (μM) (μg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (μg/L)
DOH LIMIT					0.16	5	0.32	4.5	0.18	2.5			0.40	12.5	7.1	100	0.10					0.30
T4-1m	9/28/17	923	1.5	Flood	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	0.8	Flood	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	1.2	Ebb	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	-0.3	Ebb	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				0.11	3.5	0.27	3.8	0.3	4.3	1.4	38.7	0.4	11.7	3.6	51	0.10					0.10
T4-10m	9/28/17	931	1.5	Flood	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	0.8	Flood	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	1.2	Ebb	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	-0.3	Ebb	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				0.10	3.0	0.10	1.4	0.27	3.8	1.2	32.6	0.38	11.8	3.1	43	0.07					0.11
T4-50m	9/28/17	936	1.5	Flood	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	0.8	Flood	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	1.2	Ebb	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	-0.3	Ebb	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				0.09	2.6	0.08	1.1	0.18	2.6	0.9	24.1	0.37	11.3	2.7	38	0.06					0.10
T4-100m	9/28/17	941	1.5	Flood	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	0.8	Flood	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	1.2	Ebb	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	-0.3	Ebb	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				0.08	2.6	0.09	1.2	0.17	2.4	0.9	25.1	0.34	10.5	3.1	43	0.05					0.09
T4-500m	9/28/17	948	1.5	Flood	0.09	2.9	0.13	1.8	0.08	1.1	0.2	5	0.39	12.1	3.86	54	0.04	34.86	28.2	8.17	4.85	0.09
T4-500m	11/30/17	937	0.8	Flood	0.08	2.4	0.15	2.1	0.31	4.4	1.1	32	0.36	11.2	3.54	50	0.05	35.21	26.5	8.21	5.57	0.13
T4-500m	2/6/18	1016	1.2	Ebb	0.05	1.5	0.13	1.8	0.37	5.2	0.4	11	0.33	10.2	4.04	57	0.08	34.91	25.1	8.16	5.74	0.04
T4-500m	5/17/18	951	-0.3	Ebb	0.07	2.1	0.16	2.3	0.14	2.0	0.9	25	0.35	10.8	2.20	31	0.02	34.87	26.3	8.16	6.39	0.09
Geomean	FY '18				0.07	2.2	0.14	2.0	0.19	2.7	0.5	14.0	0.36	11.1	3.3	47	0.04					0.08

NELHA Water Quality Laboratory
Transect 4
July 2017 - June 2018

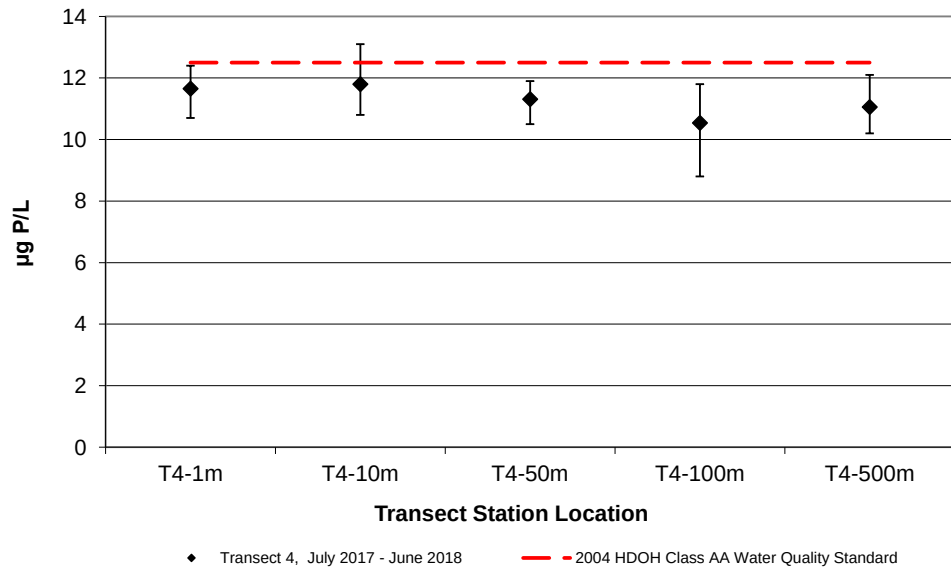
Transect 4 Station Summary
Ortho-Phosphate Geometric Mean



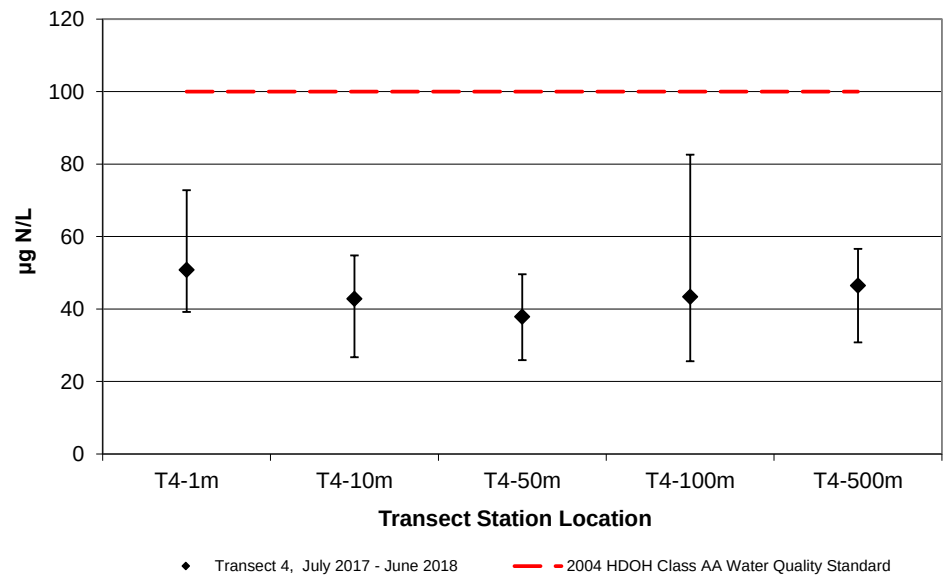
Transect 4 Station Summary
Nitrate + Nitrite Geometric Mean



Transect 4 Station Summary
Total Dissolved Phosphorous Geometric Mean



Transect 4 Station Summary
Total Dissolved Nitrogen Geometric Mean



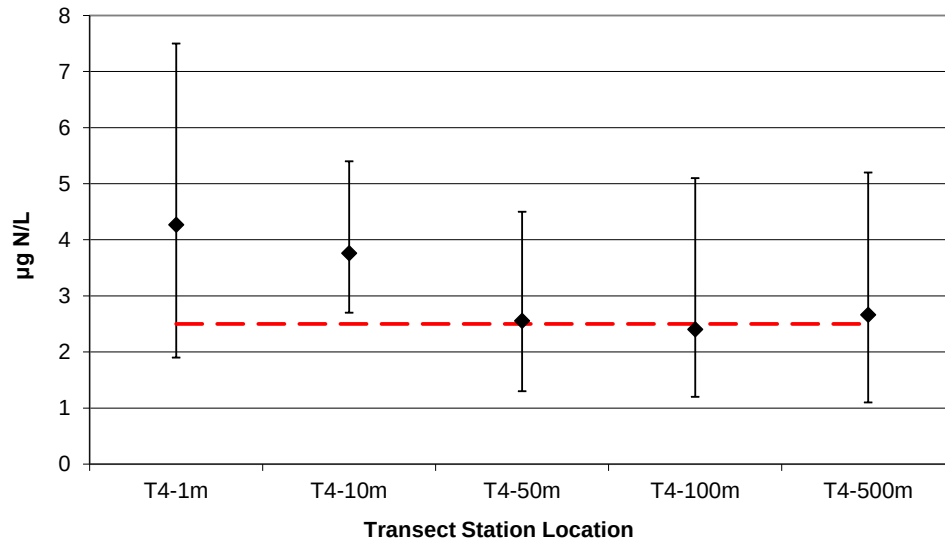
NELHA Water Quality Laboratory

Transect 4

July 2017 - June 2018

Transect 4 Station Summary

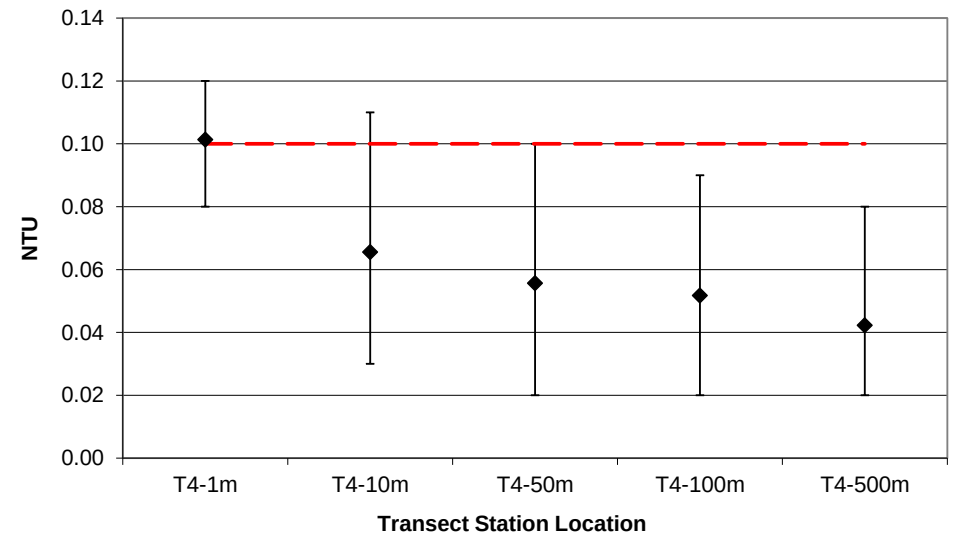
Total Ammonia Geometric Mean



◆ Transect 4, July 2017 - June 2018 - - - 2004 HDOH Class AA Water Quality Standard

Transect 4 Station Summary

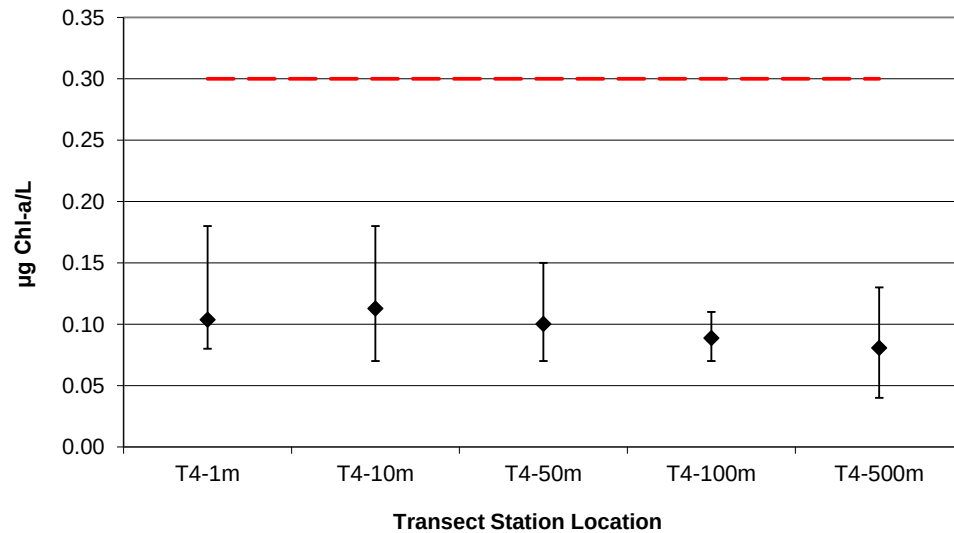
Turbidity Geometric Mean



◆ Transect 4, July 2017 - June 2018 - - - 2004 HDOH Class AA Water Quality Standard

Transect 4 Station Summary

Chlorophyll-a Geometric Mean



◆ Transect 4, July 2017 - June 2018 - - - 2004 HDOH Class AA Water Quality Standard

NELHA Water Quality Laboratory

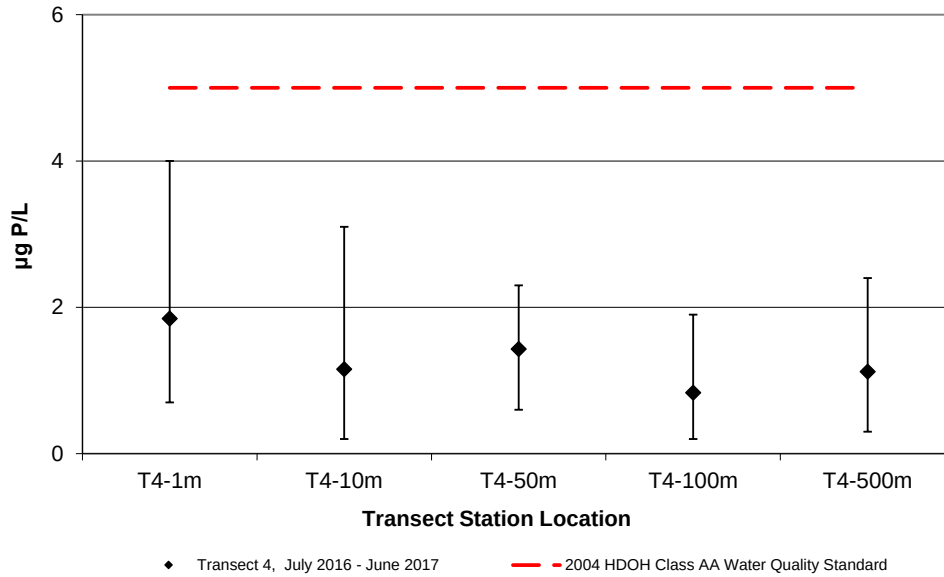
Transect 4

July 2016 - June 2017

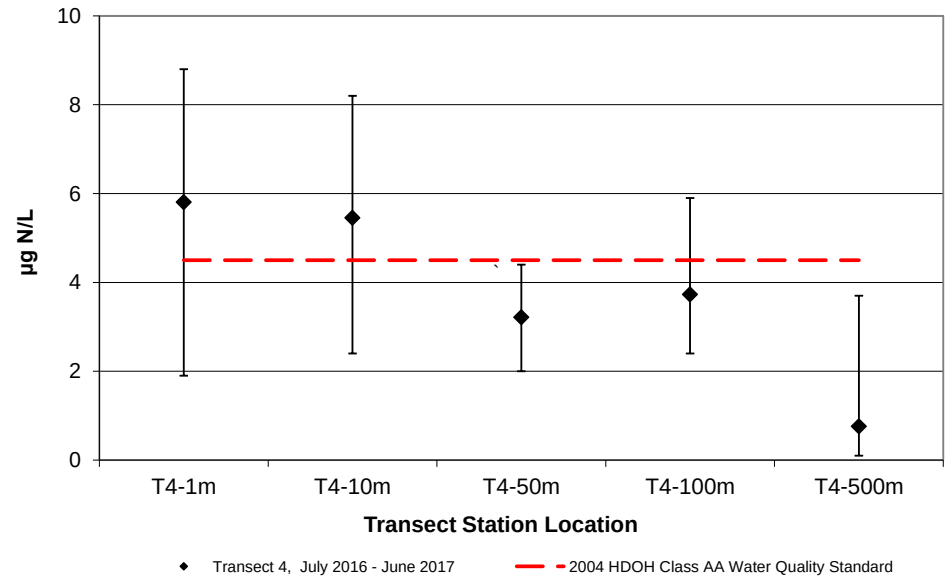
SITE ID	DATE M/D/Y	TIME (2400)	Tide (ft) (cycle)	PO ₄ ³⁻ (μM) (μg P/L)		NO ₃ ⁻ & NO ₂ ⁻ (μM) (μg N/L)		NH ₄ ⁺ & NH ₃ (μM) (μg N/L)		Si (μM) (μg Si/L)		TDP (μM) (μg P/L)		TDN (μM) (μg N/L)		Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (μg/L)
DOH LIMIT				0.16	5	0.32	4.5	0.18	2.5			0.40	12.5	7.1	100	0.10					0.30
T4-1m	7/7/16	930	0.4 Ebb	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	1.5 Flood	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	0.0 Low	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	0.0 Flood	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			0.06	1.8	0.41	5.8	0.2	2.7	1.6	45.0	0.3	10.3	4.3	60	0.08					0.12
T4-10m	7/7/16	935	0.4 Ebb	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	1.5 Flood	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	0.0 Low	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	0.0 Flood	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			0.04	1.2	0.39	5.5	0.19	2.7	1.2	34.2	0.35	10.7	3.5	49	0.08					0.15
T4-50m	7/7/16	941	0.4 Ebb	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	1.5 Flood	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	0.0 Low	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	0.0 Flood	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			0.05	1.4	0.23	3.2	0.05	0.8	0.7	20.3	0.32	9.8	3.0	42	0.07					0.15
T4-100m	7/7/16	947	0.4 Ebb	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	1.5 Flood	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	0.0 Low	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	0.0 Flood	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			0.03	0.8	0.27	3.7	0.12	1.7	0.9	25.6	0.32	9.9	4.5	63	0.06					0.13
T4-500m	7/7/16	955	0.4 Ebb	0.06	2.0	0.26	3.7	0.21	2.9	0.6	16	0.47	14.7	2.76	39	0.11	34.71	27.1	8.33	6.71	0.33
T4-500m	12/21/16	1000	1.5 Flood	0.04	1.1	0.06	0.9	0.49	6.9	1.2	33	0.33	10.1	2.57	36	0.05	34.67	25.6	8.27	5.96	0.14
T4-500m	3/1/17	1033	0.0 Low	0.01	0.3	0.07	1.0	0.01	0.2	0.2	6	0.28	8.7	3.84	54	0.09	34.72	24.6	8.23	6.21	0.20
T4-500m	5/10/17	1052	0.0 Flood	0.08	2.4	0.01	0.1	0.16	2.3	0.2	5	0.21	6.5	2.36	33	0.09	34.85	26.1	8.23	4.05	0.05
Geomean	FY '17			0.04	1.1	0.05	0.8	0.12	1.7	0.4	10.9	0.31	9.6	2.8	40	0.08					0.15

NELHA Water Quality Laboratory
Transect 4
 July 2016 - June 2017

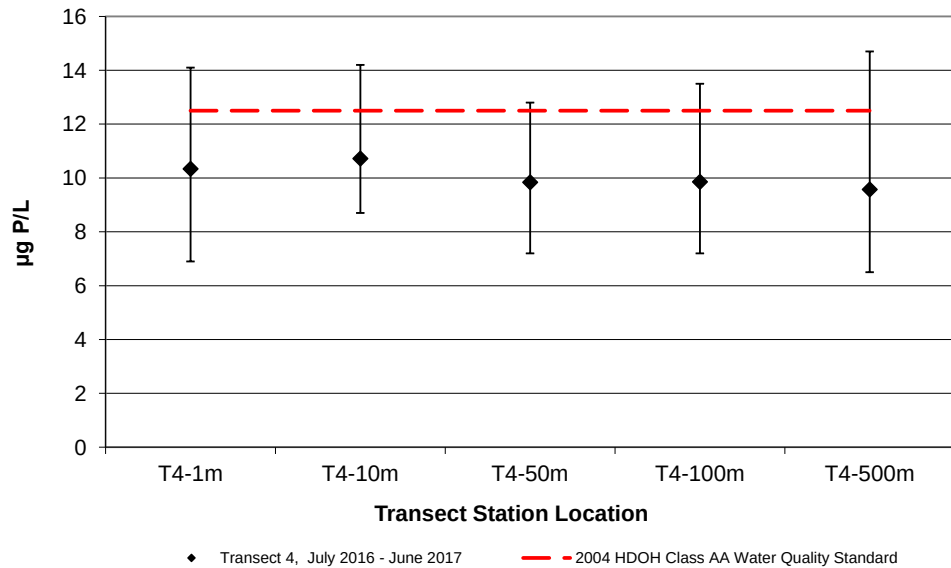
Transect 4 Station Summary
 Ortho-Phosphate Geometric Mean



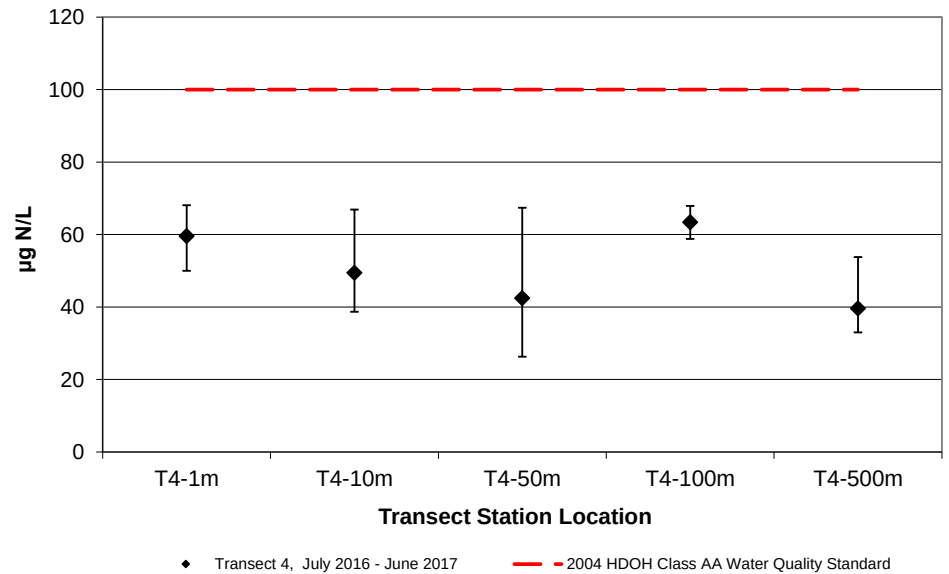
Transect 4 Station Summary
 Nitrate + Nitrite Geometric Mean



Transect 4 Station Summary
 Total Dissolved Phosphorous Geometric Mean



Transect 4 Station Summary
 Total Dissolved Nitrogen Geometric Mean



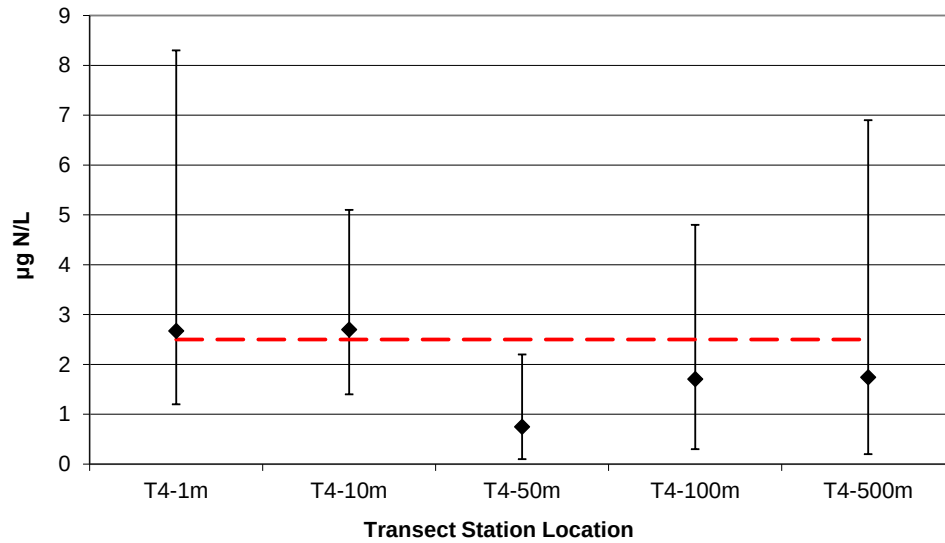
NELHA Water Quality Laboratory

Transect 4

July 2016 - June 2017

Transect 4 Station Summary

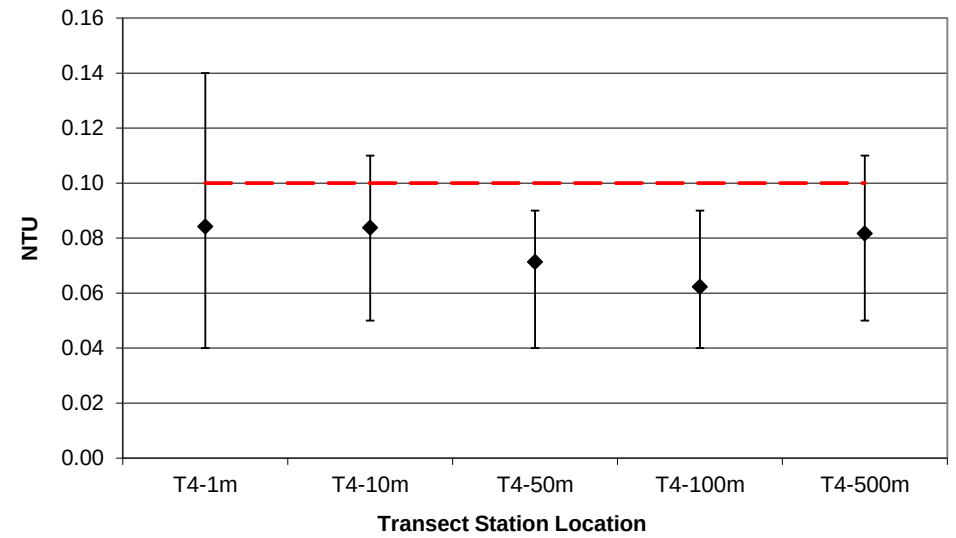
Total Ammonia Geometric Mean



◆ Transect 4, July 2016 - June 2017 - - - 2004 HDOH Class AA Water Quality Standard

Transect 4 Station Summary

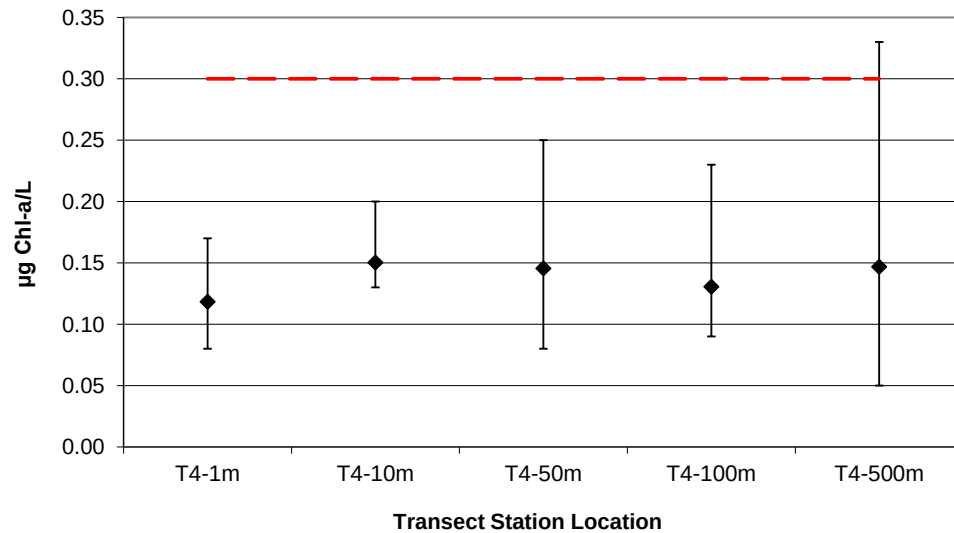
Turbidity Geometric Mean



◆ Transect 4, July 2016 - June 2017 - - - 2004 HDOH Class AA Water Quality Standard

Transect 4 Station Summary

Chlorophyll-a Geometric Mean



◆ Transect 4, July 2016 - June 2017 - - - 2004 HDOH Class AA Water Quality Standard

NELHA Water Quality Laboratory

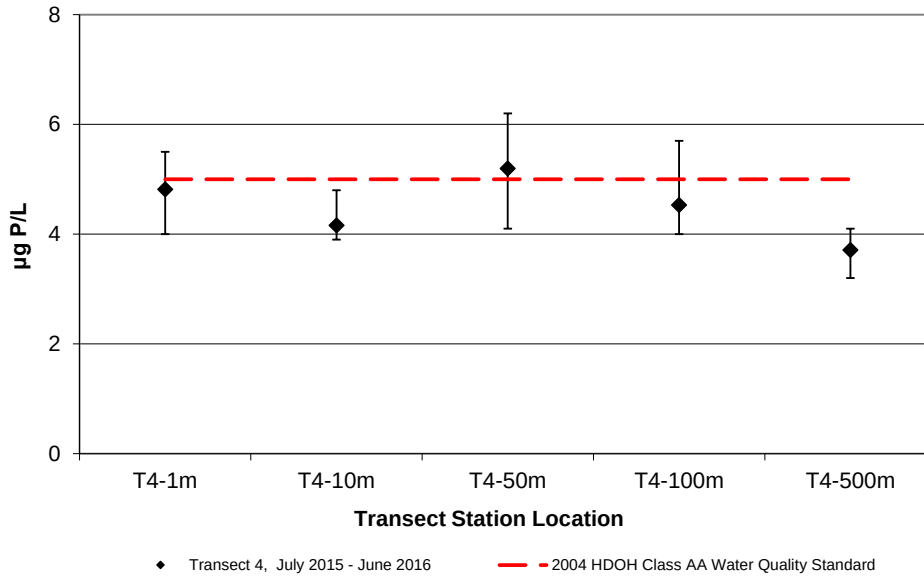
Transect 4

July 2015 - June 2016

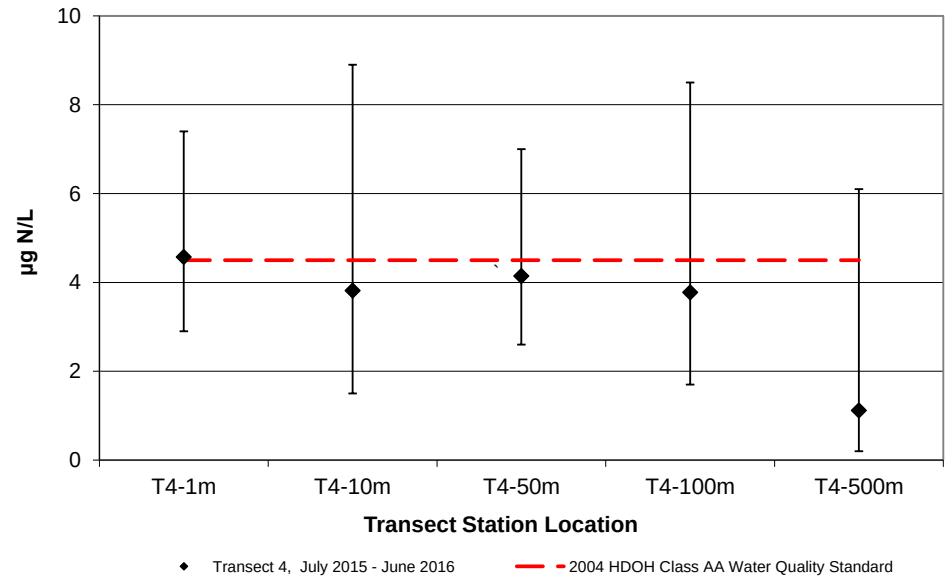
SITE ID	DATE M/D/Y	TIME (2400)	Tide (ft) (cycle)	PO ₄ ³⁻ (μM) (μg P/L)	NO ₃ ⁻ & NO ₂ ⁻ (μM) (μg N/L)	NH ₄ ⁺ & NH ₃ (μM) (μg N/L)	Si (μM) (μg Si/L)	TDP (μM) (μg P/L)	TDN (μM) (μg N/L)	Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (μg/L)							
DOH LIMIT				0.16	5	0.32	4.5	0.18	2.5		0.40	12.5	7.1	100	0.10					0.30		
T4-1m	8/29/15	933	-0.2	Low	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	1.9	High	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	0.8	Flood	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	-0.2	Flood	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				0.16	4.8	0.33	4.6	0.2	3.0			0.4	12.9	6.2	87	0.08					0.17
T4-10m	8/29/15	936	-0.2	Low	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	1.9	High	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	0.8	Flood	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	-0.2	Flood	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				0.13	4.2	0.27	3.8	0.21	2.9			0.35	10.7	5.3	75	0.07					0.15
T4-50m	8/29/15	940	-0.2	Low	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	1.9	High	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	0.8	Flood	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	-0.2	Flood	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				0.17	5.2	0.30	4.1	0.29	4.0			0.43	13.3	5.4	75	0.04					0.10
T4-100m	8/29/15	945	-0.2	Low	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	1.9	High	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	0.8	Flood	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	-0.2	Flood	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				0.15	4.5	0.27	3.8	0.18	2.5			0.44	13.6	4.4	62	0.06					0.14
T4-500m	8/29/15	951	-0.2	Low	0.12	3.7	0.03	0.4	0.18	2.5	1.1	31	0.39	12.2	4.80	67	0.03	34.65	28.6	8.24	5.91	0.14
T4-500m	11/18/15	1050	1.9	High	0.10	3.2	0.44	6.1	0.26	3.7	3.3	93	0.48	15.0	4.32	61	0.04	34.55	27.2	8.22	6.68	0.06
T4-500m	3/2/16	859	0.8	Flood	0.13	3.9	0.23	3.2	0.38	5.3	0.9	26	0.45	13.9	4.11	58	0.06	34.76	25.3	8.24	5.74	0.10
T4-500m	5/4/16	950	-0.2	Flood	0.13	4.1	0.01	0.2	0.23	3.2	0.2	4	0.41	12.6	6.43	90	0.08	34.67	26.0	8.19	6.40	0.13
Geomean	FY '16				0.12	3.7	0.08	1.1	0.25	3.5			0.43	13.4	4.8	68	0.05					0.10

NELHA Water Quality Laboratory
Transect 4
July 2015 - June 2016

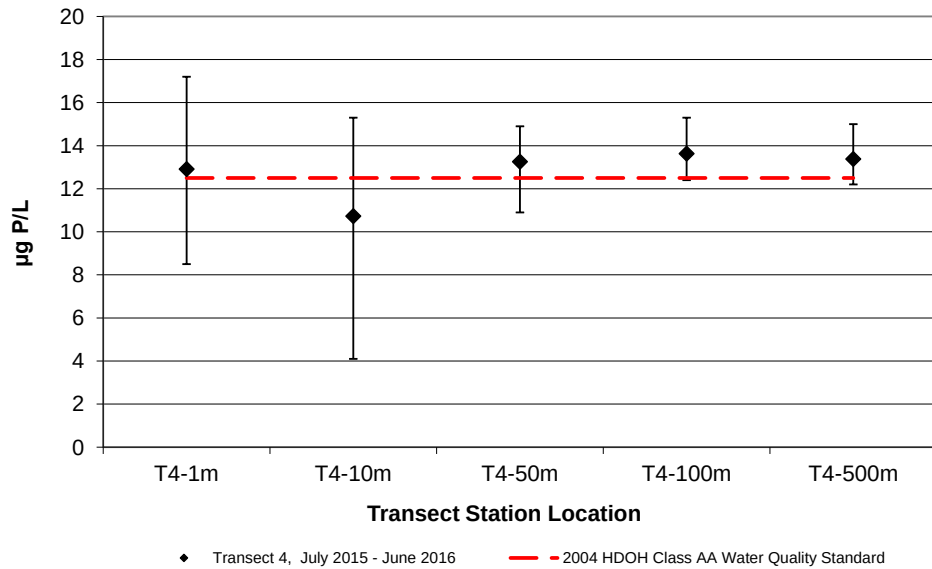
Transect 4 Station Summary
Ortho-Phosphate Geometric Mean



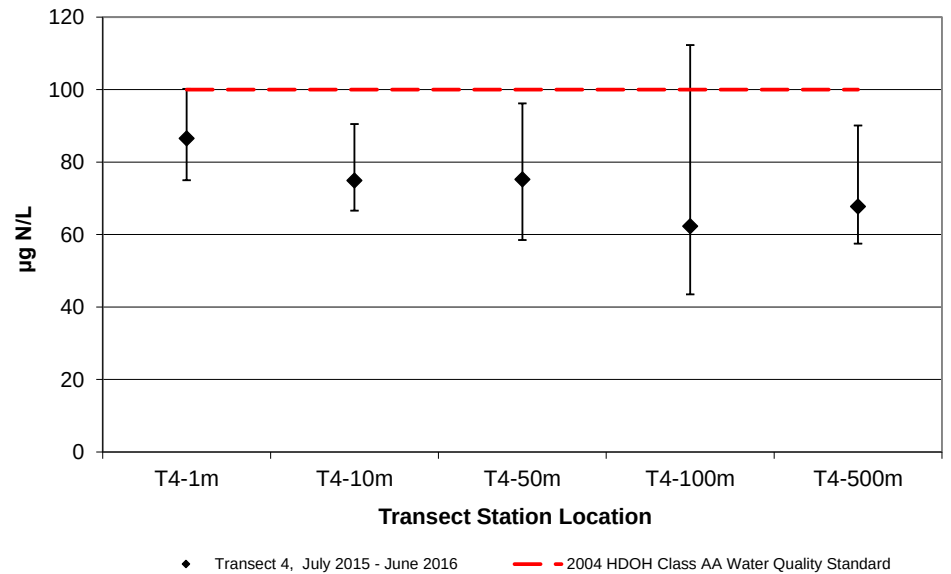
Transect 4 Station Summary
Nitrate + Nitrite Geometric Mean



Transect 4 Station Summary
Total Dissolved Phosphorous Geometric Mean

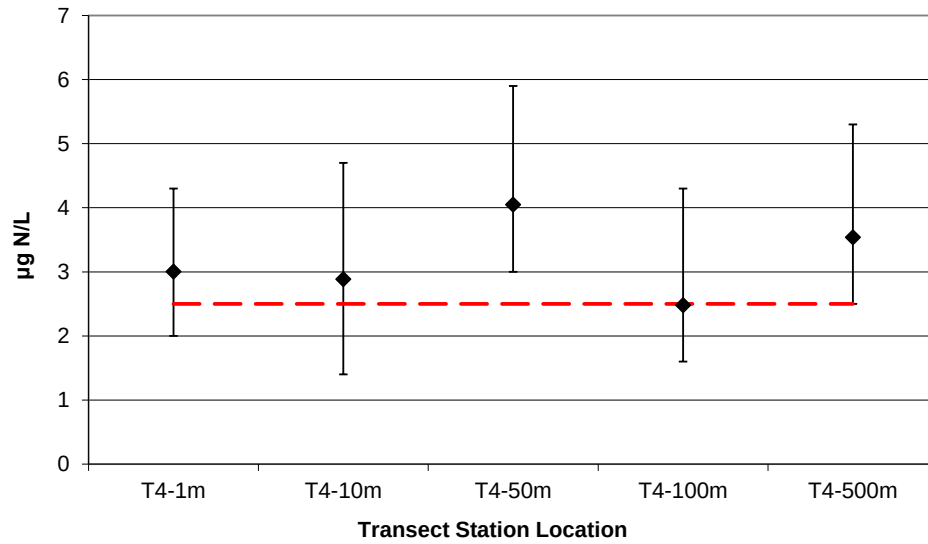


Transect 4 Station Summary
Total Dissolved Nitrogen Geometric Mean



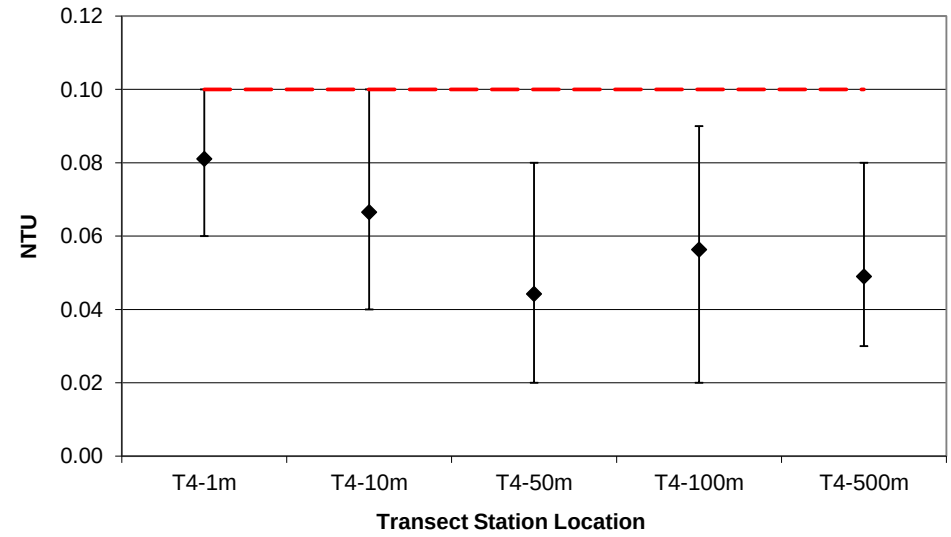
NELHA Water Quality Laboratory
Transect 4
July 2015 - June 2016

Transect 4 Station Summary
Total Ammonia Geometric Mean



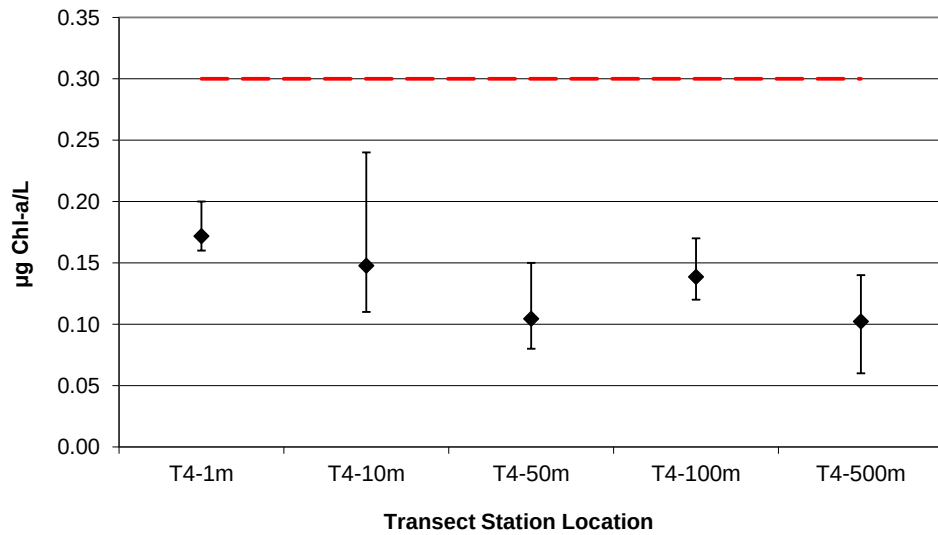
◆ Transect 4, July 2015 - June 2016 - - - 2004 HDOH Class AA Water Quality Standard

Transect 4 Station Summary
Turbidity Geometric Mean



◆ Transect 4, July 2015 - June 2016 - - - 2004 HDOH Class AA Water Quality Standard

Transect 4 Station Summary
Chlorophyll-a Geometric Mean



◆ Transect 4, July 2015 - June 2016 - - - 2004 HDOH Class AA Water Quality Standard

NELHA Water Quality Laboratory

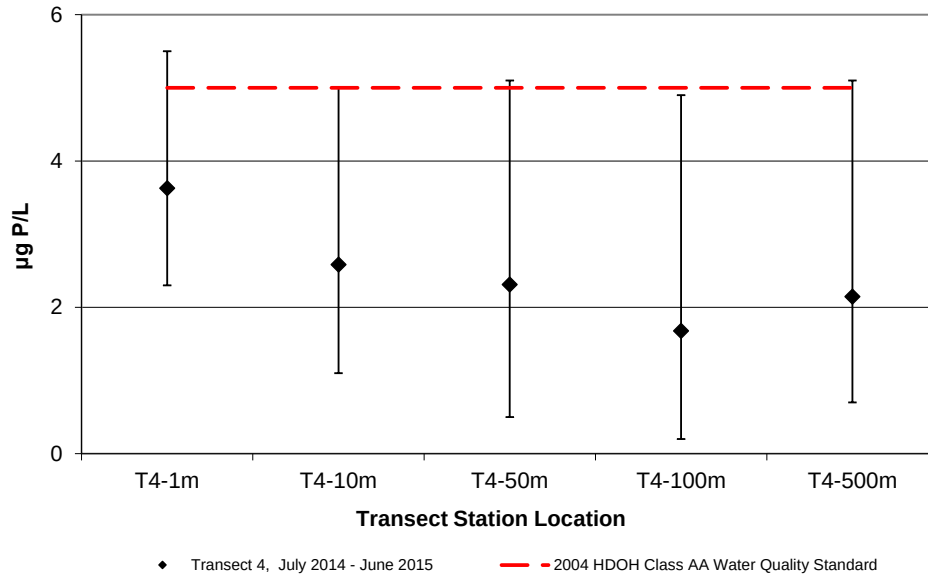
Transect 4

July 2014 - June 2015

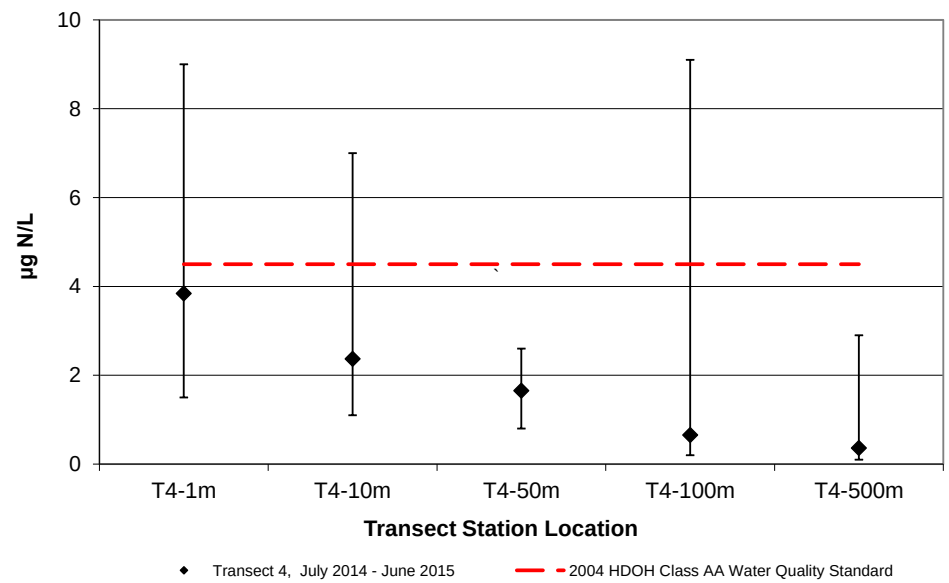
SITE ID	DATE M/D/Y	TIME (2400)	Tide (ft) (cycle)		PO ₄ ³⁻ (μM) (μg P/L)	NO ₃ ⁻ & NO ₂ ⁻ (μM) (μg N/L)	NH ₄ ⁺ & NH ₃ (μM) (μg N/L)	Si (μM) (μg Si/L)	TDP (μM) (μg P/L)	TDN (μM) (μg N/L)	Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (μg/L)						
DOH LIMIT					0.16	5	0.32	4.5	0.18	2.5		0.40	12.5	7.1	100	0.10				0.30		
T4-1m	8/6/14	919	1.0	Flood	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	0.3	Low	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	0.0	Ebb	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	0.0	Ebb	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				0.12	3.6	0.27	3.8	0.4	5.2			0.3	9.3	7.7	108	0.11					0.13
T4-10m	8/6/14	922	1.0	Flood	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	0.3	Low	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	0.0	Ebb	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	0.0	Ebb	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				0.08	2.6	0.17	2.4	0.33	4.6			0.39	12.0	6.4	90	0.08					0.12
T4-50m	8/6/14	927	1.0	Flood	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	0.3	Low	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	0.0	Ebb	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	0.0	Ebb	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				0.07	2.3	0.12	1.7	0.25	3.5			0.31	9.6	5.6	79	0.07					0.11
T4-100m	8/6/14	931	1.0	Flood	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	0.3	Low	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	0.0	Ebb	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	0.0	Ebb	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				0.05	1.7	0.05	0.7	0.30	4.3			0.37	11.4	5.8	81	0.07					0.13
T4-500m	8/6/14	938	1.1	Flood	0.16	5.1	0.02	0.3	0.36	5.0	0.4	12	0.48	15.0	4.89	69	0.04	35.01	27.0	8.22	6.43	0.07
T4-500m	12/4/14	1008	0.3	Low	0.09	2.7	0.01	0.2	0.38	5.3	0.0	0	0.25	7.8	6.29	88	0.11	35.25	26.5	8.24	6.35	0.10
T4-500m	3/5/15	959	-0.1	Ebb	0.02	0.7	0.01	0.1	0.18	2.5	0.1	4	0.30	9.2	5.12	72	0.07	34.73	25.4	8.24	6.84	0.08
T4-500m	6/18/15	940	0.0	Ebb	0.07	2.2	0.21	2.9	0.26	3.6	1.9	53	0.28	8.6	5.40	76	0.06	34.48	26.9	8.14	6.40	0.08
Geomean	FY '15				0.07	2.1	0.03	0.4	0.28	3.9			0.32	9.8	5.4	76	0.07					0.08

NELHA Water Quality Laboratory
Transect 4
July 2014 - June 2015

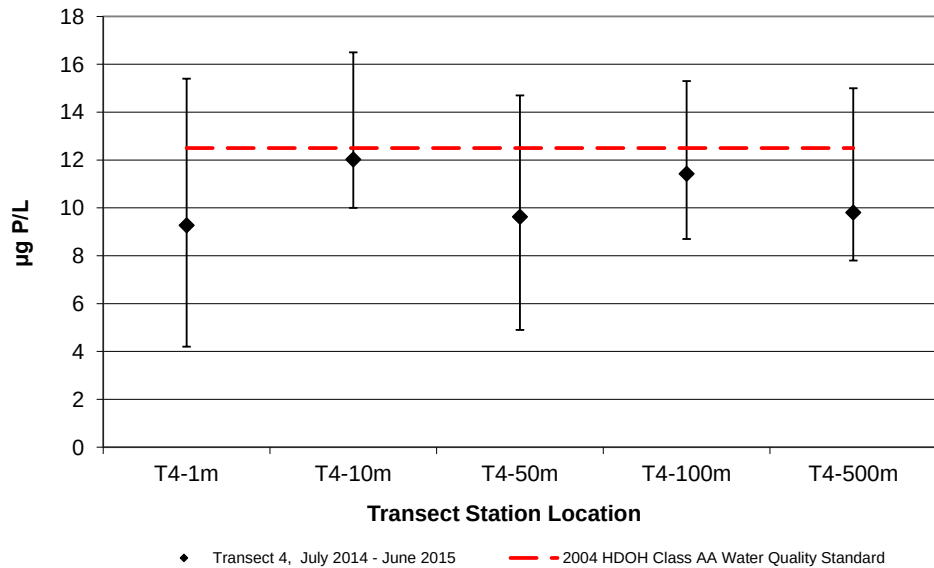
Transect 4 Station Summary
Ortho-Phosphate Geometric Mean



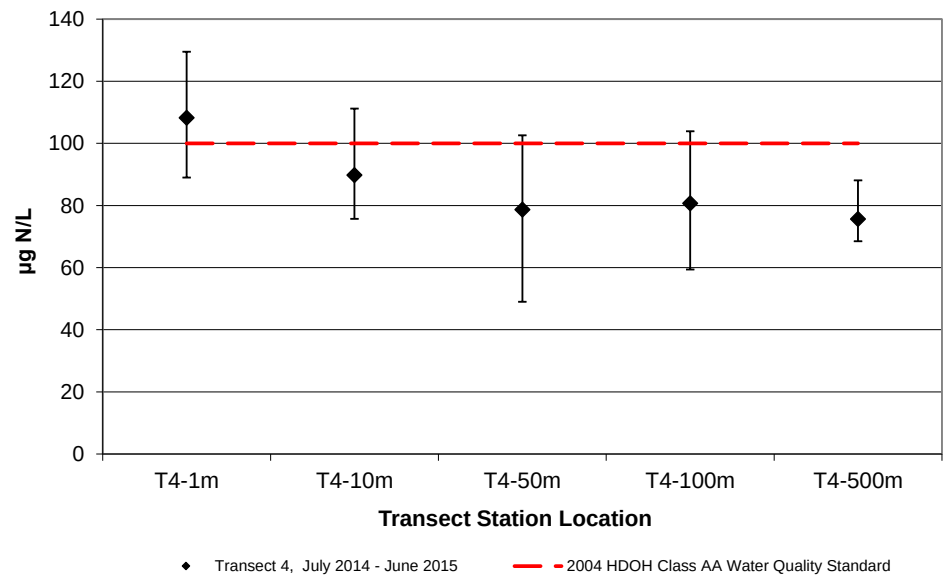
Transect 4 Station Summary
Nitrate + Nitrite Geometric Mean



Transect 4 Station Summary
Total Dissolved Phosphorous Geometric Mean



Transect 4 Station Summary
Total Dissolved Nitrogen Geometric Mean

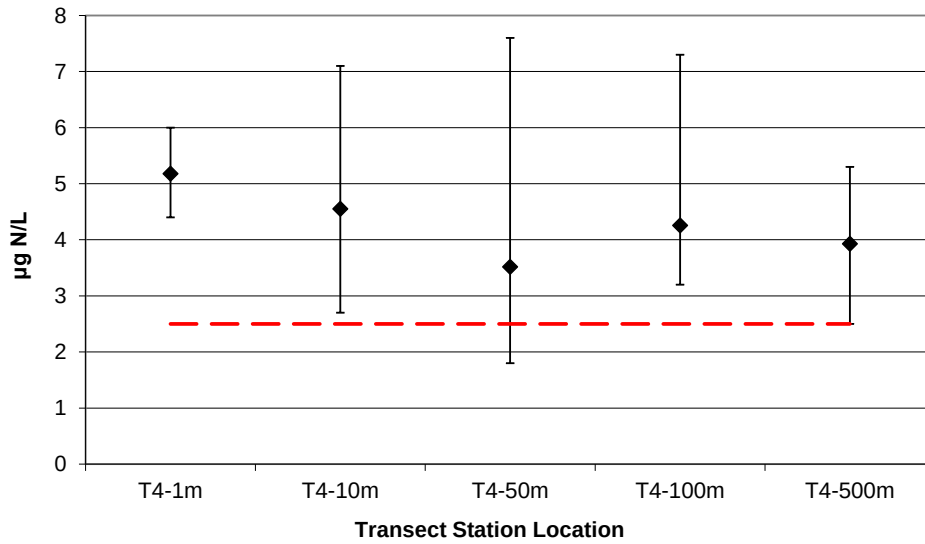


NELHA Water Quality Laboratory

Transect 4

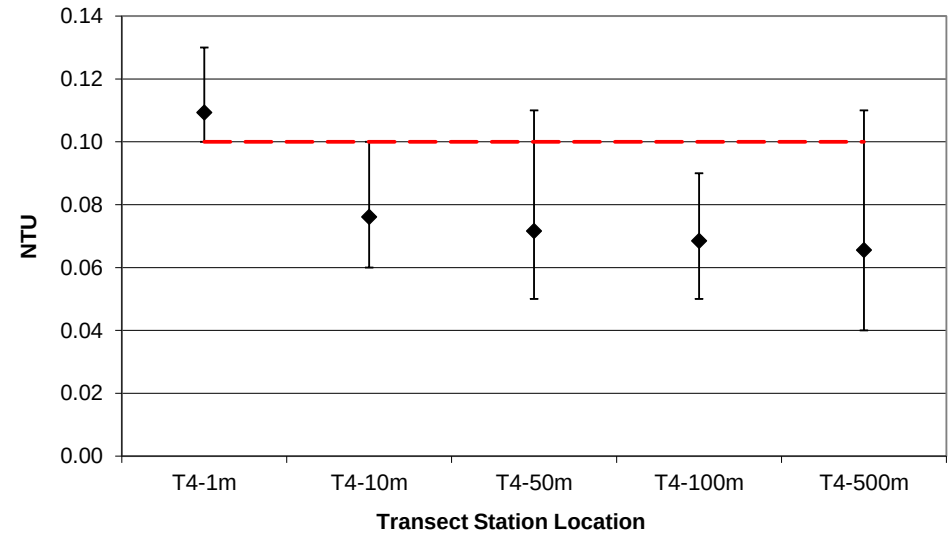
July 2014 - June 2015

Transect 4 Station Summary
Total Ammonia Geometric Mean



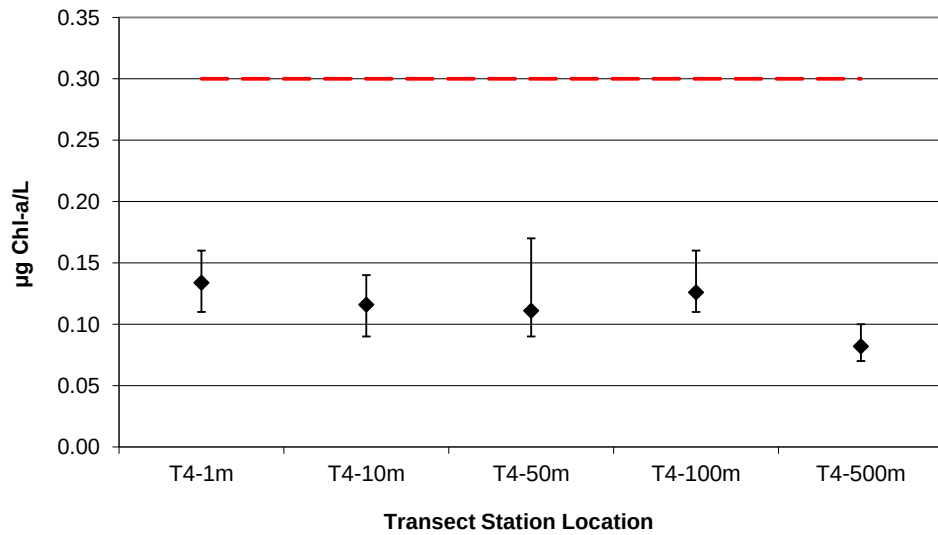
◆ Transect 4, July 2014 - June 2015 - - - 2004 HDOH Class AA Water Quality Standard

Transect 4 Station Summary
Turbidity Geometric Mean



◆ Transect 4, July 2014 - June 2015 - - - 2004 HDOH Class AA Water Quality Standard

Transect 4 Station Summary
Chlorophyll-a Geometric Mean



◆ Transect 4, July 2014 - June 2015 - - - 2004 HDOH Class AA Water Quality Standard

NELHA Water Quality Laboratory

Transect 4

July 2013 - June 2014

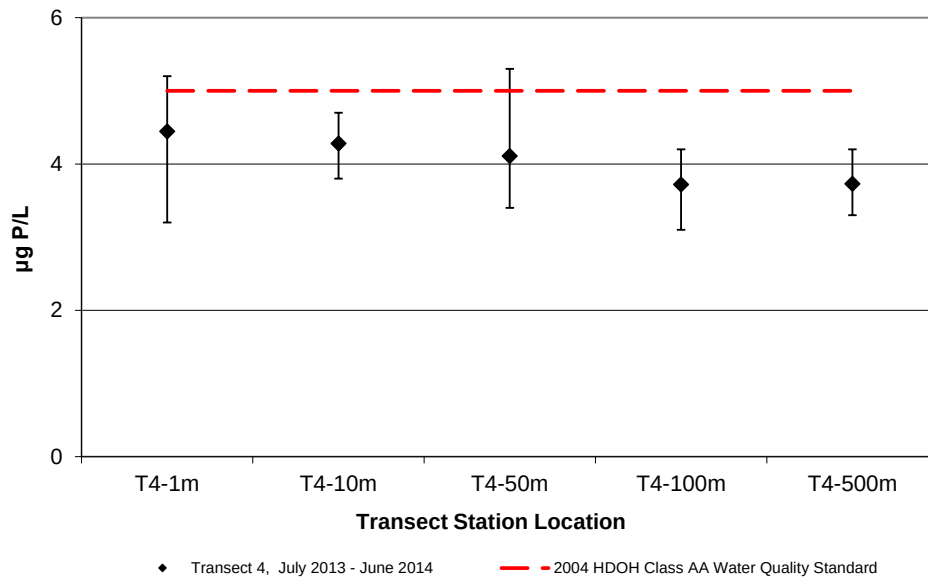
SITE ID	DATE M/D/Y	TIME (2400)	Tide (ft) (cycle)	PO ₄ ³⁻ (μM) (μg P/L)	NO ₃ ⁻ & NO ₂ ⁻ (μM) (μg N/L)	NH ₄ ⁺ & NH ₃ (μM) (μg N/L)	Si (μM) (μg Si/L)	TDP (μM) (μg P/L)	TDN (μM) (μg N/L)	Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (μg/L)						
DOH LIMIT				0.16	5	0.32	4.5	0.18	2.5		0.40	12.5	7.1	100	0.10					0.30	
T4-1m	8/6/13	929	0.0 Low	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	0.7 Flood	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	1.0 Ebb	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	0.6 Flood	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			0.14	4.4	0.17	2.4	0.2	3.0			0.4	13.7	6.9	96	0.07					0.13
T4-10m	8/6/13	934	0.0 Low	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	0.7 Flood	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	1.0 Ebb	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	0.6 Flood	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			0.14	4.3	0.19	2.7	0.10	1.4			0.47	14.6	6.4	90	0.04					0.15
T4-50m	8/6/13	940	0.0 Low	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	0.7 Flood	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	1.0 Ebb	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	0.6 Flood	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			0.13	4.1	0.27	3.8	0.19	2.7			0.48	14.9	5.9	83	0.04					0.12
T4-100m	8/6/13	946	0.0 Low	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	0.7 Flood	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	1.0 Ebb	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	0.6 Flood	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			0.12	3.7	0.07	0.9	0.16	2.3			0.43	13.2	5.6	79	0.04					0.11
T4-500m	8/6/13	949	0.0 Low	0.11	3.4	0.01	0.1	0.08	1.2	0.5	14	0.34	10.4	5.50	77	0.05	35.20	26.9	8.27	6.99	0.08
T4-500m	10/30/13	927	0.7 Flood	0.13	4.1	0.06	0.8	0.15	2.1	1.1	31	0.52	16.1	5.90	83	0.02	34.91	27.1	8.23	5.97	0.23
T4-500m	2/5/14	947	0.9 Ebb	0.14	4.2	0.09	1.2	0.59	8.3	1.4	41	0.46	14.3	5.88	82	0.02	34.97	25.2	8.20	6.20	0.13
T4-500m	5/7/14	946	0.7 Flood	0.11	3.3	0.05	0.7	0.21	2.9	1.2	33	0.52	16.0	7.23	101	0.03	34.80	25.9	8.21	5.60	0.11
Geomean	FY '14			0.12	3.7	0.04	0.5	0.20	2.8			0.45	14.0	6.1	85	0.03					0.13

NELHA Water Quality Laboratory

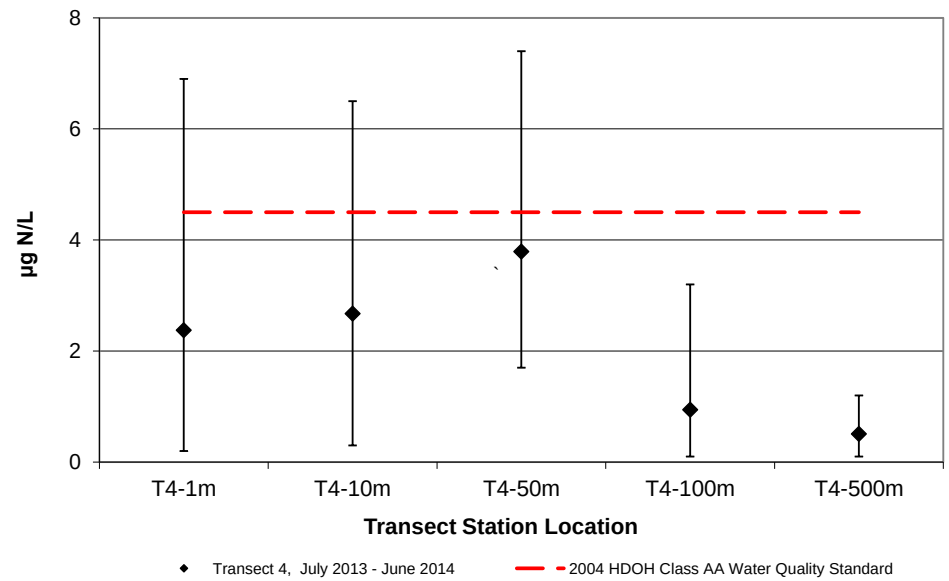
Transect 4

July 2013 - June 2014

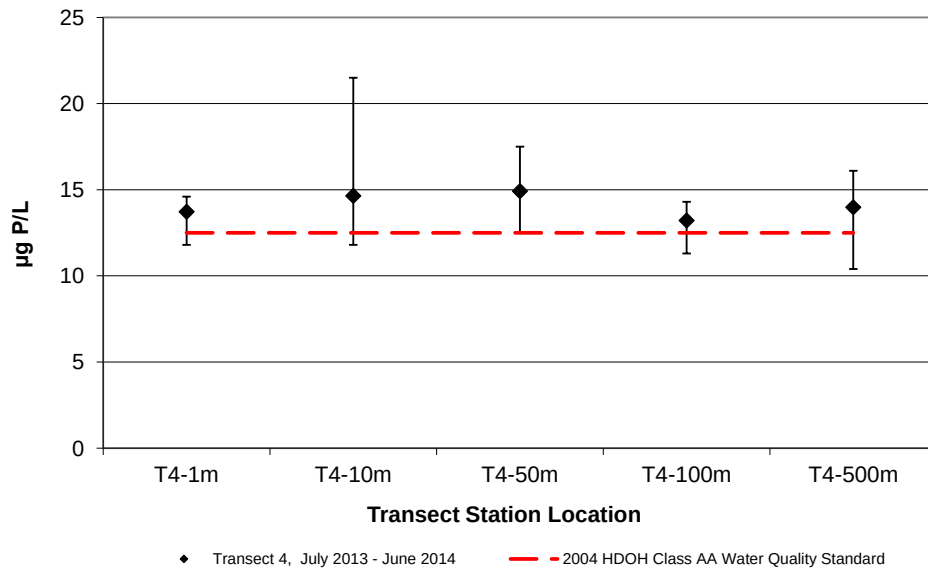
Transect 4 Station Summary
Ortho-Phosphate Geometric Mean



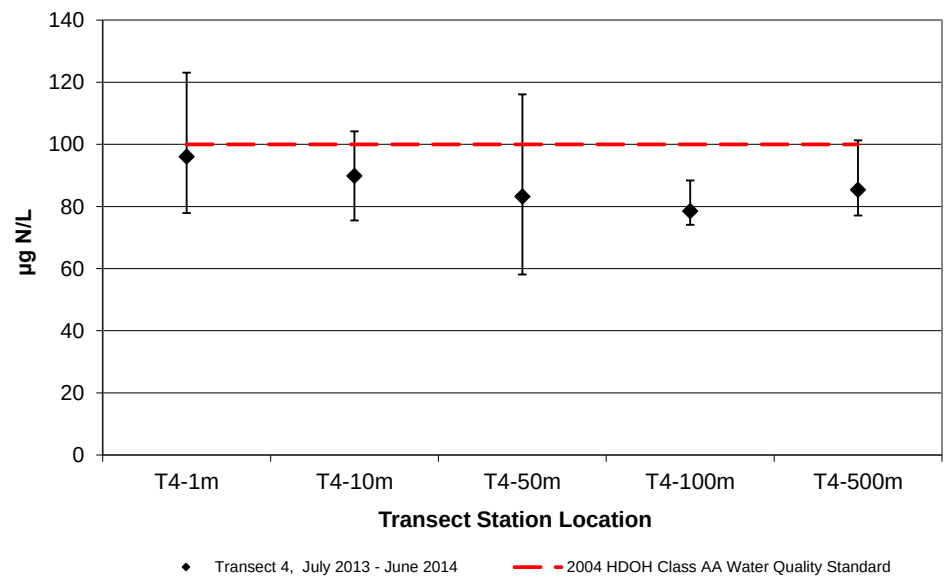
Transect 4 Station Summary
Nitrate + Nitrite Geometric Mean



Transect 4 Station Summary
Total Dissolved Phosphorous Geometric Mean



Transect 4 Station Summary
Total Dissolved Nitrogen Geometric Mean

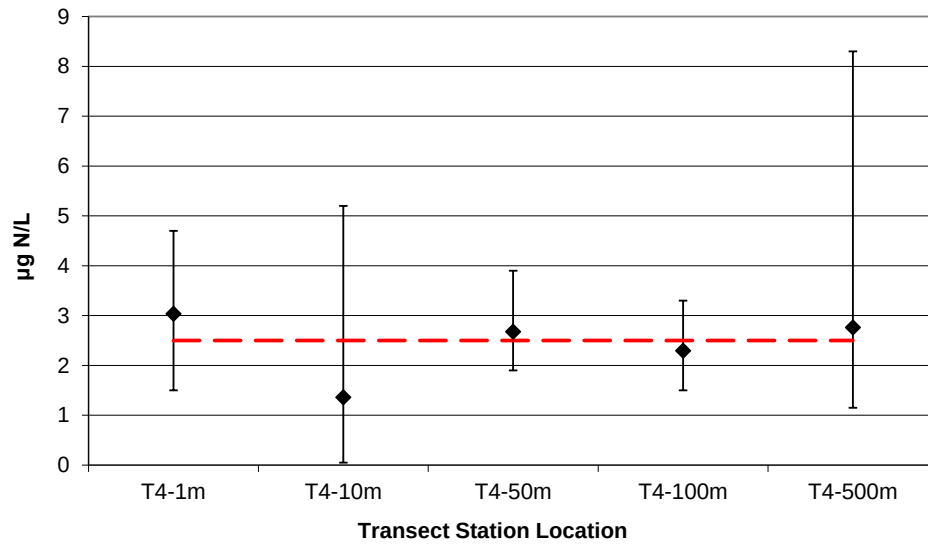


NELHA Water Quality Laboratory

Transect 4

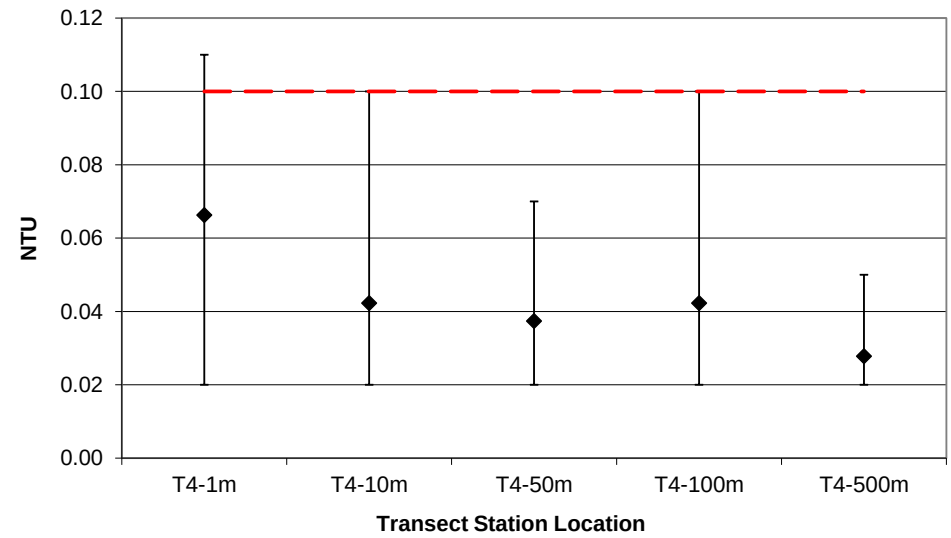
July 2013 - June 2014

Transect 4 Station Summary
Total Ammonia Geometric Mean



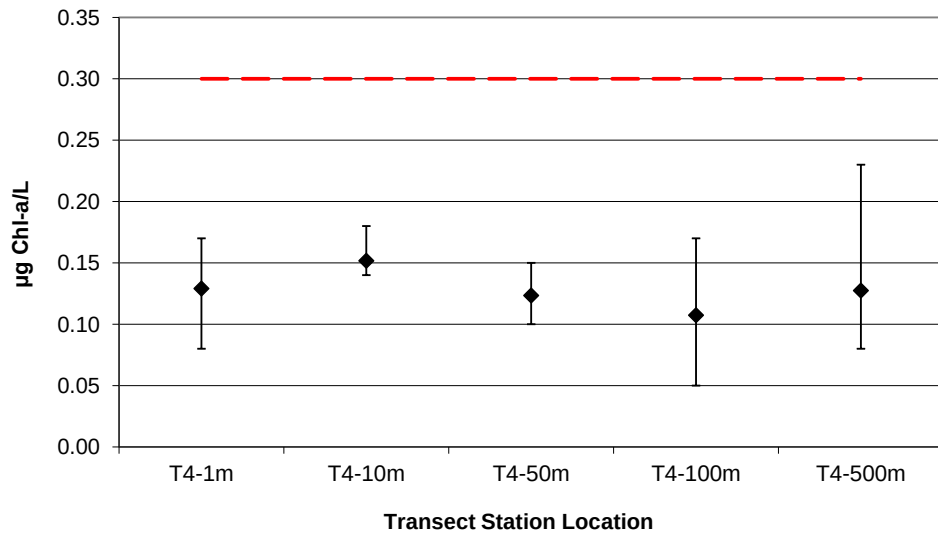
◆ Transect 4, July 2013 - June 2014 - - - 2004 HDOH Class AA Water Quality Standard

Transect 4 Station Summary
Turbidity Geometric Mean



◆ Transect 4, July 2013 - June 2014 - - - 2004 HDOH Class AA Water Quality Standard

Transect 4 Station Summary
Chlorophyll-a Geometric Mean



◆ Transect 4, July 2013 - June 2014 - - - 2004 HDOH Class AA Water Quality Standard

NELHA Water Quality Laboratory

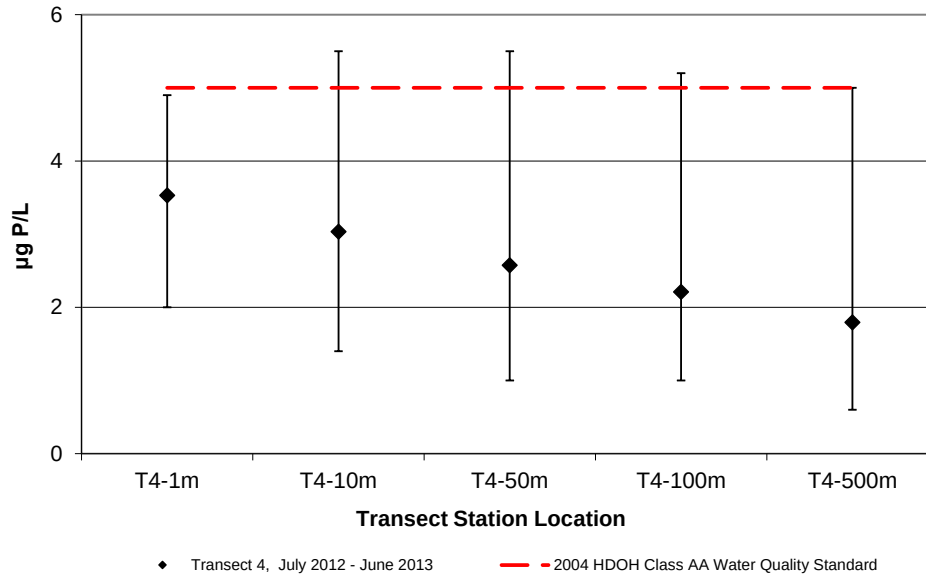
Transect 4

July 2012 - June 2013

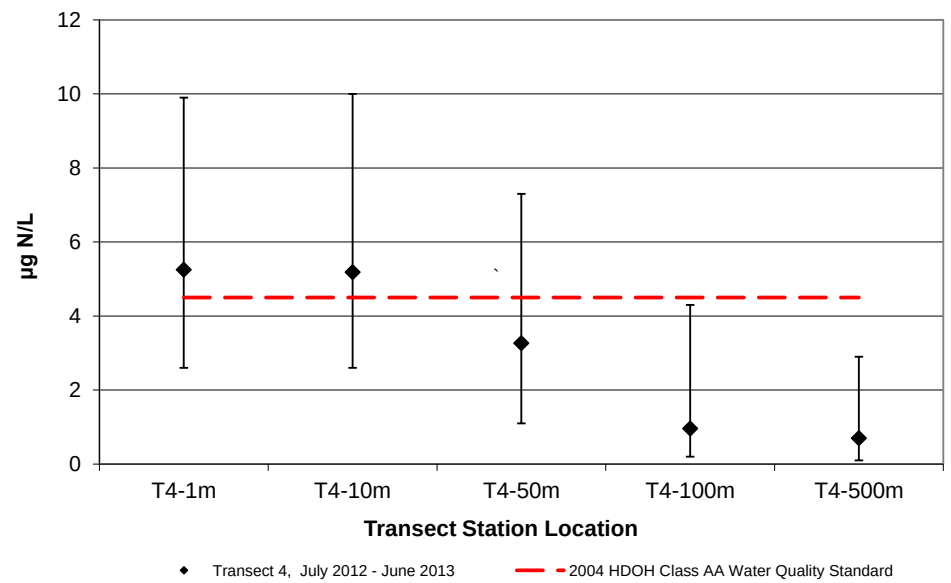
SITE ID	DATE M/D/Y	TIME (2400)	Tide (ft) (cycle)	PO ₄ ³⁻ (μM) (μg P/L)	NO ₃ ⁻ & NO ₂ ⁻ (μM) (μg N/L)	NH ₄ ⁺ & NH ₃ (μM) (μg N/L)	Si (μM) (μg Si/L)	TDP (μM) (μg P/L)	TDN (μM) (μg N/L)	Turbidity (NTU)	Salinity (PSU)	Temp. (°C)	pH (unit)	DO (ppm)	Chl a (μg/L)
DOH LIMIT				0.16 5	0.32 4.5	0.18 2.5		0.40 12.5	7.1 100	0.10					0.30
T4-1m	7/25/12	921		0.06 2.0	0.29 4.0	0.34 4.8	2.3 64	0.42 13.0	5.4 76	0.06	35.02	26.3	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	25.3	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	24.7	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	25.1	8.22	6.93	0.17
Geomean FY '13				0.11 3.5	0.38 5.3	0.2 3.5		0.5 14.4	6.4 90	0.08					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	26.3	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	25.3	8.20	6.57	0.03
T4-10m	1/24/13	912		0.12 3.8	0.71 10.0	0.16 2.3	3.2 90	0.47 14.7	5.5 76	0.07	35.02	24.7	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 16.0	5.0 70	0.04	35.13	25.1	8.21	6.93	0.18
Geomean FY '13				0.10 3.0	0.37 5.2	0.21 3.0		0.44 13.8	5.2 73	0.05					0.11
T4-50m	7/25/13	929		0.03 1.0	0.14 2.0	0.19 2.7	1.4 38	0.36 11.2	4.6 65	0.10	35.08	26.4	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	25.4	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 14.0	5.0 69	0.03	35.04	24.7	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	25.1	8.20	6.90	0.10
Geomean FY '13				0.08 2.6	0.23 3.3	0.21 3.0		0.41 12.6	4.6 64	0.05					0.09
T4-100m	7/25/13	934		0.03 1.0	0.14 2.0	0.49 6.9	1.4 38	0.37 11.5	5.8 81	0.09	35.10	26.4	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 15.0	6.5 91	0.04	35.27	25.3	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	24.8	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	25.0	8.20	6.56	0.09
Geomean FY '13				0.07 2.2	0.07 1.0	0.14 2.0		0.56 17.3	5.3 74	0.05					0.08
T4-500m	7/25/13	941		0.02 0.6	0.21 2.9	0.26 3.7	2.7 75	0.36 11.1	4.93 69	0.07	35.06	26.4	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 13.0	5.86 82	0.06	35.29	25.5	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	4.80 67	0.04	35.10	24.7	8.22	6.33	0.09
T4-500m	4/17/13	1045		0.16 5.0	0.15 2.1	0.20 2.8	0.8 22	0.61 18.8	4.99 70	0.02	35.12	25.1	8.20	6.56	0.05
Geomean FY '13				0.06 1.8	0.05 0.7	0.14 2.0		0.49 15.0	5.1 72	0.04					0.07

NELHA Water Quality Laboratory
Transect 4
July 2012 - June 2013

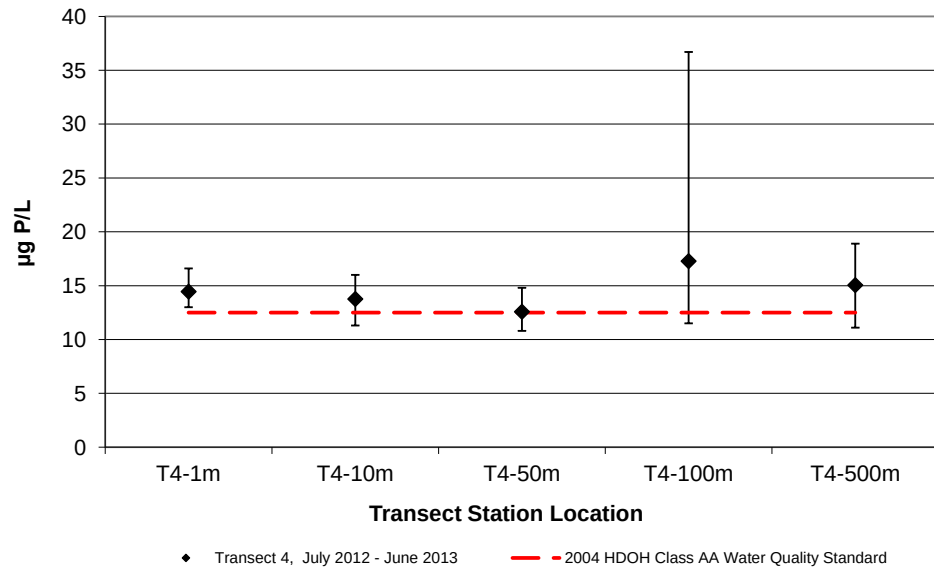
Transect 4 Station Summary
Ortho-Phosphate Geometric Mean



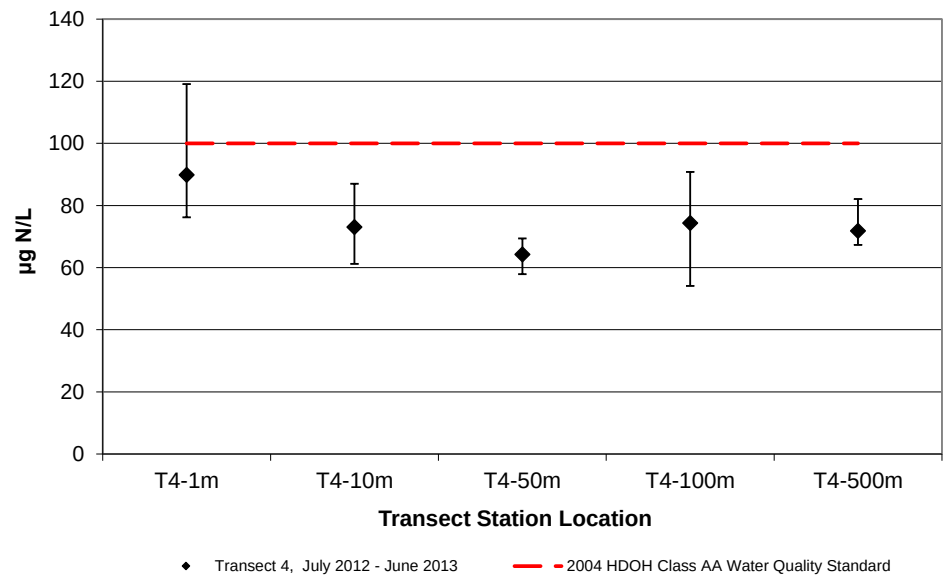
Transect 4 Station Summary
Nitrate + Nitrite Geometric Mean



Transect 4 Station Summary
Total Dissolved Phosphorous Geometric Mean



Transect 4 Station Summary
Total Dissolved Nitrogen Geometric Mean

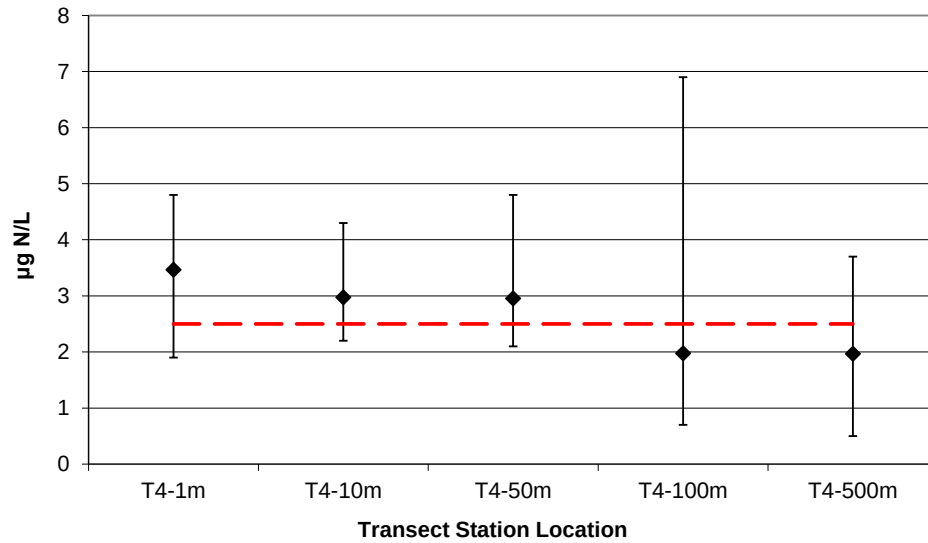


NELHA Water Quality Laboratory

Transect 4

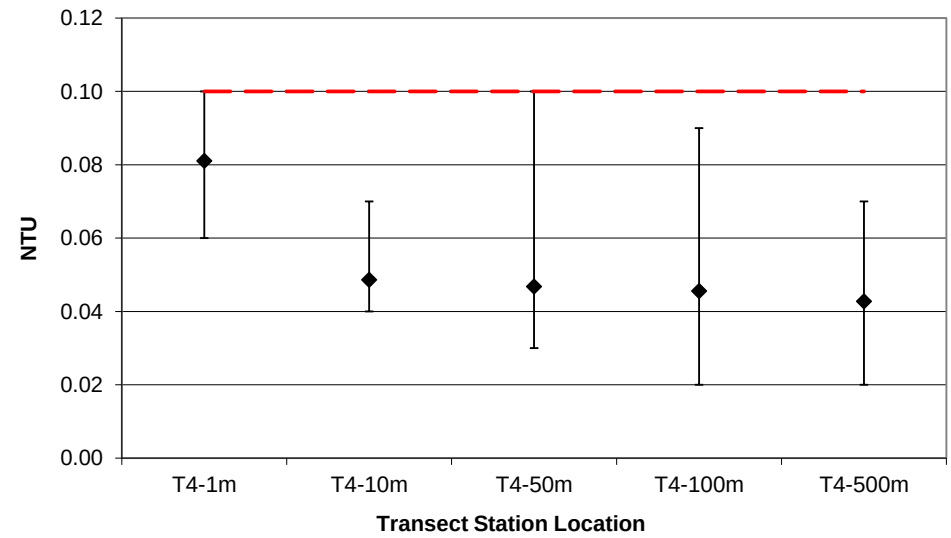
July 2012 - June 2013

Transect 4 Station Summary
Total Ammonia Geometric Mean



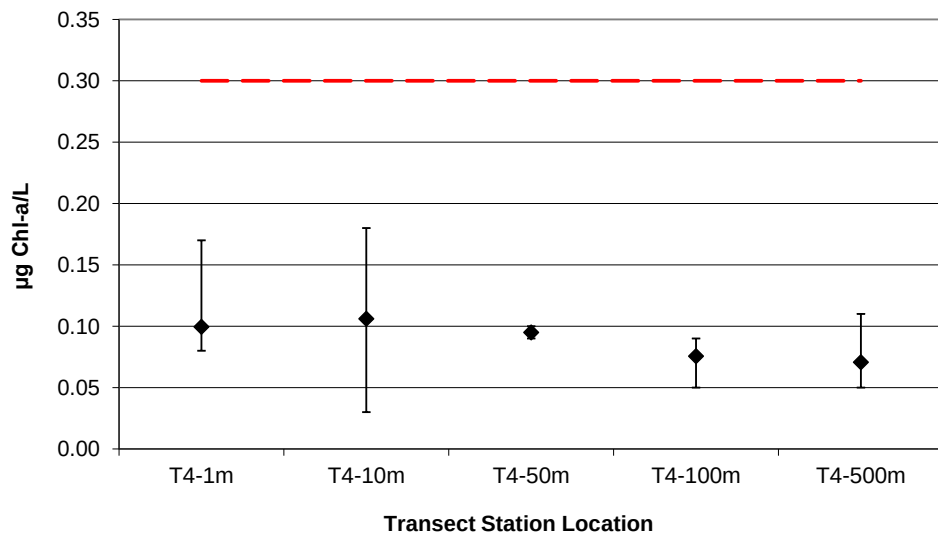
◆ Transect 4, July 2012 - June 2013 - - - 2004 HDOH Class AA Water Quality Standard

Transect 4 Station Summary
Turbidity Geometric Mean



◆ Transect 4, July 2012 - June 2013 - - - 2004 HDOH Class AA Water Quality Standard

Transect 4 Station Summary
Chlorophyll-a Geometric Mean



◆ Transect 4, July 2012 - June 2013 - - - 2004 HDOH Class AA Water Quality Standard

NELHA Water Quality Laboratory

Transect 4

July 2011 - June 2012

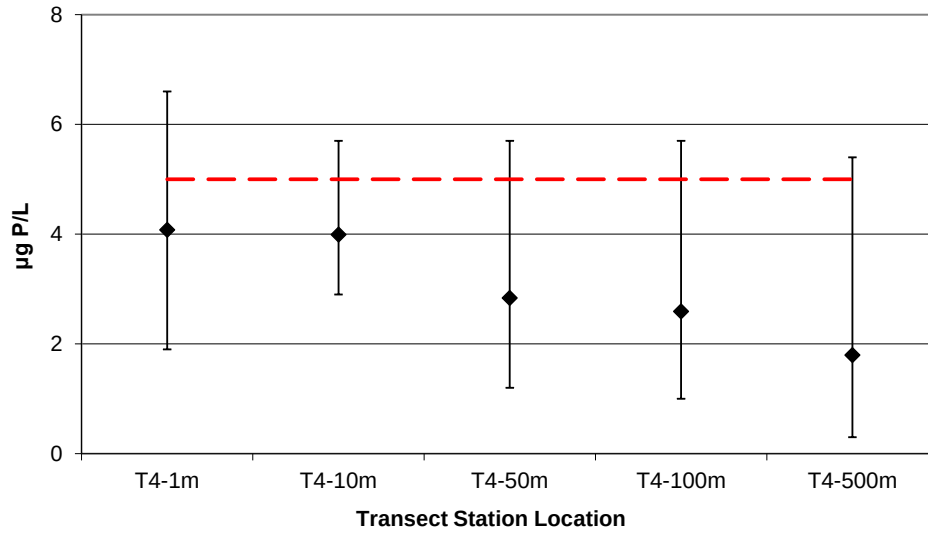
SITE ID	DATE M/D/Y	TIME (2400)	Tide (ft) (cycle)	PO ₄ ³⁻ (μM) (μg P/L)	NO ₃ ⁻ & NO ₂ ⁻ (μM) (μg N/L)	NH ₄ ⁺ & NH ₃ (μM) (μg N/L)	Si (μM) (μg Si/L)	TDP (μM) (μg P/L)	TDN (μM) (μg N/L)	Turbidity (NTU)	Salinity (o/oo)	Temp. (°C)	pH	DO (ppm)	Chl a (μg/L)
DOH LIMIT				0.16 5	0.32 4.5	0.18 2.5		0.40 12.5	7.1 100	0.10					0.30
T4-1m	7/27/11	910	0.1 Flood	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	26.0	8.21	6.27	0.12
T4-1m	10/19/11	942	1.9 High	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	26.5	8.24	7.30	0.10
T4-1m	1/26/12	910	1.2 Ebb	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	24.4	8.21	6.77	0.13
T4-1m	4/25/12	932	0.1 Ebb	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	24.8	8.19	6.99	0.10
Geomean FY '12				0.13 4.1	0.32 4.4	0.2 3.3		0.4 13.7	4.8 67	0.08					0.11
T4-10m	7/27/11	915	0.1 Flood	0.18 5.7	0.36 5.0	0.13 1.8	2.2 62	0.49 15.3	4.5 64	0.10	34.78	26.0	8.21	6.17	0.11
T4-10m	10/19/11	945	1.9 High	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	26.5	8.25	7.30	0.10
T4-10m	1/26/12	915	1.2 Ebb	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	24.4	8.23	6.78	0.10
T4-10m	4/25/12	934	0.1 Ebb	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	24.8	8.19	7.04	0.08
Geomean FY '12				0.13 4.0	0.31 4.4	0.18 2.6		0.43 13.3	4.8 68	0.09					0.10
T4-50m	7/27/11	921	0.1 Flood	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	26.0	8.21	6.10	0.11
T4-50m	10/19/11	948	1.9 High	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	26.5	8.23	7.02	0.08
T4-50m	1/26/12	919	1.2 Ebb	0.06 1.9	0.11 1.6	0.07 1.0	1.7 48	0.33 10.2	3.5 50	0.06	35.04	24.4	8.24	6.60	0.09
T4-50m	4/25/12	935	0.1 Ebb	0.16 5.0	0.14 1.9	0.39 5.4	4.2 119	0.45 13.9	4.4 61	0.04	34.88	24.9	8.18	6.76	0.10
Geomean FY '12				0.09 2.8	0.15 2.1	0.10 1.5		0.43 13.5	3.9 54	0.04					0.09
T4-100m	7/27/11	926	0.1 Flood	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	26.0	8.21	6.12	0.11
T4-100m	10/19/11	953	1.9 High	0.03 1.0	0.06 0.9	0.04 0.6	1.8 50	0.48 14.9	4.6 64	0.03	35.10	26.5	8.24	7.07	0.08
T4-100m	1/26/12	923	1.2 Ebb	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	24.4	8.26	6.65	0.11
T4-100m	4/25/12	938	0.1 Ebb	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	24.9	8.18	6.77	0.04
Geomean FY '12				0.08 2.6	0.12 1.7	0.06 0.8		0.42 13.1	4.5 63	0.04					0.08
T4-500m	7/27/11	936	0.1 Flood	0.17 5.4	0.26 3.6	0.18 2.5	1.9 52	0.49 15.3	5.94 83	0.05	34.80	25.9	8.22	6.23	0.13
T4-500m	10/19/11	1001	1.9 High	0.01 0.3	0.04 0.5	0.04 0.5	2.1 60	0.34 10.6	4.54 64	0.08	35.10	26.6	8.25	7.01	0.11
T4-500m	1/26/12	930	1.2 Ebb	0.05 1.4	0.04 0.6	0.02 0.3	1.3 36	0.40 12.3	6.18 87	0.02	35.06	24.6	8.25	6.63	0.10
T4-500m	4/25/12	944	0.1 Ebb	0.15 4.6	0.15 2.1	0.26 3.6	1.9 53	0.54 16.8	9.15 128	0.11	34.82	24.9	8.19	6.71	0.04
Geomean FY '12				0.06 1.8	0.09 1.2	0.08 1.1		0.44 13.5	6.2 88	0.05					0.09

NELHA Water Quality Laboratory

Transect 4

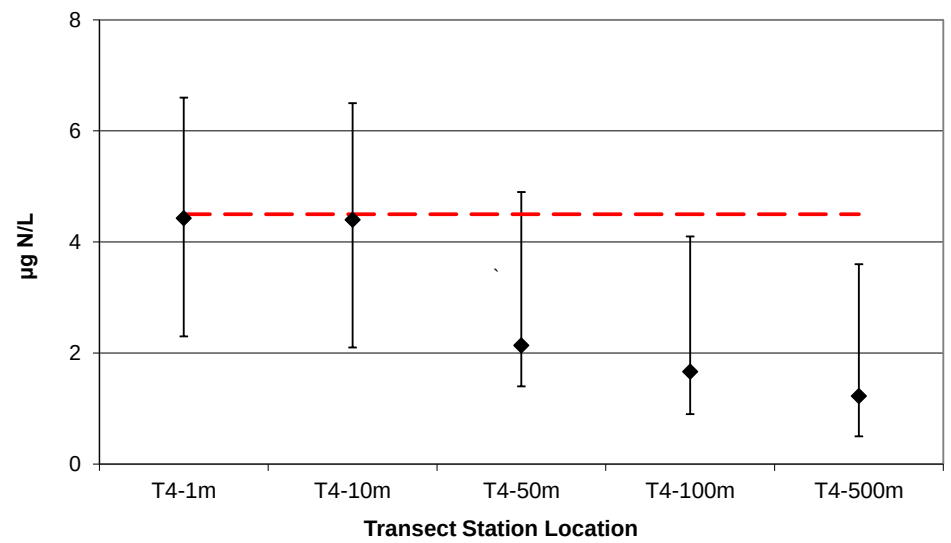
July 2011 - June 2012

Transect 4 Station Summary
Ortho-Phosphate Geometric Mean, July 2011 - June 2012



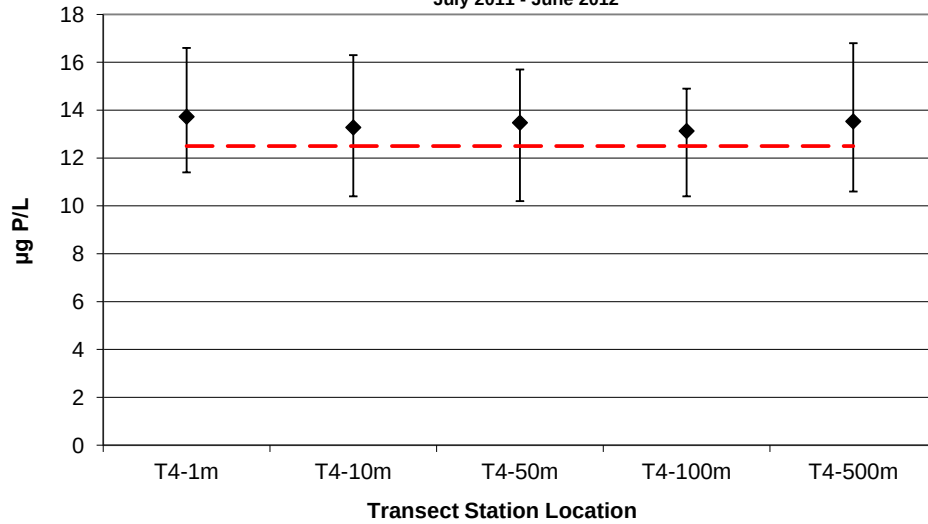
◆ Transect 4, '11-'12 - - '04 DOH Limit

Transect 4 Station Summary
Nitrate + Nitrite Geometric Mean, July 2011 - June 2012



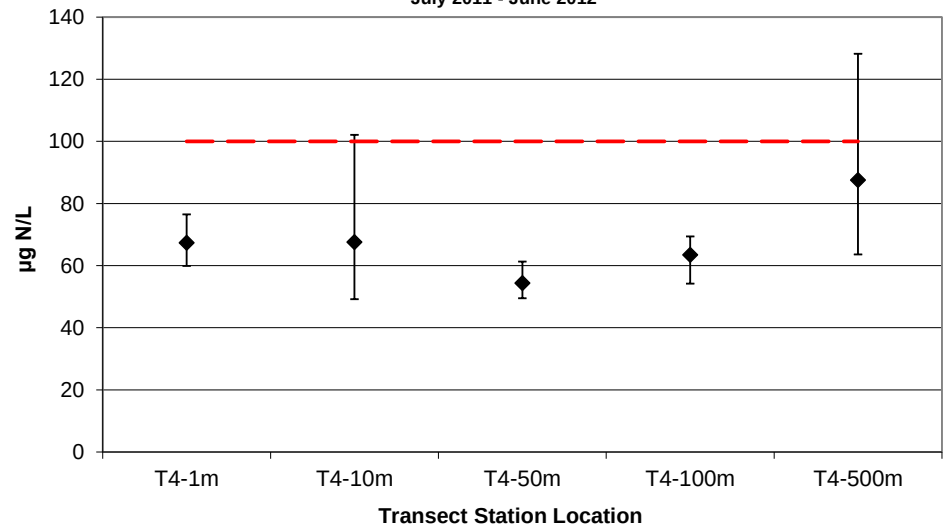
◆ Transect 4, '11-'12 - - '04 DOH Limit

Transect 4 Station Summary
Total Dissolved Phosphorous Geometric Mean
July 2011 - June 2012



◆ Transect 4, '11-'12 - - '04 DOH Limit

Transect 4 Station Summary
Total Dissolved Nitrogen Geometric Mean
July 2011 - June 2012



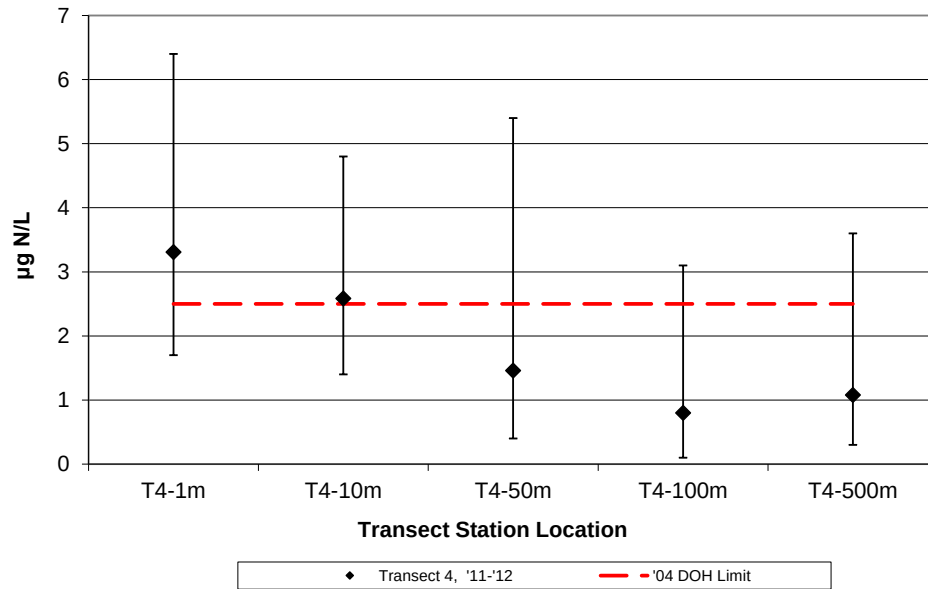
◆ Transect 4, '11-'12 - - '04 DOH Limit

NELHA Water Quality Laboratory

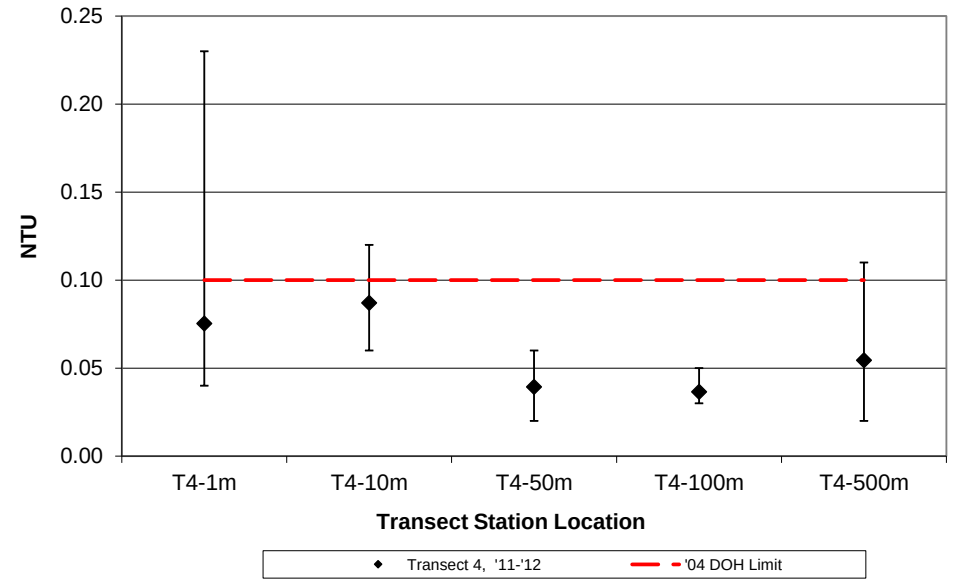
Transect 4

July 2011 - June 2012

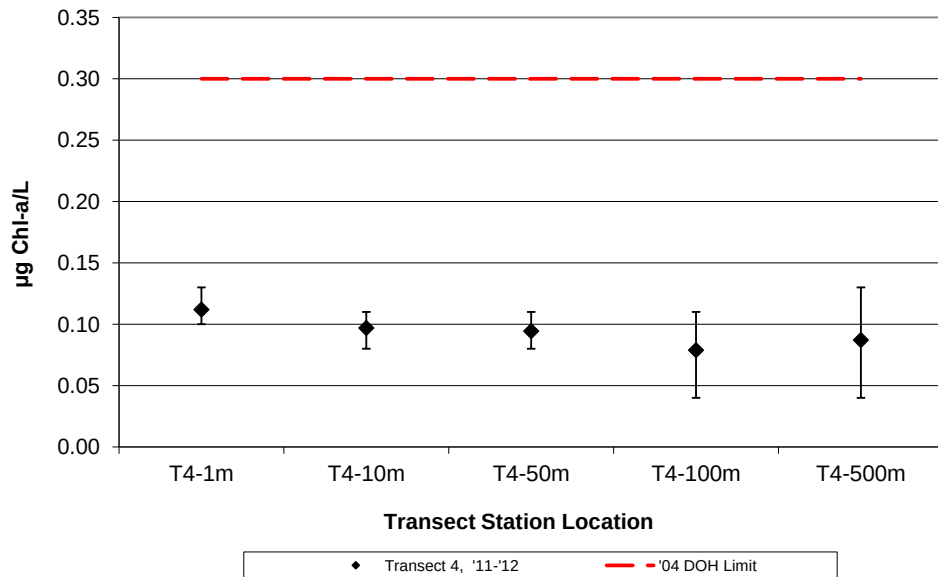
Transect 4 Station Summary
Total Ammonia Geometric Mean, July 2011 - June 2012



Transect 4 Station Summary
Turbidity Geometric Mean, July 2011 - June 2012



Transect 4 Station Summary
Chlorophyll-a Geometric Mean, July 2011 - June 2012



NELHA Water Quality Laboratory

Transect 4

July 2010 - June 2011

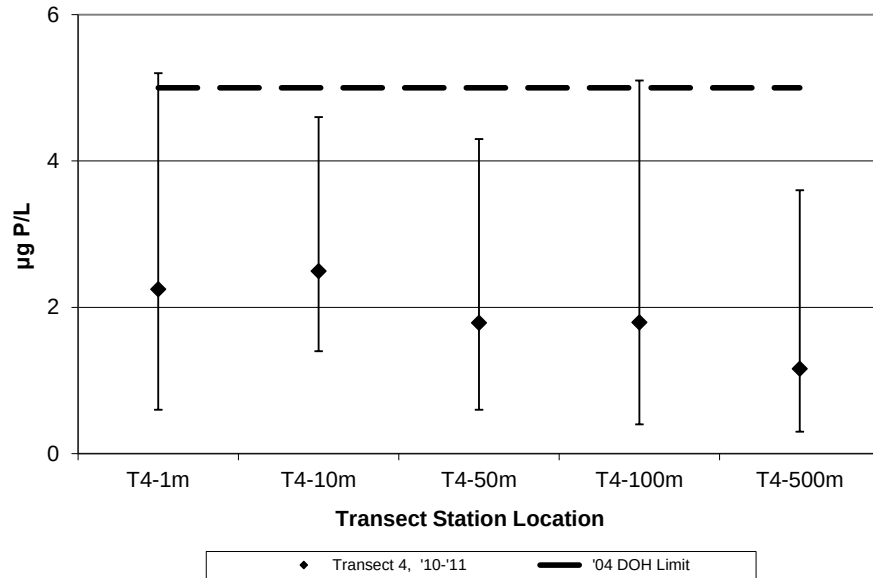
SITE ID	DATE M/D/Y	TIME (2400)	Tide (ft) (cycle)		PO4 (µM) (µg P/L)		NO3+NO2 (µM) (µg N/L)		NH3 (µM) (µg N/L)		Si (µM) (µg Si/L)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (o/oo)	Temp. (°C)	pH	DO (ppm)	Chl a (µg/L)
DOH LIMIT					0.16	5	0.32	4.5	0.18	2.5			0.40	12.5	7.1	100	0.10					0.30
T4-1m	8/11/10	910	0.3	Ebb	0.02	0.6	0.57	8.0	0.22	3.1	3.8	108	0.36	11.3	4.1	57	0.06	34.90	26.1	8.25	6.71	0.12
T4-1m	11/9/10	910	1.7	Ebb	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	26.3	8.26	6.35	0.05
T4-1m	1/11/11	1126	0.8	Ebb	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	25.0	8.21	6.42	0.08
T4-1m	4/27/11	920	0.2	Flood	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	24.9	8.20	6.38	0.08
Geomean	FY '11				0.07	2.2	0.34	4.8	0.1	2.0			0.4	13.5	4.6	64	0.08					0.08
T4-10m	8/11/10	915	0.3	Ebb	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	26.1	8.24	6.72	0.10
T4-10m	11/9/10	914	1.7	Ebb	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	26.3	8.27	6.39	0.05
T4-10m	1/11/11	1131	0.8	Ebb	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	25.0	8.21	6.41	0.09
T4-10m	4/27/11	924	0.2	Flood	0.13	4.0	0.36	5.1	0.17	2.4	6.0	169	0.42	13.0	3.6	51	0.11	34.87	24.9	8.20	6.47	0.10
Geomean	FY '11				0.08	2.5	0.34	4.8	0.18	2.5			0.40	12.4	3.9	55	0.07					0.08
T4-50m	8/11/10	919	0.2	Ebb	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	26.0	8.23	6.67	0.05
T4-50m	11/9/10	917	1.7	Ebb	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	26.4	8.27	6.21	0.04
T4-50m	1/11/11	1138	0.8	Ebb	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	25.0	8.20	6.46	0.09
T4-50m	4/27/11	928	0.3	Flood	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	24.9	8.21	6.31	0.09
Geomean	FY '11				0.06	1.8	0.23	3.2	0.08	1.1			0.37	11.5	3.6	50	0.06					0.06
T4-100m	8/11/10	926	0.2	Ebb	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	26.0	8.23	6.56	0.14
T4-100m	11/9/10	923	1.6	Ebb	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	26.0	8.28	6.26	0.01
T4-100m	1/11/11	1147	0.7	Ebb	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	25.0	8.21	6.47	0.11
T4-100m	4/27/11	932	0.3	Flood	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	24.9	8.22	6.31	0.18
Geomean	FY '11				0.06	1.8	0.19	2.7	0.08	1.1			0.39	12.2	3.7	51	0.07					0.07
T4-500m	8/11/10	934	0.2	Ebb	0.02	0.6	0.02	0.3	0.01	0.1	1.9	53	0.30	9.4	2.72	38	0.05	34.96	26.2	8.23	6.61	0.16
T4-500m	11/9/10	929	1.6	Ebb	0.01	0.3	0.08	1.1	0.11	1.5	3.1	86	0.38	11.8	2.25	32	0.07	34.98	26.5	8.28	6.31	0.02
T4-500m	1/11/11	1155	0.7	Ebb	0.12	3.6	0.01	0.2	0.27	3.8	3.5	97	0.41	12.7	2.91	41	0.04	35.04	25.1	8.21	6.34	0.13
T4-500m	4/27/11	940	0.4	Flood	0.09	2.8	0.34	4.8	0.11	1.5	4.8	134	0.44	13.7	3.95	55	0.09	34.85	25.0	8.22	6.13	0.14
Geomean	FY '11				0.04	1.2	0.05	0.8	0.07	1.0			0.38	11.8	2.9	41	0.06					0.09

NELHA Water Quality Laboratory

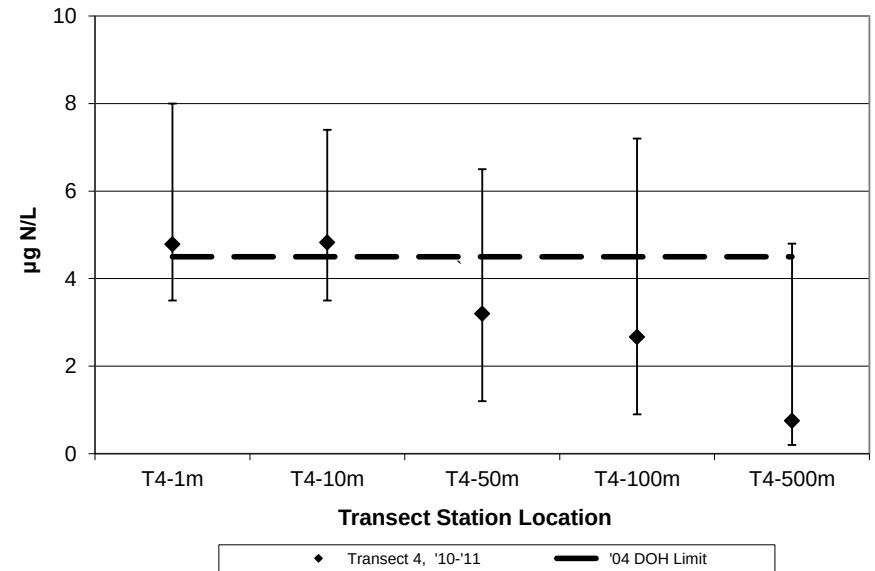
Transect 4

July 2010 - June 2011

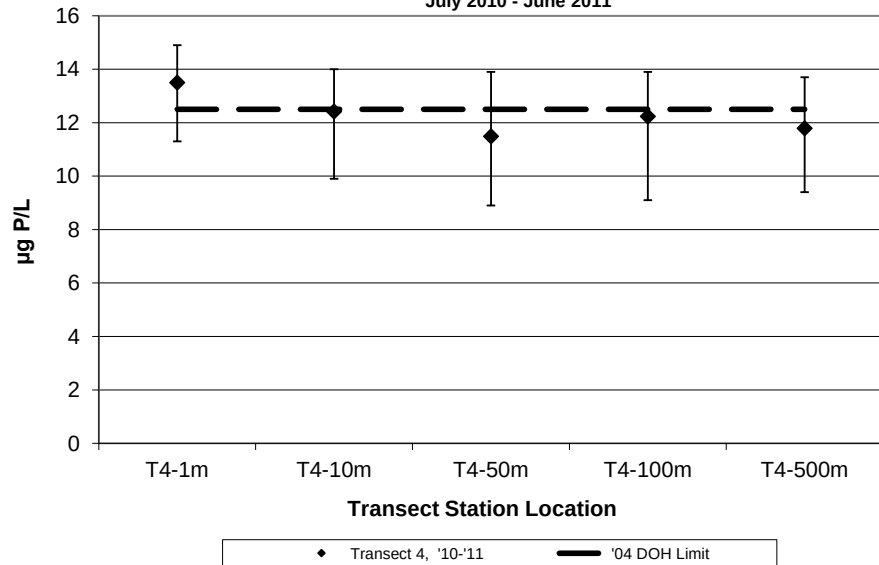
Transect 4 Station Summary
Ortho-Phosphate Geometric Mean, July 2010 - June 2011



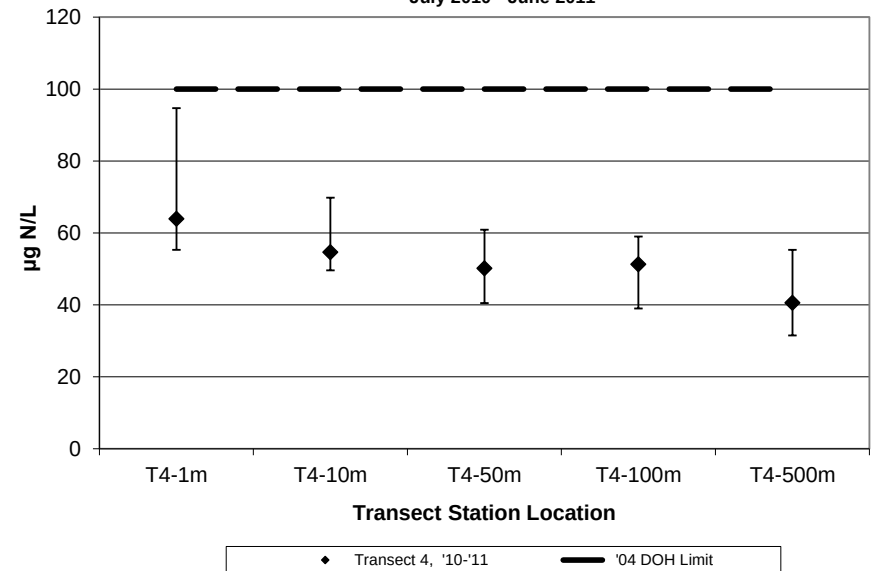
Transect 4 Station Summary
Nitrate + Nitrite Geometric Mean, July 2010 - June 2011



Transect 4 Station Summary
Total Dissolved Phosphorous Geometric Mean
July 2010 - June 2011



Transect 4 Station Summary
Total Dissolved Nitrogen Geometric Mean
July 2010 - June 2011

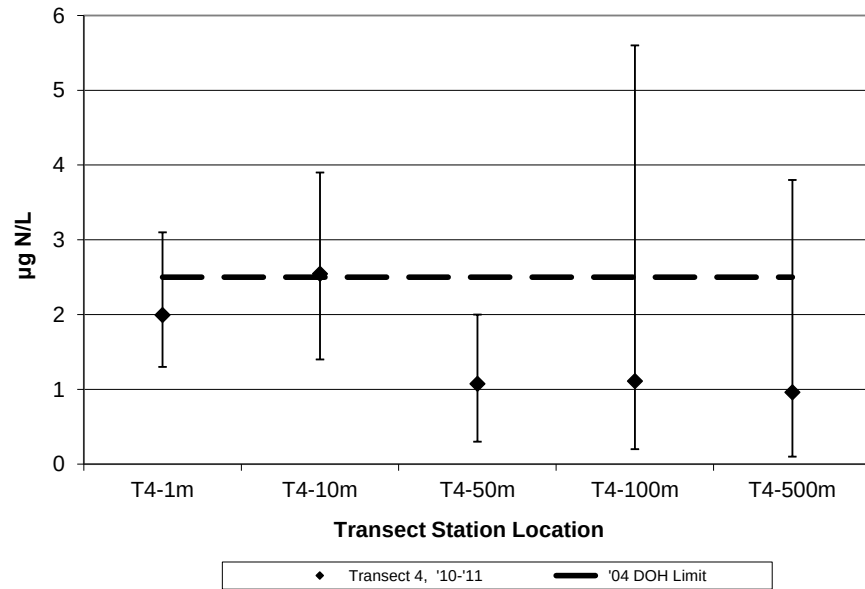


NELHA Water Quality Laboratory

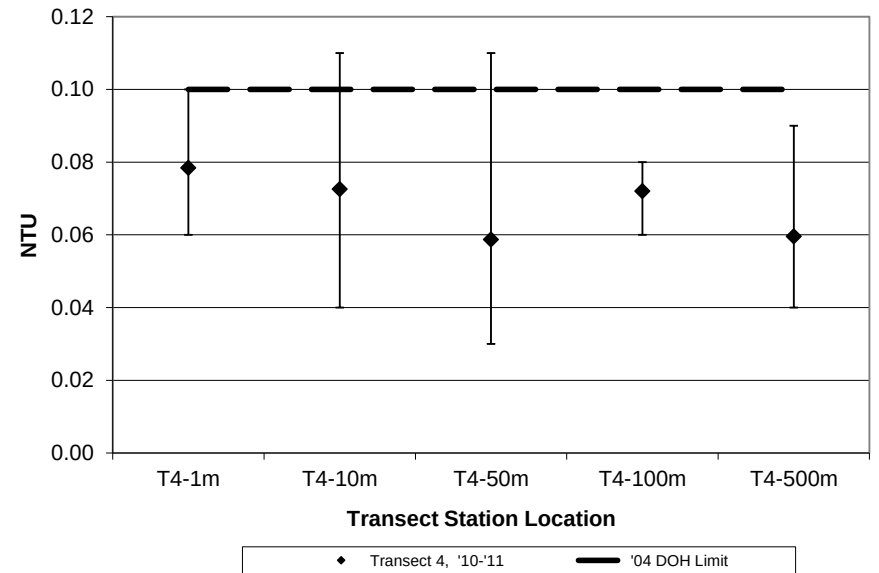
Transect 4

July 2010 - June 2011

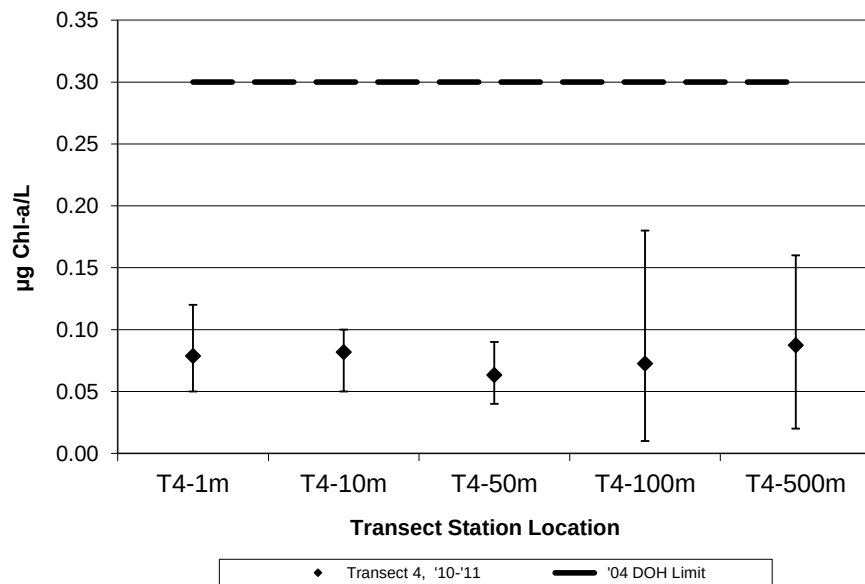
Transect 4 Station Summary
Ammonia Geometric Mean, July 2010 - June 2011



Transect 4 Station Summary
Turbidity Geometric Mean, July 2010 - June 2011



Transect 4 Station Summary
Chlorophyll-a Geometric Mean, July 2010 - June 2011



NELHA Water Quality Laboratory

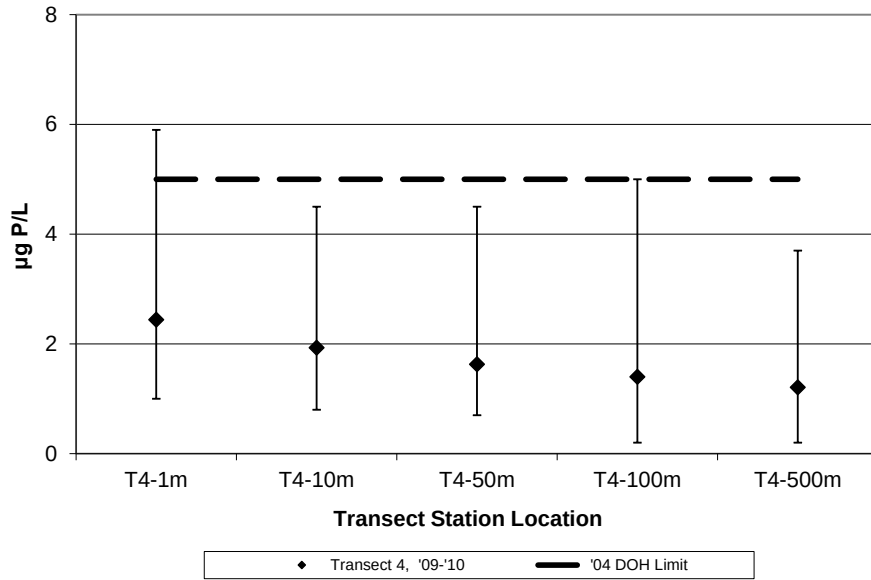
Transect 4

July 2009 - June 2010

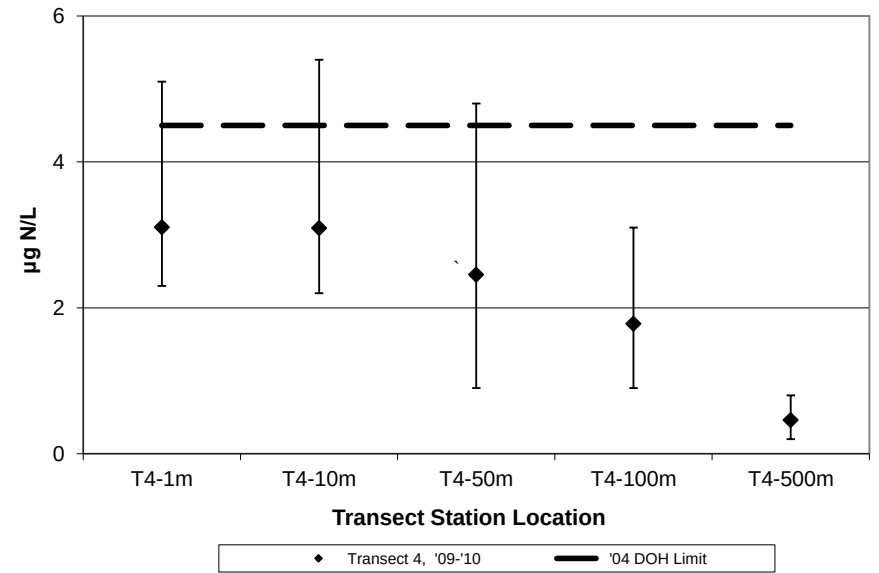
SITE ID	DATE M/D/Y	TIME (2400)	Tide (ft) (cycle)		PO4 (µM) (µg P/L)		NO3+NO2 (µM) (µg N/L)		NH3 (µM) (µg N/L)		Si (µM) (µg Si/L)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (o/oo)	Temp. (°C)	pH	DO (ppm)	Chl a (µg/L)
					0.16	5	0.32	4.5	0.18	2.5			0.40	12.5	7.1	100	0.10					0.30
T4-1m	9/10/09	904	2.0	High	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	1.6	Flood	0.03	1.0	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	0.3	Low	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	0.0	Flood	0.05	1.4	0.36	5.1	0.14	2.0	3.2	90	0.04	1.1	4.3	60	0.06	34.88	25.1	8.23	7.06	0.10
Geomean	'09-'10				0.08	2.4	0.22	3.1	0.3	4.2			0.1	4.2	5.4	75	0.09					0.15
T4-10m	9/10/09	910	2.0	High	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	1.6	Flood	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	0.3	Low	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	0.0	Flood	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	'09-'10				0.06	1.9	0.22	3.1	0.17	2.3			0.27	8.4	5.4	76	0.07					0.09
T4-50m	9/10/09	922	2.0	High	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	1.6	Flood	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	0.3	Low	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	0.0	Flood	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	'09-'10				0.05	1.6	0.18	2.5	0.14	2.0			0.34	10.6	5.6	78	0.09					0.13
T4-100m	9/10/09	929	2.0	High	0.16	5.0	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	1.6	Flood	0.03	0.8	0.21	3.0	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	0.3	Low	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	0.1	Flood	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	'09-'10				0.05	1.4	0.13	1.8	0.17	2.4			0.33	10.3	6.2	86	0.05					0.14
T4-500m	9/10/09	942	2.0	High	0.12	3.6	0.06	0.8	0.69	9.7	47.4	1330	0.37	11.5	5.52	77	0.07	35.24	27.5	8.22	5.56	0.10
T4-500m	11/24/09	924	1.7	High	0.03	0.8	0.03	0.4	0.11	1.6	2.3	66	0.33	10.2	4.36	61	0.03	35.27	25.2	8.23	6.51	0.11
T4-500m	2/24/10	956	0.4	Flood	0.12	3.7	0.01	0.2	0.35	4.9	1.9	54	0.29	8.9	3.41	48	0.05	35.12	24.7	8.20	5.48	0.17
T4-500m	5/25/10	939	0.1	Flood	0.01	0.2	0.05	0.7	0.08	1.1	1.5	42	0.28	8.6	5.88	82	0.05	35.01	24.9	8.21	6.62	0.08
Geomean	'09-'10				0.04	1.2	0.03	0.5	0.22	3.0			0.31	9.7	4.7	66	0.05					0.11

NELHA Water Quality Laboratory
Transect 4
July 2009 - June 2010

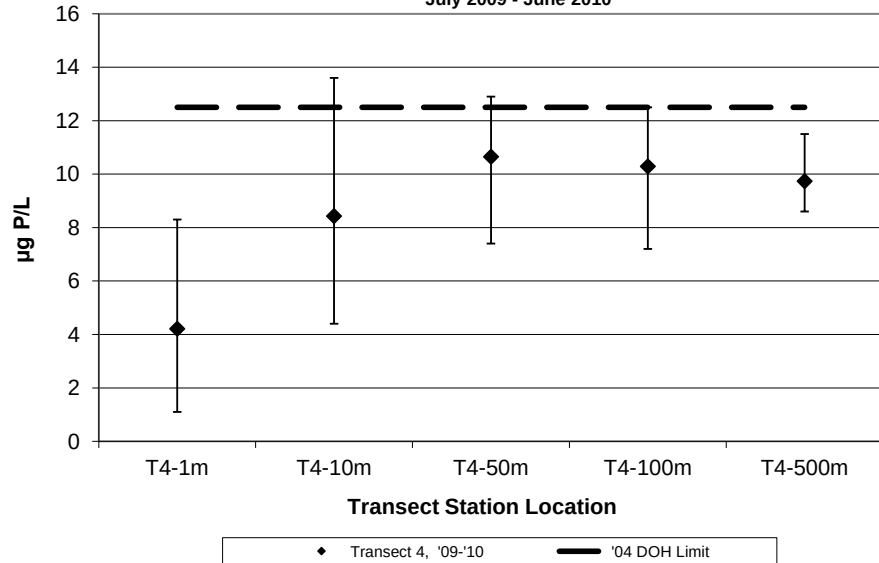
Transect 4 Station Summary
 Ortho-Phosphate Geometric Mean, July 2009 - June 2010



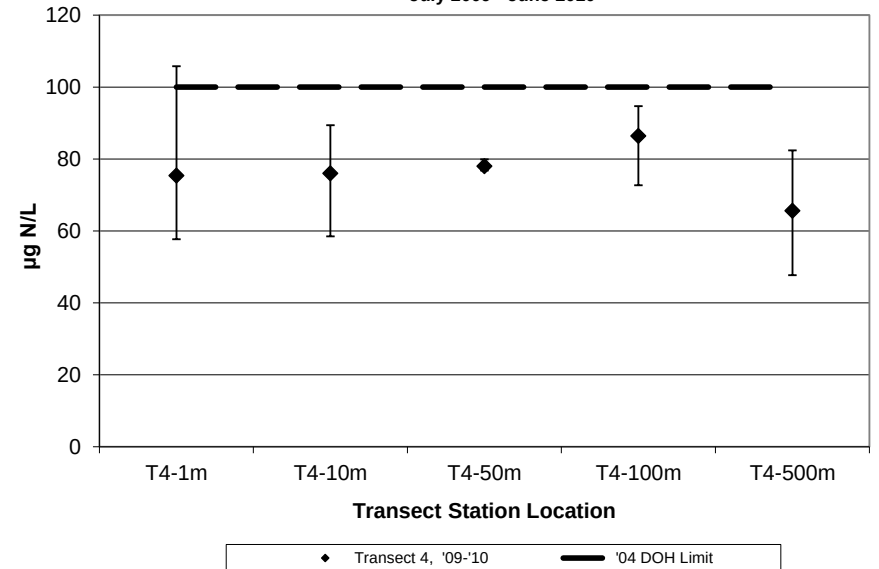
Transect 4 Station Summary
 Nitrate + Nitrite Geometric Mean, July 2009 - June 2010



Transect 4 Station Summary
 Total Dissolved Phosphorous Geometric Mean
 July 2009 - June 2010



Transect 4 Station Summary
 Total Dissolved Nitrogen Geometric Mean
 July 2009 - June 2010

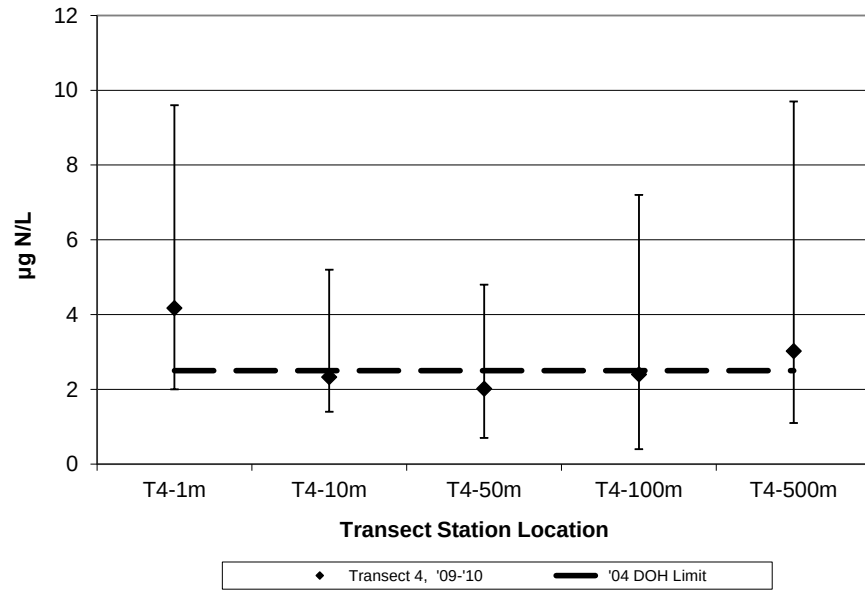


NELHA Water Quality Laboratory

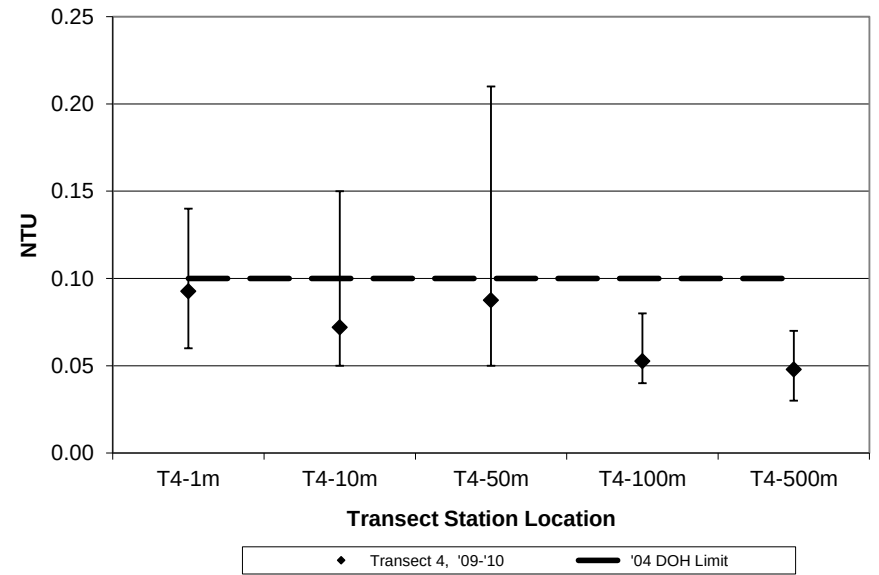
Transect 4

July 2009 - June 2010

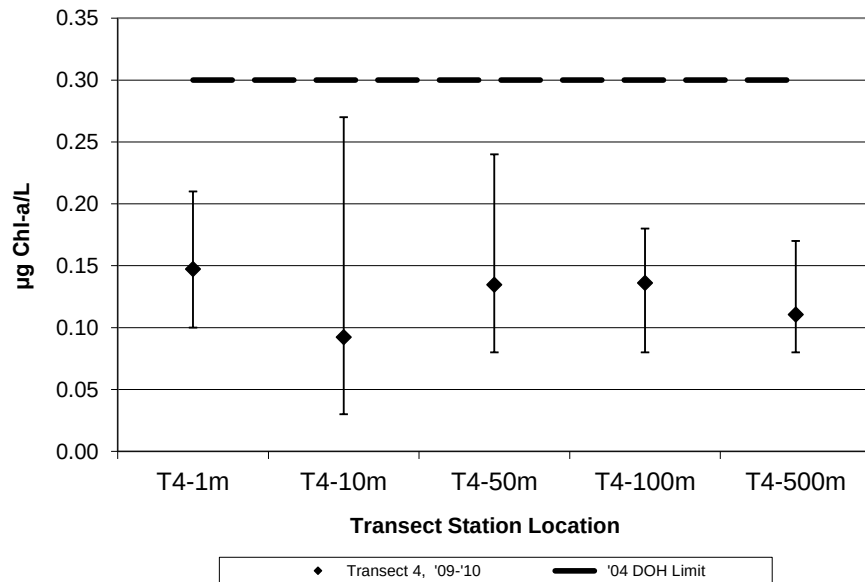
Transect 4 Station Summary
Ammonia Geometric Mean, July 2009 - June 2010



Transect 4 Station Summary
Turbidity Geometric Mean, July 2009 - June 2010



Transect 4 Station Summary
Chlorophyll-a Geometric Mean, July 2009 - June 2010



NELHA Water Quality Laboratory

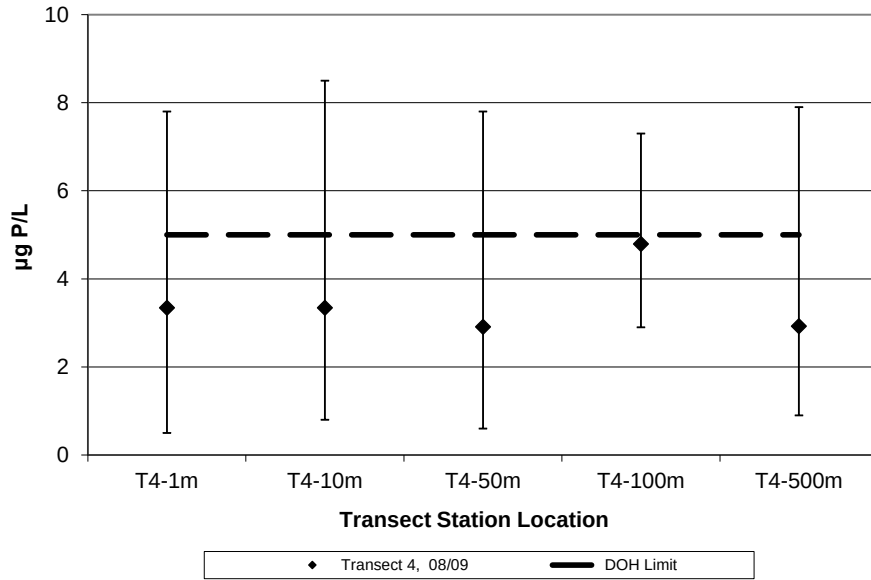
Transect 4

July 2008 - June 2009

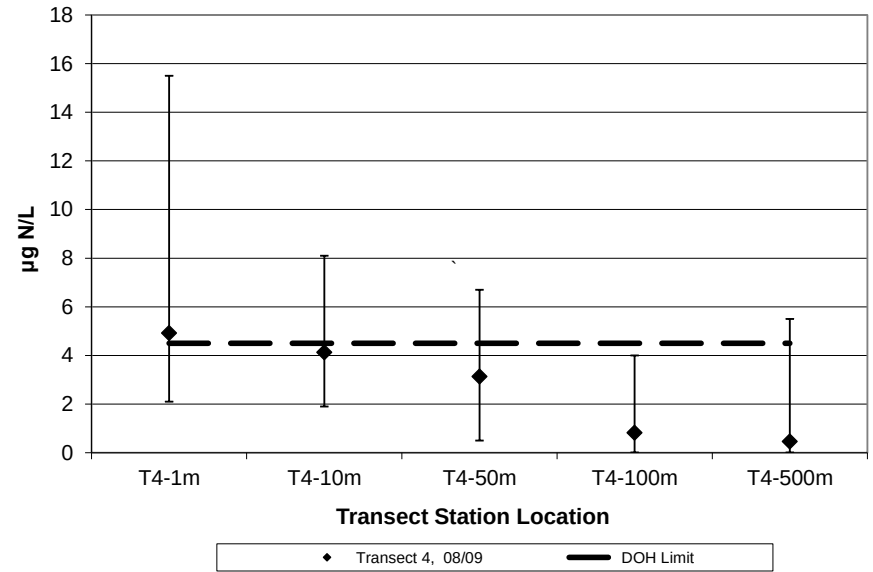
SITE ID	DATE M/D/Y	TIME (2400)	Tide (ft) (cycle)		PO4 (µM) (µg P/L)		NO3+NO2 (µM) (µg N/L)		NH3 (µM) (µg N/L)		Si (µM) (µg Si/L)		TDP (µM) (µg P/L)		TDN (µM) (µg N/L)		Turbidity (NTU)	Salinity (o/oo)	Temp. (°C)	pH	DO (ppm)	Chl a (µg/L)
					0.16	5	0.32	4.5	0.18	2.5			0.40	12.5	7.1	100	0.10					0.30
T4-1m	9/23/08	1035	2.1	High	0.02	0.5	0.15	2.1	0.37	5.2	1.8	50	0.23	7.2	5.4	76	0.08	34.837	26.7	8.07	6.31	0.07
T4-1m	12/8/08	937	0.9	Flood	0.16	5.0	0.28	3.9	0.14	1.9	2.1	59	0.26	8.1	5.4	76	0.13	34.968	26.0	8.29	5.64	0.10
T4-1m	2/10/09	838	0.8	Ebb	0.21	6.4	1.11	15.5	0.12	1.7	3.8	107	0.04	1.2	8.9	125	0.14	35.065	24.6	8.04	6.29	0.11
T4-1m	6/30/09	923	1.1	Ebb	0.25	7.8	0.33	4.6	0.81	11.4	4.2	118	0.35	10.8	4.4	61	0.27	34.886	26.8	8.21	5.95	0.15
Geomean	08/09				0.11	3.3	0.35	4.9	0.3	3.7			0.2	5.2	5.8	81	0.14					0.10
T4-10m	9/23/08	1042	2.2	High	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	0.10
T4-10m	12/8/08	949	0.9	Flood	0.17	5.4	0.32	4.5	0.29	4.0	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	0.7	Ebb	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	1.1	Ebb	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	08/09				0.11	3.3	0.29	4.1	0.21	2.9			0.35	10.8	5.6	78	0.11					0.08
T4-50m	9/23/08	1047	2.2	High	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	0.9	Flood	0.16	5.1	0.34	4.7	0.22	3.1	2.2	63	0.65	20.0	5.7	81	0.07	34.985	26.1	8.30	5.42	0.12
T4-50m	2/10/09	851	0.6	Ebb	0.10	3.0	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	1.1	Ebb	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	08/09				0.09	2.9	0.22	3.1	0.19	2.6			0.44	13.7	6.0	85	0.07					0.08
T4-100m	9/23/08	1052	2.2	High	0.17	5.3	0.00	0.0	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	0.9	Flood	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	0.6	Ebb	0.09	2.9	0.29	4.0	0.12	1.7	2.0	56	0.23	7.0	7.6	107	0.15	35.100	24.7	8.05	6.10	0.03
T4-100m	6/30/09	941	1.2	Ebb	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	0.10
Geomean	08/09				0.15	4.8	0.06	0.8	0.14	1.9			0.33	10.4	5.8	81	0.11					0.06
T4-500m	9/23/08	1100	2.2	High	0.03	0.9	0.00	0.0	0.18	2.5	1.1	30	0.16	5.1	4.73	66	0.06	34.833	26.7	8.07	6.07	0.03
T4-500m	12/8/08	1008	0.9	Flood	0.14	4.3	0.04	0.6	0.09	1.2	1.9	54	0.21	6.6	4.73	66	0.06	34.982	26.2	8.30	5.07	0.04
T4-500m	2/10/09	903	0.5	Ebb	0.08	2.4	0.10	1.4	0.12	1.7	2.0	56	0.24	7.3	6.45	90	0.08	35.096	24.7	8.07	6.08	0.03
T4-500m	6/30/09	951	1.2	Ebb	0.26	7.9	0.39	5.5	0.56	7.9	5.1	144	0.37	11.4	4.43	62	0.05	34.908	26.8	8.20	5.82	0.10
Geomean	08/09				0.09	2.9	0.03	0.5	0.18	2.5			0.23	7.3	5.0	70	0.06					0.04

NELHA Water Quality Laboratory
Transect 4
July 2008 - June 2009

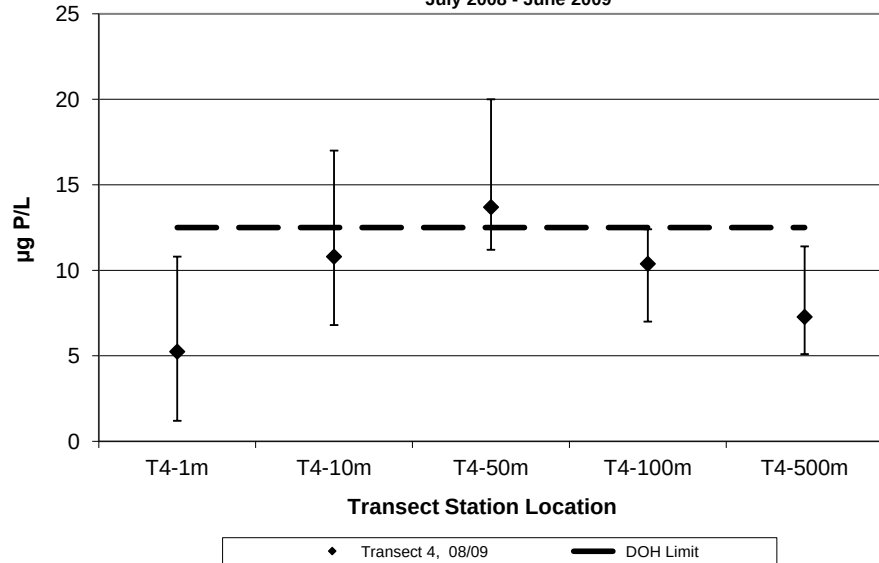
Transect 4 Station Summary
Ortho-Phosphate Geometric Mean, July 2008 - June 2009



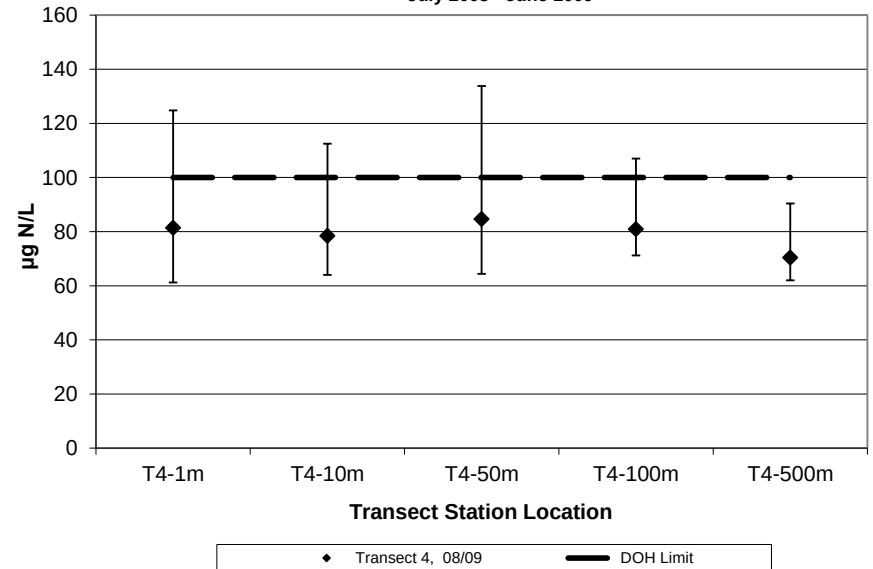
Transect 4 Station Summary
Nitrate + Nitrite Geometric Mean, July 2008 - June 2009



Transect 4 Station Summary
Total Dissolved Phosphorous Geometric Mean
July 2008 - June 2009



Transect 4 Station Summary
Total Dissolved Nitrogen Geometric Mean
July 2008 - June 2009

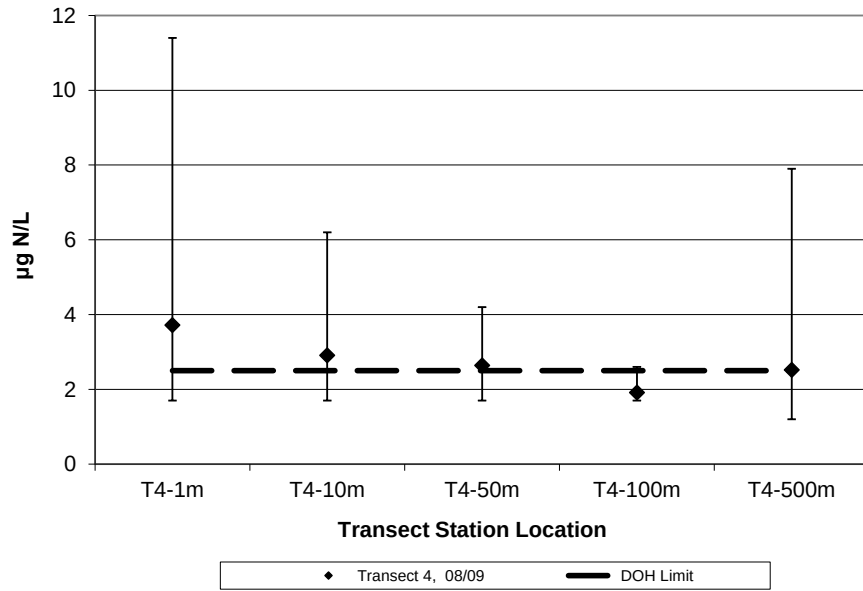


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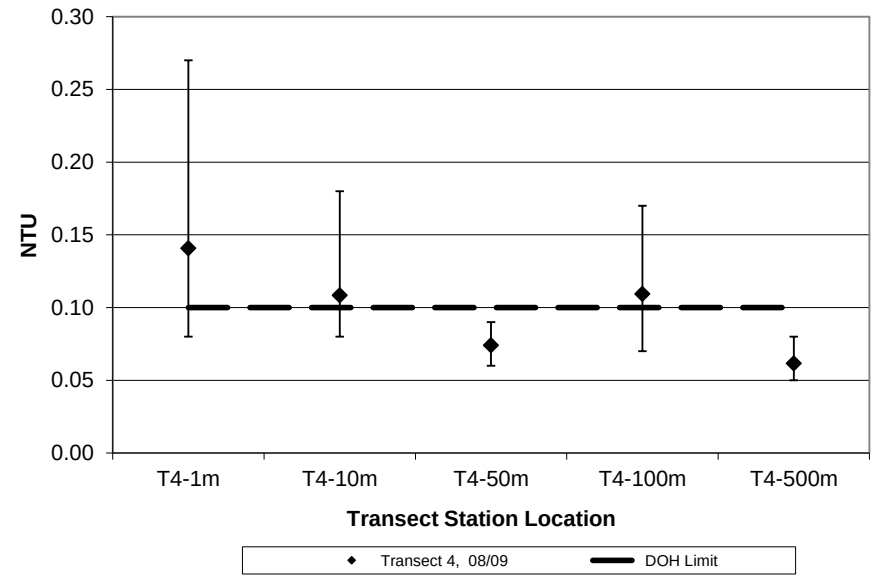
Transect 4

July 2008 - June 2009

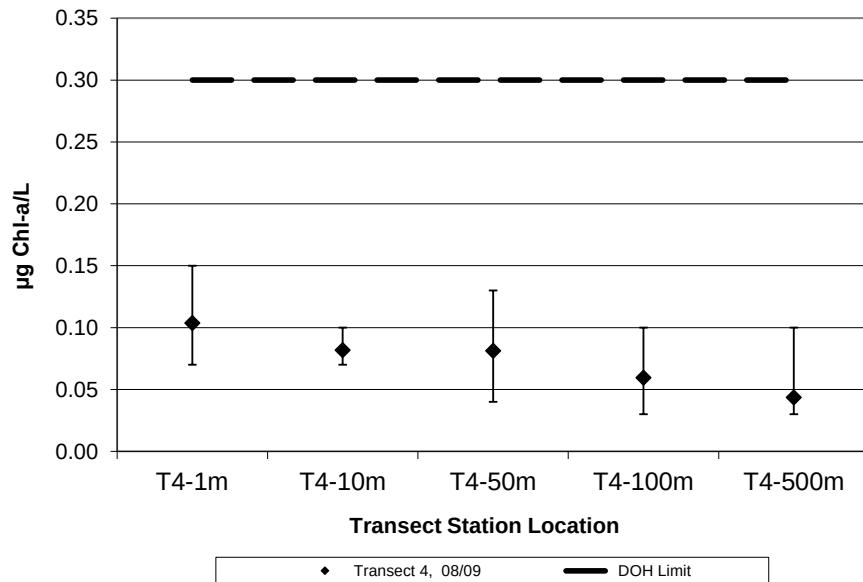
Transect 4 Station Summary
Ammonia Geometric Mean, July 2008 - June 2009



Transect 4 Station Summary
Turbidity Geometric Mean, July 2008 - June 2009



Transect 4 Station Summary
Chlorophyll-a Geometric Mean, July 2008 - June 2009



NELHA Water Quality Laboratory
FY 07/08, Transect 4

SITE ID	DATE D-M-Y	TIME (2400)	PO4 (µM) (µg P/L)		NO3+NO2 (µM) (µg N/L)		NH4 (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			0.16	5	0.32	4.5	0.18	2.5			0.40	12.5	7.1	100	0.10					0.3
T4-1m	26-Sep-07	1138	0.14	4.2	0.27	3.8	0.39	5.5	2.6	74	0.36	11.1	5.2	73	0.1	34.963	26.8	8.10	6.12	0.09
T4-1m	14-Dec-07	902	0.09	2.8	0.07	1.0			2.8	79	0.34	10.6	5.2	73	0.07	34.705	25.7	8.25	6.82	0.31
T4-1m	11-Mar-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	34.853	24.8	8.07	6.65	0.65
T4-1m	9-Jun-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	34.664	25.1	8.09	6.04	0.30
Geomean	07/08		0.11	3.5	0.27	3.8	0.2	2.1			0.3	9.4	5.7	80	0.11					0.21
T4-10m	26-Sep-07	1147	0.13	4.0	0.61	8.5	0.25	3.5	13.6	383	0.41	12.6	5.86	82	0.10	34.929	26.9	8.24	6.78	0.17
T4-10m	14-Dec-07	904	0.08	2.4	0.05	0.7			3.4	95	0.31	9.5	6.08	85	0.12	34.722	25.6	8.22	6.70	0.31
T4-10m	11-Mar-08	914	0.21	6.5	0.55	7.7	0.06	0.8	3.1	86	0.26	7.9	5.01	70	0.11	34.865	24.8	8.08	6.63	0.51
T4-10m	9-Jun-08	955	0.07	2.2	0.32	4.5	0.16	2.2	7.6	214	0.34	10.4	5.97	84	0.12	34.664	25.1	8.1	5.96	0.26
Geomean	07/08		0.11	3.4	0.27	3.8	0.13	1.8			0.32	10.0	5.7	80	0.10					0.17
T4-50m	26-Sep-07	1155	0.15	4.8	0.30	4.2	0.26	3.7	24.2	681	0.40	12.4	6.84	96	0.10	34.952	26.9	8.20	6.63	0.18
T4-50m	14-Dec-07	907	0.08	2.4	0.01	0.1			4.8	135	0.36	11.0	5.05	71	0.10	34.735	25.6	8.22	6.70	0.22
T4-50m	11-Mar-08	919	0.28	8.6	0.46	6.4	0.06	0.8	6.5	182	0.23	7.1	6.34	89	0.12	34.863	24.7	8.08	6.53	0.39
T4-50m	9-Jun-08	959	0.07	2.1	0.09	1.2	0.16	2.2	13.0	366	0.34	10.6	9.60	134	0.08	34.674	25.2	8.10	5.82	0.13
Geomean	07/08		0.12	3.8	0.10	1.3	0.13	1.9			0.32	10.1	6.8	95	0.11					0.21
T4-100m	26-Sep-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	14-Dec-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	11-Mar-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	9-Jun-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	34.699	25.8	8.11	5.70	0.10
Geomean	07/08		0.13	4.0	0.07	1.0	0.05	0.7			0.26	8.1	6.6	92	0.09					0.16
T4-500m	26-Sep-07	1220	0.15	4.6	0.01	0.1	0.16	2.2	2.3	66	0.01	0.3	5.90	83	0.05	34.975	26.86	8.17	6.26	0.06
T4-500m	14-Dec-07	818	0.08	2.6	0.01	0.1			2.3	66	0.34	10.6	6.36	89	0.08	34.747	25.75	8.23	6.59	0.09
T4-500m	11-Mar-08	928	0.03	0.8	0.14	1.9	0.06	0.8	8.3	232	0.07	2.2	6.78	95	0.12	34.867	24.81	8.10	6.54	0.36
T4-500m	9-Jun-08	1008	0.07	2.3	0.06	0.8	0.74	10.4	6.7	189	0.10	3.1	7.57	106	0.15	34.711	25.77	8.11	5.66	0.17
Geomean	07/08		0.07	2.2	0.03	0.4	0.19	2.6			0.07	2.2	6.6	93	0.09					0.13

