

**APPENDIX C**  
**WATER QUALITY DATA INCLUDING TRENDS**  
**(TROPIC STATE INDICES UPDATE THROUGH FY 2006)**

**ADDENDUM to Appendix C**  
**TROPHIC STATE INDICES UPDATE THROUGH FY 2006**

The 2006 SLMP was prepared using water quality data available through the end of FY 2003 (through September 2003). At the request of the City Commission, the water quality data presented in Appendix C has been updated through FY 2006. The water quality data were collected by the City of Maitland, while the annual average Trophic State Indices were calculated by MACTEC using formulas used by FDEP in assessing impairment under their Impaired Waters Rule (F.A.C. 62-303). MACTEC's analysis and conclusions as presented in the 2006 SLMP were based on water quality data through FY 2003, and the more recent data presented here was not considered in developing the 2006 SLMP

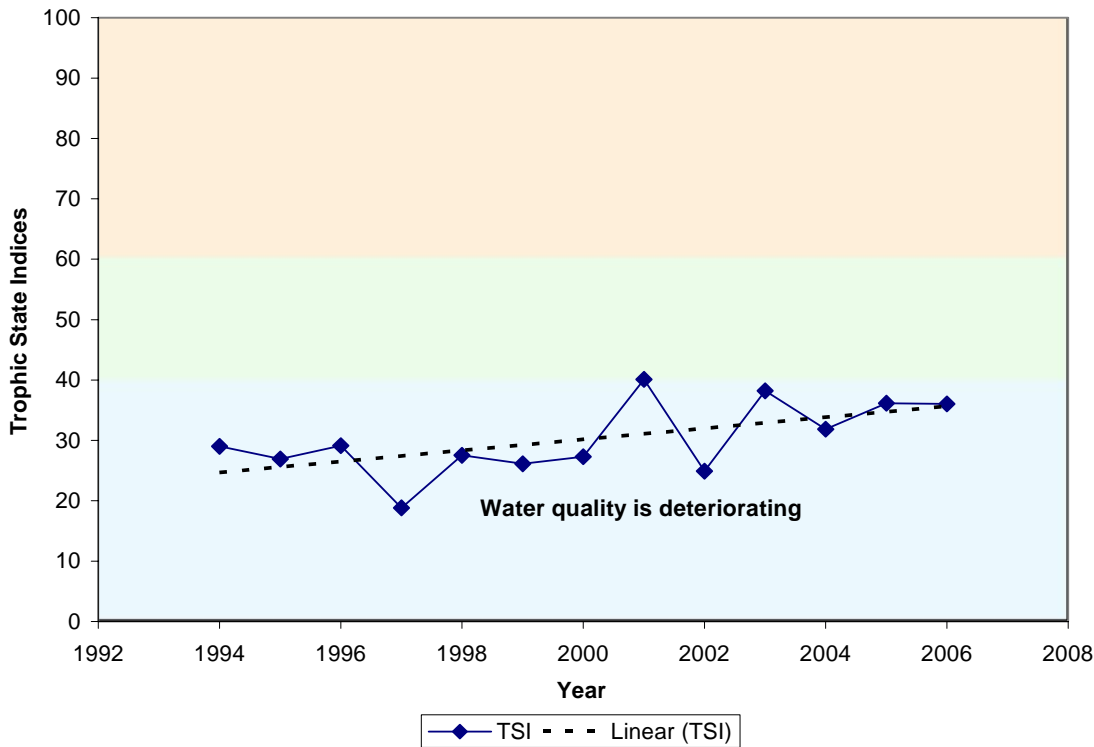
Water quality data for the 21 lakes was evaluated for the years 2004-2006. Data gaps for Lakes Lovely and Love were identified during these years where no samples were collected during this period due to overgrowth of weeds and the inability to launch the boat (a single sampling event, however, did occur in October, 2004 for Lake Love). Table 22 summarizes the yearly Trophic State Indices for the lakes of Maitland as well as their respective limiting nutrients. Lakes Eulalia, Faith, Gem, Hungerford, Jackson, Love, Maitland, Minnehaha, Nina, Shadow, and Sybelia are phosphorus limited, meaning the addition of phosphorus will result in increased algae production. The remaining lakes are all balanced, meaning that additions of either phosphorus or nitrogen may stimulate algae growth.

A lake, which has low nutrient concentrations in the water column, will typically have good water transparency because the algae densities are low. These lakes are termed oligotrophic and are generally considered as having excellent water quality. Lakes are assigned an oligotrophic status if their Trophic State Index was less than 50 (Brezonik 1984). During 2006, 20 out of the 21 City lakes were considered oligotrophic using this criterion. As nutrient concentrations increase in a lake, algae density increases and water transparency decreases. A lake with high levels of nutrients and algae is termed eutrophic. Eutrophic lakes are highly productive and will have the potential for water quality problems resulting from severe algae blooms that can deplete oxygen and form mucky organic layers on the lake bottom. Lakes were assigned a eutrophic status if Trophic State Index values were between 61 and 70. During 2006, one of City lakes, Lake Lovely, was considered eutrophic using this criterion.

Trophic State Index (TSI) is a summary water quality characteristic for lakes that indicates the degree of eutrophication. Trends in annual average TSI were examined to determine if lake-specific water quality was improving, deteriorating, or stable. These results were used to develop the most reliable estimate possible for the current data trophic state of each lake, and its probable future trophic state.

Linear regression analysis of TSI versus year was used to evaluate trends. Regression results are provided in this Addendum. A statistically significant deterioration in water quality was observed for Lake Catherine (Figure 1).

**Figure 1.** Yearly Trophic State Indices for Lake Catherine.



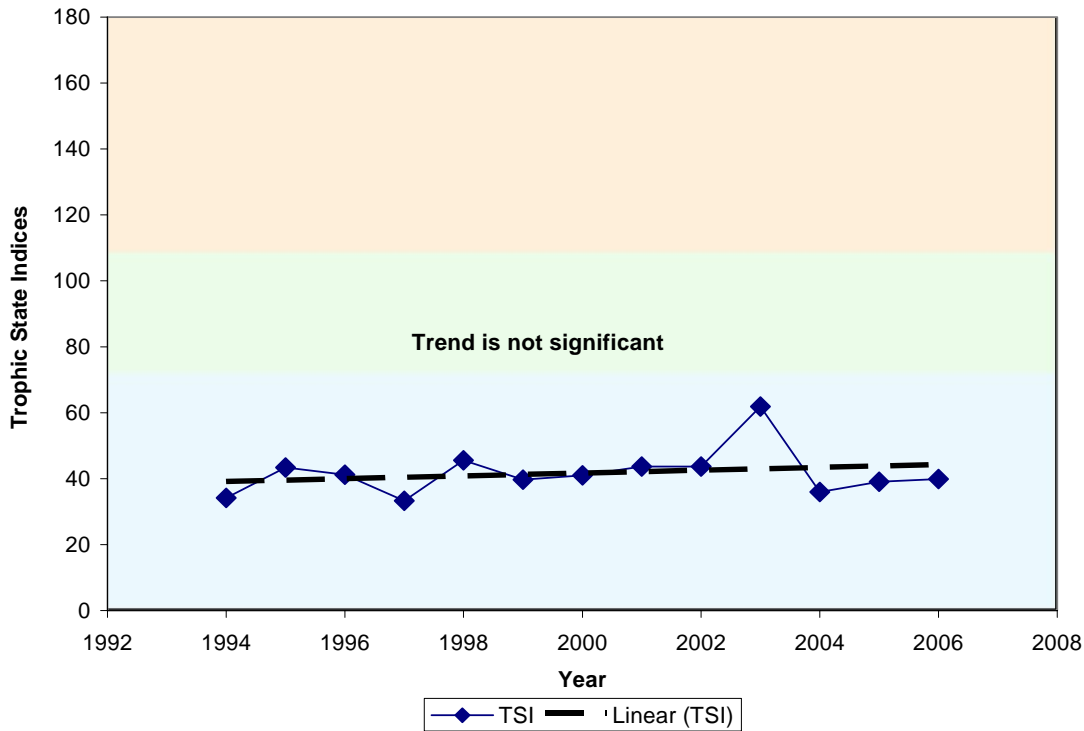
Source: MACTEC, 2007.

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All of the remaining Maitland lakes are stable, neither increasing or decreasing significantly (the trend is not significantly different from zero). These findings are illustrated in Figures 2-21 (for selected lakes) in this Addendum.

In evaluating Figure 4 there is no significant trend in TSI for Lake Eulalia. However, in the previous data set (1994-2003), a statistically significant deteriorating water quality trend was observed. Therefore, water quality has stabilized over the time period from 2004-2006.

**Figure 4.** Yearly Trophic Indices for Lake Eulalia.

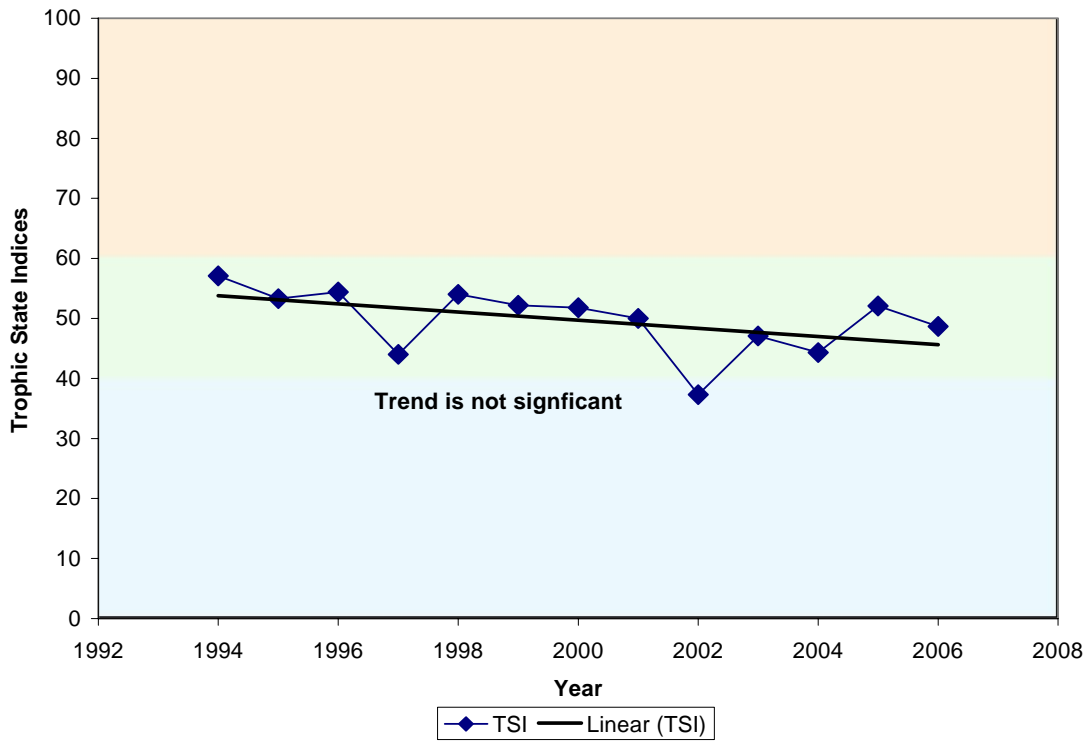


Source: MACTEC, 2007.

Prepared by: HRH Created by: WAT

Figures 16 and 17 also illustrate stabilized water quality trends for Lakes Maitland and Minnehaha where statistically significant improvements in water quality were previously observed in the 1994-2003 data.

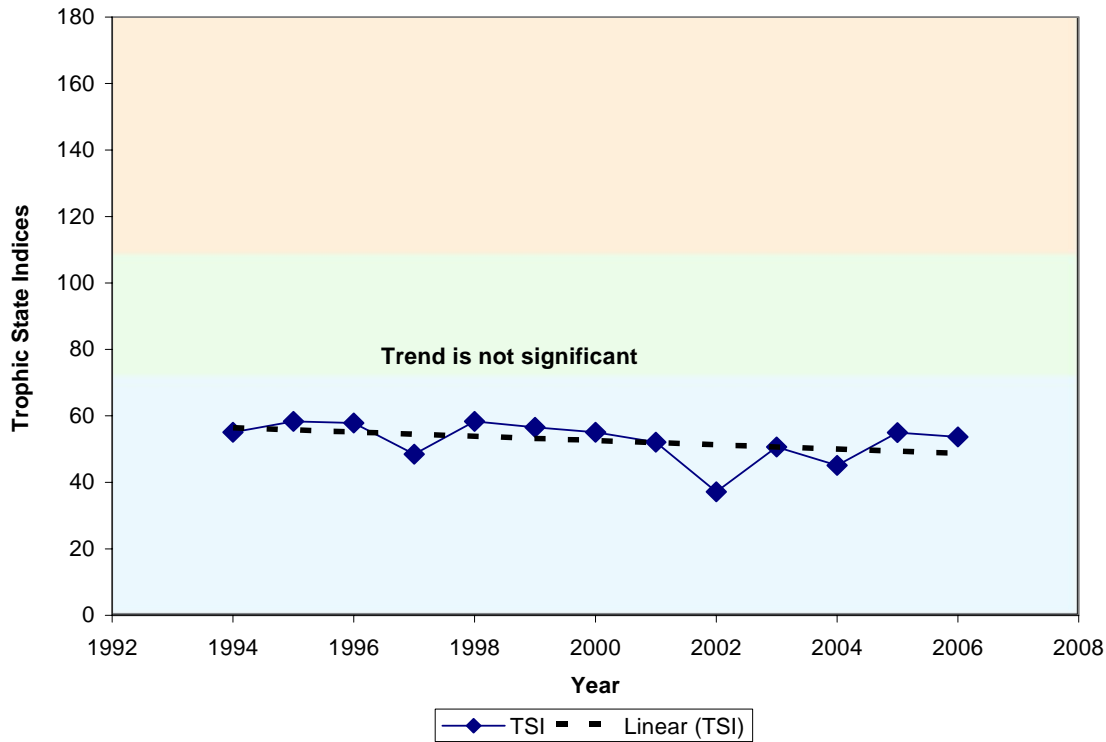
**Figure 16.** Yearly Trophic Indices for Lake Maitland.



Source: MACTEC, 2007.

Prepared by: HRH Created by: WAT

**Figure 17.** Yearly Trophic Indices for Lake Minnehaha.



Source: MACTEC, 2007.

Prepared by: HRH Created by: WAT

In summary, Lake Catherine was the only lake that displayed deteriorating water quality out of the 21 lakes. All of the other lakes demonstrated stabilized water quality trends where their respective trophic state indices are neither increasing nor decreasing significantly.

Regression Data Sheet for City of Maitland Lakes

Table 1. Catherine Geocenter

Date	Parameter Units													
	Alk. (mg/l)	pH	T.P. (mg/l)	O.P. (mg/l)	T.N. (mg/l)	NH3 (mg/l)	Nox (mg/l)	TKN (mg/l)	TSS (mg/l)	VSS (mg/l)	TDS (mg/l)	T.C. (100ml)	S.D. (ft)	Chl-a (mg/m <sup>3</sup> )
Oct-03	25.30	7.17	0.021	0.004	0.66	0.020	0.020	0.661	1.00	1.00	140.00	54.00	10.00	1.10
Nov-03	15.20	7.39	0.016	0.004	0.55	0.020	0.020	0.554	2.00	2.00	136.00	320.00	10.00	2.60
Dec-03	76.40	6.94	0.021	0.004	0.70	0.020	0.030	0.673	1.00	1.00	140.00	218.00	10.00	0.50
Jan-04	12.30	7.95	0.024	0.004	0.78	0.020	0.020	0.778	1.50	1.50	146.00	100.00	10.00	2.40
Feb-04	43.60	7.63	0.023	0.013	0.66	0.020	0.020	0.659	6.00	6.00	134.00	81.00	10.00	7.40
Mar-04	15.80	7.40	0.007	0.004	0.54	0.020	0.020	0.543	1.00	1.00	148.00	450.00	10.00	0.50
Apr-04	14.30	7.10	0.032	0.005	0.55	0.020	0.020	0.552	1.00	1.00	146.00	20.00	9.50	0.50
May-04	20.00	7.27	0.006	0.004	0.29	0.020	0.020	0.290	1.00	1.00	154.00	20.00	9.50	0.50
Jun-04	29.40	6.16	0.006	0.005	0.48	0.020	0.022	0.462	1.00	1.00	144.00	90.00	10.00	4.30
Jul-04	18.90	6.84	0.014	0.006	0.55	0.020	0.020	0.548	1.00	1.00	162.00	10.00	11.50	2.30
Aug-04														
Sep-04	19.00	6.85	0.014	0.008	0.46	0.020	0.020	0.455	1.00	1.00	132.00	30.00	9.00	4.40
<b>Average</b>	<b>27.74</b>	<b>7.13</b>	<b>0.016</b>	<b>0.006</b>	<b>0.56</b>	<b>0.020</b>	<b>0.021</b>	<b>0.551</b>	<b>1.61</b>	<b>1.61</b>	<b>145.11</b>	<b>113.22</b>	<b>9.94</b>	<b>2.53</b>
Oct-04														
Nov-04														
Dec-04			0.039	0.003	0.49	0.008	0.018	0.472				36.00	11.90	4.40
Jan-05			0.023	0.014	0.48	0.008	0.059	0.423				2.00	11.60	1.70
Feb-05			0.009	0.003	0.41	0.008	0.015	0.394				10.00	11.50	1.70
Mar-05			0.030	0.004	0.48	0.020	0.050	0.483				2.00	11.40	2.00
Apr-05			0.081	0.004	0.10	0.020	0.050	0.102				10.00	11.40	1.30
May-05			0.049	0.004	0.68	0.020	0.050	0.676				30.00	11.10	6.70
Jun-05			0.030	0.004	0.55	0.092	0.050	0.546				170.00	11.70	0.61
Jul-05			0.020	0.007	0.55	0.020	0.050	0.545				20.00	9.00	0.50
Aug-05			0.062	0.004	0.43	0.020	0.050	0.431				430.00	12.00	1.80
Sep-05			0.020	0.004	0.52	0.020	0.050	0.515				1.00	12.20	0.50
<b>Average</b>			<b>0.036</b>	<b>0.005</b>	<b>0.47</b>	<b>0.024</b>	<b>0.044</b>	<b>0.463</b>				<b>71.10</b>	<b>11.38</b>	<b>2.12</b>
Oct-05			0.1510	0.0036	0.491	0.020	0.0500	0.491				189	12.0	1.20
Nov-05			0.2670	0.0150	0.450	0.020	0.0500	0.450				16	12.0	2.00
Dec-05			0.0400	0.0036	0.567	0.020	0.0500	0.567				20	8.0	3.40
Jan-06			0.0400	0.0036	0.489	0.020	0.0500	0.489				118	8.0	1.30
Feb-06			0.0400	0.0036	0.616	0.020	0.0500	0.616				20	12.0	1.94
Mar-06			0.0400	0.0036	0.440	0.020	0.0500	0.440				10	14.0	2.10
Apr-06			0.0250	0.0036	0.536	0.099	0.0500	0.536				10	15.0	2.90
May-06			0.0400	0.0036	0.457	0.020	0.0500	0.457				10	13.0	2.30
Jun-06			0.0400	0.0036	0.506	0.020	0.0500	0.506				20	0.0	3.00
Jul-06			0.0475	0.0036	0.411	0.020	0.0500	0.411				45	12.0	3.50
Aug-06			0.0436	0.0050	0.680	0.020	0.0500	0.680				20	8.0	1.30
Sep-06			0.0501	0.0036	0.583	0.020	0.0180	0.583				90	9.0	3.20
<b>Average</b>			<b>0.069</b>	<b>0.005</b>	<b>0.52</b>	<b>0.027</b>	<b>0.047</b>	<b>0.519</b>				<b>47.33</b>	<b>10.25</b>	<b>2.35</b>

Source: City of Maitland, 2007.

Prepared by: HRH

Created by: ADG

Regression Data Sheet for City of Maitland Lakes

Table 2. Charity Geocenter

Date	Parameter Units													
	Alk. (mg/l)	pH	T.P. (mg/l)	O.P. (mg/l)	T.N. (mg/l)	NH3 (mg/l)	Nox (mg/l)	TKN (mg/l)	TSS (mg/l)	VSS (mg/l)	TDS (mg/l)	T.C. (100ml)	S.D. (ft)	Chl-a (mg/m <sup>3</sup> )
Oct-03	14.30	6.73	0.018	0.004	0.69	0.020	0.020	0.692	1.00	1.00	118.00	20.00	6.00	1.40
Nov-03	36.80	7.17	0.013	0.004	0.63	0.020	0.020	0.629	1.00	1.00	134.00	30.00	5.00	0.50
Dec-03	14.30	7.11	0.018	0.004	0.65	0.020	0.034	0.620	1.50	1.50	126.00	50.00	5.00	0.50
Jan-04	14.10	6.97	0.025	0.004	0.69	0.020	0.044	0.645	1.00	1.00	128.00	20.00	6.00	1.20
Feb-04														
Mar-04	16.00	7.33	0.013	0.005	0.57	0.020	0.020	0.573	1.00	1.00	116.00	10.00	4.50	1.10
Apr-04	17.00	7.35	0.026	0.004	0.55	0.020	0.020	0.546	1.50	1.50	142.00	10.00	5.00	0.50
May-04	24.30	7.57	0.006	0.004	0.49	0.020	0.020	0.490	1.00	1.00	134.00	27.00	4.00	0.50
Jun-04	23.20	7.17	0.006	0.005	0.74	0.020	0.020	0.742	2.40	2.40	118.00	10.00	5.00	1.30
Jul-04	16.30	7.45	0.021	0.008	0.48	0.020	0.020	0.483	1.00	1.00	138.00	20.00	5.00	1.80
Aug-04	12.90	7.05	0.034	0.010	1.76	0.029	0.020	1.760	2.50	2.50	140.00	54.00	5.00	4.10
Sep-04	13.80	6.91	0.028	0.005	0.50	0.020	0.020	0.504	1.00	1.00	136.00	60.00	6.90	5.50
<b>Average</b>	<b>16.88</b>	<b>7.21</b>	<b>0.020</b>	<b>0.005</b>	<b>0.71</b>	<b>0.021</b>	<b>0.024</b>	<b>0.707</b>	<b>1.49</b>	<b>1.49</b>	<b>130.89</b>	<b>29.00</b>	<b>5.16</b>	<b>1.83</b>
Oct-04														
Nov-04			0.020	0.004	0.68	0.008	0.043	0.635				30.00	7.00	3.30
Dec-04			0.039	0.005	0.68	0.008	0.032	0.646				10.00	8.30	2.40
Jan-05			0.033	0.003	0.78	0.008	0.210	0.567				27.00	8.00	4.60
Feb-05			0.009	0.003	0.58	0.008	0.020	0.560				2.00	7.00	3.20
Mar-05			0.067	0.005	1.10	0.020	0.050	1.100				10.00	7.00	3.20
Apr-05			0.074	0.004	0.27	0.020	0.050	0.268				10.00	7.00	1.30
May-05			0.035	0.004	0.90	0.020	0.050	0.899				45.00	7.30	6.60
Jun-05			0.022	0.004	0.43	0.094	0.050	0.434				30.00	8.00	1.22
Jul-05			0.032	0.004	0.66	0.020	0.050	0.664				60.00	10.00	2.23
Aug-05			0.020	0.004	0.54	0.020	0.050	0.540				30.00	8.80	7.10
Sep-05			0.020	0.004	0.55	0.020	0.050	0.554				50.00	8.40	3.90
<b>Average</b>			<b>0.034</b>	<b>0.004</b>	<b>0.65</b>	<b>0.022</b>	<b>0.060</b>	<b>0.630</b>				<b>27.64</b>	<b>7.89</b>	<b>3.55</b>
Oct-05			0.0298	0.0040	0.532	0.020	0.0500	0.532				82	8.0	3.80
Nov-05			0.0260	0.0120	0.451	0.020	0.0500	0.451				20	7.0	4.01
Dec-05			0.0400	0.0036	0.588	0.020	0.0636	0.524				10	8.0	0.60
Jan-06			0.0400	0.0036	0.573	0.020	0.0700	0.503				72	9.0	0.60
Feb-06			0.0400	0.0036	0.588	0.020	0.0500	0.588				200	10.0	1.93
Mar-06			0.0400	0.0036	0.507	0.020	0.0500	0.507				54	12.0	2.90
Apr-06			0.0250	0.0036	0.479	0.039	0.0500	0.479				10	10.0	2.10
May-06			0.0464	0.0036	0.749	0.020	0.0500	0.749				10	9.0	0.70
Jun-06			0.0400	0.0036	0.586	0.020	0.0500	0.586				10	12.0	3.90
Jul-06			0.0400	0.0036	0.453	0.020	0.0500	0.453				45	8.0	5.30
Aug-06			0.0682	0.0050	0.473	0.020	0.0500	0.473				10	9.0	4.20
Sep-06			0.0472	0.0036	0.683	0.020	0.0180	0.683				55	5.0	16.20
<b>Average</b>			<b>0.040</b>	<b>0.004</b>	<b>0.56</b>	<b>0.022</b>	<b>0.050</b>	<b>0.544</b>				<b>48.17</b>	<b>8.92</b>	<b>3.85</b>

Source: City of Maitland, 2007.

Prepared by: HRH

Created by: ADG

Regression Data Sheet for City of Maitland Lakes

Table 3. Destiny Geocenter

Date	Parameter Units													
	Alk. (mg/l)	pH	T.P. (mg/l)	O.P. (mg/l)	T.N. (mg/l)	NH3 (mg/l)	Nox (mg/l)	TKN (mg/l)	TSS (mg/l)	VSS (mg/l)	TDS (mg/l)	T.C. (100ml)	S.D. (ft)	Chl-a (mg/m <sup>3</sup> )
Oct-03	30.40	7.18	0.015	0.004	0.48	0.020	0.020	0.475	1.00	1.00	94.00	20.00	5.00	0.50
Nov-03	33.10	7.54	0.010	0.004	0.39	0.020	0.020	0.392	3.50	3.50	82.00	72.00	8.00	0.50
Dec-03	34.00	7.40	0.009	0.004	0.44	0.020	0.020	0.439	1.00	1.00	92.00	45.00	8.00	0.50
Jan-04	31.20	7.58	0.014	0.004	0.49	0.020	0.020	0.493	1.00	1.00	102.00	127.00	8.00	0.60
Feb-04														
Mar-04	33.00	7.52	0.006	0.004	0.50	0.029	0.020	0.499	1.00	1.00	92.00	36.00	7.50	0.50
Apr-04	12.80	8.07	0.020	0.004	0.42	0.020	0.020	0.425	1.00	1.00	106.00	20.00	9.00	0.50
May-04	34.90	7.97	0.006	0.004	0.26	0.020	0.020	0.265	1.00	1.00	102.00	320.00	7.00	0.50
Jun-04	16.60	9.06	0.006	0.005	0.43	0.020	0.020	0.431	1.00	1.00	92.00	50.00	7.50	0.50
Jul-04	34.80	7.92	0.024	0.006	0.30	0.020	0.020	0.301	1.00	1.00	98.00	10.00	7.50	0.60
Aug-04	34.40	7.38	0.013	0.008	0.26	0.020	0.020	0.258	1.00	1.00	94.00	72.00	7.50	0.50
Sep-04	29.00	7.61	0.012	0.005	0.42	0.020	0.020	0.416	1.00	1.00	96.00	10.00	9.00	1.30
<b>Average</b>	<b>28.97</b>	<b>7.83</b>	<b>0.012</b>	<b>0.005</b>	<b>0.39</b>	<b>0.021</b>	<b>0.020</b>	<b>0.392</b>	<b>1.00</b>	<b>1.00</b>	<b>97.11</b>	<b>76.67</b>	<b>7.89</b>	<b>0.61</b>
Oct-04			0.024	0.005	0.60	0.020	0.185	0.414				63.00	9.00	1.50
Nov-04			0.020	0.006	0.13	0.008	0.012	0.121				54.00	7.50	1.50
Dec-04			0.018	0.003	0.55	0.008	0.008	0.543				10.00	7.80	1.00
Jan-05			0.02	0.003	0.31	0.008	0.005	0.311				30.00	9.00	0.70
Feb-05			0.009	0.003	0.43	0.008	0.005	0.427				10.00	7.50	1.30
Mar-05			0.024	0.003	0.42	0.020	0.050	0.423				1.00	9.30	5.00
Apr-05			0.087	0.004	0.10	0.020	0.050	0.102				20.00	8.00	4.30
May-05			0.047	0.004	0.61	0.020	0.050	0.605				10.00	8.80	5.50
Jun-05			0.018	0.004	0.50	0.092	0.050	0.497				150.00	8.00	1.00
Jul-05			0.020	0.004	0.45	0.020	0.050	0.449				45.00	14.00	1.17
Aug-05			0.070	0.005	0.35	0.020	0.050	0.352				620.00	9.30	1.00
Sep-05			0.020	0.004	0.31	0.020	0.050	0.313				1.00	9.30	1.90
<b>Average</b>			<b>0.031</b>	<b>0.004</b>	<b>0.40</b>	<b>0.022</b>	<b>0.047</b>	<b>0.386</b>				<b>84.50</b>	<b>8.96</b>	<b>2.16</b>
Oct-05			0.1970	0.0036	0.431	0.020	0.0500	0.431				91	12.0	0.50
Nov-05			0.0245	0.0130	0.310	0.020	0.0500	0.310				30	14.0	0.55
Dec-05			0.0400	0.0036	0.618	0.020	0.0500	0.618				109	14.0	0.60
Jan-06			0.0400	0.0036	0.332	0.020	0.0500	0.332				40	13.0	0.60
Feb-06			0.0468	0.0036	0.483	0.020	0.0500	0.483				60	15.0	3.03
Mar-06			0.0400	0.0036	0.611	0.020	0.0500	0.611				109	12.0	1.40
Apr-06			0.0250	0.0036	0.448	0.101	0.0500	0.448				10	9.0	2.00
May-06			0.0400	0.0036	0.537	0.020	0.0500	0.537				60	6.0	2.30
Jun-06			0.0400	0.0036	0.544	0.020	0.0500	0.544				2,000	12.0	5.80
Jul-06			0.0458	0.0036	0.473	0.020	0.0500	0.473				10	12.0	2.40
Aug-06			0.0739	0.0050	0.336	0.020	0.0500	0.336				60	10.0	2.10
Sep-06			0.0400	0.0036	0.535	0.020	0.0288	0.506				189	8.0	2.20
<b>Average</b>			<b>0.054</b>	<b>0.005</b>	<b>0.47</b>	<b>0.027</b>	<b>0.048</b>	<b>0.469</b>				<b>230.67</b>	<b>11.42</b>	<b>1.96</b>

Source: City of Maitland, 2007.

Prepared by: HRH

Created by: ADG

Regression Data Sheet for City of Maitland Lakes

Table 4. Eulalia Geocenter

Date	Parameter Units													
	Alk. (mg/l)	pH	T.P. (mg/l)	O.P. (mg/l)	T.N. (mg/l)	NH3 (mg/l)	Nox (mg/l)	TKN (mg/l)	TSS (mg/l)	VSS (mg/l)	TDS (mg/l)	T.C. (100ml)	S.D. (ft)	Chl-a (mg/m <sup>3</sup> )
Oct-03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nov-03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dec-03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Jan-04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Feb-04														
Mar-04	13.20	7.56	0.008	0.004	0.60	0.045	0.041	0.563	1.00	1.00	112.00	1730.00	7.50	0.50
Apr-04	13.40	7.17	0.032	0.005	0.57	0.020	0.020	0.573	3.00	3.00	122.00	60.00	7.50	0.50
May-04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Jun-04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Jul-04	15.80	6.78	0.021	0.007	0.40	0.020	0.020	0.398	3.30	3.30	136.00	171.00	7.00	5.00
Aug-04	16.10	7.19	0.024	0.008	0.90	0.022	0.018	0.881	1.00	1.00	136.00	54.00	7.15	3.20
Sep-04	16.10	6.48	0.012	0.008	0.37	0.020	0.020	0.371	1.00	1.00	122.00	70.00	10.00	4.40
<b>Average</b>	<b>14.92</b>	<b>7.04</b>	<b>0.019</b>	<b>0.006</b>	<b>0.57</b>	<b>0.025</b>	<b>0.024</b>	<b>0.557</b>	<b>1.86</b>	<b>1.86</b>	<b>125.60</b>	<b>417.00</b>	<b>7.83</b>	<b>2.72</b>
Oct-04			0.016	0.005	0.56	0.020	0.032	0.527				220.00	9.60	5.40
Nov-04			0.020	0.006	0.20	0.008	0.019	0.184				45.00	9.00	6.30
Dec-04			0.035	0.005	0.55	0.020	0.042	0.506				54.00	9.00	2.70
Jan-05			0.023	0.022	0.40	0.008	0.074	0.321				10.00	9.90	1.30
Feb-05			0.009	0.003	0.52	0.008	0.039	0.482				30.00	8.50	1.00
Mar-05			0.032	0.0034	0.27	0.020	0.050	0.271				40.00	9.30	2.50
Apr-05			0.077	0.0036	0.16	0.020	0.050	0.158				10.00	8.90	1.20
May-05			0.052	0.0036	0.69	0.020	0.050	0.685				20.00	8.10	6.60
Jun-05			0.020	0.0036	0.44	0.090	0.050	0.443				50.00	9.00	3.06
Jul-05			0.024	0.0036	0.53	0.020	0.050	0.526				30.00	8.00	3.84
Aug-05			0.049	0.0036	0.49	0.020	0.050	0.492				109.00	10.10	4.70
Sep-05			0.0737	0.0036	0.36	0.020	0.050	0.360				90.00	10.10	2.00
<b>Average</b>			<b>0.036</b>	<b>0.006</b>	<b>0.43</b>	<b>0.023</b>	<b>0.046</b>	<b>0.406</b>				<b>59.00</b>	<b>9.13</b>	<b>3.38</b>
Oct-05			0.0200	0.0036	0.548	0.0200	0.0567	0.4910				118	11.0	1.90
Nov-05			0.0267	0.0160	0.431	0.0200	0.0500	0.4310				1,240	14.0	2.00
Dec-05			0.0400	0.0036	0.589	0.0200	0.1170	0.4720				72	10.0	1.60
Jan-05														
Feb-06			0.0460	0.0036	0.670	0.0200	0.0932	0.5770				40	13.0	0.50
Mar-06			0.0459	0.0036	0.334	0.0200	0.0500	0.3340				10	10.0	2.20
Apr-06			0.0250	0.0036	0.539	0.0711	0.0500	0.539				30	10.0	2.90
May-06			0.0400	0.0036	0.536	0.0200	0.0500	0.536				40	5.5	3.10
Jun-06			0.0400	0.0036	0.527	0.0200	0.0500	0.527				80	0.0	6.10
Jul-06			0.0413	0.0036	0.509	0.0200	0.0500	0.509				73	15.6	4.40
Aug-06			0.0647	0.0060	0.562	0.0200	0.0500	0.562				81	6.0	4.80
Sep-06			0.0400	0.0036	0.733	0.0200	0.0346	0.698				100	9.0	4.40
<b>Average</b>			<b>0.039</b>	<b>0.005</b>	<b>0.54</b>	<b>0.025</b>	<b>0.059</b>	<b>0.516</b>				<b>171.27</b>	<b>9.46</b>	<b>3.08</b>

Source: City of Maitland, 2007.

Prepared by: HRH

Created by: ADG

Regression Data Sheet for City of Maitland Lakes

Table 5. Faith Geocenter

Date	Parameter Units													
	Alk. (mg/l)	pH	T.P. (mg/l)	O.P. (mg/l)	T.N. (mg/l)	NH3 (mg/l)	Nox (mg/l)	TKN (mg/l)	TSS (mg/l)	VSS (mg/l)	TDS (mg/l)	T.C. (100ml)	S.D. (ft)	Chl-a (mg/m <sup>3</sup> )
Oct-03	23.50	7.11	0.018	0.004	0.69	0.020	0.020	0.690	1.00	1.00	130.00	10.00	8.00	0.70
Nov-03	32.70	7.64	0.013	0.004	0.45	0.020	0.020	0.450	1.00	1.00	132.00	10.00	8.80	0.70
Dec-03	32.70	7.18	0.009	0.004	0.61	0.020	0.048	0.560	1.00	1.00	136.00	20.00	8.00	0.50
Jan-04	31.70	7.10	0.021	0.004	0.66	0.020	0.072	0.585	1.00	1.00	128.00	10.00	8.00	0.50
Feb-04														
Mar-04	34.00	7.50	0.010	0.004	0.49	0.020	0.020	0.494	1.00	1.00	124.00	10.00	7.00	0.50
Apr-04	38.00	7.57	0.022	0.006	0.42	0.020	0.020	0.425	1.00	1.00	142.00	10.00	9.00	0.50
May-04	21.50	8.17	0.006	0.004	0.29	0.020	0.020	0.291	1.00	1.00	138.00	10.00	7.50	0.50
Jun-04	30.70	6.77	0.006	0.005	0.42	0.020	0.020	0.418	1.00	1.00	128.00	10.00	8.00	0.50
Jul-04	34.30	6.98	0.009	0.005	0.47	0.020	0.020	0.471	1.00	1.00	152.00	40.00	9.00	1.50
Aug-04	13.30	7.34	0.018	0.008	0.07	0.020	0.020	0.050	1.00	1.00	134.00	2.00	8.50	1.30
Sep-04	41.40	7.39	0.020	0.005	0.38	0.020	0.020	0.385	1.00	1.00	136.00	45.00	12.50	0.50
<b>Average</b>	<b>30.84</b>	<b>7.33</b>	<b>0.013</b>	<b>0.005</b>	<b>0.42</b>	<b>0.020</b>	<b>0.029</b>	<b>0.409</b>	<b>1.00</b>	<b>1.00</b>	<b>135.33</b>	<b>17.44</b>	<b>8.61</b>	<b>0.70</b>
Oct-04			0.008	0.009	0.570	0.020	0.035	0.532				30.00	12.40	3.70
Nov-04			0.020	0.006	0.480	0.169	0.067	0.415				14000.00	9.00	1.90
Dec-04			0.025	0.003	0.740	0.021	0.070	0.674				10.00	12.30	2.40
Jan-05			0.023	0.009	0.640	0.008	0.240	0.396				20.00	12.00	1.30
Feb-05			0.009	0.004	0.360	0.008	0.074	0.283				27.00	7.50	0.70
Mar-05			0.046	0.005	0.972	0.020	0.082	0.890				10.00	8.50	0.60
Apr-05			0.086	0.004	0.102	0.020	0.050	0.102				10.00	12.40	1.80
May-05			0.053	0.004	0.685	0.020	0.050	0.685				10.00	11.00	6.20
Jun-05			0.018	0.004	0.303	0.094	0.050	0.303				50.00	10.60	0.50
Jul-05			0.039	0.001	0.551	0.020	0.050	0.551				54.00	8.00	1.17
Aug-05			0.020	0.004	0.373	0.020	0.050	0.373				100.00	13.10	1.10
Sep-05			0.392	0.004	0.299	0.020	0.050	0.299				10.00	13.20	2.00
<b>Average</b>			<b>0.062</b>	<b>0.005</b>	<b>0.51</b>	<b>0.037</b>	<b>0.072</b>	<b>0.464</b>				<b>1194.25</b>	<b>10.83</b>	<b>1.95</b>
Oct-05			0.008	0.0036	0.471	0.020	0.0500	0.471				116	15.0	1.30
Nov-05			0.022	0.0100	0.397	0.020	0.0500	0.397				10	13.0	1.13
Dec-05			0.040	0.0036	0.501	0.020	0.0790	0.422				10	9.0	4.10
Jan-06			0.04	0.0036	0.470	0.020	0.0910	0.379				10	10.0	0.50
Feb-06			0.044	0.0360	0.416	0.020	0.0900	0.326				20	15.0	1.88
Mar-06			0.040	0.0360	0.536	0.020	0.0500	0.536				10	11.0	3.90
Apr-06			0.025	0.0036	0.420	0.074	0.0500	0.420				20	10.0	0.50
May-06			0.040	0.0036	0.359	0.020	0.0500	0.359				10	9.0	1.70
Jun-06			0.040	0.0036	0.451	0.020	0.0500	0.451				80	14.0	1.00
Jul-06			0.040	0.0036	0.392	0.020	0.0500	0.392				90	12.0	3.00
Aug-06			0.040	0.0036	0.493	0.020	0.0500	0.493				10	13.0	2.10
Sep-06			0.040	0.0036	0.588	0.020	0.0180	0.588				45	11.0	6.30
<b>Average</b>			<b>0.035</b>	<b>0.010</b>	<b>0.46</b>	<b>0.024</b>	<b>0.057</b>	<b>0.436</b>				<b>35.92</b>	<b>11.83</b>	<b>2.28</b>

Source: City of Maitland, 2007.

Prepared by: HRH

Created by: ADG

Regression Data Sheet for City of Maitland Lakes

Table 6. Gem Geocenter

Date	Parameter Units													
	Alk. (mg/l)	pH	T.P. (mg/l)	O.P. (mg/l)	T.N. (mg/l)	NH3 (mg/l)	Nox (mg/l)	TKN (mg/l)	TSS (mg/l)	VSS (mg/l)	TDS (mg/l)	T.C. (100ml)	S.D. (ft)	Chl-a (mg/m <sup>3</sup> )
Oct-03	90.20	7.35	0.060	0.007	1.03	0.020	0.049	0.979	3.50	3.50	170.00	400.00	8.00	32.10
Nov-03	87.90	7.24	0.064	0.004	0.91	0.068	0.076	0.831	3.50	3.50	164.00	87.00	8.00	10.80
Dec-03	89.70	5.56	0.055	0.004	0.97	0.020	0.020	0.973	7.30	7.30	156.00	181.00	6.00	21.20
Jan-04	92.40	7.71	0.064	0.004	0.90	0.020	0.020	0.903	8.50	8.50	146.00	510.00	8.50	29.30
Feb-04	33.40	7.55	0.039	0.006	0.89	0.020	0.020	0.886	7.00	7.00	132.00	20.00	6.00	6.30
Mar-04	87.10	8.31	0.024	0.006	0.73	0.020	0.020	0.730	3.50	3.50	144.00	3300.00	7.50	0.50
Apr-04	91.80	7.38	0.089	0.005	1.18	0.020	0.020	1.180	10.00	10.00	148.00	390.00	7.50	3.30
May-04	85.60	7.80	0.028	0.005	0.95	0.020	0.020	0.951	3.50	3.50	168.00	127.00	7.00	4.30
Jun-04	72.60	6.80	0.009	0.005	1.01	0.020	0.020	1.010	9.20	9.20	156.00	490.00	8.00	54.20
Jul-04	78.80	6.74	0.040	0.008	0.52	0.020	0.020	0.522	2.70	2.70	114.00	510.00	8.00	18.10
Aug-04	59.30	6.93	0.072	0.014	1.12	0.020	0.020	1.120	4.50	4.50	108.00	550.00	9.00	38.00
Sep-04	75.00	6.88	0.072	0.011	1.08	0.020	0.020	1.080	7.00	7.00	142.00	57000.00	9.50	57.30
<b>Average</b>	<b>76.57</b>	<b>7.17</b>	<b>0.049</b>	<b>0.007</b>	<b>0.94</b>	<b>0.020</b>	<b>0.020</b>	<b>0.936</b>	<b>6.32</b>	<b>6.32</b>	<b>141.40</b>	<b>6307.80</b>	<b>7.70</b>	<b>23.25</b>
Oct-04			0.126	0.005	1.78	0.041	0.073	1.710				310.00	9.40	17.60
Nov-04			0.020	0.006	1.26	0.008	0.153	1.110				430.00	8.00	31.90
Dec-04			0.056	0.008	0.96	0.092	0.226	0.732				700.00	9.30	14.70
Jan-05			0.058	0.003	0.87	0.008	0.180	0.693				162.00	9.60	28.10
Feb-05			0.020	0.006	0.79	0.008	0.005	0.788				36.00	9.30	25.10
Mar-05			0.063	0.003	1.11	0.020	0.050	1.110				110.00	9.00	16.30
Apr-05			0.099	0.004	0.52	0.020	0.050	0.519				45.00	8.10	14.20
May-05			0.055	0.004	1.07	0.020	0.050	1.070				54.00	8.90	28.60
Jun-05			0.074	0.004	0.86	0.092	0.050	0.855				230.00	9.00	13.50
Jul-05			0.103	0.005	0.74	0.020	0.050	0.740				250.00	9.00	30.70
Aug-05			0.037	0.004	0.82	0.020	0.050	0.819				72.00	9.30	26.10
Sep-05			0.057	0.004	0.91	0.020	0.050	0.910				136.00	9.30	25.20
<b>Average</b>			<b>0.064</b>	<b>0.005</b>	<b>0.97</b>	<b>0.031</b>	<b>0.082</b>	<b>0.921</b>				<b>211.25</b>	<b>9.02</b>	<b>22.67</b>
Oct-05			0.0477	0.0060	0.745	0.103	0.1070	0.638				838	3.0	20.0
Nov-05			0.0080	0.0699	1.040	0.020	0.0500	1.040				620	3.0	28.4
Dec-05			0.0536	0.0036	1.010	0.020	0.1360	0.870				550	3.0	25.9
Jan-06			0.0663	0.0036	1.020	0.020	0.1260	0.897				220	3.5	25.7
Feb-06			0.0755	0.0036	0.846	0.020	0.0500	0.846				90	6.0	27.2
Mar-06			0.0636	0.0036	0.796	0.020	0.0500	0.796				155	3.0	11.4
Apr-06			0.0650	0.0036	1.110	0.113	0.0500	1.110				162	2.0	33.9
May-06			0.0692	0.0036	1.040	0.020	0.0500	1.040				230	3.0	20.8
Jun-06			0.0672	0.0036	0.770	0.020	0.0500	0.770				739	3.0	28.4
Jul-06			0.0741	0.0036	0.746	0.020	0.0500	0.746				2,000	3.0	22.1
Aug-06			0.0929	0.0080	0.419	0.020	0.0500	0.419				2,000	4.0	22.1
Sep-06			0.0668	0.0036	0.732	0.020	0.0180	0.732				600	3.0	19.2
<b>Average</b>			<b>0.062</b>	<b>0.010</b>	<b>0.86</b>	<b>0.035</b>	<b>0.066</b>	<b>0.825</b>				<b>683.67</b>	<b>3.29</b>	<b>23.76</b>

Source: City of Maitland, 2007.

Prepared by: HRH

Created by: ADG

Regression Data Sheet for City of Maitland Lakes

Table 7. Harvest Geocenter

Date	Parameter Units													
	Alk. (mg/l)	pH	T.P. (mg/l)	O.P. (mg/l)	T.N. (mg/l)	NH3 (mg/l)	Nox (mg/l)	TKN (mg/l)	TSS (mg/l)	VSS (mg/l)	TDS (mg/l)	T.C. (100ml)	S.D. (ft)	Chl-a (mg/m <sup>3</sup> )
Oct-03														
Nov-03														
Dec-03														
Jan-04														
Feb-04														
Mar-04														
Apr-04														
May-04														
Jun-04														
Jul-04														
Aug-04	34.80	6.51	0.022	0.006	0.38	0.020	0.018	0.364	1.00	1.00	102.00	70.00	10.00	1.00
Sep-04	32.20	6.62	0.012	0.005	0.69	0.058	0.020	0.689	1.00	1.00	100.00	81.00	10.00	2.70
<b>Average</b>	<b>33.50</b>	<b>6.57</b>	<b>0.017</b>	<b>0.006</b>	<b>0.54</b>	<b>0.039</b>	<b>0.019</b>	<b>0.527</b>	<b>1.00</b>	<b>1.00</b>	<b>101.00</b>	<b>75.50</b>	<b>10.00</b>	<b>1.85</b>
Oct-04			0.031	0.005	0.53	0.020	0.020	0.514				2900.00	10.80	3.30
Nov-04			0.020	0.005	0.39	0.067	0.150	0.374				63.00	9.50	3.80
Dec-04			0.028	0.005	0.58	0.040	0.010	0.566				54.00	9.70	5.10
Jan-05			0.085	0.003	0.44	0.080	0.005	0.445				81.00	9.20	2.40
Feb-05			0.009	0.004	0.41	0.008	0.005	0.414				10.00	9.90	2.50
Mar-05			0.026	0.0034	0.63	0.020	0.050	0.631				1.00	10.60	7.80
Apr-05			0.082	0.0036	0.15	0.020	0.050	0.107				10.00	9.90	1.90
May-05			0.026	0.005	0.58	0.020	0.050	0.582				63.00	9.10	8.00
Jun-05			0.016	0.0036	0.45	0.088	0.050	0.449				60.00	9.90	0.94
Jul-05			0.0916	0.0036	0.59	0.020	0.050	0.586				20.00	9.30	1.19
Aug-05			0.059	0.0036	0.43	0.020	0.050	0.425				30.00	9.90	1.80
Sep-05			0.0274	0.006	0.51	0.020	0.050	0.509				118.00	10.20	2.00
<b>Average</b>			<b>0.042</b>	<b>0.004</b>	<b>0.47</b>	<b>0.035</b>	<b>0.045</b>	<b>0.469</b>				<b>284.17</b>	<b>9.83</b>	<b>3.39</b>
Oct-05			0.0521	0.0060	0.738	0.068	0.0500	0.738				350	6.0	1.30
Nov-05			0.0219	0.0130	0.422	0.020	0.0500	0.422				780	8.0	1.00
Dec-05			0.0400	0.0036	0.508	0.020	0.0500	0.508				20	8.0	1.90
Jan-06			0.0400	0.0036	0.447	0.020	0.0500	0.447				90	6.50	0.60
Feb-06			0.0428	0.0040	0.596	0.020	0.0500	0.596				10	10.0	8.74
Mar-06			0.0400	0.0036	0.434	0.020	0.0500	0.434				45	7.0	0.70
Apr-06			0.0250	0.0500	0.436	0.140	0.0500	0.436				136	7.0	2.30
May-06			0.0400	0.0036	0.498	0.020	0.0500	0.498				80	4.0	0.70
Jun-06			0.0400	0.0036	0.410	0.020	0.0500	0.410				20	7.0	2.10
Jul-06			0.0400	0.0036	0.534	0.020	0.0500	0.534				60	4.0	3.10
Aug-06			0.0414	0.0036	0.625	0.020	0.0500	0.625				300	7.0	1.30
Sep-06			0.0400	0.0036	0.697	0.020	0.0180	0.697				45	5.0	2.10
<b>Average</b>			<b>0.039</b>	<b>0.008</b>	<b>0.53</b>	<b>0.034</b>	<b>0.047</b>	<b>0.529</b>				<b>161.33</b>	<b>6.63</b>	<b>2.15</b>

Source: City of Maitland, 2007.

Prepared by: HRH

Created by: ADG

Regression Data Sheet for City of Maitland Lakes

Table 8. Hope Geocenter

Date	Parameter Units													
	Alk. (mg/l)	pH	T.P. (mg/l)	O.P. (mg/l)	T.N. (mg/l)	NH3 (mg/l)	Nox (mg/l)	TKN (mg/l)	TSS (mg/l)	VSS (mg/l)	TDS (mg/l)	T.C. (100ml)	S.D. (ft)	Chl-a (mg/m <sup>3</sup> )
Oct-03	39.10	6.90	0.021	0.004	0.96	0.020	0.020	0.965	1.00	1.00	164.00	30.00	4.50	6.30
Nov-03	39.60	6.91	0.016	0.004	0.73	0.020	0.038	0.692	1.00	1.00	170.00	100.00	4.50	1.80
Dec-03	35.00	6.98	0.016	0.004	0.74	0.020	0.135	0.605	1.00	1.00	164.00	72.00	4.50	0.50
Jan-04	37.40	7.13	0.021	0.004	0.94	0.020	0.101	0.834	1.00	1.00	174.00	40.00	4.00	0.50
Feb-04														
Mar-04	36.00	7.34	0.013	0.004	0.71	0.020	0.019	0.689	1.00	1.00	192.00	40.00	4.50	0.50
Apr-04	34.90	7.38	0.030	0.004	0.63	0.020	0.020	0.629	1.50	1.50	194.00	333.00	3.50	0.50
May-04	38.60	7.38	0.012	0.004	0.25	0.020	0.020	0.248	1.00	1.00	188.00	60.00	3.50	0.50
Jun-04	32.60	7.30	0.006	0.005	0.69	0.020	0.082	0.606	5.40	5.40	160.00	45.00	3.50	1.30
Jul-04	49.30	7.18	0.024	0.005	0.71	0.020	0.024	0.685	1.00	1.00	196.00	45.00	3.50	2.20
Aug-04	10.40	7.19	0.034	0.008	0.07	0.020	0.042	0.050	1.00	1.00	154.00	120.00	4.15	4.00
Sep-04	33.00	7.04	0.024	0.005	0.38	0.020	0.055	0.324	1.00	1.00	130.00	60.00	5.50	6.00
<b>Average</b>	<b>34.13</b>	<b>7.21</b>	<b>0.020</b>	<b>0.005</b>	<b>0.57</b>	<b>0.020</b>	<b>0.055</b>	<b>0.519</b>	<b>1.54</b>	<b>1.54</b>	<b>172.44</b>	<b>90.56</b>	<b>4.07</b>	<b>1.78</b>
Oct-04			0.038	0.005	0.71	0.020	0.028	0.685				2000.00	4.90	5.70
Nov-04			0.020	0.006	0.74	0.008	0.142	0.595				216.00	5.00	1.40
Dec-04			0.028	0.003	0.65	0.008	0.107	0.547				20.00	5.30	1.20
Jan-05			0.023	0.003	0.60	0.008	0.120	0.483				36.00	5.00	1.50
Feb-05			0.009	0.004	0.49	0.008	0.130	0.359				10.00	5.00	0.50
Mar-05			0.064	0.005	1.06	0.020	0.055	1.000				54.00	4.50	0.60
Apr-05			0.082	0.040	0.12	0.020	0.050	0.119				20.00	6.00	1.90
May-05			0.047	0.004	0.76	0.020	0.050	0.758				20.00	5.00	6.40
Jun-05			0.014	0.004	0.45	0.102	0.050	0.452				50.00	5.00	0.59
Jul-05			0.032	0.004	0.58	0.020	0.050	0.584				45.00	9.00	1.72
Aug-05			0.020	0.004	0.56	0.020	0.050	0.562				90.00	5.40	1.80
Sep-05			0.020	0.004	0.48	0.020	0.050	0.478				40.00	5.20	1.00
<b>Average</b>			<b>0.033</b>	<b>0.007</b>	<b>0.60</b>	<b>0.023</b>	<b>0.074</b>	<b>0.558</b>				<b>216.75</b>	<b>5.44</b>	<b>2.03</b>
Oct-05			0.020	0.0060	0.534	0.020	0.0500	0.534				220	9.0	0.70
Nov-05			0.025	0.0100	0.612	0.020	0.0522	0.560				80	11.5	3.52
Dec-05			0.040	0.0036	0.676	0.020	0.1180	0.558				118	6.0	6.30
Jan-06			0.04	0.0036	0.684	0.020	0.1480	0.536				320	9.0	1.30
Feb-06			0.041	0.0040	0.630	0.020	0.1330	0.497				22,500	10.5	1.97
Mar-06			0.040	0.0036	0.586	0.020	0.0746	0.511				81	8.0	2.00
Apr-06			0.025	0.0036	0.502	0.066	0.0500	0.502				10	8.0	1.00
May-06														
Jun-06			0.040	0.0036	0.569	0.020	0.0500	0.569				60	9.0	2.70
Jul-06			0.040	0.0036	0.700	0.020	0.0500	0.700				172	9.0	1.90
Aug-06			0.527	0.0050	0.551	0.020	0.0500	0.551				250	9.0	0.50
Sep-06			0.040	0.0036	0.625	0.020	0.0293	0.569				200	9.5	1.00
<b>Average</b>			<b>0.080</b>	<b>0.005</b>	<b>0.61</b>	<b>0.024</b>	<b>0.073</b>	<b>0.553</b>				<b>2182.82</b>	<b>8.95</b>	<b>2.08</b>

Source: City of Maitland, 2007.

Prepared by: HRH

Created by: ADG

Regression Data Sheet for City of Maitland Lakes

Table 9. Hungerford Geocenter

Date	Parameter Units													
	Alk. (mg/l)	pH	T.P. (mg/l)	O.P. (mg/l)	T.N. (mg/l)	NH3 (mg/l)	Nox (mg/l)	TKN (mg/l)	TSS (mg/l)	VSS (mg/l)	TDS (mg/l)	T.C. (100ml)	S.D. (ft)	Chl-a (mg/m <sup>3</sup> )
Oct-03	47.40	7.10	0.018	0.004	0.82	0.020	0.020	0.816	1.50	1.50	116.00	220.00	10.00	0.50
Nov-03	42.80	7.38	0.022	0.004	1.08	0.188	0.020	1.080	3.00	3.00	128.00	63.00	12.00	4.50
Dec-03	53.40	6.88	0.024	0.004	1.01	0.101	0.035	0.972	3.00	3.00	120.00	210.00	11.50	1.00
Jan-04	51.00	7.66	0.035	0.004	0.81	0.020	0.023	0.790	4.00	4.00	90.00	250.00	10.00	6.20
Feb-04														
Mar-04	53.70	7.83	0.015	0.004	0.70	0.020	0.020	0.703	2.50	2.50	108.00	350.00	10.50	0.50
Apr-04	53.50	8.01	0.050	0.005	0.91	0.020	0.020	0.913	5.50	5.50	140.00	63.00	11.50	0.50
May-04	58.40	7.82	0.006	0.004	0.61	0.020	0.020	0.606	2.00	2.00	128.00	36.00	11.00	0.50
Jun-04	23.90	9.03	0.006	0.005	0.97	0.020	0.020	0.973	7.60	7.60	110.00	10.00	13.00	0.50
Jul-04	50.20	7.36	0.027	0.006	0.88	0.020	0.020	0.884	4.70	4.70	124.00	81.00	11.50	6.70
Aug-04	44.80	6.91	0.031	0.008	0.58	0.020	0.020	0.580	3.00	3.00	122.00	99.00	10.00	11.50
Sep-04	49.20	6.48	0.023	0.008	0.92	0.020	0.020	0.919	2.00	2.00	100.00	290.00	6.00	10.60
<b>Average</b>	<b>48.68</b>	<b>7.55</b>	<b>0.024</b>	<b>0.005</b>	<b>0.82</b>	<b>0.029</b>	<b>0.022</b>	<b>0.816</b>	<b>3.81</b>	<b>3.81</b>	<b>115.78</b>	<b>154.33</b>	<b>10.56</b>	
Oct-04			0.041	0.005	1.02	0.126	0.020	1.000				118.00	12.50	<b>4.22</b>
Nov-04			0.020	0.050	0.57	0.093	0.029	0.537				18.00	10.00	
Dec-04			0.025	0.003	0.93	0.045	0.019	0.907				36.00	13.00	16.50
Jan-05			0.077	0.003	0.07	0.008	0.005	0.049				27.00	12.10	8.70
Feb-05			0.013	0.003	0.82	0.008	0.005	0.817				10.00	12.90	9.70
Mar-05			0.035	0.0034	0.78	0.020	0.050	0.780				1.00	12.10	7.40
Apr-05			0.101	0.0036	0.15	0.020	0.050	0.102				30.00	12.30	6.70
May-05			0.03	0.0036	0.81	0.020	0.050	0.810				54.00	12.40	3.80
Jun-05			0.036	0.01	0.74	0.086	0.050	0.742				50.00	13.30	3.20
Jul-05			0.102	0.0036	0.74	0.020	0.050	0.741				64.00	12.60	7.10
Aug-05			0.0589	0.0036	0.80	0.020	0.050	0.804				118.00	13.90	1.02
Sep-05			0.0487	0.0036	0.91	0.032	0.050	0.911				73.00	12.10	3.76
Oct-05			0.0349	0.0036	1.150	0.314	0.0500	1.150				2,200	5.5	13.60
<b>Average</b>			<b>0.048</b>	<b>0.008</b>	<b>0.71</b>	<b>0.057</b>	<b>0.038</b>	<b>0.696</b>				<b>223.42</b>	<b>11.85</b>	6.20
Nov-05			0.0322	0.0100	0.901	0.020	0.0500	0.901				30	4.0	6.30
Dec-05			0.0400	0.0036	0.968	0.020	0.0500	0.968				136	6.0	
Jan-06			0.0400	0.0036	0.844	0.020	0.0500	0.844				100	5.5	<b>6.46</b>
Feb-06			0.0480	0.0036	1.190	0.020	0.0500	1.190				1,200	4.0	
Mar-06			0.0400	0.0036	1.030	0.020	0.0500	1.030				10	0.0	9.20
Apr-06			0.0250	0.0036	0.859	0.066	0.0500	0.859				27	3.0	9.00
May-06			0.0400	0.0036	0.856	0.020	0.0500	0.856				36	4.0	7.50
Jun-06			0.0771	0.0036	1.460	0.020	0.0500	1.460				90	5.0	9.18
Jul-06			0.0400	0.0036	0.771	0.020	0.0500	0.771				2,200	4.0	6.70
Aug-06			0.0563	0.0036	1.080	0.020	0.0500	1.080				2,200	3.5	8.20
Sep-06			0.0486	0.0036	1.180	0.020	0.0180	1.180				220	3.0	5.30
<b>Average</b>			<b>0.044</b>	<b>0.004</b>	<b>1.01</b>	<b>0.024</b>	<b>0.047</b>	<b>1.013</b>				<b>568.09</b>	<b>3.82</b>	10.50

Source: City of Maitland, 2007.

Prepared by: HRH

Created by: ADG

Regression Data Sheet for City of Maitland Lakes

Table 10. Jackson Geocenter

Date	Parameter Units													
	Alk. (mg/l)	pH	T.P. (mg/l)	O.P. (mg/l)	T.N. (mg/l)	NH3 (mg/l)	Nox (mg/l)	TKN (mg/l)	TSS (mg/l)	VSS (mg/l)	TDS (mg/l)	T.C. (100ml)	S.D. (ft)	Chl-a (mg/m <sup>3</sup> )
Oct-03	23.20	7.50	0.027	0.004	0.92	0.020	0.020	0.921	7.50	7.50	102.00	109.00	4.50	10.50
Nov-03	23.50	7.80	0.032	0.004	0.78	0.020	0.020	0.775	10.00	10.00	96.00	200.00	5.00	4.20
Dec-03	41.90	7.38	0.027	0.004	0.76	0.020	0.020	0.759	8.00	8.00	100.00	40.00	4.50	12.60
Jan-04	18.00	7.98	0.043	0.013	0.93	0.020	0.020	0.929	11.00	11.00	126.00	225.00	5.00	12.90
Feb-04														
Mar-04	22.00	7.91	0.015	0.004	0.84	0.051	0.020	0.845	7.50	7.50	104.00	252.00	5.00	0.50
Apr-04	21.30	9.80	0.024	0.007	1.55	0.020	0.020	1.550	12.70	12.70	126.00	50.00	4.50	21.70
May-04	25.10	7.54	0.012	0.005	1.66	0.020	0.020	1.660	6.50	6.50	126.00	20.00	4.00	13.80
Jun-04	22.90	8.44	0.027	0.008	1.00	0.020	0.020	0.980	9.50	9.50	118.00	10.00	5.50	15.50
Jul-04	26.40	8.53	0.043	0.023	0.95	0.020	0.020	0.949	7.50	7.50	120.00	30.00	4.50	25.40
Aug-04	NA													
Sep-04	NA													
<b>Average</b>	<b>25.37</b>	<b>8.23</b>	<b>0.027</b>	<b>0.009</b>	<b>1.10</b>	<b>0.024</b>	<b>0.020</b>	<b>1.096</b>	<b>8.96</b>	<b>8.96</b>	<b>117.14</b>	<b>89.57</b>	<b>4.71</b>	<b>14.63</b>
Oct-04			0.038	0.005	1.04	0.020	0.020	1.020				3700.00	4.80	21.10
Nov-04			0.020	0.007	1.06	0.008	0.020	1.060				50.00	5.00	27.20
Dec-04			0.032	0.003	0.94	0.008	0.008	0.936				81.00	6.90	25.60
Jan-05			0.026	0.023	0.85	0.008	0.005	0.846				36.00	4.50	23.00
Feb-05			0.009	0.007	0.91	0.008	0.005	0.908				10.00	4.40	18.60
Mar-05			0.036	0.004	0.81	0.020	0.050	0.805				2.00	4.90	3.90
Apr-05			0.090	0.004	0.62	0.020	0.050	0.621				10.00	4.70	12.80
May-05			0.051	0.004	1.28	0.020	0.050	1.280				90.00	4.60	24.90
Jun-05			0.032	0.005	0.64	0.090	0.050	0.637				100.00	4.40	1.96
Jul-05			0.020	0.005	0.95	0.020	0.050	0.951				60.00	3.00	12.10
Aug-05			0.067	0.004	0.91	0.020	0.050	0.909				189.00	4.90	20.10
Sep-05			0.020	0.004	0.85	0.020	0.050	0.851				20.00	4.10	13.50
<b>Average</b>			<b>0.037</b>	<b>0.006</b>	<b>0.90</b>	<b>0.022</b>	<b>0.034</b>	<b>0.907</b>				<b>362.33</b>	<b>4.68</b>	<b>17.06</b>
Oct-05			0.0200	0.0040	0.986	0.0200	0.0500	0.986				310.00	3.0	13.30
Nov-05			0.0369	0.0150	0.844	0.0200	0.0500	0.844				4,500	3.0	15.20
Dec-05			0.0400	0.0036	0.887	0.0200	0.0500	0.887				109	3.0	13.90
Jan-06			0.0400	0.0036	1.020	0.0200	0.0500	1.020				10	2.5	10.70
Feb-06			0.0480	0.0036	0.831	0.0200	0.0500	0.831				80	2.0	5.80
Mar-06			0.0480	0.0036	0.831	0.0200	0.0500	0.831				80	2.0	5.80
Apr-06			0.0250	0.0036	0.817	0.0571	0.0500	0.817				130	2.0	14.70
May-06			0.0400	0.0036	0.925	0.0200	0.0500	0.925				10	4.0	0.50
Jun-06			0.0462	0.0036	0.858	0.0200	0.0500	0.858				210	3.0	20.00
Jul-06			0.0400	0.0036	0.574	0.0200	0.0500	0.574				250	3.0	8.50
Aug-06			0.0576	0.0080	0.924	0.0200	0.0500	0.924				120	2.0	6.30
Sep-06			0.0500	0.0036	0.800	0.0200	0.0180	0.800				340	3.0	15.80
<b>Average</b>			<b>0.041</b>	<b>0.005</b>	<b>0.86</b>	<b>0.023</b>	<b>0.047</b>	<b>0.858</b>				<b>512.42</b>	<b>2.71</b>	<b>10.88</b>

Source: City of Maitland, 2007.

Prepared by: HRH

Created by: ADG

Regression Data Sheet for City of Maitland Lakes

Table 11. Lilly Geocenter

Date	Parameter Units													
	Alk. (mg/l)	pH	T.P. (mg/l)	O.P. (mg/l)	T.N. (mg/l)	NH3 (mg/l)	Nox (mg/l)	TKN (mg/l)	TSS (mg/l)	VSS (mg/l)	TDS (mg/l)	T.C. (100ml)	S.D. (ft)	Chl-a (mg/m <sup>3</sup> )
Oct-03	60.30	7.68	0.027	0.004	0.62	0.020	0.020	0.616	2.00	2.00	112.00	500.00	6.50	2.50
Nov-03	67.20	7.59	0.042	0.004	0.84	0.020	0.020	0.841	8.00	8.00	108.00	3700.00	6.50	4.40
Dec-03	76.40	6.94	0.021	0.004	0.70	0.020	0.030	0.673	1.00	1.00	140.00	218.00	10.00	0.50
Jan-04	72.60	8.56	0.074	0.004	1.03	0.020	0.020	1.03	19.50	19.50	122.00	540.00	6.50	21.70
Feb-04														
Mar-04	73.90	7.97	0.023	0.004	0.78	0.020	0.020	0.778	5.50	5.50	118.00	300.00	5.50	0.50
Apr-04	56.90	7.62	0.060	0.005	0.78	0.020	0.020	0.780	7.00	7.00	108.00	210.00	6.50	2.50
May-04	53.70	7.50	0.032	0.004	0.40	0.020	0.020	0.403	3.00	3.00	98.00	320.00	5.50	1.10
Jun-04	40.30	6.44	0.006	0.005	1.18	0.020	0.020	1.180	13.60	13.60	48.00	480.00	6.50	14.80
Jul-04	17.20	6.83	0.101	0.014	0.75	0.020	0.020	0.748	17.00	17.00	62.00	79.00	7.00	83.40
Aug-04	23.90	7.28	0.088	0.025	1.11	0.097	0.047	1.060	7.50	7.50	70.00	570.00	6.50	64.30
Sep-04	49.20	6.90	0.067	0.030	1.12	0.143	0.020	1.120	5.50	5.50	86.00	370.00	7.50	21.80
<b>Average</b>	<b>51.57</b>	<b>7.34</b>	<b>0.052</b>	<b>0.011</b>	<b>0.87</b>	<b>0.042</b>	<b>0.024</b>	<b>0.864</b>	<b>8.84</b>	<b>8.84</b>	<b>94.67</b>	<b>343.00</b>	<b>6.83</b>	<b>23.40</b>
Oct-04			0.076	0.004	1.10	0.093	0.025	1.070				230.00	7.50	30.50
Nov-04			0.069	0.020	0.67	0.242	0.048	0.626				680.00	6.50	11.70
Dec-04			0.107	0.017	1.19	0.154	0.048	1.140				300.00	7.60	12.20
Jan-05			0.061	0.004	0.83	0.030	0.010	0.818				1000.00	6.90	22.50
Feb-05			0.020	0.006	1.12	0.008	0.005	1.120				4000.00	6.90	14.70
Mar-05			0.067	0.006	1.33	0.020	0.050	1.330				2.00	6.80	19.40
Apr-05			0.086	0.004	0.37	0.020	0.050	0.366				210.00	7.30	24.40
May-05			0.049	0.004	1.21	0.020	0.050	1.210				420.00	6.30	3.60
Jun-05			0.058	0.004	0.76	0.090	0.050	0.760				300.00	6.50	14.90
Jul-05			0.171	0.004	1.49	0.020	0.050	1.490				795.00	6.80	25.30
Aug-05			0.095	0.004	0.72	0.020	0.050	0.722				560.00	7.90	17.60
Sep-05			0.068	0.004	0.73	0.020	0.050	0.727				2300.00	7.60	8.70
<b>Average</b>			<b>0.077</b>	<b>0.007</b>	<b>0.96</b>	<b>0.061</b>	<b>0.041</b>	<b>0.960</b>				<b>899.75</b>	<b>7.05</b>	<b>17.13</b>
Oct-05			0.0431	0.0036	0.757	0.029	0.0537	0.703				640	6.0	5.70
Nov-05			0.0448	0.0180	0.679	0.020	0.0500	0.679				7,600	4.0	10.40
Dec-05			0.0400	0.0050	0.589	0.020	0.0500	0.589				3,000	7.0	37.90
Jan-06			0.0437	0.0036	0.572	0.020	0.0500	0.572				2,200	8.0	8.20
Feb-06			0.0456	0.0040	0.675	0.022	0.0500	0.675				620	8.0	0.50
Mar-06			0.0462	0.0100	0.624	0.020	0.0500	0.624				99	8.0	2.20
Apr-06			0.0370	0.0036	0.712	0.079	0.0500	0.712				80	4.0	7.80
May-06			0.1110	0.0036	0.930	0.020	0.0500	0.930				200	4.0	4.40
Jun-06			0.0528	0.0036	0.623	0.020	0.0500	0.623				739	6.0	6.20
Jul-06			0.0400	0.0036	0.667	0.020	0.0500	0.667				4,200	4.0	3.20
Aug-06			0.0786	0.0080	0.908	0.020	0.0500	0.908				2,200	2.0	9.10
Sep-06			0.0541	0.0036	0.663	0.020	0.0180	0.663				790	3.5	4.00
<b>Average</b>			<b>0.053</b>	<b>0.006</b>	<b>0.70</b>	<b>0.026</b>	<b>0.048</b>	<b>0.695</b>				<b>1864.00</b>	<b>5.38</b>	<b>8.30</b>

Source: City of Maitland, 2007.

Prepared by: HRH

Created by: ADG

Regression Data Sheet for City of Maitland Lakes

Table 12. Lochlomond Geocenter

Date	Parameter Units													
	Alk. (mg/l)	pH	T.P. (mg/l)	O.P. (mg/l)	T.N. (mg/l)	NH3 (mg/l)	Nox (mg/l)	TKN (mg/l)	TSS (mg/l)	VSS (mg/l)	TDS (mg/l)	T.C. (100ml)	S.D. (ft)	Chl-a (mg/m <sup>3</sup> )
Oct-03	32.70	6.87	0.009	0.004	0.36	0.020	0.020	0.360	1.00	1.00	84.00	70.00	5.50	0.70
Nov-03	36.30	7.34	0.010	0.004	0.47	0.075	0.020	0.470	1.00	1.00	88.00	27.00	5.00	3.20
Dec-03	35.40	7.27	0.015	0.004	0.53	0.031	0.039	0.488	1.50	1.50	80.00	10.00	5.50	1.90
Jan-04	32.10	7.55	0.021	0.004	0.69	0.020	0.039	0.649	1.00	1.00	80.00	20.00	4.50	2.40
Feb-04														
Mar-04	32.60	8.18	0.007	0.004	0.49	0.020	0.020	0.492	1.00	1.00	88.00	309.00	7.50	0.50
Apr-04	9.80	7.79	0.026	0.005	0.47	0.020	0.020	0.474	3.00	3.00	82.00	136.00	5.00	1.60
May-04	29.60	7.47	0.006	0.004	0.22	0.020	0.020	0.219	1.00	1.00	82.00	45.00	5.50	0.50
Jun-04	24.10	7.44	0.006	0.005	0.36	0.020	0.020	0.359	1.20	1.20	76.00	30.00	5.00	1.30
Jul-04	27.70	7.24	0.017	0.006	0.30	0.020	0.020	0.302	1.00	1.00	78.00	10.00	6.00	0.80
Aug-04	44.80	6.84	0.028	0.008	0.22	0.020	0.018	0.207	1.00	1.00	70.00	10.00	6.00	2.40
Sep-04	27.60	6.86	0.024	0.005	0.18	0.059	0.020	0.182	1.00	1.00	76.00	10.00	6.00	4.30
<b>Average</b>	<b>29.30</b>	<b>7.40</b>	<b>0.017</b>	<b>0.005</b>	<b>0.38</b>	<b>0.026</b>	<b>0.024</b>	<b>0.375</b>	<b>1.30</b>	<b>1.30</b>	<b>79.11</b>	<b>64.44</b>	<b>5.67</b>	<b>1.74</b>
Oct-04			0.028	0.005	0.50	0.020	0.024	0.475				54.00	5.90	4.80
Nov-04			0.020	0.006	0.26	0.051	0.024	0.233				20.00	5.50	5.10
Dec-04			0.025	0.003	0.38	0.061	0.028	0.353				50.00	6.10	3.00
Jan-05			0.036	0.004	0.07	0.090	0.040	0.049				20.00	5.60	4.20
Feb-05			0.009	0.003	0.58	0.008	0.052	0.531				36.00	5.00	4.70
Mar-05			0.027	0.003	0.48	0.089	0.050	0.481				1.00	15.70	6.70
Apr-05			0.089	0.004	0.10	0.020	0.050	0.102				10.00	5.60	5.60
May-05			0.026	0.015	0.44	0.020	0.050	0.437				50.00	5.90	7.10
Jun-05			0.032	0.004	0.99	0.095	0.050	0.991				80.00	6.00	12.20
Jul-05			0.020	0.016	0.77	0.020	0.050	0.767				10.00	11.00	2.79
Aug-05			0.076	0.004	0.32	0.020	0.050	0.320				700.00	5.90	4.90
Sep-05			0.020	0.005	0.34	0.020	0.050	0.342				90.00	6.00	3.00
<b>Average</b>			<b>0.034</b>	<b>0.006</b>	<b>0.44</b>	<b>0.043</b>	<b>0.043</b>	<b>0.457</b>				<b>93.42</b>	<b>7.02</b>	<b>5.34</b>
Oct-05			0.012	0.0036	0.509	0.104	0.0500	0.509				560	8.0	5.00
Nov-05			0.023	0.0100	0.368	0.368	0.0500	0.368				70	6.0	3.50
Dec-05			0.040	0.0036	0.513	0.020	0.0500	0.513				100	13.0	0.60
Jan-06			0.040	0.0036	0.429	0.020	0.0500	0.429				10	7.0	4.20
Feb-06			0.043	0.0036	0.553	0.020	0.0500	0.553				100	12.0	7.12
Mar-06			0.040	0.0036	0.384	0.020	0.0500	0.384				70	11.0	2.20
Apr-06			0.025	0.0036	0.371	0.064	0.0500	0.371				109	6.0	1.00
May-06			0.040	0.0036	0.409	0.020	0.0500	0.409				10	5.0	0.70
Jun-06			0.040	0.0036	0.428	0.020	0.0500	0.428				649	8.0	5.80
Jul-06			0.040	0.0036	0.519	0.020	0.0500	0.519				1,210	6.5	3.90
Aug-06			0.072	0.0050	0.377	0.020	0.0500	0.377				55	6.0	4.40
Sep-06			0.040	0.0036	0.501	0.020	0.0180	0.501				400	4.0	5.50
<b>Average</b>			<b>0.038</b>	<b>0.004</b>	<b>0.45</b>	<b>0.060</b>	<b>0.047</b>	<b>0.447</b>				<b>278.58</b>	<b>7.71</b>	<b>3.66</b>

Source: City of Maitland, 2007.

Prepared by: HRH

Created by: ADG

Regression Data Sheet for City of Maitland Lakes

Table 13. Love Geocenter

Date	Parameter Units													
	Alk. (mg/l)	pH	T.P. (mg/l)	O.P. (mg/l)	T.N. (mg/l)	NH3 (mg/l)	Nox (mg/l)	TKN (mg/l)	TSS (mg/l)	VSS (mg/l)	TDS (mg/l)	T.C. (100ml)	S.D. (ft)	Chl-a (mg/m <sup>3</sup> )
Oct-03														
Nov-03														
Dec-03														
Jan-04	UNABLE TO SAMPLE TOO MANY WEEDS TO DROP BOAT													
Feb-04														
Mar-04														
Apr-04	TOO OVER GROWN WITH WEEDS NO SAMPLE													
May-04														
Jun-04														
Jul-04	NO SAMPLE - TOO MUCKY TO DROP BOAT													
Aug-04														
Sep-04														
<b>Average</b>														
Oct-04			0.016	0.005	0.75	0.073	0.019	0.727				81.00	9.10	3.90
Nov-04	TAKEN GRASS TOO THICK TO LAUNCH													
Dec-04														
Jan-05	DUE TO OVER-GROWTH OF WEEDS													
Feb-05	TAKEN GRASS TOO THICK TO LAUNCH													
Mar-05														
Apr-05														
May-05														
Jun-05														
Jul-05														
Aug-05														
Sep-05														
<b>Average</b>			<b>0.016</b>	<b>0.005</b>	<b>0.75</b>	<b>0.073</b>	<b>0.019</b>	<b>0.727</b>				<b>81.00</b>	<b>9.10</b>	<b>3.90</b>

Source: City of Maitland, 2007.

Prepared by: HRH

Created by: ADG

Regression Data Sheet for City of Maitland Lakes

Table 14. Lovely Geocenter

Date	Parameter Units													
	Alk. (mg/l)	pH	T.P. (mg/l)	O.P. (mg/l)	T.N. (mg/l)	NH3 (mg/l)	Nox (mg/l)	TKN (mg/l)	TSS (mg/l)	VSS (mg/l)	TDS (mg/l)	T.C. (100ml)	S.D. (ft)	Chl-a (mg/m <sup>3</sup> )
Oct-03														
Nov-03														
Dec-03														
Jan-04	UNABLE TO SAMPLE TOO MANY WEEDS TO DROP BOAT													
Feb-04														
Mar-04														
Apr-04														
May-04														
Jun-04														
Jul-04	TOO WEEDY TO DROP BOAT													
Aug-04														
Sep-04														
<b>Average</b>														
Oct-04														
Nov-04														
Dec-04														
Jan-05														
Feb-05	TAKEN GRASS TOO THICK TO LAUNCH													
Mar-05														
Apr-05														
May-05														
Jun-05														
Jul-05														
Aug-05														
Sep-05														
<b>Average</b>														

Source: City of Maitland, 2007.

Prepared by: HRH

Created by: ADG

Regression Data Sheet for City of Maitland Lakes

Table 15. Lucien Geocenter

Date	Parameter Units													
	Alk. (mg/l)	pH	T.P. (mg/l)	O.P. (mg/l)	T.N. (mg/l)	NH3 (mg/l)	Nox (mg/l)	TKN (mg/l)	TSS (mg/l)	VSS (mg/l)	TDS (mg/l)	T.C. (100ml)	S.D. (ft)	Chl-a (mg/m <sup>3</sup> )
Oct-03	43.70	7.21	0.012	0.004	0.55	0.020	0.020	0.553	1.00	1.00	162.00	40.00	12.00	0.70
Nov-03	45.10	7.66	0.010	0.004	0.48	0.020	0.020	0.480	1.00	1.00	80.00	261.00	12.00	0.50
Dec-03	44.20	7.29	0.015	0.004	0.63	0.020	0.024	0.608	2.00	2.00	112.00	300.00	12.00	0.70
Jan-04	44.00	7.55	0.014	0.004	0.79	0.020	0.029	0.760	1.00	1.00	112.00	63.00	13.50	1.90
Feb-04	13.60	7.42	0.013	0.004	0.44	0.020	0.020	0.444	1.00	1.00	138.00	36.00	10.00	1.00
Mar-04	44.00	7.74	0.007	0.004	0.59	0.020	0.020	0.594	1.50	1.50	104.00	90.00	10.00	2.60
Apr-04	42.60	7.70	0.040	0.005	0.55	0.020	0.020	0.548	1.50	1.50	104.00	81.00	11.00	0.50
May-04	49.60	7.42	0.016	0.005	0.60	0.020	0.020	0.596	1.50	1.50	96.00	30.00	13.00	0.50
Jun-04	37.90	8.45	0.006	0.005	0.46	0.020	0.020	0.464	1.80	1.80	106.00	27.00	13.00	6.80
Jul-04	48.40	7.60	0.018	0.005	0.34	0.020	0.020	0.339	1.00	1.00	96.00	40.00	12.00	0.70
Aug-04	43.80	7.01	0.028	0.010	0.71	0.020	0.018	0.693	1.00	1.00	98.00	163.00	11.50	2.80
Sep-04	17.50	7.08	0.012	0.005	0.03	0.020	0.025	0.394	1.00	1.00	118.00	60.00	11.50	3.70
<b>Average</b>	<b>38.56</b>	<b>7.53</b>	<b>0.017</b>	<b>0.005</b>	<b>0.51</b>	<b>0.020</b>	<b>0.022</b>	<b>0.544</b>	<b>1.33</b>	<b>1.33</b>	<b>108.40</b>	<b>89.00</b>	<b>11.75</b>	<b>2.12</b>
Oct-04			0.031	0.005	0.58	0.020	0.021	0.554				20.00	12.00	5.00
Nov-04			0.052	0.006	0.90	0.008	0.026	0.871				20.00	11.00	5.10
Dec-04			0.039	0.003	0.50	0.051	0.028	0.471				10.00	13.90	4.10
Jan-05			0.029	0.003	0.16	0.050	0.050	0.106				27.00	12.60	2.10
Feb-05			0.009	0.003	0.57	0.008	0.036	0.536				27.00	13.00	3.10
Mar-05			0.090	0.005	0.69	0.020	0.050	0.689				70.00	9.00	5.10
Apr-05			0.083	0.004	0.10	0.020	0.050	0.102				10.00	12.80	1.30
May-05			0.024	0.004	0.58	0.020	0.050	0.578				50.00	12.00	7.40
Jun-05			0.016	0.004	0.45	0.098	0.050	0.450				30.00	12.00	0.50
Jul-05			0.062	0.004	0.52	0.020	0.050	0.518				30.00	12.00	0.50
Aug-05			0.020	0.004	0.40	0.020	0.050	0.404				330.00	11.70	2.10
Sep-05			0.020	0.006	0.38	0.020	0.050	0.379				50.00	12.10	2.00
<b>Average</b>			<b>0.040</b>	<b>0.004</b>	<b>0.49</b>	<b>0.030</b>	<b>0.043</b>	<b>0.505</b>				<b>56.17</b>	<b>12.01</b>	<b>3.19</b>
Oct-05			0.0326	0.0036	0.658	0.022	0.0500	0.658				290	8.0	3.00
Nov-05			0.0243	0.0100	0.443	0.020	0.0500	0.443				30	8.5	3.03
Dec-05			0.0400	0.0036	0.463	0.020	0.0500	0.463				109	8.0	1.20
Jan-06			0.0400	0.0036	0.413	0.020	0.0500	0.413				280	7.5	2.50
Feb-06			0.0448	0.0036	0.563	0.020	0.0500	0.563				155	12.0	1.78
Mar-06			0.0400	0.0036	0.539	0.020	0.0500	0.539				20	10.0	4.00
Apr-06			0.0250	0.0036	0.476	0.053	0.0500	0.476				10	7.0	1.00
May-06			0.0400	0.0036	0.554	0.020	0.0500	0.554				40	6.0	0.50
Jun-06			0.0400	0.0036	0.499	0.020	0.0500	0.499				36	12.0	0.90
Jul-06			0.0529	0.0036	0.214	0.020	0.0500	0.214				154	12.0	3.60
Aug-06			0.0585	0.0050	0.390	0.020	0.0500	0.390				109	11.0	1.10
Sep-06			0.0400	0.0036	0.579	0.020	0.0180	0.579				30	11.0	2.00
<b>Average</b>			<b>0.040</b>	<b>0.004</b>	<b>0.48</b>	<b>0.023</b>	<b>0.047</b>	<b>0.483</b>				<b>105.25</b>	<b>9.42</b>	<b>2.05</b>

Source: City of Maitland, 2007.

Prepared by: HRH

Created by: ADG

Regression Data Sheet for City of Maitland Lakes

Table 16. Maitland Geocenter

Date	Parameter Units													
	Alk. (mg/l)	pH	T.P. (mg/l)	O.P. (mg/l)	T.N. (mg/l)	NH3 (mg/l)	Nox (mg/l)	TKN (mg/l)	TSS (mg/l)	VSS (mg/l)	TDS (mg/l)	T.C. (100ml)	S.D. (ft)	Chl-a (mg/m <sup>3</sup> )
Oct-03	40.00	7.60	0.024	0.004	0.90	0.020	0.020	0.903	7.00	7.00	128.00	110.00	7.00	7.00
Nov-03	41.90	7.66	0.029	0.004	0.84	0.020	0.020	0.843	6.50	6.50	130.00	37.00	7.50	12.70
Dec-03	42.30	7.79	0.027	0.004	0.86	0.020	0.020	0.861	9.30	9.30	136.00	100.00	7.00	12.60
Jan-04	41.80	7.92	0.028	0.006	0.90	0.020	0.020	0.896	8.70	8.70	140.00	207.00	7.50	7.50
Feb-04														
Mar-04	43.00	8.20	0.010	0.004	0.72	0.020	0.020	0.725	3.50	3.50	106.00	20.00	6.00	4.30
Apr-04	43.90	8.88	0.032	0.005	0.78	0.020	0.020	0.785	4.50	4.50	132.00	90.00	7.00	9.70
May-04	46.90	8.46	0.026	0.005	0.90	0.020	0.020	0.895	5.50	5.50	136.00	18.00	7.00	2.50
Jun-04	44.90	7.29	0.006	0.005	1.02	0.020	0.020	1.020	4.40	4.40	112.00	30.00	7.50	7.40
Jul-04	46.20	7.61	0.010	0.005	0.88	0.020	0.020	0.885	4.00	4.00	134.00	50.00	7.50	16.60
Aug-04	38.40	7.77	0.031	0.013	0.61	0.020	0.020	0.612	5.00	5.00	126.00	800.00	8.50	16.20
Sep-04	44.00	7.86	0.019	0.008	0.67	0.020	0.020	0.669	4.00	4.00	126.00	280.00	9.00	16.10
<b>Average</b>	<b>43.49</b>	<b>7.98</b>	<b>0.021</b>	<b>0.006</b>	<b>0.82</b>	<b>0.020</b>	<b>0.020</b>	<b>0.816</b>	<b>5.43</b>	<b>5.43</b>	<b>127.56</b>	<b>177.22</b>	<b>7.44</b>	<b>10.32</b>
Oct-04			0.012	0.005	0.98	0.056	0.019	0.966				100.00	6.90	14.90
Nov-04			0.020	0.006	0.92	0.008	0.011	0.906				54.00	5.50	17.10
Dec-04			0.049	0.005	0.76	0.013	0.009	0.750				10.00	8.90	20.00
Jan-05			0.052	0.003	0.86	0.008	0.005	0.865				40.00	8.00	17.50
Feb-05			0.010	0.003	0.73	0.008	0.005	0.733				20.00	8.20	13.10
Mar-05			0.072	0.005	1.40	0.020	0.050	1.400				118.00	6.50	7.60
Apr-05			0.087	0.004	0.42	0.020	0.050	0.421				10.00	8.30	14.50
May-05			0.440	0.004	1.48	0.020	0.050	1.480				18.00	8.20	12.10
Jun-05			0.028	0.004	0.65	0.092	0.050	0.650				10.00	8.30	7.31
Jul-05			0.299	0.004	0.12	0.020	0.050	0.116				1.00	3.00	4.94
Aug-05			0.063	0.005	0.63	0.020	0.050	0.626				110.00	8.10	5.90
Sep-05			0.020	0.004	0.72	0.020	0.050	0.720				10.00	7.80	8.00
<b>Average</b>			<b>0.096</b>	<b>0.004</b>	<b>0.81</b>	<b>0.025</b>	<b>0.033</b>	<b>0.797</b>				<b>41.75</b>	<b>7.31</b>	<b>11.91</b>
Oct-05			0.0367	0.0036	0.720	0.020	0.0500	0.720				370	3.5	11.40
Nov-05			0.0294	0.0100	0.583	0.020	0.0500	0.583				20	3.5	5.11
Dec-05			0.0400	0.0036	0.675	0.020	0.0500	0.675				10	6.0	2.40
Jan-06			0.0400	0.0036	0.482	0.020	0.1360	0.347				10	8.0	2.10
Feb-06			0.0400	0.0036	0.788	0.020	0.1160	0.672				60	8.0	4.01
Mar-06			0.0400	0.0036	0.551	0.020	0.0638	0.487				10	5.0	5.80
Apr-06			0.0540	0.0036	0.632	0.116	0.0500	0.632				10	6.0	1.60
May-06			0.0402	0.0036	0.557	0.020	0.0500	0.557				10	6.0	4.50
Jun-06			0.0400	0.0036	1.030	0.020	0.0500	1.030				100	3.0	16.20
Jul-06			0.0412	0.0036	0.771	0.020	0.0500	0.771				45	2.5	27.90
Aug-06			0.0686	0.0060	0.799	0.020	0.0500	0.799				10	4.0	7.10
Sep-06			0.0400	0.0036	1.000	0.020	0.0180	1.000				81	2.0	9.50
<b>Average</b>			<b>0.043</b>	<b>0.004</b>	<b>0.72</b>	<b>0.028</b>	<b>0.061</b>	<b>0.689</b>				<b>61.33</b>	<b>4.79</b>	<b>8.14</b>

Source: City of Maitland, 2007.

Prepared by: HRH

Created by: ADG

Regression Data Sheet for City of Maitland Lakes

Table 17. Minnehaha Geocenter

Date	Parameter Units													
	Alk. (mg/l)	pH	T.P. (mg/l)	O.P. (mg/l)	T.N. (mg/l)	NH3 (mg/l)	Nox (mg/l)	TKN (mg/l)	TSS (mg/l)	VSS (mg/l)	TDS (mg/l)	T.C. (100ml)	S.D. (ft)	Chl-a (mg/m <sup>3</sup> )
Oct-03	36.80	7.80	0.030	0.004	0.88	0.020	0.020	0.879	5.50	5.50	116.00	50.00	6.00	7.40
Nov-03	34.50	7.58	0.019	0.004	1.01	0.020	0.020	1.010	6.00	6.00	120.00	91.00	6.50	11.60
Dec-03	38.20	7.43	0.033	0.004	0.93	0.020	0.020	0.931	8.50	8.50	120.00	200.00	8.00	0.50
Jan-04	38.30	7.60	0.043	0.025	0.99	0.020	0.020	0.990	9.00	9.00	108.00	260.00	8.50	7.10
Feb-04	5.30	7.92	0.016	0.005	0.53	0.020	0.020	0.528	2.00	2.00	94.00	90.00	7.50	2.10
Mar-04	40.00	7.67	0.020	0.006	0.80	0.020	0.020	0.805	5.50	5.50	126.00	300.00	7.00	6.40
Apr-04	39.70	8.43	0.040	0.005	0.92	0.020	0.020	0.923	6.50	6.50	118.00	216.00	7.50	5.50
May-04	44.70	8.80	0.012	0.005	1.08	0.020	0.020	1.080	6.00	6.00	138.00	18.00	6.50	0.50
Jun-04	38.60	7.42	0.006	0.005	0.79	0.020	0.020	0.793	6.80	6.80	102.00	30.00	4.25	12.50
Jul-04	42.70	7.78	0.022	0.005	1.03	0.020	0.020	1.030	7.30	7.30	70.00	72.00	8.50	22.00
Aug-04	19.60	7.81	0.042	0.010	0.07	0.035	0.020	0.050	8.00	8.00	122.00	3500.00	6.00	22.10
Sep-04														
<b>Average</b>	<b>34.12</b>	<b>7.87</b>	<b>0.026</b>	<b>0.008</b>	<b>0.79</b>	<b>0.022</b>	<b>0.020</b>	<b>0.792</b>	<b>6.62</b>	<b>6.62</b>	<b>110.89</b>	<b>520.67</b>	<b>7.08</b>	<b>8.74</b>
Oct-04			0.027	0.005	1.04	0.020	0.018	1.020				90.00	5.30	21.10
Nov-04			0.020	0.006	0.98	0.008	0.009	0.967				50.00	9.50	28.80
Dec-04			0.035	0.003	0.07	0.008	0.006	0.049				50.00	12.00	29.70
Jan-05			0.055	0.011	0.90	0.008	0.005	0.899				36.00	6.00	27.30
Feb-05			0.020	0.006	0.87	0.008	0.005	0.873				27.00	4.80	17.10
Mar-05			0.067	0.005	1.22	0.020	0.117	1.100				20.00	6.50	2.00
Apr-05			0.090	0.004	0.57	0.020	0.050	0.572				1.00	5.40	13.70
May-05			0.060	0.006	1.50	0.020	0.050	1.500				10.00	3.90	18.40
Jun-05			0.046	0.004	0.80	0.092	0.050	0.804				120.00	4.90	10.40
Jul-05			0.153	0.004	1.10	0.020	0.050	1.100				1.00	3.00	6.02
Aug-05			0.106	0.005	0.46	0.020	0.050	0.455				70.00	4.10	11.20
Sep-05			0.400	0.004	0.67	0.020	0.050	0.674				55.00	6.40	13.40
<b>Average</b>			<b>0.090</b>	<b>0.005</b>	<b>0.85</b>	<b>0.022</b>	<b>0.038</b>	<b>0.829</b>				<b>44.17</b>	<b>5.98</b>	<b>16.59</b>
Oct-05			0.0408	0.0036	0.923	0.020	0.0500	0.923				1,040	3.0	14.50
Nov-05			0.0361	0.0080	0.668	0.020	0.0500	0.668				36	3.5	11.70
Dec-05			0.0400	0.0050	0.780	0.020	0.0500	0.780				50	3.0	8.50
Jan-06			0.0400	0.0036	0.624	0.020	0.0500	0.624				10	4.0	7.60
Feb-06			0.0400	0.0036	0.944	0.020	0.1170	0.827				10	7.0	5.63
Mar-06			0.0457	0.0036	0.570	0.020	0.0735	0.497				10	5.0	4.00
Apr-06			0.1020	0.0036	0.990	0.090	0.0500	0.990				1,320	5.0	5.10
May-06			0.0452	0.0036	0.741	0.020	0.0500	0.741				230	4.0	4.50
Jun-06			0.0400	0.0036	1.240	0.020	0.0500	1.240				18	2.0	24.30
Jul-06			0.1170	0.0036	1.610	0.020	0.0500	1.610				54	3.0	32.60
Aug-06			0.0699	0.0060	0.956	0.020	0.0500	0.956				18	3.0	8.40
Sep-06			0.0400	0.0036	1.160	0.020	0.0180	1.160				100	2.0	11.60
<b>Average</b>			<b>0.055</b>	<b>0.004</b>	<b>0.93</b>	<b>0.026</b>	<b>0.055</b>	<b>0.918</b>				<b>241.33</b>	<b>3.71</b>	<b>11.54</b>

Source: City of Maitland, 2007.

Prepared by: HRH

Created by: ADG

Regression Data Sheet for City of Maitland Lakes

Table 18. Nina Geocenter

Date	Parameter Units													
	Alk. (mg/l)	pH	T.P. (mg/l)	O.P. (mg/l)	T.N. (mg/l)	NH3 (mg/l)	Nox (mg/l)	TKN (mg/l)	TSS (mg/l)	VSS (mg/l)	TDS (mg/l)	T.C. (100ml)	S.D. (ft)	Chl-a (mg/m <sup>3</sup> )
Oct-03	36.80	7.13	0.030	0.004	0.82	0.020	0.020	0.823	5.00	5.00	120.00	181.00	4.00	4.10
Nov-03	34.50	7.57	0.042	0.004	0.87	0.020	0.020	0.873	7.00	7.00	120.00	200.00	4.50	11.60
Dec-03	35.00	6.91	0.033	0.004	1.08	0.020	0.020	1.080	3.50	3.50	124.00	400.00	4.50	5.30
Jan-04	26.80	7.29	0.043	0.004	0.71	0.020	0.020	0.713	5.00	5.00	108.00	2700.00	4.50	6.20
Feb-04	48.40	7.66	0.042	0.004	0.53	0.020	0.032	0.494	1.50	1.50	112.00	10.00	4.50	1.80
Mar-04	39.00	7.22	0.020	0.005	0.73	0.020	0.020	0.733	2.70	2.70	142.00	70.00	7.50	5.30
Apr-04	40.70	7.51	0.042	0.005	0.72	0.020	0.020	0.717	4.50	4.50	128.00	63.00	4.00	0.50
May-04	38.60	7.60	0.026	0.005	0.90	0.020	0.020	0.904	5.00	5.00	138.00	70.00	4.00	7.40
Jun-04	37.50	6.48	0.069	0.005	0.74	0.020	0.020	0.740	2.40	2.40	104.00	63.00	4.00	18.80
Jul-04	39.20	7.09	0.018	0.004	0.84	0.020	0.020	0.836	3.50	3.50	142.00	118.00	4.50	11.20
Aug-04	35.70	6.94	0.049	0.011	0.67	0.020	0.018	0.654	5.50	5.50	132.00	4600.00	5.00	19.10
Sep-04														
<b>Average</b>	<b>37.88</b>	<b>7.19</b>	<b>0.038</b>	<b>0.005</b>	<b>0.77</b>	<b>0.020</b>	<b>0.021</b>	<b>0.763</b>	<b>3.73</b>	<b>3.73</b>	<b>125.56</b>	<b>899.33</b>	<b>4.72</b>	<b>8.40</b>
Oct-04			0.038	0.005	0.99	0.020	0.020	0.990				200.00	5.80	19.60
Nov-04			0.055	0.006	1.06	0.008	0.011	1.050				163.00	5.00	16.70
Dec-04			0.063	0.003	0.48	0.008	0.008	0.472				140.00	5.00	14.70
Jan-05			0.042	0.003	0.94	0.008	0.005	0.936				280.00	5.30	23.10
Feb-05			0.017	0.004	0.90	0.008	0.005	0.901				55.00	4.30	12.30
Mar-05			0.075	0.005	0.97	0.020	0.050	0.970				20.00	4.50	*
Apr-05			0.090	0.006	0.39	0.020	0.050	0.387				63.00	5.00	11.90
May-05			0.047	0.004	0.98	0.020	0.050	0.984				10.00	5.00	6.20
Jun-05			0.048	0.004	0.74	0.088	0.050	0.741				802.00	4.70	8.16
Jul-05			0.073	0.004	0.81	0.526	0.056	0.757				50.00	3.00	8.03
Aug-05			0.070	0.004	0.66	0.020	0.050	0.661				400.00	5.00	13.00
Sep-05			0.020	0.005	0.69	0.020	0.050	0.694				130.00	5.10	13.10
<b>Average</b>			<b>0.053</b>	<b>0.004</b>	<b>0.80</b>	<b>0.064</b>	<b>0.034</b>	<b>0.782</b>				<b>192.75</b>	<b>4.81</b>	<b>13.34</b>
Oct-05			0.0431	0.0036	0.960	0.020	0.0500	0.960				2,100	2.5	14.30
Nov-05			0.0406	0.0080	0.652	0.020	0.0500	0.652				100	3.5	8.50
Dec-05			0.0400	0.0036	1.000	0.020	0.2410	0.761				6,300	6.0	8.20
Jan-06			0.0505	0.0036	0.472	0.020	0.0500	0.472				200	5.0	4.30
Feb-06			0.0464	0.0040	0.747	0.088	0.0500	0.747				60	6.0	5.40
Mar-06			0.0400	0.0036	0.599	0.020	0.0500	0.599				54	5.0	1.90
Apr-06			0.0250	0.0036	0.719	0.163	0.0500	0.719				10	7.0	2.20
May-06			0.0412	0.0036	0.634	0.020	0.0500	0.634				20	6.0	4.40
Jun-06			0.0400	0.0036	1.150	0.020	0.0500	1.150				793	4.0	5.10
Jul-06			0.0530	0.0036	0.886	0.020	0.0500	0.886				1,080	3.0	17.70
Aug-06			0.0540	0.0060	0.880	0.020	0.0500	0.880				2,000	5.0	5.40
Sep-06			0.0437	0.0036	1.110	0.020	0.0180	1.110				760	2.0	5.70
<b>Average</b>			<b>0.043</b>	<b>0.004</b>	<b>0.82</b>	<b>0.038</b>	<b>0.063</b>	<b>0.798</b>				<b>1123.08</b>	<b>4.58</b>	<b>6.93</b>

Source: City of Maitland, 2007.

Prepared by: HRH

Created by: ADG

Regression Data Sheet for City of Maitland Lakes

Table 19. Park Geocenter

Date	Parameter Units													
	Alk. (mg/l)	pH	T.P. (mg/l)	O.P. (mg/l)	T.N. (mg/l)	NH3 (mg/l)	Nox (mg/l)	TKN (mg/l)	TSS (mg/l)	VSS (mg/l)	TDS (mg/l)	T.C. (100ml)	S.D. (ft)	Chl-a (mg/m <sup>3</sup> )
Oct-03	74.50	7.60	0.036	0.004	0.99	0.020	0.020	0.986	3.00	3.00	142.00	330.00	6.50	6.90
Nov-03	759.00	7.52	0.048	0.004	0.95	0.020	0.020	0.950	7.00	7.00	140.00	79.00	6.50	7.90
Dec-03	74.50	6.98	0.046	0.004	0.87	0.020	0.020	0.870	6.00	6.00	144.00	209.00	7.00	22.10
Jan-04	74.40	7.80	0.057	0.004	1.02	0.020	0.020	1.02	9.50	9.50	146.00	490.00	6.50	10.10
Feb-04	37.00	7.91	0.035	0.006	0.65	0.020	0.020	0.651	2.00	2.00	124.00	30.00	7.00	6.10
Mar-04	77.00	8.51	0.023	0.006	0.76	0.066	0.020	0.763	3.30	3.30	140.00	390.00	6.50	1.50
Apr-04	71.60	8.93	0.056	0.005	0.97	0.020	0.020	0.972	6.50	6.50	152.00	163.00	6.00	8.40
May-04	77.50	8.23	0.028	0.005	0.86	0.020	0.020	0.857	4.00	4.00	130.00	18.00	6.00	14.50
Jun-04	76.00	6.71	0.006	0.005	1.25	0.020	0.020	1.250	8.00	8.00	148.00	200.00	7.00	24.40
Jul-04	75.70	7.62	0.046	0.006	0.97	0.020	0.020	0.970	4.70	4.70	148.00	220.00	7.00	17.10
Aug-04	69.00	7.55	0.048	0.021	1.36	0.020	0.020	1.360	2.70	2.70	120.00	400.00	7.50	0.50
Sep-04														
<b>Average</b>	<b>70.30</b>	<b>7.80</b>	<b>0.038</b>	<b>0.007</b>	<b>0.97</b>	<b>0.025</b>	<b>0.020</b>	<b>0.968</b>	<b>5.19</b>	<b>5.19</b>	<b>139.11</b>	<b>235.56</b>	<b>6.72</b>	<b>11.63</b>
Oct-04			0.065	0.005	1.04	0.020	0.018	1.020				153.00	7.00	23.50
Nov-04			0.020	0.006	0.90	0.008	0.011	0.891				90.00	7.00	23.30
Dec-04			0.045	0.003	0.99	0.008	0.007	0.985				141.00	7.60	22.10
Jan-05			0.036	0.004	0.76	0.008	0.005	0.757				136.00	7.00	16.80
Feb-05			0.013	0.009	0.66	0.008	0.005	0.656				126.00	6.80	10.10
Mar-05			0.045	0.004	0.72	0.020	0.050	0.717				39.00	6.90	7.20
Apr-05			0.096	0.004	0.35	0.020	0.050	0.345				20.00	6.90	10.90
May-05			0.052	0.004	1.39	0.020	0.050	1.390				45.00	6.80	22.50
Jun-05			0.048	0.004	1.05	0.093	0.050	1.050				20.00	6.70	14.80
Jul-05			0.107	0.004	0.97	0.020	0.050	0.971				290.00	6.80	23.30
Aug-05			0.033	0.004	0.93	0.020	0.050	0.925				380.00	7.00	17.00
Sep-05			0.083	0.004	0.79	0.020	0.050	0.785				191.00	7.20	9.20
<b>Average</b>			<b>0.054</b>	<b>0.004</b>	<b>0.88</b>	<b>0.022</b>	<b>0.033</b>	<b>0.885</b>				<b>135.92</b>	<b>6.98</b>	<b>16.73</b>
Oct-05			0.2340	0.0040	0.910	0.020	0.0500	0.910				740	3.0	18.40
Nov-05			0.0483	0.0050	0.825	0.020	0.0500	0.825				270	3.0	15.30
Dec-05			0.0400	0.0070	0.777	0.020	0.0500	0.777				200	3.0	14.00
Jan-06			0.0476	0.0036	0.644	0.020	0.0500	0.644				55	4.0	9.50
Feb-06			0.0524	0.0036	0.759	0.020	0.0500	0.759				10	6.0	4.04
Mar-06			0.0520	0.0120	0.650	0.020	0.0500	0.650				10	3.0	5.20
Apr-06			0.0470	0.0036	0.623	0.055	0.0500	0.623				10	5.0	2.20
May-06			0.0466	0.0036	0.716	0.020	0.0500	0.716				55	4.0	9.00
Jun-06			0.0475	0.0036	0.960	0.020	0.0500	0.960				150	3.0	12.60
Jul-06			0.0547	0.0036	0.734	0.020	0.0500	0.734				520	3.0	16.30
Aug-06			0.0612	0.0050	0.708	0.020	0.0500	0.708				136	3.0	13.70
Sep-06			0.0532	0.0036	0.850	0.020	0.0180	0.850				200	4.0	10.50
<b>Average</b>			<b>0.065</b>	<b>0.005</b>	<b>0.76</b>	<b>0.023</b>	<b>0.047</b>	<b>0.763</b>				<b>196.33</b>	<b>3.67</b>	<b>10.90</b>

Source: City of Maitland, 2007.

Prepared by: HRH

Created by: ADG

Regression Data Sheet for City of Maitland Lakes

Table 20. Shadow Geocenter

Date	Parameter Units													
	Alk. (mg/l)	pH	T.P. (mg/l)	O.P. (mg/l)	T.N. (mg/l)	NH3 (mg/l)	Nox (mg/l)	TKN (mg/l)	TSS (mg/l)	VSS (mg/l)	TDS (mg/l)	T.C. (100ml)	S.D. (ft)	Chl-a (mg/m <sup>3</sup> )
Oct-03	36.80	7.32	0.021	0.004	0.89	0.020	0.020	0.891	2.00	2.00	98.00	80.00	9.50	11.60
Nov-03	41.90	7.42	0.027	0.004	0.94	0.020	0.020	0.938	4.70	4.70	96.00	30.00	9.00	14.70
Dec-03	44.20	7.87	0.024	0.004	0.85	0.020	0.020	0.849	5.00	5.00	118.00	10.00	9.50	11.60
Jan-04	42.70	7.46	0.032	0.012	0.77	0.020	0.020	0.773	2.70	2.70	100.00	20.00	8.50	0.60
Feb-04														
Mar-04	44.00	8.02	0.011	0.004	0.58	0.020	0.020	0.578	1.00	1.00	104.00	50.00	6.00	0.50
Apr-04	90.30	9.32	0.046	0.015	0.50	0.020	0.020	0.495	10.00	10.00	102.00	60.00	7.50	8.50
May-04	52.00	9.37	0.012	0.004	1.01	0.020	0.020	1.010	10.00	10.00	108.00	40.00	8.00	0.50
Jun-04	49.70	8.01	0.030	0.004	0.89	0.020	0.020	0.894	6.00	6.00	102.00	10.00	9.00	5.80
Jul-04	54.60	7.58	0.034	0.008	0.95	0.020	0.020	0.949	4.50	4.50	112.00	36.00	8.00	12.40
Aug-04	46.10	7.18	0.042	0.010	0.84	0.020	0.018	0.818	5.00	5.00	100.00	180.00	9.00	16.50
Sep-04														
<b>Average</b>	<b>52.95</b>	<b>8.10</b>	<b>0.029</b>	<b>0.008</b>	<b>0.80</b>	<b>0.020</b>	<b>0.020</b>	<b>0.796</b>	<b>5.53</b>	<b>5.53</b>	<b>105.75</b>	<b>50.75</b>	<b>8.19</b>	<b>7.05</b>
Oct-04			0.034	0.050	0.75	0.020	0.018	0.731				109.00	9.30	15.70
Nov-04			0.020	0.006	0.31	0.008	0.011	0.301				2.00	8.00	14.60
Dec-04			0.042	0.003	0.90	0.011	0.013	0.892				10.00	8.80	16.70
Jan-05			0.071	0.004	0.48	0.008	0.005	0.481				70.00	8.80	9.70
Feb-05			0.009	0.004	0.43	0.008	0.005	0.426				10.00	8.70	10.60
Mar-05			0.041	0.003	0.52	0.020	0.050	0.518				2.00	6.70	5.00
Apr-05			0.082	0.004	0.28	0.020	0.050	0.280				10.00	7.80	6.90
May-05			0.029	0.005	0.93	0.020	0.050	0.931				20.00	6.90	13.50
Jun-05			0.028	0.004	0.80	0.082	0.050	0.801				100.00	9.10	5.42
Jul-05			0.085	0.004	0.69	0.020	0.050	0.686				64.00	7.60	4.66
Aug-05			0.084	0.004	0.56	0.020	0.050	0.563				20.00	7.80	9.00
Sep-05			0.051	0.004	0.70	0.020	0.050	0.703				1.00	8.40	9.50
<b>Average</b>			<b>0.048</b>	<b>0.008</b>	<b>0.61</b>	<b>0.021</b>	<b>0.034</b>	<b>0.621</b>				<b>34.83</b>	<b>8.16</b>	<b>10.11</b>
Oct-05			0.0200	0.0040	0.766	0.020	0.0500	0.766				200	5.0	5.70
Nov-05			0.0270	0.0120	0.576	0.020	0.0500	0.576				30	6.0	5.10
Dec-05			0.0400	0.0036	0.711	0.020	0.0569	0.654				73	7.0	5.00
Jan-06			0.0400	0.0036	0.609	0.020	0.0792	0.053				20	7.0	6.30
Feb-06			0.0533	0.0036	0.808	0.020	0.0500	0.808				20	9.0	7.90
Mar-06			0.0541	0.0360	0.509	0.020	0.0500	0.509				10	8.0	0.50
Apr-06			0.0250	0.0036	0.564	0.179	0.0500	0.564				127	7.0	3.70
May-06			0.0400	0.0036	0.681	0.020	0.0500	0.681				10	4.0	0.50
Jun-06			0.0400	0.0036	0.837	0.020	0.0500	0.837				30	4.0	24.20
Jul-06			0.0400	0.0036	0.580	0.020	0.0500	0.580				60	4.0	21.20
Aug-06			0.0475	0.0036	0.781	0.020	0.0500	0.781				380	4.0	3.40
Sep-06														
<b>Average</b>			<b>0.039</b>	<b>0.007</b>	<b>0.67</b>	<b>0.034</b>	<b>0.053</b>	<b>0.619</b>				<b>87.27</b>	<b>5.91</b>	<b>7.59</b>

Source: City of Maitland, 2007.

Prepared by: HRH

Created by: ADG

Regression Data Sheet for City of Maitland Lakes

Table 21. Sybelia Geocenter

Date	Parameter Units													
	Alk. (mg/l)	pH	T.P. (mg/l)	O.P. (mg/l)	T.N. (mg/l)	NH3 (mg/l)	Nox (mg/l)	TKN (mg/l)	TSS (mg/l)	VSS (mg/l)	TDS (mg/l)	T.C. (100ml)	S.D. (ft)	Chl-a (mg/m <sup>3</sup> )
Oct-03	10.50	7.14	0.024	0.004	0.58	0.020	0.020	0.580	2.00	2.00	78.00	81.00	7.00	6.80
Nov-03	12.00	7.66	0.032	0.004	0.76	0.020	0.020	0.756	5.00	5.00	76.00	118.00	8.50	6.10
Dec-03	9.20	7.31	0.027	0.004	0.68	0.020	0.02	0.677	3.00	3.00	86.00	20.00	8.00	4.70
Jan-04	6.20	6.65	0.028	0.004	0.73	0.020	0.024	0.707	1.00	1.00	84.00	30.00	9.00	2.40
Feb-04	73.00	7.87	0.032	0.008	0.68	0.020	0.020	0.676	3.50	3.50	130.00	27.00	7.00	3.90
Mar-04	7.00	7.58	0.013	0.004	0.70	0.020	0.020	0.701	1.00	1.00	86.00	20.00	6.00	1.00
Apr-04	6.80	7.40	0.036	0.005	1.12	0.020	0.020	1.120	2.00	2.00	80.00	10.00	7.00	0.50
May-04	54.10	7.55	0.018	0.005	0.72	0.020	0.020	0.725	3.00	3.00	70.00	540.00	6.50	0.50
Jun-04	30.70	5.55	0.006	0.005	0.62	0.020	0.020	0.624	1.20	1.20	68.00	36.00	8.00	10.50
Jul-04	12.80	7.26	0.012	0.005	0.62	0.020	0.020	0.625	2.00	2.00	134.00	300.00	6.50	12.20
Aug-04	13.30	7.82	0.028	0.010	0.07	0.020	0.020	0.050	2.00	2.00	76.00	800.00	6.00	12.60
Sep-04														
<b>Average</b>	<b>23.68</b>	<b>7.22</b>	<b>0.022</b>	<b>0.006</b>	<b>0.66</b>	<b>0.020</b>	<b>0.020</b>	<b>0.656</b>	<b>2.08</b>	<b>2.08</b>	<b>90.44</b>	<b>198.11</b>	<b>7.11</b>	<b>5.37</b>
Oct-04			0.041	0.034	0.64	0.020	0.018	0.619				181.00	10.20	0.50
Nov-04			0.020	0.006	0.68	0.008	0.009	0.676				260.00	7.50	10.40
Dec-04			0.045	0.005	0.72	0.008	0.029	0.695				145.00	8.60	9.70
Jan-05			0.029	0.004	0.41	0.030	0.050	0.364				20.00	8.30	5.50
Feb-05			0.009	0.003	0.53	0.008	0.111	0.423				20.00	9.30	3.90
Mar-05			0.066	0.005	1.40	0.020	0.050	1.400				10.00	8.00	11.40
Apr-05			0.085	0.004	0.15	0.020	0.050	0.102				20.00	8.90	3.80
May-05			0.051	0.004	0.64	0.020	0.050	0.640				10.00	9.00	3.00
Jun-05			0.026	0.004	0.49	0.093	0.050	0.487				130.00	9.60	2.99
Jul-05			0.061	0.004	0.57	0.020	0.050	0.572				109.00	8.90	3.61
Aug-05			0.058	0.004	0.48	0.020	0.050	0.478				216.00	9.60	5.10
Sep-05			0.031	0.004	0.62	0.020	0.050	0.615				100.00	9.60	4.20
<b>Average</b>			<b>0.044</b>	<b>0.007</b>	<b>0.61</b>	<b>0.024</b>	<b>0.047</b>	<b>0.610</b>				<b>101.75</b>	<b>8.96</b>	<b>5.34</b>
Oct-05			0.0470	0.0036	0.612	0.020	0.0500	0.612				320	6.0	9.00
Nov-05			0.0358	0.0130	0.521	0.020	0.0500	0.521				50	6.0	6.10
Dec-05			0.0400	0.0036	0.686	0.020	0.1560	0.530				10	7.0	2.50
Jan-06			0.0400	0.0036	0.625	0.020	0.2240	0.401				10	8.0	1.30
Feb-06			0.0400	0.0036	0.866	0.034	0.1850	0.681				10	13.0	3.88
Mar-06			0.0400	0.0036	0.791	0.020	0.1340	0.657				10	9.0	1.00
Apr-06			0.0250	0.0036	0.636	0.095	0.0642	0.572				200	9.0	1.50
May-06			0.0400	0.0036	0.640	0.020	0.0500	0.640				2,500	11.0	2.90
Jun-06			0.0400	0.0036	0.461	0.020	0.0500	0.461				40	8.0	4.90
Jul-06			0.0400	0.0036	0.730	0.020	0.0500	0.730				26	7.0	7.00
Aug-06			0.0483	0.0080	0.743	0.020	0.0500	0.743				240	3.5	4.50
Sep-06			0.0400	0.0036	0.837	0.020	0.0180	0.837				172	4.0	6.30
<b>Average</b>			<b>0.040</b>	<b>0.005</b>	<b>0.68</b>	<b>0.027</b>	<b>0.090</b>	<b>0.615</b>				<b>299.00</b>	<b>7.63</b>	<b>4.24</b>

Source: City of Maitland, 2007.

Prepared by: HRH

Created by: ADG

**Table 22.** Yearly Trophic State Indices for the Lakes of Maitland

LAKE	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	AVERAGE	AV. TROPHIC STATE	LIMITING NUTRIENT
Catherine	29.00	26.90	29.10	18.80	27.50	26.10	27.30	40.10	24.90	38.20	31.87	36.15	36.04	24.92	OLIGOTROPHIC	BALANCED
Charity	33.70	34.80	49.10	25.00	29.30	41.20	36.60	38.10	38.10	43.50	31.27	41.17	41.78	31.63	OLIGOTROPHIC	BALANCED
Destiny	25.10	24.50	26.20	17.90	32.80	38.40	47.20	35.90	15.70	36.40	18.93	34.79	33.79	25.68	OLIGOTROPHIC	BALANCED
Eulalia	34.20	43.40	41.20	33.30	45.60	39.70	41.00	43.70	43.70	61.90	35.99	39.05	39.93	35.97	OLIGOTROPHIC	PHOSPHORUS
Faith	28.30	32.00	42.90	21.50	33.50	36.00	28.60	36.50	29.10	40.50	20.80	34.46	36.41	28.10	OLIGOTROPHIC	PHOSPHORUS
Gem	66.10	61.60	64.10	58.20	78.80	60.50	58.40	50.10	62.60	51.60	58.24	59.47	59.07	51.62	MESOTROPHIC	PHOSPHORUS
Harvest	33.60	28.60	40.00	23.60	36.10	41.80	41.80	28.90	28.90	41.80	29.98	40.25	37.16	29.40	OLIGOTROPHIC	BALANCED
Hope	43.10	44.90	41.50	30.60	45.50	42.40	41.10	54.00	44.10	45.20	33.08	36.63	36.72	36.09	OLIGOTROPHIC	BALANCED
Hungerford	49.60	56.00	43.90	37.50	48.20	42.60	40.60	41.80	27.60	57.90	39.17	47.56	49.76	38.11	OLIGOTROPHIC	PHOSPHORUS
Jackson	36.60	54.90	53.30	47.00	68.70	46.90	50.00	50.80	40.50	55.00	49.27	54.49	51.49	42.71	OLIGOTROPHIC	PHOSPHORUS
Lily	60.00	58.20	61.10	42.50	57.20	62.50	63.50	54.60	37.60	50.00	58.24	58.26	49.74	45.92	OLIGOTROPHIC	BALANCED
Lomond	N/A	N/A	31.10	22.60	34.10	41.90	40.30	41.40	26.00	41.90	30.16	42.15	40.06	29.03	OLIGOTROPHIC	BALANCED
Love	N/A	N/A	38.30	21.50	48.80	34.30	30.40	36.40	17.40	34.40	N/A	34.78	N/A	32.69	OLIGOTROPHIC	PHOSPHORUS
Lovely	67.50	64.10	65.40	57.20	63.90	68.70	66.60	62.90	52.20	64.00	N/A	N/A	N/A	62.61	EUTROPHIC	BALANCED
Lucien	26.90	28.70	38.90	19.60	45.00	38.90	37.10	23.10	12.20	40.70	30.90	39.69	36.50	26.74	OLIGOTROPHIC	BALANCED
Maitland	57.10	53.30	54.40	44.00	54.00	52.20	51.80	50.00	37.30	47.10	44.32	57.09	48.67	42.30	OLIGOTROPHIC	PHOSPHORUS
Minnehaha	55.10	58.40	57.90	48.50	58.40	56.60	55.10	52.10	37.20	50.70	45.11	55.00	53.68	44.90	OLIGOTROPHIC	PHOSPHORUS
Nina	53.00	57.30	59.30	46.80	58.70	60.50	46.90	50.80	39.80	51.10	48.73	53.84	48.24	44.03	OLIGOTROPHIC	PHOSPHORUS
Park	54.10	49.20	56.50	46.30	58.20	54.30	56.10	50.40	38.40	52.10	52.26	55.95	53.09	43.75	OLIGOTROPHIC	BALANCED
Shadow	62.30	53.90	51.60	43.30	52.80	65.80	47.40	39.10	28.70	62.10	46.39	50.03	47.46	42.65	OLIGOTROPHIC	PHOSPHORUS
Sybelia	40.50	46.90	45.40	36.40	43.60	45.00	55.70	47.70	28.80	43.30	42.26	44.97	43.40	36.67	OLIGOTROPHIC	PHOSPHORUS

Source: MACTEC, 2007. Created by: HRH Checked by: ADG.

Note: N/A indicates that no sampling was conducted during its respective year(s).

**Table 23.** Lake Catherine Summary Output

<i>Regression Statistics</i>	
Multiple R	0.590
R Square	0.348
Adjusted R Square	0.288
Standard Error	5.098
Observations	13

ANOVA					
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	152.448	152.448	5.865	<b>0.034</b>
Residual	11	285.927	25.993		
Total	12	438.375			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95.0%</i>	<i>Upper 95.0%</i>
Intercept	-1800.289	755.834	-2.382	0.036	-3463.869	-136.709	-3463.869	-136.709
X Variable 1	<b>0.915</b>	0.378	2.422	0.034	0.083	1.747	0.083	1.747

Source: City of Maitland, 2007.

Prepared by: HRH Created by: WAT

**Table 24.** Lake Charity Summary Output

<i>Regression Statistics</i>	
Multiple R	0.262
R Square	0.069
Adjusted R Square	-0.016
Standard Error	6.510
Observations	13

ANOVA					
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	34.300	34.300	0.809	0.388
Residual	11	466.142	42.377		
Total	12	500.442			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95.0%</i>	<i>Upper 95.0%</i>
Intercept	-831.040	965.068	-0.861	0.408	-2955.141	1293.060	-2955.141	1293.060
X Variable 1	0.434	0.483	0.900	0.388	-0.628	1.496	-0.628	1.496

Source: City of Maitland, 2007.

Prepared by: HRH Created by: WAT

**Table 25.** Lake Destiny Summary Output

<i>Regression Statistics</i>	
Multiple R	0.216
R Square	0.046
Adjusted R Square	-0.040
Standard Error	9.445
Observations	13

ANOVA					
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	47.839	47.839	0.536	0.479
Residual	11	981.184	89.199		
Total	12	1029.024			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95.0%</i>	<i>Upper 95.0%</i>
Intercept	-995.568	1400.148	-0.711	0.492	-4077.274	2086.137	-4077.274	2086.137
X Variable 1	0.513	0.700	0.732	0.479	-1.028	2.054	-1.028	2.054

Source: City of Maitland, 2007.

Prepared by: HRH Created by: WAT

**Table 26.** Lake Eualalia Summary Output

**EUALALIA**

SUMMARY OUTPUT

<i>Regression Statistics</i>	
Multiple R	0.234
R Square	0.055
Adjusted R Square	-0.031
Standard Error	7.229
Observations	13

<i>ANOVA</i>					
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	33.377	33.377	0.639	0.441
Residual	11	574.887	52.262		
Total	12	608.264			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95.0%</i>	<i>Upper 95.0%</i>
Intercept	-814.737	1071.741	-0.760	0.463	-3173.623	1544.148	-3173.623	1544.148
X Variable 1	0.428	0.536	0.799	0.441	-0.751	1.608	-0.751	1.608

Source: City of Maitland, 2007.

Prepared by: HRH Created by: WAT

**Table 27.** Lake Faith Summary Output

<i>Regression Statistics</i>	
Multiple R	0.069
R Square	0.005
Adjusted R Square	-0.086
Standard Error	6.878
Observations	13

ANOVA					
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	2.483	2.483	0.053	0.823
Residual	11	520.320	47.302		
Total	12	522.803			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95.0%</i>	<i>Upper 95.0%</i>
Intercept	-201.275	1019.609	-0.197	0.847	-2445.420	2042.870	-2445.420	2042.870
X Variable 1	0.117	0.510	0.229	0.823	-1.005	1.239	-1.005	1.239

Source: City of Maitland, 2007.

Prepared by: HRH Created by: WAT

**Table 28.** Lake Gem Summary Output

<i>Regression Statistics</i>	
Multiple R	0.424
R Square	0.180
Adjusted R Square	0.105
Standard Error	6.632
Observations	13

ANOVA					
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	105.961	105.961	2.409	0.149
Residual	11	483.753	43.978		
Total	12	589.714			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95.0%</i>	<i>Upper 95.0%</i>
Intercept	1586.719	983.129	1.614	0.135	-577.132	3750.571	-577.132	3750.571
X Variable 1	-0.763	0.492	-1.552	0.149	-1.845	0.319	-1.845	0.319

Source: City of Maitland, 2007.

Prepared by: HRH Created by: WAT

**Table 29.** Lake Harvest Summary Output

<i>Regression Statistics</i>	
Multiple R	0.229
R Square	0.052
Adjusted R Square	-0.034
Standard Error	6.358
Observations	13

ANOVA					
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	24.540	24.540	0.607	0.452
Residual	11	444.634	40.421		
Total	12	469.174			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95.0%</i>	<i>Upper 95.0%</i>
Intercept	-699.589	942.541	-0.742	0.473	-2774.107	1374.929	-2774.107	1374.929
X Variable 1	0.367	0.471	0.779	0.452	-0.670	1.404	-0.670	1.404

Source: City of Maitland, 2007.

Prepared by: HRH Created by: WAT

**Table 30.** Lake Hope Summary Output

<i>Regression Statistics</i>	
Multiple R	0.214
R Square	0.046
Adjusted R Square	-0.041
Standard Error	6.207
Observations	13

ANOVA					
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	20.251	20.251	0.526	0.484
Residual	11	423.776	38.525		
Total	12	444.027			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95.0%</i>	<i>Upper 95.0%</i>
Intercept	708.591	920.168	0.770	0.457	-1316.684	2733.866	-1316.684	2733.866
X Variable 1	-0.334	0.460	-0.725	0.484	-1.346	0.679	-1.346	0.679

Source: City of Maitland, 2007.

Prepared by: HRH Created by: WAT

**Table 31.** Lake Hungerford Summary Output

<i>Regression Statistics</i>	
Multiple R	0.109
R Square	0.012
Adjusted R Square	-0.078
Standard Error	8.354
Observations	13

ANOVA					
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	9.218	9.218	0.132	0.723
Residual	11	767.764	69.797		
Total	12	776.983			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95.0%</i>	<i>Upper 95.0%</i>
Intercept	494.894	1238.548	0.400	0.697	-2231.131	3220.919	-2231.131	3220.919
X Variable 1	-0.225	0.619	-0.363	0.723	-1.588	1.138	-1.588	1.138

Source: City of Maitland, 2007.

Prepared by: HRH Created by: WAT

**Table 32.** Lake Jackson Summary Output

<i>Regression Statistics</i>	
Multiple R	0.118
R Square	0.014
Adjusted R Square	-0.076
Standard Error	8.008
Observations	13

ANOVA					
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	10.004	10.004	0.156	0.700
Residual	11	705.397	64.127		
Total	12	715.401			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95.0%</i>	<i>Upper 95.0%</i>
Intercept	-418.213	1187.177	-0.352	0.731	-3031.173	2194.747	-3031.173	2194.747
X Variable 1	0.234	0.594	0.395	0.700	-1.072	1.541	-1.072	1.541

Source: City of Maitland, 2007.

Prepared by: HRH Created by: WAT

**Table 33.** Lake Lily Summary Output

<i>Regression Statistics</i>	
Multiple R	0.265
R Square	0.070
Adjusted R Square	-0.014
Standard Error	7.900
Observations	13

ANOVA					
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	52.018	52.018	0.833	0.381
Residual	11	686.548	62.413		
Total	12	738.566			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95.0%</i>	<i>Upper 95.0%</i>
Intercept	1124.111	1171.208	0.960	0.358	-1453.701	3701.922	-1453.701	3701.922
X Variable 1	-0.535	0.586	-0.913	0.381	-1.824	0.754	-1.824	0.754

Source: City of Maitland, 2007.

Prepared by: HRH Created by: WAT

**Table 34.** Lake Lomond Summary Output

<i>Regression Statistics</i>	
Multiple R	0.409
R Square	0.167
Adjusted R Square	0.074
Standard Error	6.879
Observations	11

ANOVA					
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	85.325	85.325	1.803	0.212
Residual	9	425.832	47.315		
Total	10	511.157			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95.0%</i>	<i>Upper 95.0%</i>
Intercept	-1726.729	1312.349	-1.316	0.221	-4695.469	1242.011	-4695.469	1242.011
X Variable 1	0.881	0.656	1.343	0.212	-0.603	2.364	-0.603	2.364

Source: City of Maitland, 2007.

Prepared by: HRH Created by: WAT

**Table 35.** Lake Love Summary Output

<i>Regression Statistics</i>	
Multiple R	0.158
R Square	0.025
Adjusted R Square	-0.114
Standard Error	9.721
Observations	9

ANOVA					
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	16.999	16.999	0.180	0.684
Residual	7	661.422	94.489		
Total	8	678.421			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95.0%</i>	<i>Upper 95.0%</i>
Intercept	1026.459	2342.450	0.438	0.674	-4512.555	6565.473	-4512.555	6565.473
X Variable 1	-0.497	1.171	-0.424	0.684	-3.266	2.273	-3.266	2.273

Source: City of Maitland, 2007.

Prepared by: HRH Created by: WAT

**Table 35.** Lake Lovely Summary Output

<i>Regression Statistics</i>	
Multiple R	0.347
R Square	0.120
Adjusted R Square	0.010
Standard Error	4.965
Observations	10

ANOVA					
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	26.947	26.947	1.093	0.326
Residual	8	197.198	24.650		
Total	9	224.145			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95.0%</i>	<i>Upper 95.0%</i>
Intercept	1205.423	1092.406	1.103	0.302	-1313.669	3724.515	-1313.669	3724.515
X Variable 1	-0.572	0.547	-1.046	0.326	-1.832	0.689	-1.832	0.689

Source: City of Maitland, 2007.

Prepared by: HRH Created by: WAT

**Table 36.** Lake Lucien Summary Output

<i>Regression Statistics</i>	
Multiple R	0.139
R Square	0.019
Adjusted R Square	-0.070
Standard Error	9.939
Observations	13

<i>ANOVA</i>					
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	21.429	21.429	0.217	0.650
Residual	11	1086.629	98.784		
Total	12	1108.057			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95.0%</i>	<i>Upper 95.0%</i>
Intercept	-654.095	1473.463	-0.444	0.666	-3897.166	2588.975	-3897.166	2588.975
X Variable 1	0.343	0.737	0.466	0.650	-1.278	1.965	-1.278	1.965

Source: City of Maitland, 2007.

Prepared by: HRH Created by: WAT

**Table 37.** Lake Maitland Summary Output

<i>Regression Statistics</i>	
Multiple R	0.490
R Square	0.240
Adjusted R Square	0.171
Standard Error	4.902
Observations	13

<i>ANOVA</i>					
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	83.465	83.465	3.474	0.089
Residual	11	264.310	24.028		
Total	12	347.775			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95.0%</i>	<i>Upper 95.0%</i>
Intercept	1404.109	726.701	1.932	0.079	-195.349	3003.568	-195.349	3003.568
X Variable 1	-0.677	0.363	-1.864	0.089	-1.477	0.123	-1.477	0.123

Source: City of Maitland, 2007.

Prepared by: HRH Created by: WAT

**Table 38.** Lake Minnehaha Summary Output

<i>Regression Statistics</i>	
Multiple R	0.411
R Square	0.169
Adjusted R Square	0.094
Standard Error	5.796
Observations	13

ANOVA					
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	75.189	75.189	2.238	0.163
Residual	11	369.538	33.594		
Total	12	444.726			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95.0%</i>	<i>Upper 95.0%</i>
Intercept	1338.094	859.267	1.557	0.148	-553.141	3229.328	-553.141	3229.328
X Variable 1	-0.643	0.430	-1.496	0.163	-1.588	0.303	-1.588	0.303

Source: City of Maitland, 2007.

Prepared by: HRH Created by: WAT

**Table 39.** Lake Nina Summary Output

<i>Regression Statistics</i>	
Multiple R	0.438
R Square	0.192
Adjusted R Square	0.118
Standard Error	5.633
Observations	13

ANOVA					
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	82.775	82.775	2.609	0.135
Residual	11	349.025	31.730		
Total	12	431.801			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95.0%</i>	<i>Upper 95.0%</i>
Intercept	1400.715	835.078	1.677	0.122	-437.280	3238.710	-437.280	3238.710
X Variable 1	-0.674	0.418	-1.615	0.135	-1.593	0.245	-1.593	0.245

Source: City of Maitland, 2007.

Prepared by: HRH Created by: WAT

**Table 40.** Lake Park Summary Output

<i>Regression Statistics</i>	
Multiple R	0.063
R Square	0.004
Adjusted R Square	-0.087
Standard Error	5.465
Observations	13

<i>ANOVA</i>					
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	1.298	1.298	0.043	0.839
Residual	11	328.558	29.869		
Total	12	329.856			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95.0%</i>	<i>Upper 95.0%</i>
Intercept	220.970	810.223	0.273	0.790	-1562.319	2004.260	-1562.319	2004.260
X Variable 1	-0.084	0.405	-0.208	0.839	-0.976	0.807	-0.976	0.807

Source: City of Maitland, 2007.

Prepared by: HRH Created by: WAT

**Table 41.** Lake Shadow Summary Output

<i>Regression Statistics</i>	
Multiple R	0.314
R Square	0.099
Adjusted R Square	0.017
Standard Error	9.985
Observations	13

ANOVA					
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	119.913	119.913	1.203	0.296
Residual	11	1096.612	99.692		
Total	12	1216.525			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95.0%</i>	<i>Upper 95.0%</i>
Intercept	1673.474	1480.216	1.131	0.282	-1584.460	4931.409	-1584.460	4931.409
X Variable 1	-0.812	0.740	-1.097	0.296	-2.441	0.817	-2.441	0.817

Source: City of Maitland, 2007.

Prepared by: HRH Created by: WAT

**Table 42.** Lake Sibelia Summary Output

<i>Regression Statistics</i>	
Multiple R	0.038
R Square	0.001
Adjusted R Square	-0.089
Standard Error	6.483
Observations	13

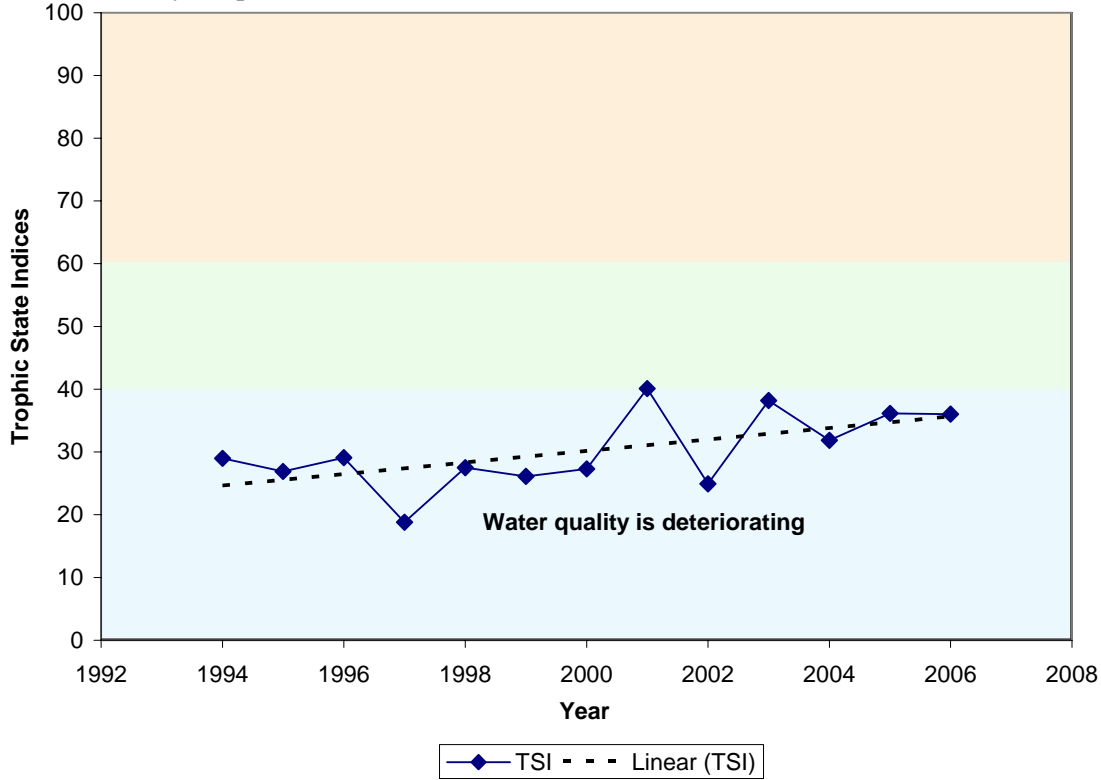
ANOVA					
	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Significance F</i>
Regression	1	0.666	0.666	0.016	0.902
Residual	11	462.303	42.028		
Total	12	462.969			

	<i>Coefficients</i>	<i>Standard Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>Lower 95.0%</i>	<i>Upper 95.0%</i>
Intercept	164.368	961.085	0.171	0.867	-1950.967	2279.703	-1950.967	2279.703
X Variable 1	-0.060	0.481	-0.126	0.902	-1.118	0.997	-1.118	0.997

Source: City of Maitland, 2007.

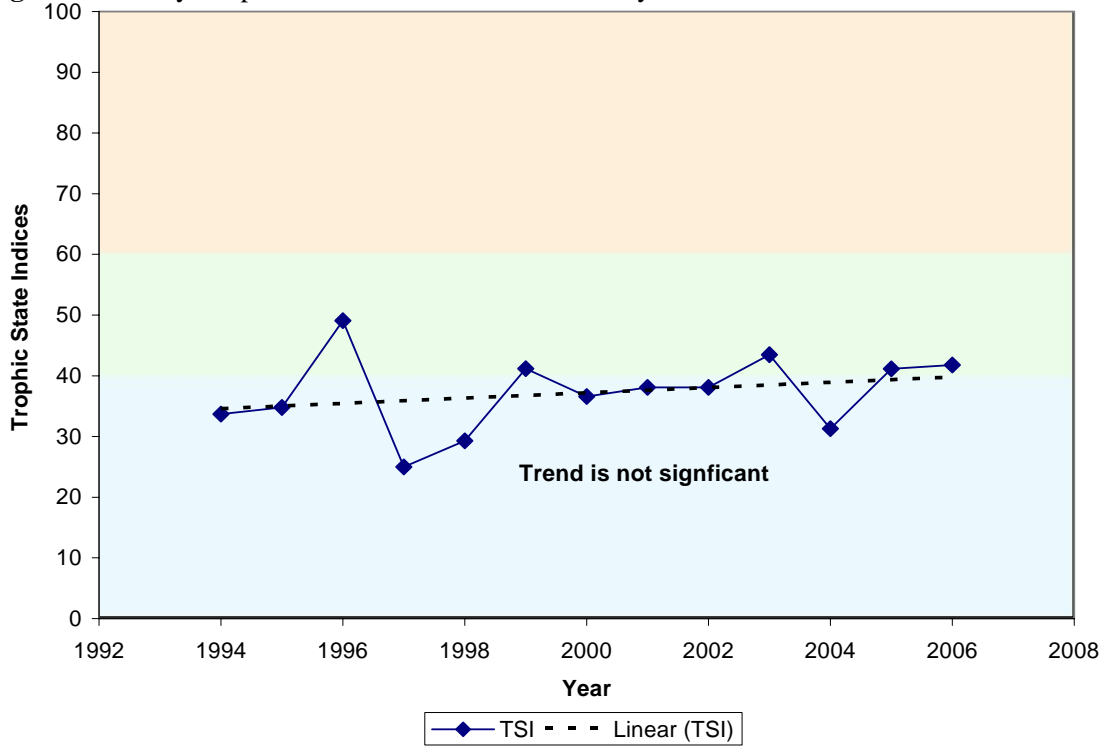
Prepared by: HRH Created by: WAT

**Figure 1.** Yearly Trophic State Indices for Lake Catherine.



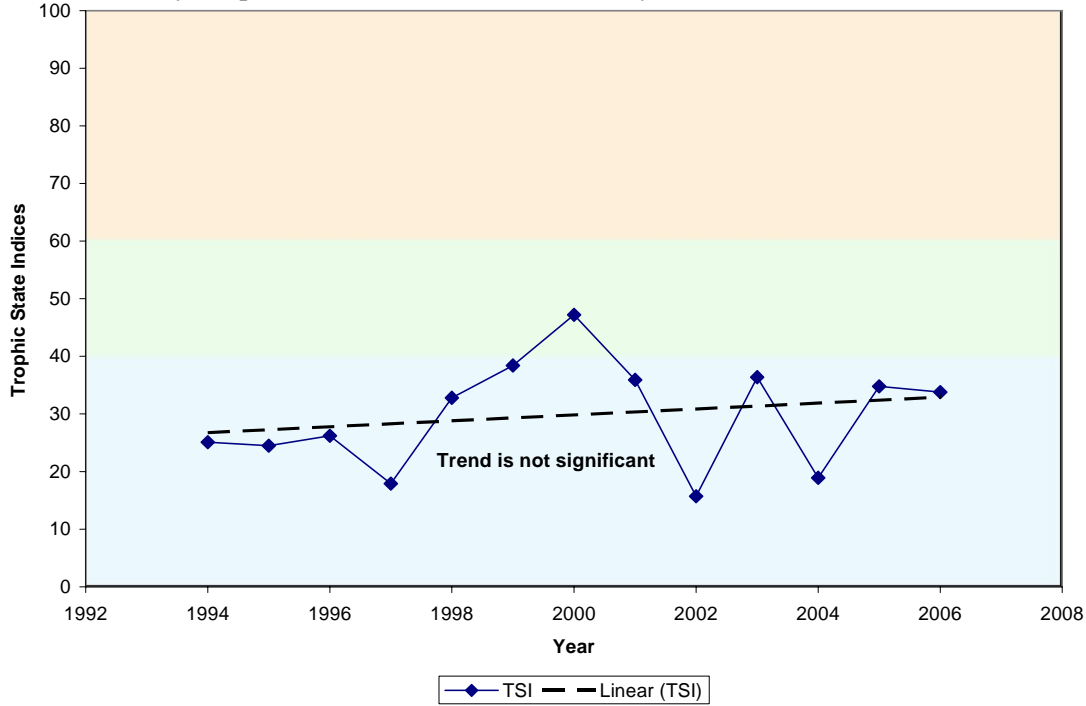
Source: MACTEC, 2007.  
Prepared by: HRH Created by: WAT

**Figure 2.** Yearly Trophic State Indices for Lake Charity.



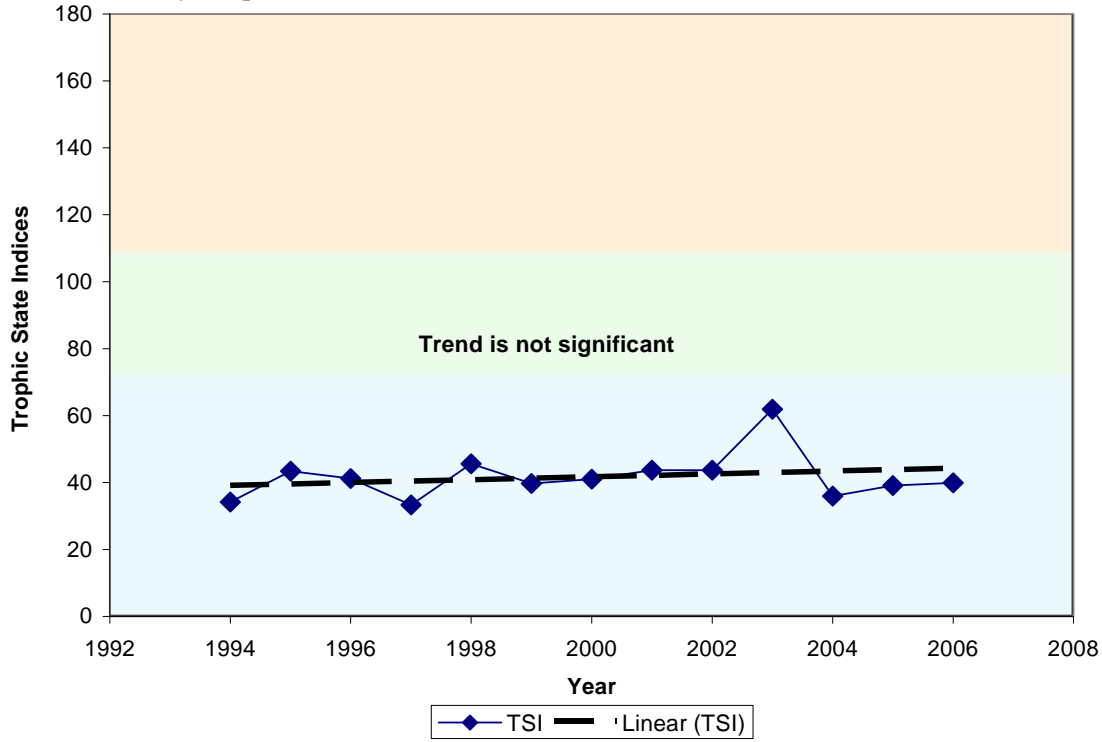
Source: MACTEC, 2007.  
Prepared by: HRH Created by: WAT

**Figure 3.** Yearly Trophic State Indices for Lake Destiny.



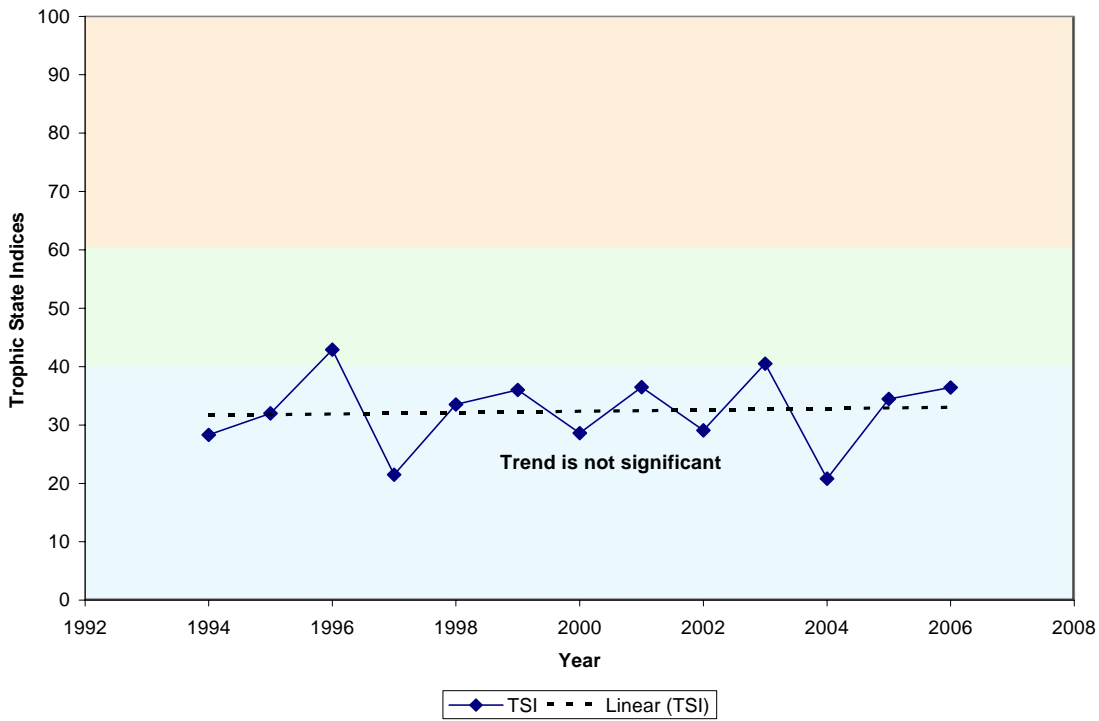
Source: MACTEC, 2007.  
Prepared by: HRH Created by: WAT

**Figure 4.** Yearly Trophic State Indices for Lake Eulalia.



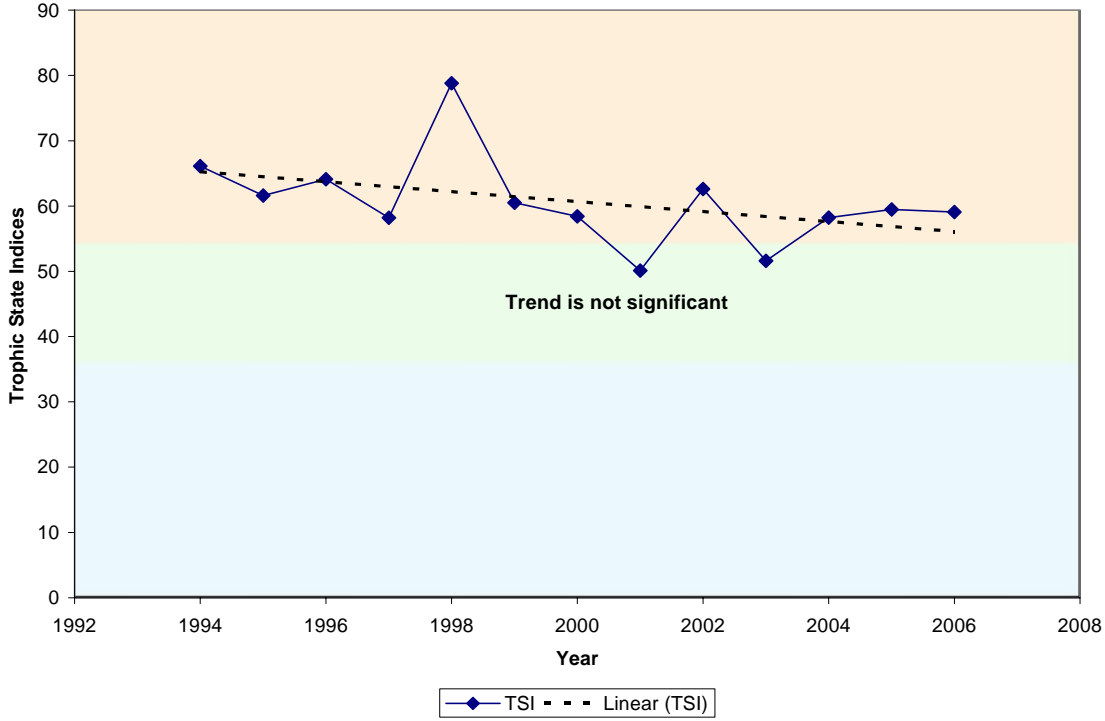
Source: MACTEC, 2007.  
Prepared by: HRH Created by: WAT

**Figure 5.** Yearly Trophic State Indices for Lake Faith.



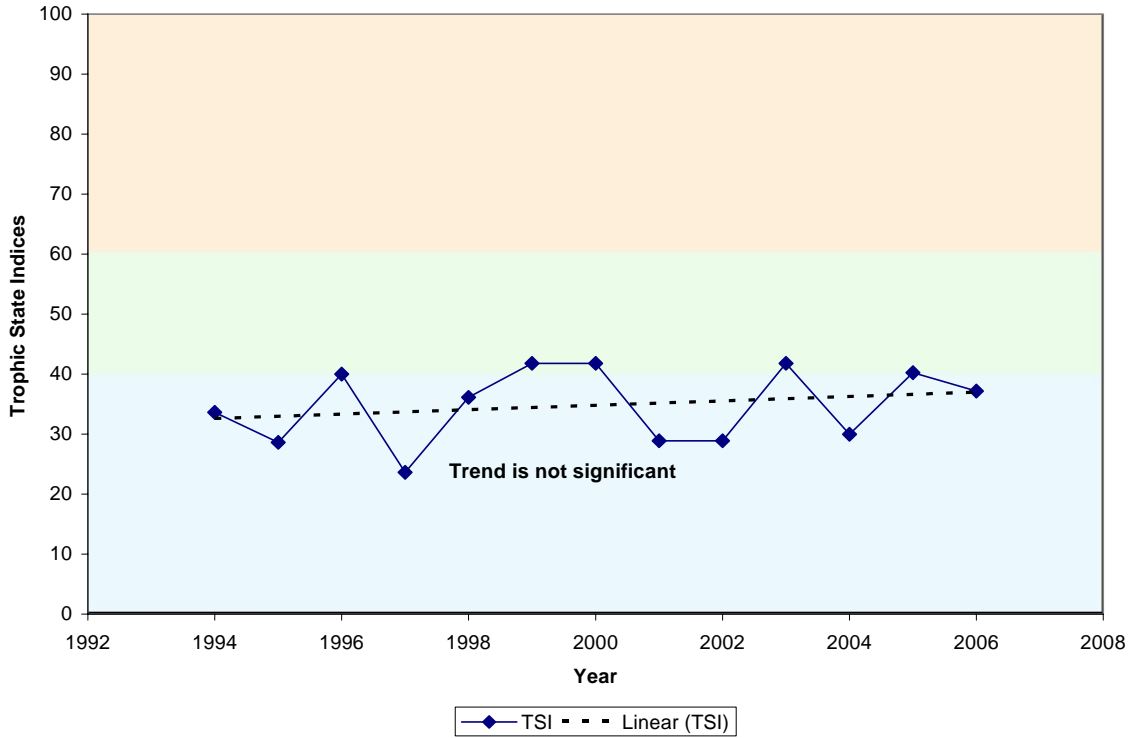
Source: MACTEC, 2007.  
Prepared by: HRH Created by: WAT

**Figure 6.** Yearly Trophic State Indices for Lake Gem.



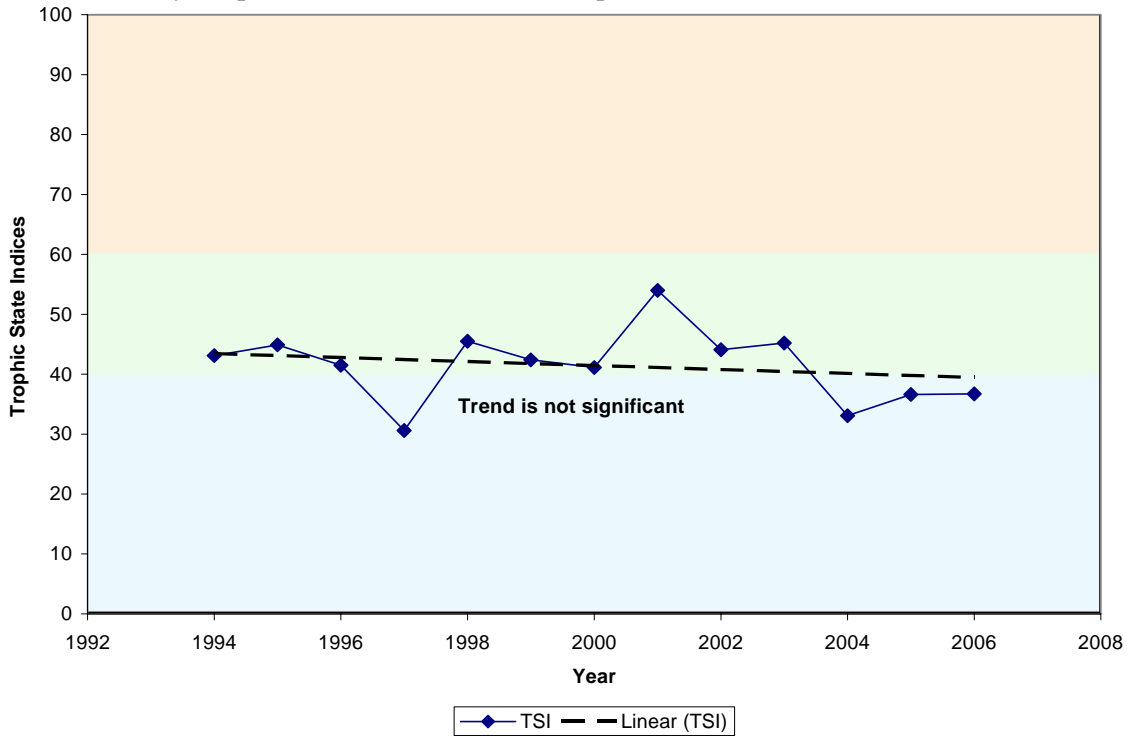
Source: MACTEC, 2007.  
Prepared by: HRH Created by: WAT

**Figure 7.** Yearly Trophic State Indices for Lake Harvest.



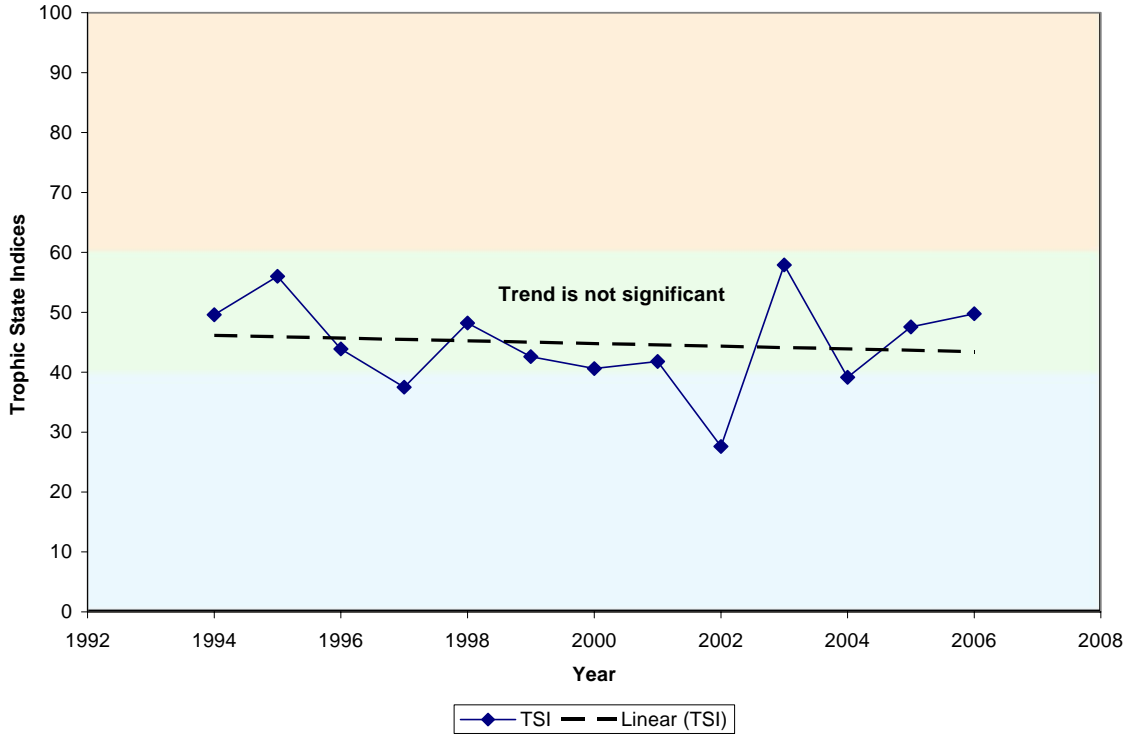
Source: MACTEC, 2007.  
Prepared by: HRH Created by: WAT

**Figure 8.** Yearly Trophic State Indices for Lake Hope.



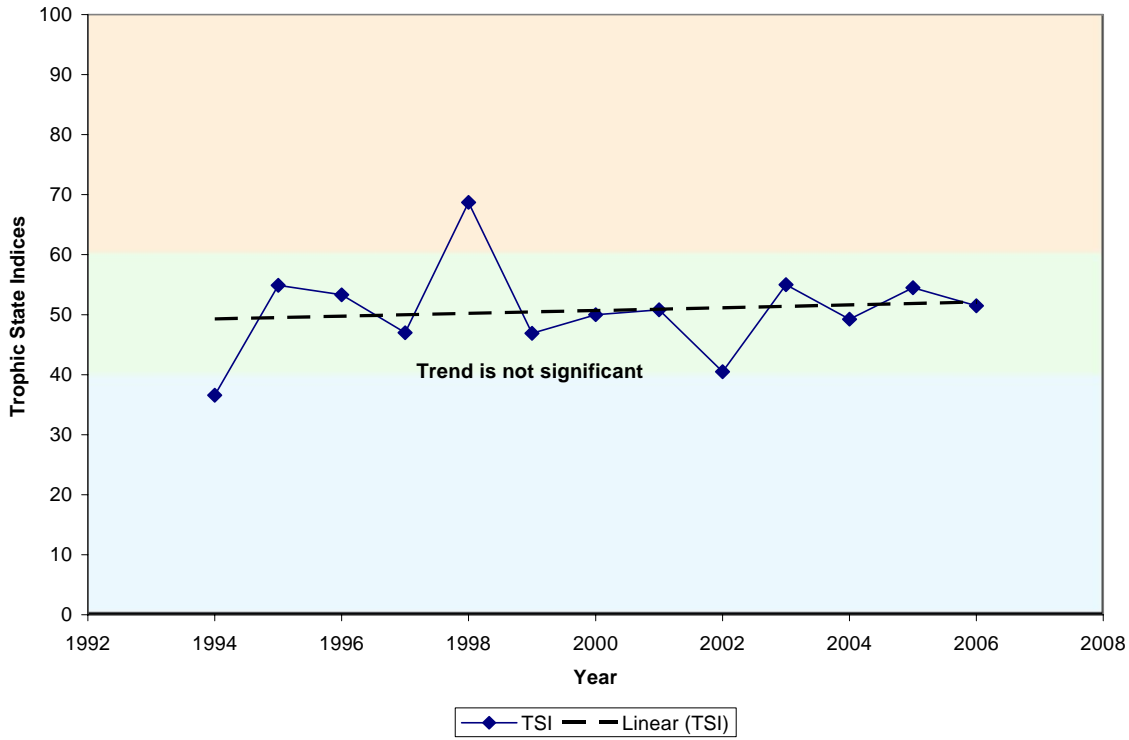
Source: MACTEC, 2007.  
Prepared by: HRH Created by: WAT

**Figure 9.** Yearly Trophic State Indices for Lake Hungerford.



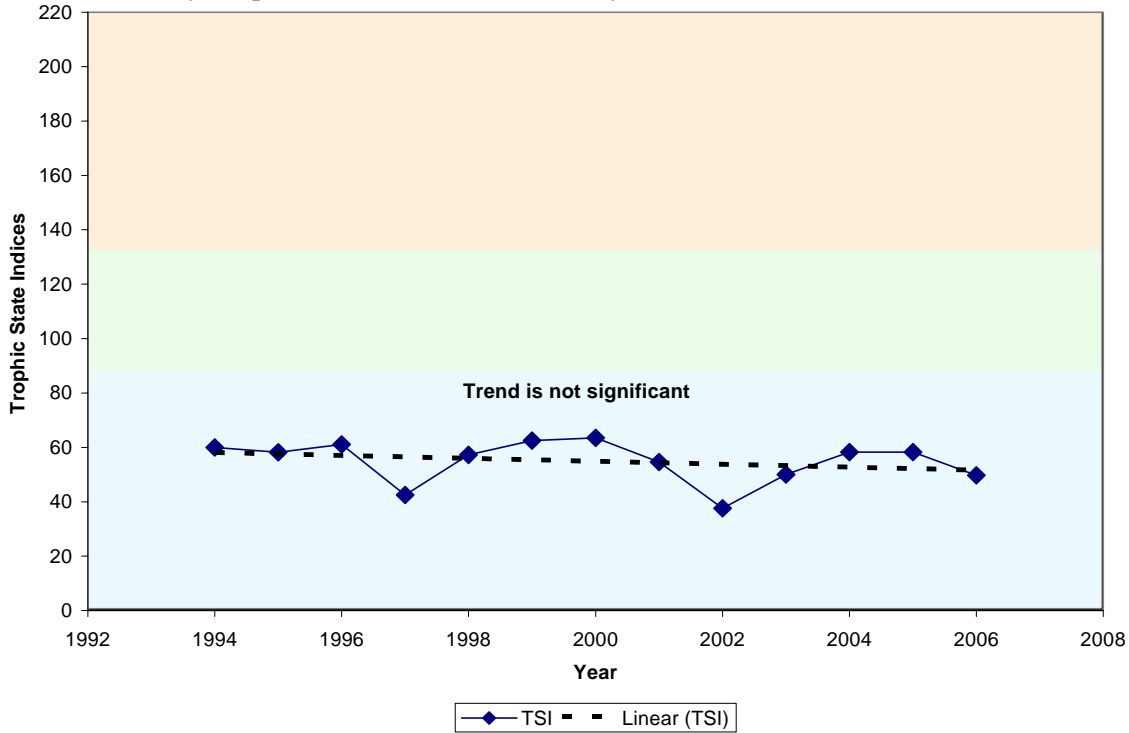
Source: MACTEC, 2007.  
Prepared by: HRH Created by: WAT

**Figure 10.** Yearly Trophic State Indices for Lake Jackson.



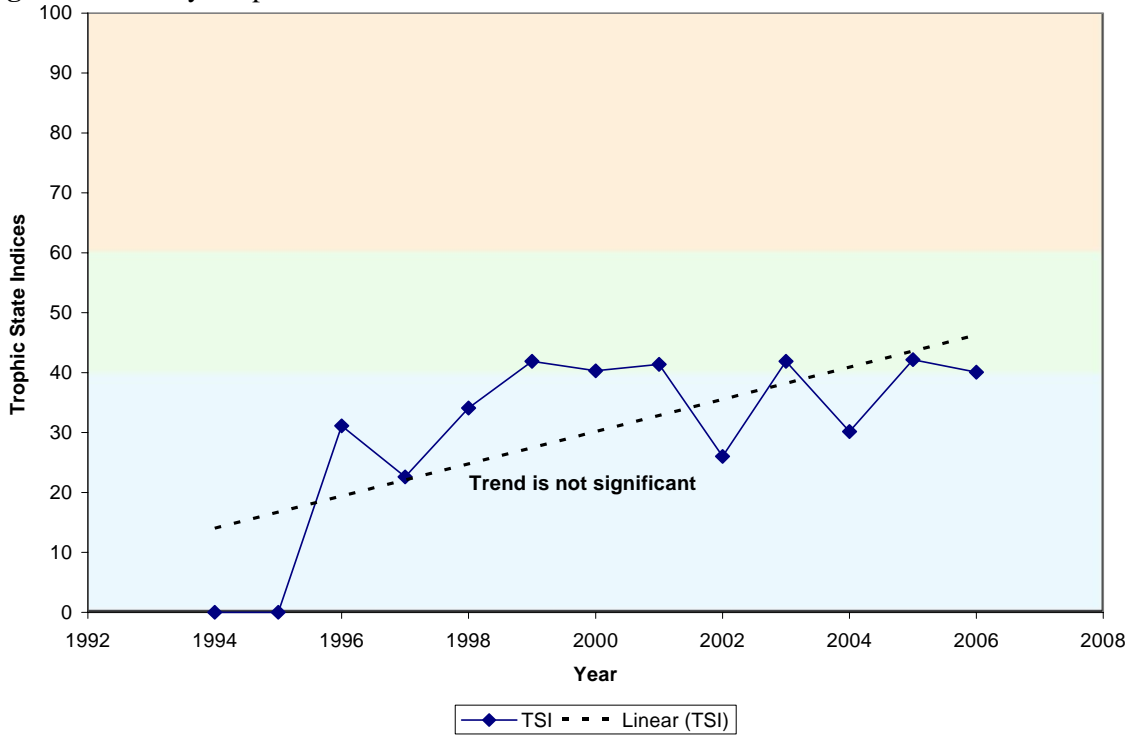
Source: MACTEC, 2007.  
Prepared by: HRH Created by: WAT

**Figure 11.** Yearly Trophic State Indices for Lake Lily.



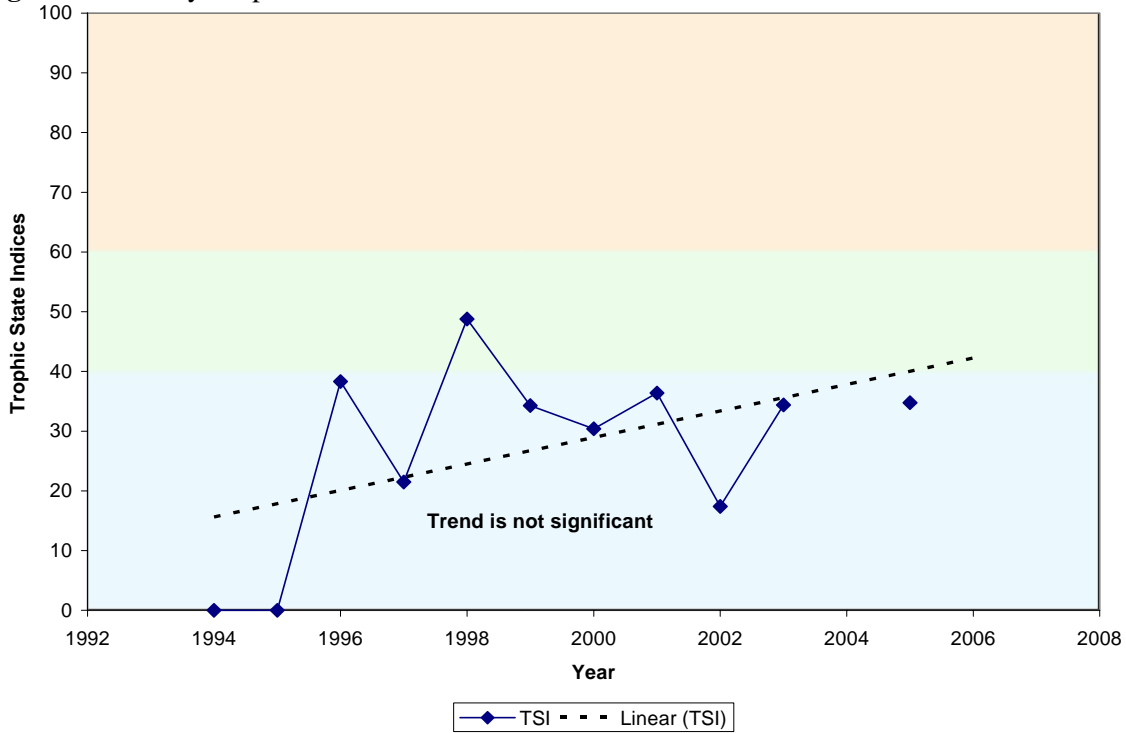
Source: MACTEC, 2007.  
Prepared by: HRH Created by: WAT

**Figure 12.** Yearly Trophic State Indices for Lake Lomond.



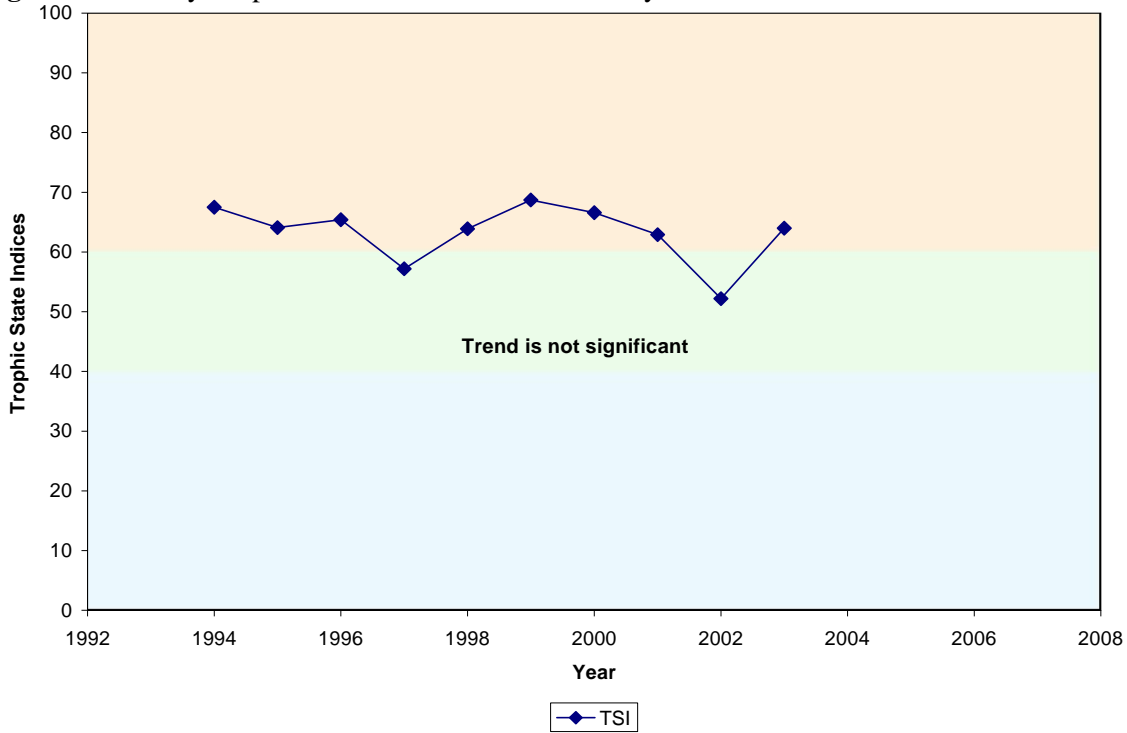
Source: MACTEC, 2007.  
Prepared by: HRH Created by: WAT

**Figure 13.** Yearly Trophic State Indices for Lake Love.



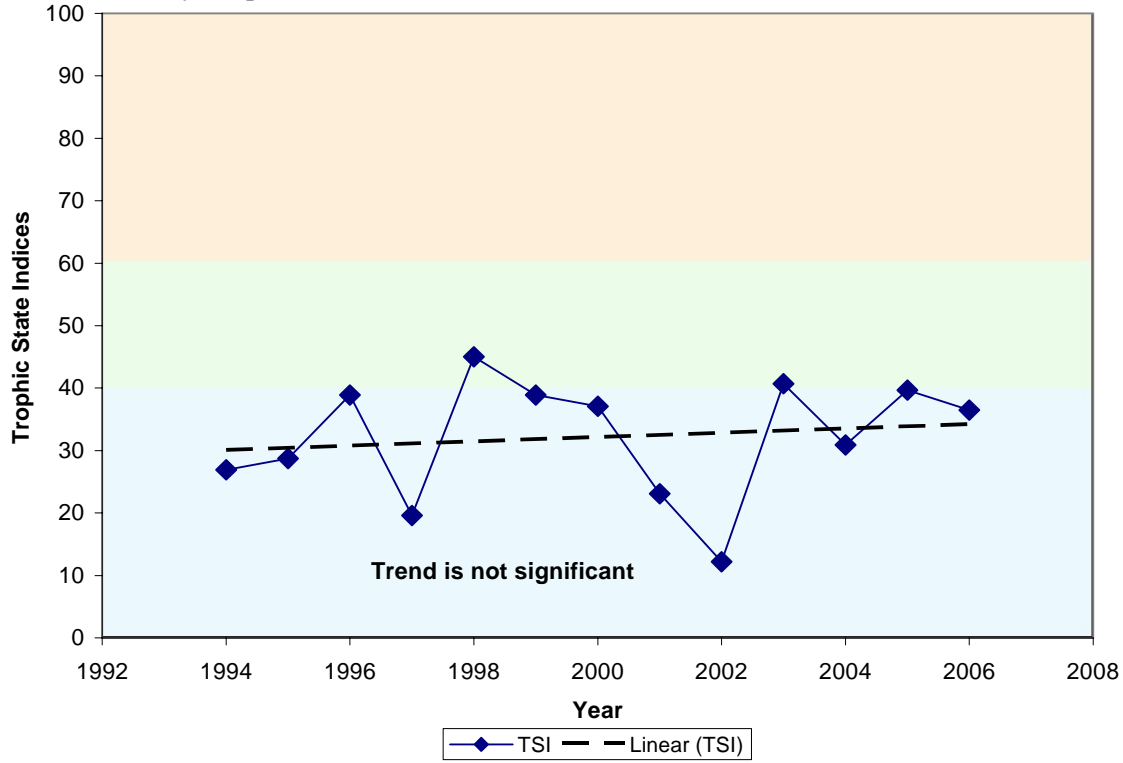
Source: MACTEC, 2007.  
Prepared by: HRH Created by: WAT

**Figure 14.** Yearly Trophic State Indices for Lake Lovely.



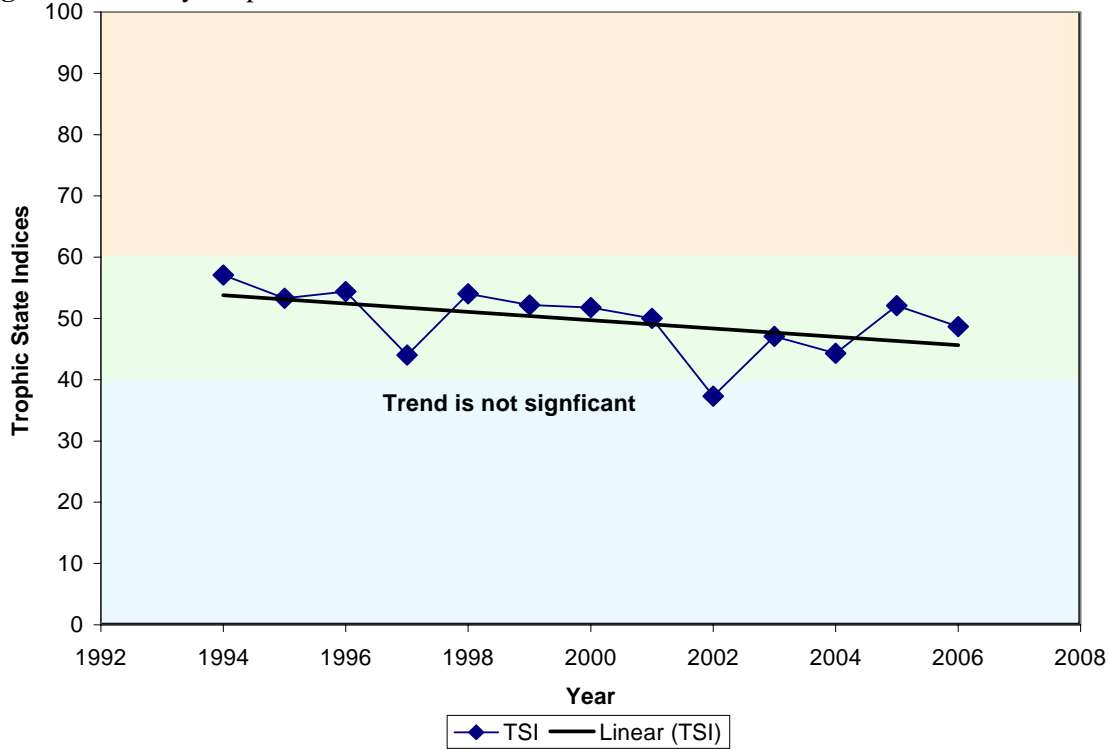
Source: MACTEC, 2007.  
Prepared by: HRH Created by: WAT

**Figure 15.** Yearly Trophic State Indices for Lake Lucien.



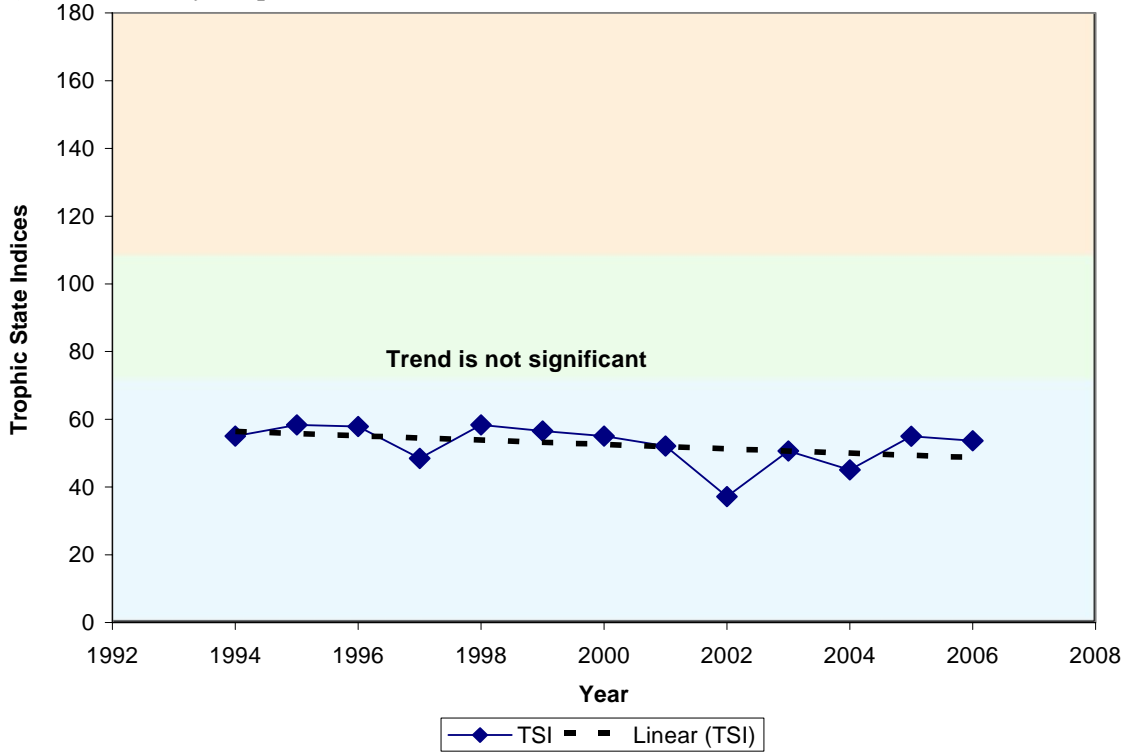
Source: MACTEC, 2007.  
Prepared by: HRH Created by: WAT

**Figure 16.** Yearly Trophic State Indices for Lake Maitland.



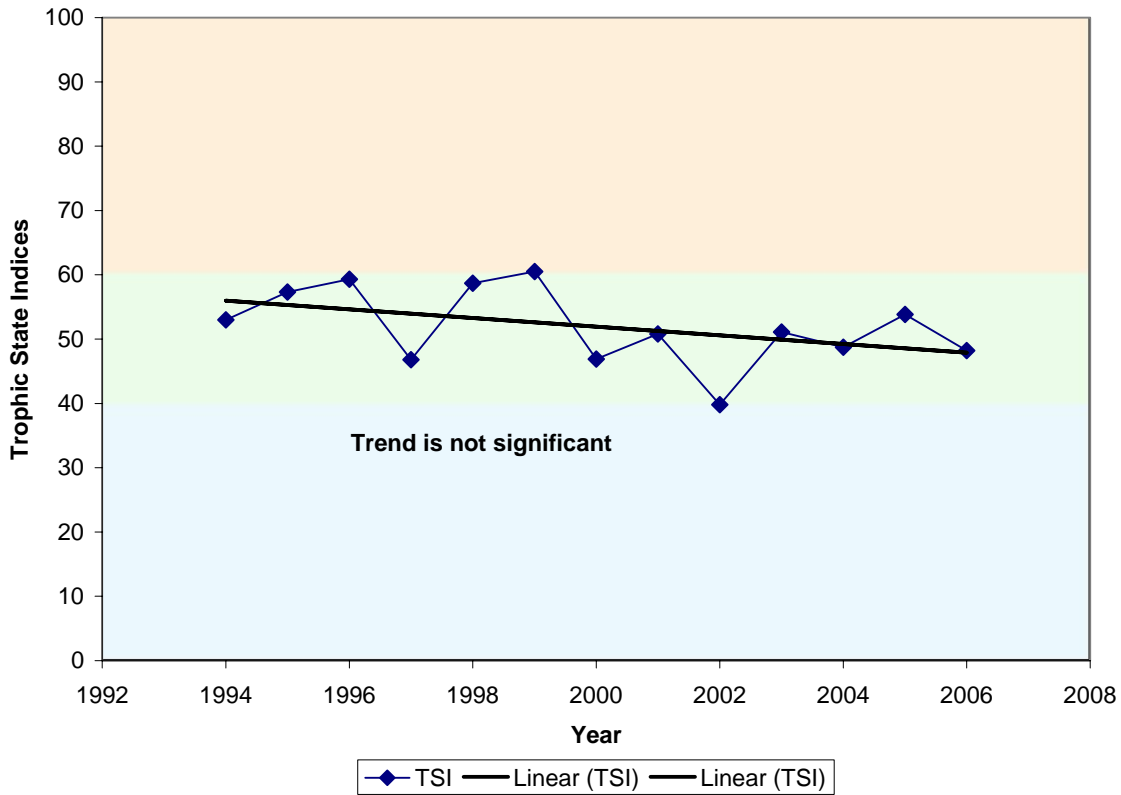
Source: MACTEC, 2007.  
Prepared by: HRH Created by: WAT

**Figure 17.** Yearly Trophic State Indices for Lake Minnehaha.



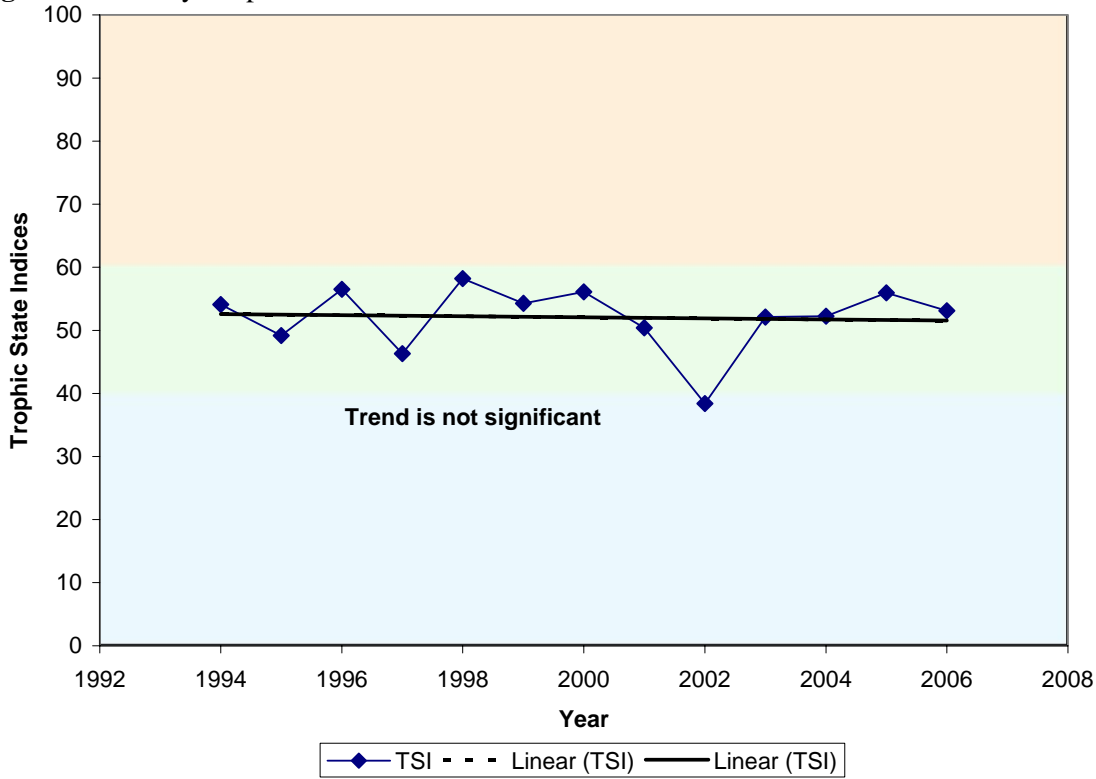
Source: MACTEC, 2007.  
Prepared by: HRH Created by: WAT

**Figure 18.** Yearly Trophic State Indices for Lake Nina.



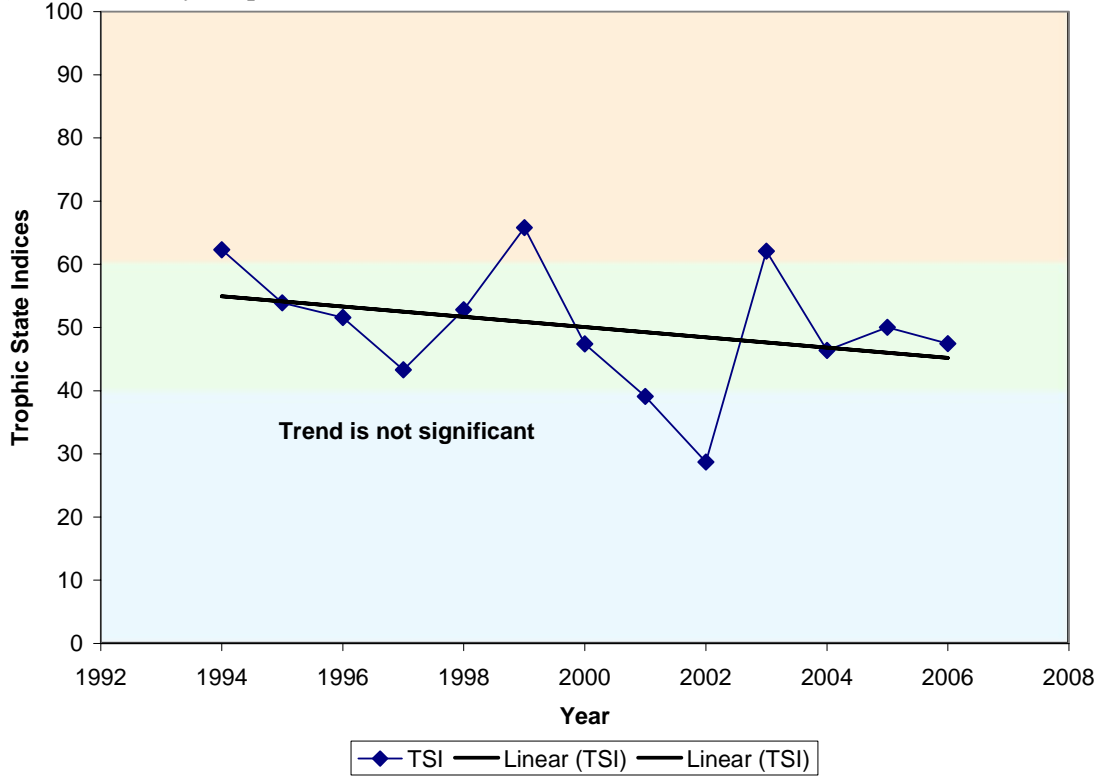
Source: MACTEC, 2007.  
Prepared by: HRH Created by: WAT

**Figure 19.** Yearly Trophic State Indices for Lake Park.



Source: MACTEC, 2007.  
Prepared by: HRH Created by: WAT

**Figure 20.** Yearly Trophic State Indices for Lake.



Source: MACTEC, 2007.  
Prepared by: HRH Created by: WAT