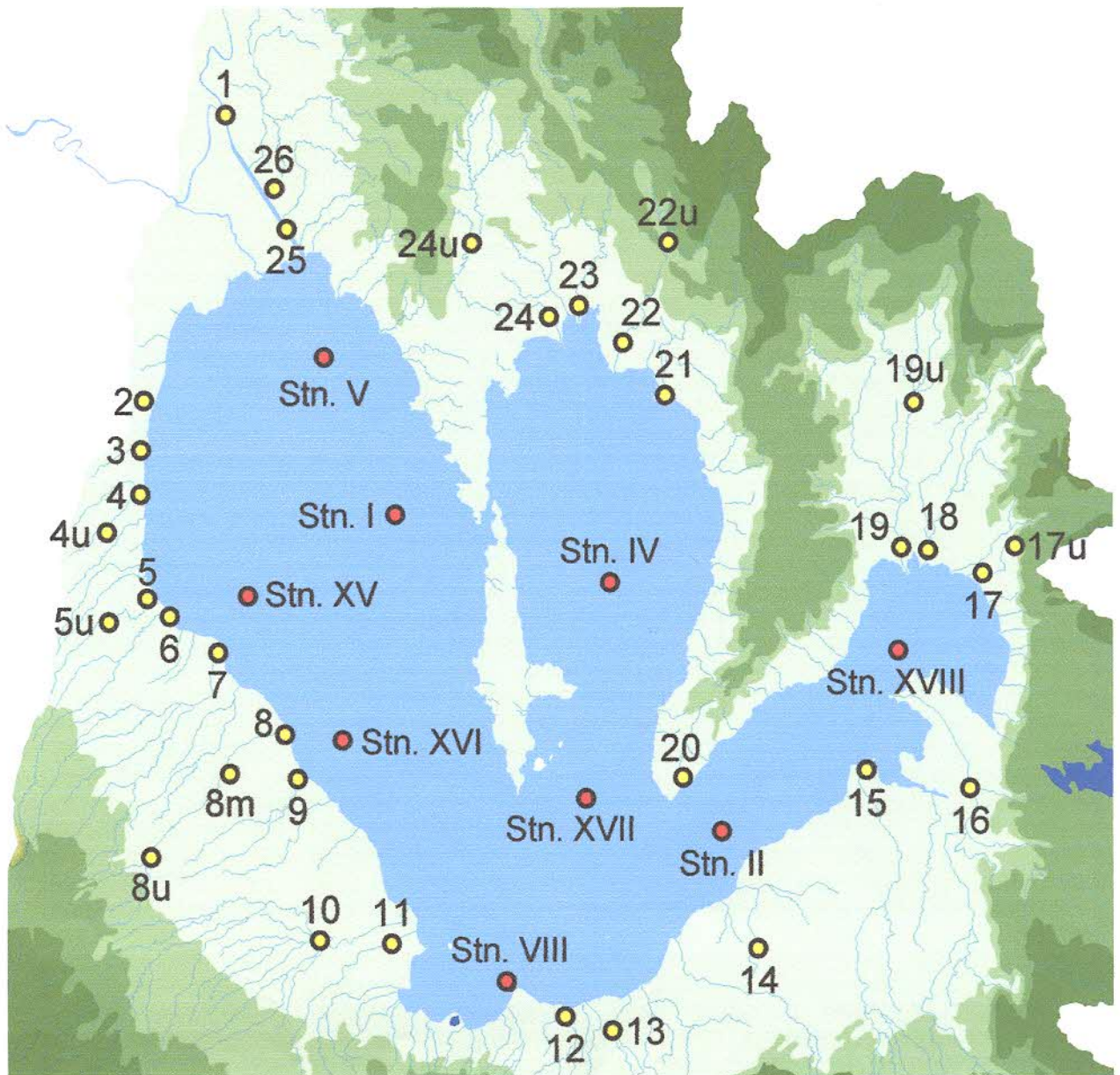


LLDA Quarterly Water Quality Monitoring Report Laguna Lake and Tributary Rivers October to December, 2014

I. Sampling Stations and Locations:



LLDA Quarterly Water Quality Report
Laguna Lake and Tributary Rivers
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A. Laguna Lake Stations

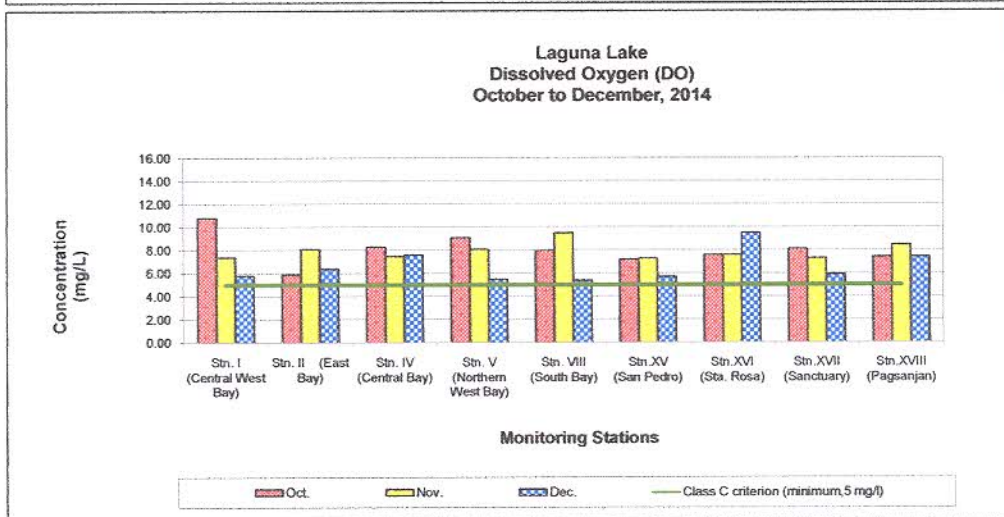
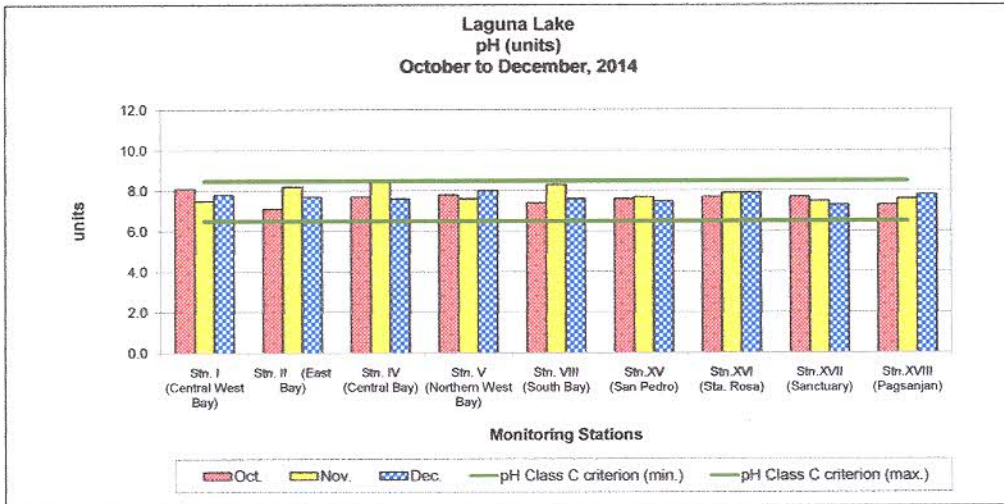
Location	Water Quality Parameters*					
	pH (units)			Dissolved Oxygen (mg/L)		
	Oct.	Nov.	Dec.	Oct.	Nov.	Dec.
Stn. I (Central West Bay)	8.1	7.5	7.8	10.80	7.40	5.80
Stn. II (East Bay)	7.1	8.2	7.7	5.90	8.10	6.40
Stn. IV (Central Bay)	7.7	8.5	7.6	8.30	7.50	7.60
Stn. V (Northern West Bay)	7.8	7.6	8.0	9.10	8.10	5.50
Stn. VIII (South Bay)	7.4	8.3	7.6	8.00	9.50	5.40
Stn. XV (San Pedro)	7.6	7.7	7.5	7.20	7.30	5.70
Stn. XVI (Sta. Rosa)	7.7	7.9	7.9	7.60	7.60	9.50
Stn. XVII (Sanctuary)	7.7	7.5	7.3	8.10	7.30	5.90
Stn. XVIII (Pagsanjan)	7.3	7.6	7.8	7.40	8.45	7.40

B. Tributary River Stations

Station	Location	Water Quality Parameters*					
		pH (units)			Dissolved Oxygen (mg/L)		
		Oct.	Nov.	Dec.	Oct.	Nov.	Dec.
1	Marikina	7.1	7.4	7.2	3.60	4.70	2.00
2	Bagumbayan (Taguig)	6.9	6.7	7.1	0.05	0.05	0.05
3	Buli Creek (Taguig)	6.9	7.0	6.5	0.90	0.05	0.05
4	Mangagate (Muntinlupa)-Downstream	6.8	-	7.3	1.80	-	0.05
4U	Mangagate (Muntinlupa)-Upstream	7.0	6.9	7.5	5.70	2.90	5.00
5	Tunasan (Muntinlupa)- Downstream	6.7	-	6.9	0.05	-	0.05
5U	Tunasan (Muntinlupa)- Upstream	6.8	7.2	7.5	5.00	1.70	4.90
6	San Pedro River (T2)	7.0	7.4	7.7	1.90	0.05	5.90
7	Biñan	6.9	7.4	7.6	2.20	0.05	6.00
8	Sta. Rosa- Downstream	6.9	7.1	7.7	1.40	0.05	7.70
8M	Sta. Rosa- Midstream	7.1	6.9	7.7	3.00	3.80	5.50
8U	Sta. Rosa- Upstream	7.1	7.2	7.7	6.60	5.90	7.80
9	Cabuyao	7.1	7.0	7.5	1.00	2.10	4.60
10	San Cristobal River (T3)	6.9	7.2	7.4	2.30	0.90	3.40
11	San Juan River (T5)	6.8	7.9	7.6	5.80	5.20	7.00
12	Los Baños	7.0	7.2	7.4	2.50	1.90	6.70
13	Bay River (T9)	7.4	7.3	7.6	5.80	5.90	6.50
14	Pila	6.7	7.2	7.4	3.20	5.10	5.10
15	Sta. Cruz River (T6)	6.3	7.2	7.6	7.70	4.10	8.00
16	Pagsanjan River (T8)	6.4	7.1	7.6	6.70	6.50	8.40
17	Pangil- Downstream	7.5	7.4	7.7	7.20	8.40	8.10
17U	Pangil- Upstream	7.3	7.2	7.6	7.50	8.40	8.10
18	Siniloan	6.9	7.1	7.4	2.80	5.30	6.00
19	Sta. Maria- Downstream	7.2	6.8	7.3	7.30	7.00	8.50
19U	Sta. Maria- Upstream	7.9	7.1	7.8	8.70	3.50	8.50
20	Jala-jala	7.0	6.8	7.3	6.20	3.00	5.80
21	Pililla	7.2	6.8	7.3	5.10	0.90	5.00
22	Tanay- Downstream	8.0	7.5	8.6	7.50	5.70	4.10
22U	Tanay- Upstream	6.8	6.5	9.2	8.00	8.70	18.30
23	Baras	7.0	6.9	8.6	7.20	7.00	5.30
24	Morong- Downstream	7.0	8.7	8.6	7.00	10.40	1.20
24U	Morong- Upstream	6.8	7.7	9.3	6.10	6.90	7.10
25	Manggahan Floodway (Taytay)	7.0	6.6	9.6	1.90	3.10	4.20
26	Sapang Baho (Cainta)	7.0	6.9	13.2	2.70	2.40	4.20
27	Angono	-	-	9.9	-	-	5.20

III Graphs

A. Laguna Lake



FINDINGS:

During the 4th quarter of 2014, only pH and dissolved oxygen were monitored in Laguna de Bay and its tributary rivers because the laboratory was under construction.

A. On pH :

Laguna Lake:

- For the 4th quarter, the pH levels in all of the 9 lake stations which ranged from 7.1 to 8.5 conformed with the DENR Class C criterion set at 6.5 to 8.5.

Tributary Rivers:

- Out of the 35 tributary river stations monitored in October to December 2014, only 25 stations constantly passed the 6.5 to 8.5 DENR Class C criteria for pH and these were Stns. 1 to 14, 17 to 21.
- The pH of tributary rivers ranged from 6.3 to 13.2.
- The river stations which failed the pH criteria were Stns. 15 and 16 in October, Stn.24 in November and Stns. 22 to 27 in December.

B. On Dissolved Oxygen (D.O.):

Laguna Lake:

- All of the nine (9) lake stations passed the DENR Class C criterion set at a minimum concentration of 5 mg/L.
- The lowest D.O. concentration at 5.4 mg/L was noted in Stn. VIII in December while the highest DO concentration at 10.8 mg/L was recorded in Stn.I in October.

Tributary Rivers:

- Out of the 35 tributary river stations monitored, during the last quarter of 2014, only 11 stations consistently conformed with the Class C criterion for DO and these were Stns. 8U, 11, 13, 16, 17, 17u, 19, 22U, 23, 24U and 27.
- Measured DO concentrations ranged from 0.05 to 18.3 mg/L.
- The monthly DO concentrations in 8 tributary river stations, namely; Stns. 1, 2, 3, 4, 9, 10, 25 and 26 always failed the Class C criterion
- The 15 river stations with computed DO concentrations that sometimes either complying or way below the minimum level of 5.0 mg/L for Class C and these were Stns. 4U, 5U, 6, 7, 8, 8M, 12, 14, 15, 18, 19U, 20, 21, 22 and 24.