



**Governing Board
Meeting
November 16, 2022
CALAPAN RIVER**

**WATER QUALITY
MANAGEMENT AREA**

PROVISIONAL AGENDA

1. Review and approval of the previous minutes

2. Updates on the Issues and Concerns Arising During the Previous Meeting

3. Presentation on the Results of Task Force Calapan River last 2019 regarding on Easement and Land Tenure

4. Revisit of Calapan River WQMA Ten-Year Action Plan

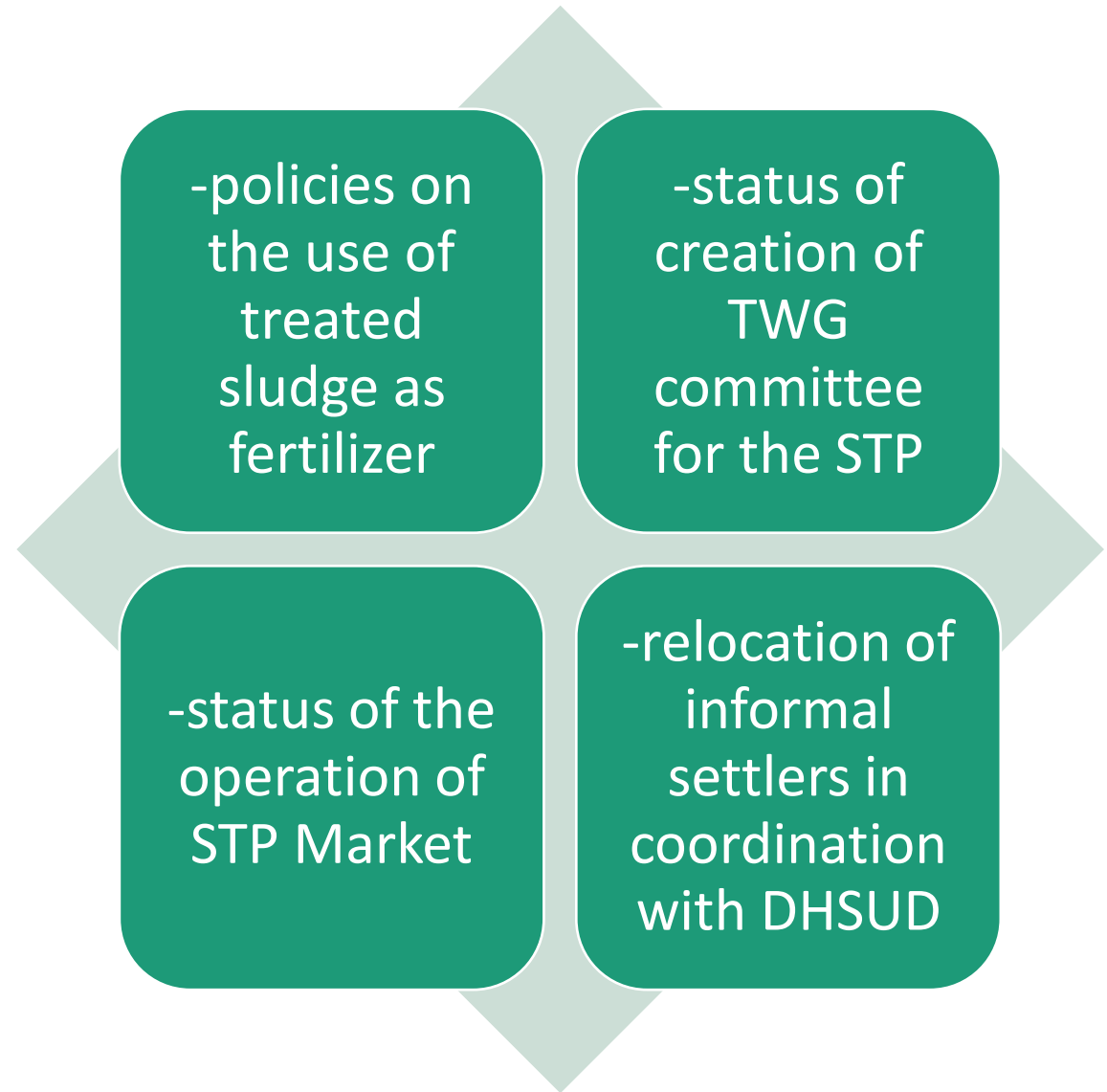
5. Updates on the Water Quality of Calapan River and Other Waterbodies within CRWQMA

6. Other Matters

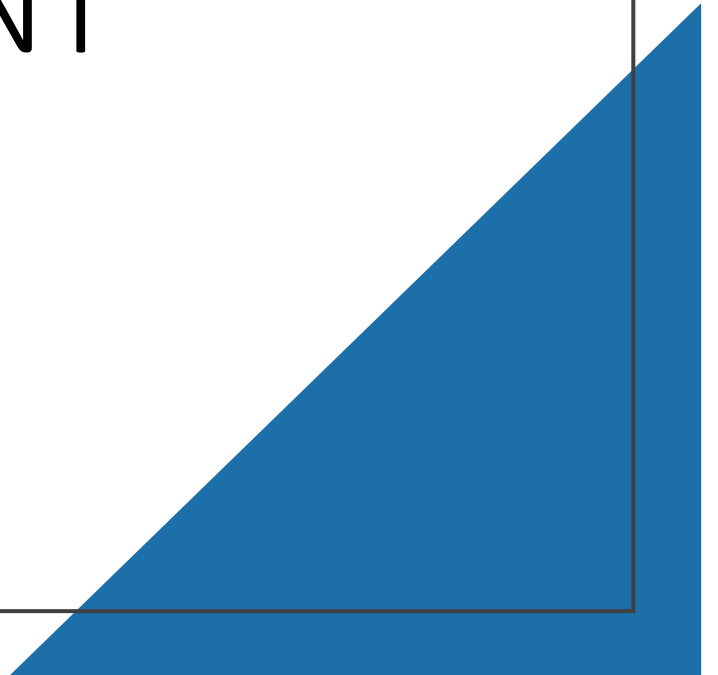


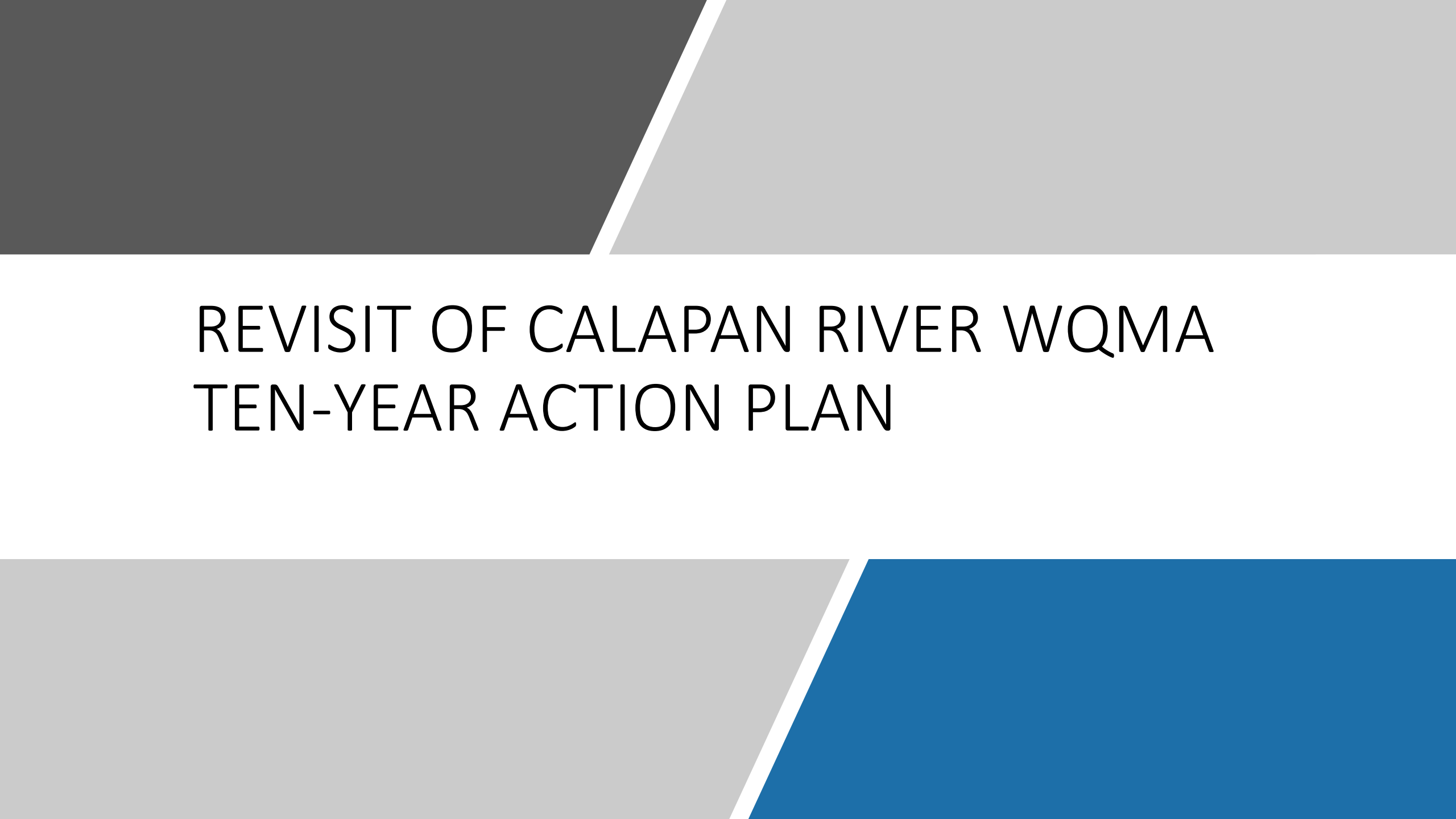
MINUTES FROM THE PREVIOUS MEETING

ISSUES AND CONCERNS ARISING DURING THE PREVIOUS MEETING



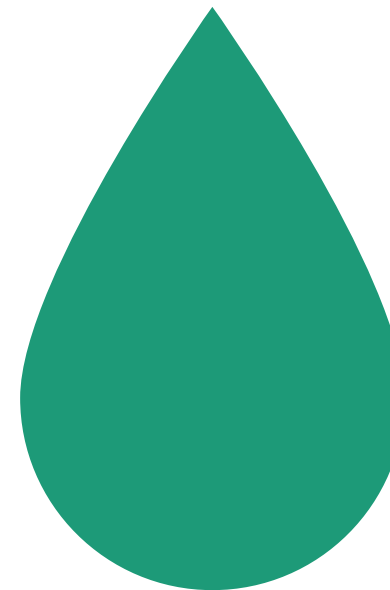
RESULTS OF TASK FORCE CALAPAN RIVER LAST 2019 REGARDING ON EASEMENT AND LAND TENURE





REVISIT OF CALAPAN RIVER WQMA TEN-YEAR ACTION PLAN

WATER QUALITY STATUS



CALAPAN RIVER BOD

Station Identification	January 19	February 08	March 16	April 20	June 01	June 15	June 29	July 20	August 03	October 12	Average	WQG
Sta. Isabel	no data	11	13	13	7	8	4	no data	7	7	8.75	7
Lalud	no data	8	12	6	9	8	6	no data	4	5	7.25	7
Camilmil	no data	10	9	5	5	6	6	no data	4	5	6.25	7
San Vicente East	no data	9	9	Saline	6	Saline	8	no data	4	<5	6.82	7
San Vicente North	no data	10	8	Saline	9	Saline	<4	no data	4	<5	6.63	7
Market Bridge	no data	11	7	Saline	14	Saline	5	no data	5	<5	7.82	7
River Delta	no data	11	Saline	Saline	Saline	Saline	Saline	no data	<4	<5	6.60	7
Overall Average											7.16	7

CALAPAN RIVER CHLORIDES

Station Identification	January 19	Average	WQG
Sta. Isabel	18.5	18.50	350
Lalud	108.51	108.51	350
Camilmil	443.91	443.91	350
San Vicente East	1,948.26	1,948.26	350
San Vicente North	5,400.89	5,400.89	350
Market Bridge	7,571.10	7,571.10	350
River Delta	6,535.32	6,535.32	350
Overall Average		3,146.64	350

CALAPAN RIVER SALINITY

Station Identification	January 19	February 08	March 16	April 20	June 01	June 15	June 29	July 20	August 03	October 12	Average
Sta. Isabel	no data	no data	0.13	0.26	no data	no data	no data	no data	no data	no data	0.20
Lalud	no data	0.14	0.15	0.26	no data	no data	no data	no data	no data	no data	0.18
Camilmil	no data	0.2	0.21	0.8	no data	no data	no data	no data	no data	no data	0.40
San Vicente East	no data	0.37	0.46	13.51	no data	no data	no data	no data	no data	no data	4.78
San Vicente North	no data	0.49	0.52	13.24	no data	no data	no data	no data	no data	no data	4.75
Market Bridge	no data	0.73	0.55	9.5	no data	no data	no data	no data	no data	no data	3.59
River Delta	no data	2.61	29.88	30.4	no data	no data	no data	no data	no data	no data	20.96
Overall Average											4.98

CALAPAN RIVER COLOR

Station Identification	January 19	February 08	March 16	April 20	June 01	June 15	June 29	July 20	August 03	October 12	Average	WQG
Sta. Isabel	30	25	25	30	30	30	30	40	40	30	31.00	75
Lalud	25	20	25	30	40	40	40	30	40	40	33.00	75
Camilmil	30	15	40	30	30	50	40	30	40	50	35.50	75
San Vicente East	25	15	40	20	25	10	30	30	40	40	27.50	75
San Vicente North	25	15	40	20	25	10	40	20	40	40	27.50	75
Market Bridge	25	15	40	20	25	20	40	20	40	40	28.50	75
River Delta	20	15	40	5	5	5	5	10	25	40	17.00	75
Overall Average											28.57	75

CALAPAN RIVER DISSOLVED OXYGEN

Station Identification	January 19	February 08	March 16	April 20	June 01	June 15	June 29	July 20	August 03	October 12	Average	WQG
Sta. Isabel	1.2	2.7	1.84	1.05	3.5	1.05	0.55	1.6	0.15	0.2	1.38	5
Lalud	1	no data	2.67	2.15	2.05	2.75	1.2	4.35	2.1	0.92	2.13	5
Camilmil	1.4	no data	2.91	2.8	1.75	1.65	1.15	3.15	1.85	0.8	1.94	5
San Vicente East	2.2	no data	2.96	3.66	2.7	5.15	1.25	3.3	1.65	0.36	2.58	5
San Vicente North	1.5	no data	3.25	5	1.5	4	1.3	3.6	1.3	1.06	2.50	5
Market Bridge	1.7	no data	3.05	6.41	1.75	4.15	2.65	3.25	3.6	0.39	2.99	5
River Delta	1.3	no data	5.54	6.45	6.05	6.55	6	3.35	4	0.33	4.40	5
Overall Average											2.56	5

CALAPAN RIVER FECAL COLIFORM

Station Identification	January 19	February 08	March 16	April 20	June 01	June 15	June 29	July 20	August 03	October 12	Geomean	WQG
Sta. Isabel	1,600,000	350,000	3,300	240,000	49,000	130,000	110,000	240,000	49,000	35,000	102,492	200
Lalud	1,600,000	17,000	35,000	4,900	17,000	33,000	2,300	79,000	7,800	2,100	19,460	200
Camilmil	1,600,000	49,000	2,300	35,000	240,000	49,000	4,500	240,000	2,000	11,000	33,469	200
San Vicente East	1,600,000	79,000	13,000	54,000	240,000	130,000	49,000	240,000	49,000	79,000	102,340	200
San Vicente North	1,600,000	49,000	4,900	22,000	240,000	240,000	280,000	240,000	49,000	49,000	97,614	200
Market Bridge	23,000	130,000	4,900	54,000	240,000	130,000	540,000	240,000	33,000	17,000	66,896	200
River Delta	84,000	240,000	4,600	24,000	13,000	230	3,300	1,100	7,900	24,000	9,249	200
Overall Average											45,641.51	200

CALAPAN RIVER NITRATES

Station Identification	January 19	February 08	March 16	April 20	June 01	June 15	June 29	July 20	August 03	October 12	Average	WQG
Sta. Isabel	no data	<1	<1	<1	0.51	<1	<1	no data	<1	<1	0.85	7
Lalud	no data	<1	<1	<1	0.47	<1	<1	no data	<1	<1	0.85	7
Camilmil	no data	<1	<1	<1	0.46	<1	<1	no data	<1	<1	0.85	7
San Vicente East	no data	<1	<1	Saline	2.42	Saline	<1	no data	<1	<1	1.15	7
San Vicente North	no data	<1	<1	Saline	2.93	Saline	<1	no data	<1	<1	1.24	7
Market Bridge	no data	<1	<1	Saline	2.27	Saline	<1	no data	<1	<1	1.13	7
River Delta	no data	Saline	Saline	Saline	Saline	Saline	Saline	no data	19.75	4.03	11.89	7
Overall Average											2.56	7

CALAPAN RIVER PH VALUES

Station Identification	January 19	February 08	March 16	April 20	June 01	June 15	June 29	July 20	August 03	October 12	Average	WQG
Sta. Isabel	7	7.34	7.13	7.49	7.76	7.54	7.6	7.57	7.26	7.26	7.40	6.5-9.0
Lalud	7	7.38	7.24	7.52	7.68	7.56	7.38	7.36	7.27	7.27	7.37	6.5-9.0
Camilmil	8	7.28	7.23	7.53	7.9	7.36	7.46	7.28	7.15	7.15	7.43	6.5-9.0
San Vicente East	8	7.36	7.27	7.5	7.34	7.84	7.3	7.41	7.25	7.25	7.45	6.5-9.0
San Vicente North	8	7.32	7.35	7.54	7.42	7.66	7.52	7.36	7.28	7.28	7.47	6.5-9.0
Market Bridge	8	7.3	7.66	7.5	7.32	7.7	7.48	7.34	7.24	7.24	7.48	6.5-9.0
River Delta	8	7.18	8.29	8.24	7.88	8.06	8.12	7.42	7.27	7.27	7.77	6.5-9.0
Overall Average											7.48	6.5-9.0

CALAPAN RIVER PHOSPHATES

Station Identification	January 19	February 08	March 16	April 20	June 01	June 15	June 29	July 20	August 03	October 12	Average	WQG
Sta. Isabel	no data	no data	no data	0.94	0.51	0.84	0.49	0.97	0.92	0.92	0.80	0.025
Lalud	no data	no data	no data	0.34	0.37	0.34	0.27	0.32	0.29	0.53	0.35	0.025
Camilmil	no data	no data	no data	0.55	0.36	0.39	0.24	0.34	0.24	0.55	0.38	0.025
San Vicente East	no data	no data	no data	0.4	0.45	0.1	0.33	0.39	0.26	0.59	0.36	0.025
San Vicente North	no data	no data	no data	0.34	0.4	0.19	0.29	0.37	0.33	0.56	0.35	0.025
Market Bridge	no data	no data	no data	0.42	0.34	0.22	0.27	0.36	0.27	0.57	0.35	0.025
River Delta	no data	no data	no data	<0.02	0.06	<0.02	0.07	0.19	0.21	0.52	0.16	0.025
Overall Average											0.39	0.025

CALAPAN RIVER TEMPERATURE

Station Identification	January 19	February 08	March 16	April 20	June 01	June 15	June 29	July 20	August 03	October 12	Average	WQG
Sta. Isabel	no data	no data	26.83	26.56	no data	no data	no data	no data	no data	no data	26.70	25-31
Lalud	no data	26.76	27.69	28.38	no data	no data	no data	no data	no data	no data	27.61	25-31
Camilmil	no data	26.87	27.76	28.39	no data	no data	no data	no data	no data	no data	27.67	25-31
San Vicente East	no data	26.87	27.72	29.67	no data	no data	no data	no data	no data	no data	28.09	25-31
San Vicente North	no data	27.05	27.84	28.45	no data	no data	no data	no data	no data	no data	27.78	25-31
Market Bridge	no data	27.09	28.3	28.81	no data	no data	no data	no data	no data	no data	28.07	25-31
River Delta	no data	27.15	28.26	28.44	no data	no data	no data	no data	no data	no data	27.95	25-31
Overall Average											27.69	25-31

CALAPAN RIVER TOTAL SUSPENDED SOLIDS

Station Identification	January 19	February 08	March 16	April 20	June 01	June 15	June 29	July 20	August 03	October 12	Average	WQG
Sta. Isabel	17	12	48	25	73	14	10	17	19	26	26.10	80
Lalud	13	33	29	13	18	16	20	22	29	18	21.10	80
Camilmil	7	12	18	8	10	13	6	23	16	13	12.60	80
San Vicente East	6	8	10	12	28	18	6	15	7	12	12.20	80
San Vicente North	3	8	13	12	23	17	8	28	9	13	13.40	80
Market Bridge	15	7	10	12	15	15	16	39	11	10	15.00	80
River Delta	17	9	28	25	76	9	32	106	22	17	34.10	80
Overall Average											19.21	80

MASIPIT CREEK

[illegible]

REVISIT OF CALAPAN RIVER WQMA TEN- YEAR ACTION PLAN





OTHER MATTERS