

## MANILLA WASTEWATER TREATMENT PLANT - YEARLY SUMMARY FOR 2014/15

LICENCE PERIOD: 1st Feb 2014 - 31st Jan 2015

POINT 1 NOTE: Monitoring Frequency - Quarterly

Pollutant	Units	90th Percentile Concentration Limit	Monitoring Frequency	Number of Samples	Minimum Value	Maximum Value	Mean	Median	Exceedances (Yes / No)
TSS	mg/L	30	Quarterly	4	8	30	15.0	-	No
BOD	mg/L	20	Quarterly	4	4	29	12.0	-	Yes
Calcium	mg/L	-	Quarterly	4	22.0	105.8	47.8	-	-
Conductivity	uS/cm	-	Quarterly	4	850	1520	1098	-	-
Faecal Coliforms	CFU/100mL	-	Quarterly	4	<1	300000	75000	-	-
Magnesium	mg/L	-	Quarterly	4	1.9	29.2	20.5	-	-
Nitrite	mg/L	-	Quarterly	4	<0.1	2.1	0.6	-	-
Nitrate	mg/L	-	Quarterly	4	0.1	15.8	4.5	-	-
Ammonia	mg/L	-	Quarterly	4	0.2	11.0	3.1	-	-
Oil and Grease	mg/L	-	6 Monthly	2	<5	<5	<5	-	-
OC/OP	ug/L	-	Yearly	1	<PQL	<PQL	<PQL	-	-
pH	pH Units	-	Quarterly	4	7.8	9.5	8.5	-	-
Total Phosphorus	mg/L	-	Quarterly	4	0.66	8.43	2.72	-	-
Potassium	mg/L	-	Quarterly	4	20.3	26.0	23.3	-	-
Sodium	mg/L	-	Quarterly	4	131	201	155	-	-
SAR		-	Quarterly	4	4.2	5.3	4.74	-	-
TKN	mg/L	-	Quarterly	4	1.9	16.7	5.9	-	-

POINT 2 NOTE: Monitoring Frequency - Yearly

Pollutant	Units	90th Percentile Concentration Limit	Monitoring Frequency	Number of Samples	Minimum Value	Maximum Value	Mean	Median	Exceedances (Yes / No)
CEC	cm/kg	-	Yearly	1	12.4	12.4	12.4	12.4	-
Chloride	mg/kg	-	Yearly	1	30	30	30	30	-
Conductivity	uS/cm	-	Yearly	1	64	64	64	64	-
Ex. Calcium	mg/kg	-	Yearly	1	7.3	7.3	7.3	7.3	-
Ex. Magnesium	mg/kg	-	Yearly	1	3.9	3.9	3.9	3.9	-
Ex. Potassium	mg/kg	-	Yearly	1	0.8	0.8	0.8	0.8	-

Ex. Sodium	mg/kg	-	Yearly	1	0.4	0.4	0.4	0.4	-
Extractable Phos.	mg/kg	-	Yearly	1	9.3	9.3	9.3	9.3	-
Moisture Content	%	-	3 Yearly	1	18.8	18.8	18.8	18.8	-
Nitrate	mg/kg	-	Yearly	1	0.4	0.4	0.4	0.4	-
Ammonia	mg/kg	-	Yearly	1	<20	<20	<20	<20	-
Total Nitrogen	mg/kg	-	3 Yearly	-	-	-	-	-	-
pH	pH Units	-	Yearly	1	6.2	6.2	6.2	6.2	-
Total Phosphorus	mg/kg	-	3 Yearly	-	-	-	-	-	-
PSC	mg/kg	-	3 Yearly	-	-	-	-	-	-
SHC	mm/week	-	3 Yearly	-	-	-	-	-	-
SAR		-	Yearly	1	6.52	6.52	6.52	6.52	-

**POINT 3,4,5,6** NOTE: Monitoring Frequency - Quarterly

Pollutant	Units	90th Percentile Concentration Limit	Monitoring Frequency	Number of Samples	Minimum Value	Maximum Value	Mean	Median	Exceedances (Yes / No)
Conductivity	uS/cm	-	Quarterly	0	DRY	DRY	DRY	DRY	-
Nitrate	mg/L	-	Yearly	0	DRY	DRY	DRY	DRY	-
Ammonia	mg/L	-	Yearly	0	DRY	DRY	DRY	DRY	-
Total Nitrogen	mg/L	-	Yearly	0	DRY	DRY	DRY	DRY	-
Orthophosphate	mg/L	-	Yearly	0	DRY	DRY	DRY	DRY	-
pH	pH Units	-	Quarterly	0	DRY	DRY	DRY	DRY	-
Total Phosphorus	mg/L	-	Yearly	0	DRY	DRY	DRY	DRY	-
Standing Water Level	m	-	Quarterly	0	DRY	DRY	DRY	DRY	-

**POINT 7** NOTE: Monitoring Frequency - Each Overflow Event

Pollutant	Units	90th Percentile Concentration Limit	Monitoring Frequency	Number of Samples	Minimum Value	Maximum Value	Mean	Median	Exceedances (Yes / No)
BOD	mg/L	-	As above	0	-	-	-	-	-
Total Nitrogen	mg/L	-	As above	0	-	-	-	-	-
Oil and Grease	mg/L	-	As above	0	-	-	-	-	-
Total Phosphorus	mg/L	-	As above	0	-	-	-	-	-
TSS	mg/L	-	As above	0	-	-	-	-	-