

Waikato District Council Wastewater Treatment Monitoring Results

Site **Maramarua**
 Consent number **101961**
 Report Period July 2011 - June 2012

Discharge Limit Exceeded	
nr = no recorded data	
Value actually < number shown	

1 Characterisation Values - Monthly Tests from Treated Waste Discharge Tank

Parameter	Units	Median	10 Percentile	90 Percentile	Average	Maximum	12-Jul-11	09-Aug-11	07-Sep-11	11-Oct-11	10-Nov-11	12-Dec-11	11-Jan-12	08-Feb-12	06-Mar-12	04-Apr-12	01-May-12	12-Jun-12
Suspended Solids	g/m3	4.0	3.0	11.9	6.3	12.0	8.0	3	4	11	3	12	8	12	4	4	3	3
cBOD5	g/m3	5.1	2.0	13.7	6.9	21.0	10.8	3.6	6	6.7	4.2	7	14	21	2	2	2	3
Ammoniacal-N	g/m3	4.0	0.8	10.1	5.8	19.0	8.4	1.8	10.1	2.7	8.5	2.3	19	7.2	1.7	0.035	0.78	4
Total Kjeldahl Nitrogen	g/m3	5.7	0.8	11.5	6.9	19.5	9.5	2.7	11	5.7	10.4	3.6	19.5	11.5	2.9	0.57	0.1	5.6
Nitrate	g/m3	16.6	4.2	40.8	20.2	52.0	4.0	24	4	30	13.3	13.4	9.5	25	5.9	19.8	52	42
Nitrite	g/m3	0.5	0.2	0.6	0.5	1.4	0.5	0.46	0.49	0.39	0.62	0.46	1.37	0.56	0.48	0.006	0.18	0.4
Total nitrogen	g/m3	28.8	15.7	51.9	32.0	62.0	14.0	27.16	15.49	36.09	24.32	17.46	30.37	37	62	20.38	52.28	48
DRP	g/m3	5.0	2.6	7.1	4.8	7.3	2.5	3.2	4.7	4.2	5.3	3.1	6.1	7.1	7.3	2.2	5.2	6.8
Total Phosphorus	g/m3	5.2	2.9	7.0	5.0	8.2	2.9	3.3	5.1	4.5	5.6	3.3	6.1	7	8.2	2.3	5.3	6.8
Faecal coliforms	MPN/100ml	2100	80	22000	9444	47000	22000	2100	1100	47000	40	14000		12000	860	4200	80	500
E coli	MPN/100ml	450	62	13500	6791	47000	9000	1700	360	47000	26	14000	60	8000	370	400	80	500
pH (field)	units	7.0	6.4	8.5	7.2	9.1	8.6	9.05	6.84	6.36	7.14	6.59	7.16	6.84	6.68	6.07	7.14	7.35
Conductivity(field)	uS/cm	777	463	1046	776	1138	744	748	674	674	837	439	858	805	1018	330	1049	1138
Temperature	*C	18.8	13.5	21.9	18.1	22.8	13.2	13.3	15.4	18	18.9	19.4	22	22.8	20.6	19.5	18.6	15.3
Dissolved Oxygen		4.4	3.8	7.1	5.2	9.0	4.3	7.02	3.92	3.92	4.52	4.14	3.77	5.3	3.73	9	6.17	7.15

2 Daily Discharge Volume

Limit 6 m3/day

Parameter	Units	Limit	Median	10 Percentile	90 Percentile	Average	Maximum	July	August	Sept	October	November	December	January	February	March	April	May	June
Avg Daily Flow	m3/day	SCADA	4.3	3.2	8.6	4.9	9.9	10	5	4	4	5	5	3	3	9	3	4	5
Max Daily Flow	m3/day	SCADA	14.5	8.1	35.8	17.7	40.0	25	13	8	9	40	18	12	4	37	16	9	21

3 Characterisation Values - Monthly Tests from Treated Waste Discharge Tank

Parameter	Units	2008-09 Median	2009-10 Median	2010-11 Median	2011-12 Median
Suspended Solids	g/m3	7.4	8.9	5.0	4.0
cBOD5	g/m3	2.4	4.2	2.4	5.1
Ammoniacal-N	g/m3	3.3	11.5	2.1	4.0
Total Kjeldahl Nitrogen	g/m3	5.9	11	3.6	5.7
Nitrate	g/m3	33.5	29.5	30.0	16.6
Nitrite	g/m3	0.11	0.15	0.1	0.5
Total nitrogen	g/m3	38.7	40.08	44.4	28.8
DRP	g/m3	6	6.2	3.4	5.0
Total Phosphorus	g/m3	6.6	6.85	3.7	5.2
Faecal coliforms	MPN/100ml	615	1100	530	2100
E coli	MPN/100ml	600	890		450
pH (field)	units	5.6	6.38	5.5	7.0
Conductivity(field)	uS/cm	582	624	625	777
Temperature	*C	17.6	17	18.0	18.8
Dissolved Oxygen		5.7	4.68	6.6	4.4