Appendix B – Fourth Schedule of the Resource Management Act

1.	Matters that should be included in an assessment of effects on the environment—	Status
(a)	A description of the proposal:	Refer to Sections 1 and 4.
(b)	Where it is possible that an activity will result in significant adverse effects on the environment, a description of any possible alternative locations or methods for undertaking the activity.	The proposal will not cause more than minor adverse effects given treatment standards as outlined in Section 4. An assessment of alternative disposal mechanisms has been conducted and presented as Section 5.
(c)	Repealed	
(d)	An assessment of the actual or potential effect on the environment of the proposed activity:	Actual or potential effects are outlined in Section 4.
(e)	Where the activity includes the use of hazardous substances and installations, an assessment of any risks to the environment which are likely to arise from such use:	No hazardous substances are proposed for use.
(f)	Where the activity includes the discharge of any contaminant, a description of—	
	(i) The nature of the discharge and the sensitivity of the proposed receiving environment to adverse effects; and	Refer to Section 4.
	(ii) Any possible alternative methods of discharge, including discharge into any other receiving environment:	Refer to Section 5.
(g)	A description of the mitigation measures (safeguards and contingency plans where relevant) to be undertaken to help prevent or reduce the actual or potential effect:	Mitigation measures are outlined in Section 4. A proposed consent including conditions to mitigate any adverse effects is included as Section 7.
(h)	Identification of the persons affected by the proposal, the consultation undertaken, if any, and any response to the views of any person consulted:	Consultation has been undertaken with affected parties. This consultation is outlined in Section 6.
(i)	Where the scale or significance of the activity's effect are such that monitoring is required, a description of how, once the proposal is approved, effects will be monitored and by whom.	An outline of proposed consent conditions including a proposed monitoring programme has been included in Section 7.

2.	Matters that should be considered when preparing an assessment of effects on the environment	Status
(a)	Any effect on those in the neighbourhood and, where relevant, the wider community including any socio-economic and cultural effects:	It is considered that with the mitigation measures proposed there will not be any adverse effects on the wider community. The proposed works are expected to have positive environmental and community effects.
(b)	Any physical effects on the locality, including any landscape and visual effects:	Site is designated for the proposed activity, therefore no assessment is required.
(c)	Any effect on ecosystems, including plants or animals and any physical disturbance of habitats in the vicinity:	There will be no more than minor effects on the parameters listed provided the system is operated within the environmental standards set.
(d)	Any effect on natural and physical resources having aesthetic, recreational, scientific, historical, spiritual , or cultural, or other special value for present or future generations:	Consultation with affected Iwi is on-going to determine any effects and develop mitigation measures to overcome any adverse affects on spiritual and cultural values. Adverse effects on natural and physical resources are expected to be less than minor.
(e)	Any discharge of contaminants into the environment, including any unreasonable emission of noise and options for the treatment and disposal of contaminants:	Discharge of contaminants is assessed in section 4 and options for disposal are assessed in section 5. Site is designated for the proposed activity therefore no further assessment is required.
(f)	Any risk to the neighbourhood, the wider community, or the environment through natural hazards or the use or hazardous substances or hazardous installations:	No hazardous substances or installations are proposed for use.

Appendix C
NRC Assessment Criteria for Discharge Permits

Appendix C – SECTION 36.1: NRC ASSESSMENT CRITERIA FOR DISCHARGE PERMITS

Applications for discharge permits for discretionary activities and non-complying activities will be assessed in accordance with s.104, s.105, and s.107 (Restriction of grant of certain discharge permits) of the Act and having regard t o the following:	**Status**
(a) The level of treatment provided by the proposed effluent or stormwater collection, treatment and disposal system.	Refer Section 4.
(b) The concentrations and loadings of contaminants in the discharge.	Refer Section 4.
(c) The nature and sensitivity of the receiving environment including the proximity of the discharge to water bodies and the water body's associated cultural values, and the proximity to identified significant natural features, archaeological sites and historic features.	Refer Section 4.
(d) The mitigation measures and safeguards incorporated into the design of the various components of the proposed effluent or stormwater collection, treatment and disposal system.	Refer Section 4.
(e) The adequacy of the Assessment of Environmental Effects.	Refer Section 4.
(f) The adequacy of the assessment of alternatives and whether or not the proposed effluent treatment and disposal system is the best practicable option.	Refer to Section 5
(g) The adequacy of any Management Plan (where required) for the operation and management of the proposed effluent treatment and disposal system.	Management Plan to be prepared once consent is issued.
(h) For stormwater discharges, the adequacy of the collection and reticulation system in relation to the overall catchment drainage and the need for a stormwater management plan to be prepared.	Not Applicable
(i) The adequacy of any proposed monitoring programme to monitor the effects of the discharge.	Refer Section 7

Appendix D
Monitoring Data

Appendix D – Monitoring Data

NRC Sampling Site: 101687 Taipa Sewage Treatment System @ Number 4 marsh discharge

Date	BOD5 g/m3	FC cfu/100ml	NH4 g/m3-N
26-Sep-90		3300	
17-Oct-90		200	
01-Nov-90		< 100	
04-Dec-90		300	
19-Dec-90		< 100	
19-Dec-90		2700	
15-Jan-91		100	
25-Mar-91		140	
01-May-91		28	
11-Jun-91		< 100	
04-Jul-91		300	
25-Jul-91		3300	
26-Aug-91		100	
09-Sep-91		200	
01-Oct-91		100	
16-Oct-91		< 100	
05-Nov-91		< 100	
04-Dec-91		< 10	
13-Jan-92		100	
04-Feb-92		500	
19-Feb-92		100	
01-Apr-92		100	
01-Apr-92		< 100	
23-Apr-92		< 100	
19-May-92		< 100	
04-Aug-92		900	
27-Oct-92		200	
22-Dec-92		< 100	
09-Feb-93		200	
15-Apr-93		180	
15-Apr-93		200	
13-Jul-93		20	
13-Jul-93		10	
13-Jul-93		70	
13-Jul-93		10	
13-Jul-93		20	
04-Nov-93		440	
04-Nov-93		420	
04-Nov-93		750	
04-Nov-93		750	
04-Nov-93		470	
02-Feb-94		100	
11-Jul-94		200	
10-Nov-94		600	
09-Mar-95		800	

Date	BOD5 g/m3	FC cfu/100ml	NH4 g/m3-N
25-May-95		< 100	
25-May-95		100	
05-Sep-95		1300	
03-Jan-96		100	
16-Jul-96		100	
16-Jul-96		200	
15-Oct-96		1100	0.04
21-Jan-97	19	600	0.05
30-Apr-97	21	560	1.21
02-Jul-97	6	2400	0.67
10-Oct-97	28	280	0.19
13-Feb-98		> 30000	0.86
20-May-98	40	100	0.06
13-Aug-98	39	4600	0.6
24-Nov-98	7	140	0.05
08-Mar-99	15	400	0.75
06-May-99	11	200	0.32
20-Aug-99	15	30	0.05
17-Nov-99	16	250	0.05
08-Feb-00	35	400	0.79
22-May-00	25	120	0.63
19-Sep-00	45	10	0.51
07-Dec-00	20	260	0.06
14-Feb-01	20	740	0.09
07-Aug-01		400	
31-Oct-01	23	540	0.06
26-Mar-02	0	580	0
10-Jul-02	9	70	15
21-Nov-02		520	3.7
04-Mar-03	14	880	3.8
28-May-03	6	10	21
11-Sep-03	13	< 10	22
11-Sep-03		10	
18-Nov-03	22	1030	8.67
19-Nov-03			7.59
20-Nov-03			5.86
21-Nov-03			6.7
08-Mar-04	18	160	
13-May-04	15	200	
12-Aug-04	7	< 100	28.7
08-Sep-04			21.8
09-Sep-04			20.9
10-Nov-04	42	1800	8.88
28-Feb-05	43	3800	
30-Mar-05		100	15.9
11-May-05	17	310	24.7
11-Aug-05		20	25.1
26-Sep-05			20
23-Nov-05	12	300	6.25

Date	BOD5 g/m3	FC cfu/100ml	NH4 g/m3-N
22-Feb-06	27	500	3.04
10-May-06	14	< 100	3.77
22-Aug-06	25	100	5.48
21-Nov-06	22	200	0.02
06-Mar-07	39	< 100	1.02
22-May-07	12	500	1.32
14-Aug-07	11	200	0.9
28-Nov-07	21	300	7.2
17-Dec-07			15
Median	18.5	200	1.32
Count	38	96	47
Eighty Percentile	27.6	580	15
Ninety Percentile	39.3	1065	21.32
max	45	30000	28.7

NRC Sampling Site: 105939 Parapara River UT @ Muirs Drain US Taipa STS Discharge

Date	DO g/m3	FC cfu/100ml	NH4 g/m3-N	PH pH	TEMP Deg.C
07-Aug-01	9	170	< 0.04	5.7	13.2
31-Oct-01	2.8	410	< 0.04	5.2	19.1
26-Mar-02	0.1	660	0.1	6.2	17.8
10-Jul-02		110	0.28	6.3	13.4
21-Nov-02	1.2	< 10	0.1	5.6	16.4
04-Mar-03	1				17.2
28-May-03	5.7	130	0.08	6.6	
11-Sep-03	4.7	40	0.07	5.8	11.7
18-Nov-03	1.2	< 10	0.02	6.1	15.1
08-Mar-04		340			
08-Sep-04			0.04	6.2	12
09-Sep-04			0.05	6.1	12.1
30-Mar-05	4.9	800	1.36	6.8	16.9
median	2.8	150	0.07	6.1	15.1
Eighty Percentile	5.22	460	0.1	6.3	17.2
Ninety Percentile	6.36	674	0.28	6.6	17.8
count	9	10	11	11	11

NRC Sampling Site: 105941 Parapara River UT @ Muirs Drain DS Taipa STS Discharge

Date	DO g/m3	FC cfu/100ml	NH4 g/m3-N	PH pH	TEMP Deg.C
07-Aug-01	7.6	140	0.14	6.3	13.1
31-Oct-01	6.2	570	9.3	5.8	19.4
26-Mar-02	0.3	480	0.91	7.4	19.7
10-Jul-02		190	1.4	6.4	13.1
21-Nov-02	4.8	40	0.4	6.4	16
04-Mar-03	0.4	600	2.5		19.4
28-May-03	4.8	170	0.96	6.6	12.1
11-Sep-03	3.5	< 10	4.47	5.9	12.3
18-Nov-03	7	220	2.92	6.8	18.2
08-Mar-04		60			
08-Sep-04			2.6	6.5	12
09-Sep-04			4.57	6.5	12
30-Mar-05	7.9	2200	11.9	7.9	18.2
median	4.8	190	2.55	6.5	14.55
Eighty Percentile	7.24	570	4.55	6.8	19.16
Ninety Percentile	7.66	600	8.827	7.4	19.4
count	9	11	12	11	12

Appendix E
Far North District Council Planning Maps