Area 3 Pond Release Calculations

	Week No.	Number of Ponds	Number of hectares stocked	Total volume stocked ML	Average % exchanged per day	Average ML exchanged / day	Concentration	TN discharged kg per day	Total Daily Discharge (ML/d)	Total Nitrogen Discharged (kg/day)
August	1									
	2									
	3									
	4									
Septembe	5									
	6									
	7									
	8									
October	9									
	10									
	11									
	12									
November	13									
	14									
	15	7	7	105	0					
	16	14	21	315	0					
	17	14	35	525	0					
	18	14	49	735	0					
December	19	7	56	840	0.5	0.53	1.1	0.5775	1	0.6
	20				0.5	0.53	1.1	0.5775	2	1.7
	21				0.5	0.53	1.1	0.5775	3	2.9
	22				0.5	0.53	1.1	0.5775	4	4.0
January	23					2.1	1.1	2.31	6	6.4
	24					2.1	1.1	2.31	9	9.8
	25					2.1	1.1	2.31	12	13.3
	26					2.1	1.1	2.31	15	16.7
February	27					4.2	1.1	4.62	19	20.8
	28					4.2	1.1	4.62	23	25.4
	29					4.2	1.1	4.62	27	30.0
	30					4.2	1.1	4.62	32	34.7
March	31					6.83	1.1	7.5075	36	39.8
	32					6.83	1.1	7.5075	41	45.6
	33					6.83	1.1	7.5075	47	51.4
April	34					6.83	1.1	7.5075	52	57.2
	35					9.45	1.1	10.395	57	62.9
	36					9.45	1.1	10.395	62	68.7
	37					9.45	1.1	10.395	68	74.5
May	38					9.45	1.1	10.395	73	80.3
	39					15	1.1	16.5	81	89.3
	40								77	85.0
	41								58	64.2
June	42								39	43.4
	43								15	16.5

Week No.	Number of Ponds	Number of hectares stocked	Total volume stocked ML	Average % exchanged per day	Average ML exchanged / day	Concentration	TN discharged kg per day
19	7	7	105	0.5	0.53	1.1	0.5775
20	14	14	210	0.5	1.05	1.1	1.155
21	14	14	210	0.5	1.05	1.1	1.155
22	14	14	210	0.5	1.05	1.1	1.155
23	14	14	210	0.5	1.05	1.1	1.155
24	14	14	210	2	4.2	1.1	4.62
25	14	14	210	2	4.2	1.1	4.62
26	14	14	210	2	4.2	1.1	4.62
27	14	14	210	2	4.2	1.1	4.62
28	14	14	210	4	8.4	1.1	9.24
29	14	14	210	4	8.4	1.1	9.24
30	14	14	210	4	8.4	1.1	9.24
31	14	14	210	4	8.4	1.1	9.24
32	14	14	210	6.5	13.7	1.1	15.015
33	14	14	210	6.5	13.7	1.1	15.015
34	14	14	210	6.5	13.7	1.1	15.015
35	14	14	210	6.5	13.7	1.1	15.015
36	14	14	210	9	18.9	1.1	20.79
37	14	14	210	9	18.9	1.1	20.79
38	14	14	210	9	18.9	1.1	20.79
39	14	14	210	9	18.9	1.1	20.79
40	Harvest			30		1.1	33

Week No.	Number of Ponds	Number of hectares stocked	Total volume stocked ML	Average % exchanged per day	Average ML exchanged / day	Concentration	TN discharged kg per day
19	14	14	210	0.5	1.05	1.1	1.155
20	14	14	210	0.5	1.05	1.1	1.155
21	14	14	210	0.5	1.05	1.1	1.155
22	14	14	210	0.5	1.05	1.1	1.155
23	14	14	210	0.5	1.05	1.1	1.155
24	14	14	210	2	4.2	1.1	4.62
25	14	14	210	2	4.2	1.1	4.62
26	14	14	210	2	4.2	1.1	4.62
27	14	14	210	2	4.2	1.1	4.62
28	14	14	210	4	8.4	1.1	9.24
29	14	14	210	4	8.4	1.1	9.24
30	14	14	210	4	8.4	1.1	9.24
31	14	14	210	4	8.4	1.1	9.24
32	14	14	210	4	8.4	1.1	9.24
33	14	14	210	6.5	13.7	1.1	15.015
34	14	14	210	6.5	13.7	1.1	15.015
35	14	14	210	6.5	13.7	1.1	15.015
36	14	14	210	6.5	13.7	1.1	15.015
37	14	14	210	9	18.9	1.1	20.79
38	14	14	210	9	18.9	1.1	20.79
39	14	14	210	9	18.9	1.1	20.79
40	14	14	210	9	18.9	1.1	20.79
41	Harvest			30		1.1	33

Week No.	Number of Ponds	Number of hectares stocked	Total volume stocked ML	Average % exchanged per day	Average ML exchanged / day	Concentration	TN discharged kg per day
19	14	14	210	0.5	1.05	1.1	1.155
20	14	14	210	0.5	1.05	1.1	1.155
21	14	14	210	0.5	1.05	1.1	1.155
22	14	14	210	0.5	1.05	1.1	1.155
23	14	14	210	0.5	1.05	1.1	1.155
24	14	14	210	0.5	1.05	1.1	1.155
25	14	14	210	2	4.2	1.1	4.62
26	14	14	210	2	4.2	1.1	4.62
27	14	14	210	2	4.2	1.1	4.62
28	14	14	210	2	4.2	1.1	4.62
29	14	14	210	4	8.4	1.1	9.24
30	14	14	210	4	8.4	1.1	9.24
31	14	14	210	4	8.4	1.1	9.24
32	14	14	210	4	8.4	1.1	9.24
33	14	14	210	6.5	13.7	1.1	15.015
34	14	14	210	6.5	13.7	1.1	15.015
35	14	14	210	6.5	13.7	1.1	15.015
36	14	14	210	6.5	13.7	1.1	15.015
37	14	14	210	9	18.9	1.1	20.79
38	14	14	210	9	18.9	1.1	20.79
39	14	14	210	9	18.9	1.1	20.79
40	14	14	210	9	18.9	1.1	20.79
41	14	14	210	9	18.9	1.1	20.79
42	Harvest			30		1.1	33

Week No.	Number of Ponds	Number of hectares stocked	Total volume stocked ML	Average % exchanged per day	Average ML exchanged / day	Concentration	TN discharged kg per day
19	7	7	105	0.5	0.53	1.1	0.5775
20	7	7	105	0.5	0.53	1.1	0.5775
21	7	7	105	0.5	0.53	1.1	0.5775
22	7	7	105	0.5	0.53	1.1	0.5775
23	7	7	105	2	2.1	1.1	2.31
24	7	7	105	0.5	0.53	1.1	0.5775
25	7	7	105	0.5	0.53	1.1	0.5775
26	7	7	105	0.5	0.53	1.1	0.5775
27	7	7	105	2	2.1	1.1	2.31
28	7	7	105	2	2.1	1.1	2.31
29	7	7	105	2	2.1	1.1	2.31
30	7	7	105	2	2.1	1.1	2.31
31	7	7	105	4	4.2	1.1	4.62
32	7	7	105	4	4.2	1.1	4.62
33	7	7	105	4	4.2	1.1	4.62
34	7	7	105	4	4.2	1.1	4.62
35	7	7	105	6.5	6.83	1.1	7.5075
36	7	7	105	6.5	6.83	1.1	7.5075
37	7	7	105	6.5	6.83	1.1	7.5075
38	7	7	105	6.5	6.83	1.1	7.5075
39	7	7	105	9	9.45	1.1	10.395
40	7	7	105	9	9.45	1.1	10.395
41	7	7	105	9	9.45	1.1	10.395
42	7	7	105	9	9.45	1.1	10.395
43	Harvest			15		1.1	16.5

Total Harvest Volume (ML) 840
Total Pond Vol (ML) 840