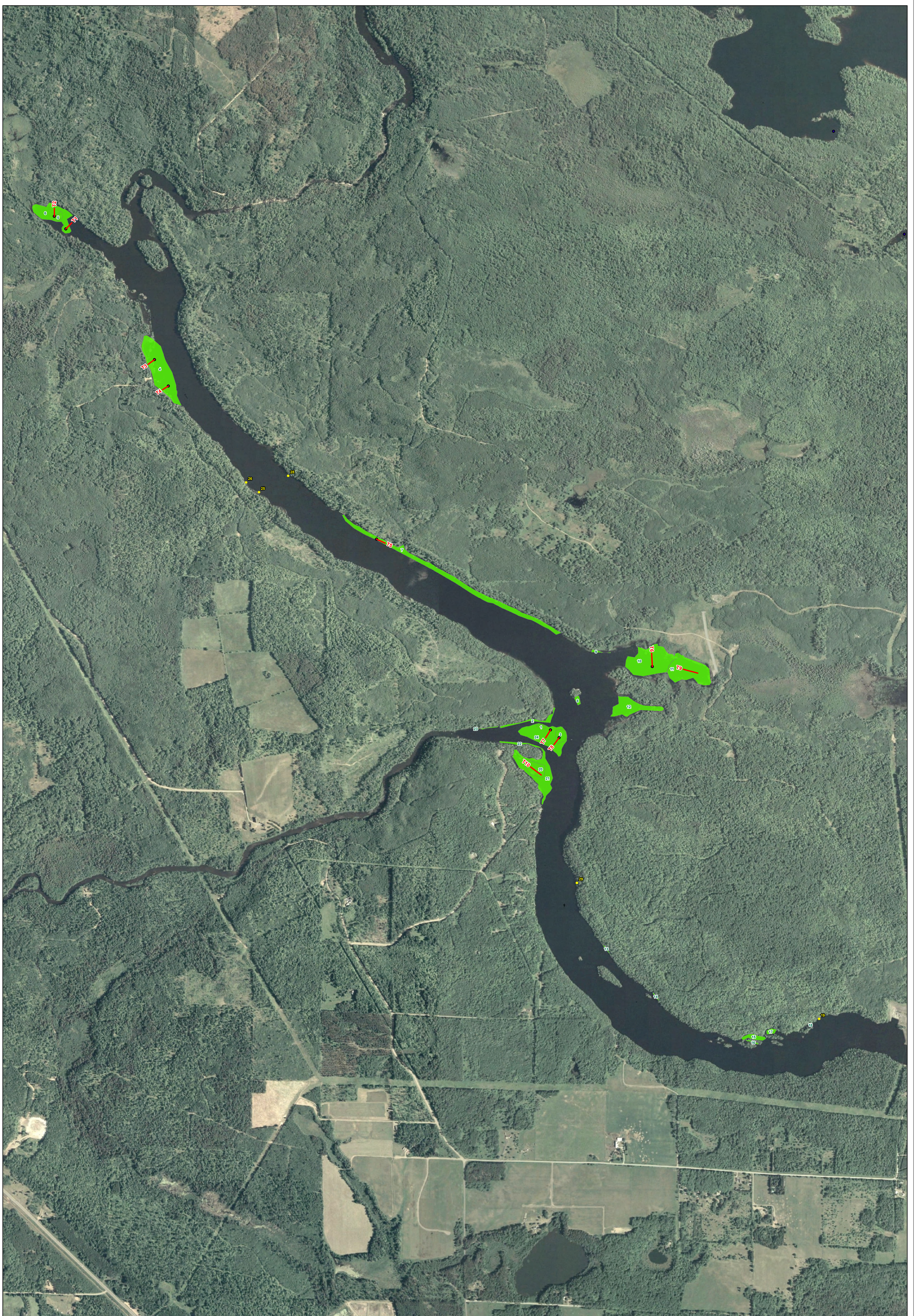


6	0.228	25.18	8.31	8.29	10	27	2.7	22	2.20
6	0.245	28.12	9.18	9.06	9	15	1.7	39	4.33
7	0.226	26.17	8.43	7.57	10	19	1.9	7	0.70
7	0.263	27.29	8.82	8.54	8	15	1.9	30	3.75
8	0.230	25.88	8.35	8.44	10	15	1.5	23	2.30
8	0.271	25.67	8.47	7.30	10	18.5	1.9	24	2.40
9	0.235	26.50	8.36	9.50	10	15	1.5	10	1.00
9	0.273	25.49	8.16	6.97	7	16	2.3	36	5.14
10	0.231	24.40	8.11	7.03	10	29	2.9	4	0.40
10	0.278	24.27	7.80	10.88	8	31	3.9	8	1.00
11	0.236	25.66	8.26	7.32	10	24	2.4	55	5.50
11	0.279	24.36	7.81	10.47	10	18	1.8	19	1.90
12	0.233	25.56	8.18	7.50	10	31	3.1	25	2.50
12	0.281	24.51	7.84	11.31	7	17	2.4	31	4.43
13	0.235	25.32	8.26	8.50	10	16	1.6	15	1.50
13	0.271	26.77	8.95	15.36	10	13	1.3	26	2.60
14	0.244	26.28	8.37	7.80	10	43	4.3	25	2.40
14	0.280	24.26	7.77	10.94	9	30	3.3	38	4.22
15	0.255	27.00	8.66	9.88	10	29	2.9	12	1.20
15	0.279	24.99	8.00	12.30	8	12	1.5	4	0.50
16	0.245	25.06	8.40	8.28	10	24	2.4	4	0.40
16	0.276	24.69	8.03	12.82	10	21	2.1	12	1.20
2008 TOTAL					158	362	2.3	234	1.48
2010 TOTAL					143	311.5	2.2	398	2.86

1.1.7 Brule Reservoir

Eight sampling locations were established during the 2008 population study in Brule Reservoir. Due to the increase in EWM, two new sites (T9 and T10) were established during the 2010 survey (Figure 1-7). On July 8, 2010, a total of 91 stems were collected with 96 weevil life stages present on them (Table 1-7). The overall weevil population increased from 2008 to 2010. No weevil life stages were found on the 9 stems collected from T6 but were found on stems from the new T9 site, which is located further into the bay. The majority of the EWM beds were observed as dense while in the field. It was also noted the amount of sediment coming into the Menominee River from the Brule River reduced visibility. The data for the water quality measurements do not seem to be accurate; there is a lot of fluctuation with the conductivity, temperature, and DO.



**Figure 1-7. WE Energies
Brule Hydro Project.
2010 Weevil Distribution Survey.**

- Survey Transect
- BRL_pts (WE Energies)
- BRL_poly (WE Energies)



Table 1-7 2008 (Gray) and 2010 (Yellow) Stem Analysis and Water Quality Data at Each Transect in Brule Reservoir

Transect	Water Quality				Stem Counts			Weevil Count	
	Cond	Temp	pH	DO	Stems	Meristems	Ave. Meristems/ Stem	Total Weevils	Ave. Weevils/ Stem
1	0.169	24.42	8.48	9.03	10	13	1.3	0	0.00
1	0.162	24.68	7.78	6.98	9	20	2.2	6	0.67
2	0.159	24.85	8.41	9.27	10	17	1.7	4	0.40
2	0.117	23.21	7.39	6.44	9	20	2.2	11	1.22
3	0.157	24.20	8.34	8.19	10	15	1.5	13	1.30
3	0.164	28.13	8.45	7.56	9	29	3.2	2	0.22
4	0.163	24.71	8.27	8.85	10	21	2.1	14	1.40
4	0.160	27.55	8.39	7.54	10	21	2.1	4	0.40
5	0.163	23.94	8.35	9.32	10	13	1.3	7	0.70
5	0.159	25.75	7.98	6.68	10	23	2.3	12	1.20
6	0.177	23.58	8.30	8.75	10	14	1.4	4	0.40
6	0.168	26.63	8.07	12.01	9	16	1.8	0	0.00
7	0.171	23.18	8.08	7.69	10	14	1.4	2	0.20
7	0.183	22.28	7.31	12.59	9	25	2.8	14	1.56
8	0.173	23.21	8.15	7.83	10	23	2.3	7	0.70
8	0.165	25.73	7.82	11.52	8	28	3.5	16	2.00
9	0.175	27.42	8.82	11.65	10	26	2.6	13	1.30
10	0.165	26.00	7.94	13.56	8	21	2.6	18	2.25
2008 TOTAL					80	130	1.6	51	0.64
2010 TOTAL					91	229	2.5	96	1.08

1.1.8 Lower Paint Reservoir

In addition to the 12 original sampling locations a new one was established, T13, during the July 8, 2010 survey (Figure 1-8). The new site was located in the middle of the river, adjacent to T2. A total of 126 stems were collected. Lab analysis revealed 276 weevil life stages on the stems for a total of 2.14 weevils/stem, which is up from 2008 (1.42 weevils/stem) (Table 1-8). As part of the We Energies MiddFoil® program, EnviroScience has stocked weevils in four locations in 2007, 2009, and 2010 (Figure 2-3). The temperature measurements were higher during the 2010 survey while the DO measurements varied.