Severn Sound Environmental Association

Tiny Beaches Investigation 2005









































Outline

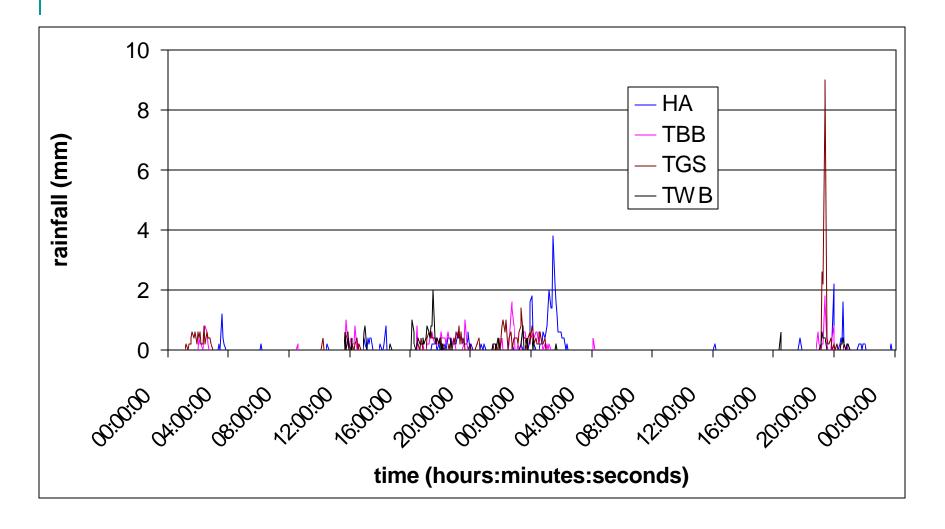
- Rainfall measurement
- Stream investigations
- Air photo interpretation
- Sediment investigations
- Research by others

Tipping-bucket Recording Rain gauge (Model TB3)



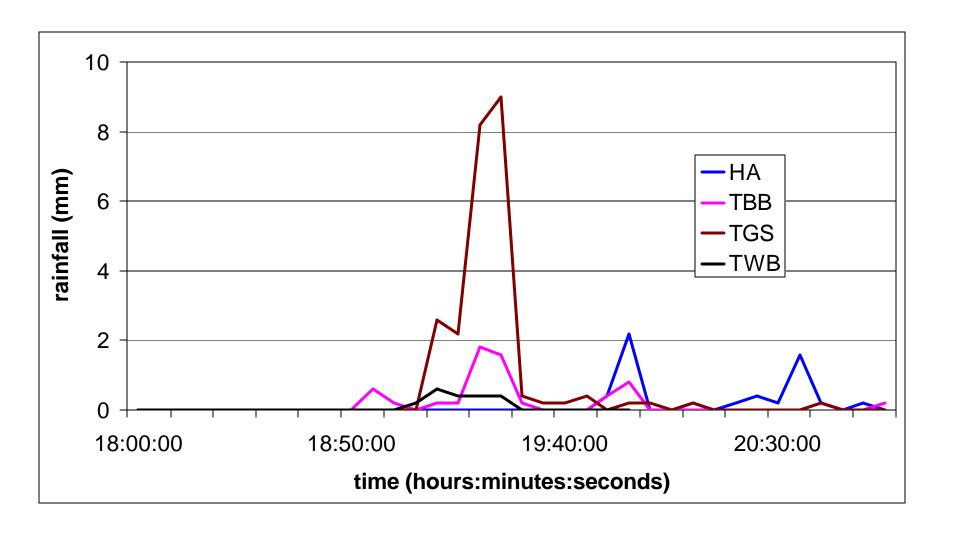


Rain event on June 13 &14, 2005

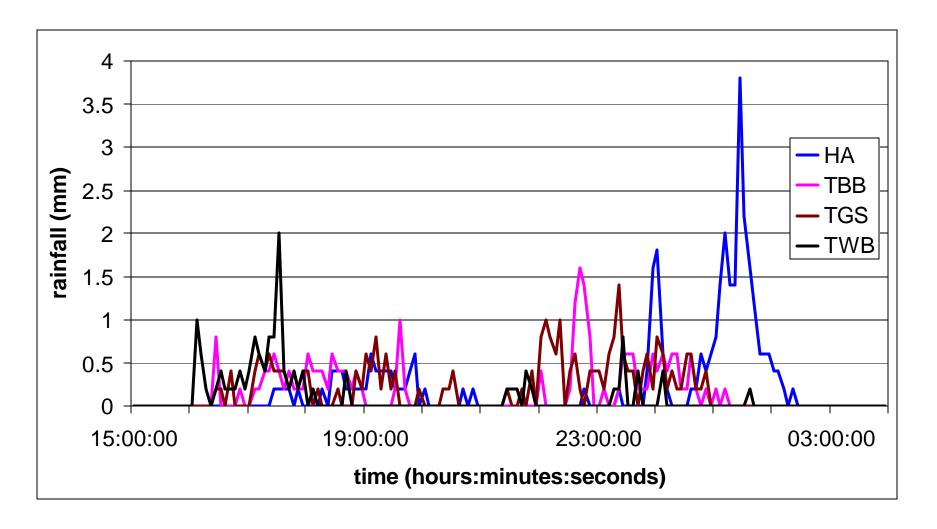


(average daily rainfall = 42.1 mm from June 13 05 08:00 to June 14 05 07:55)

Rain event on June 14, 2005 18:00 to 21:00

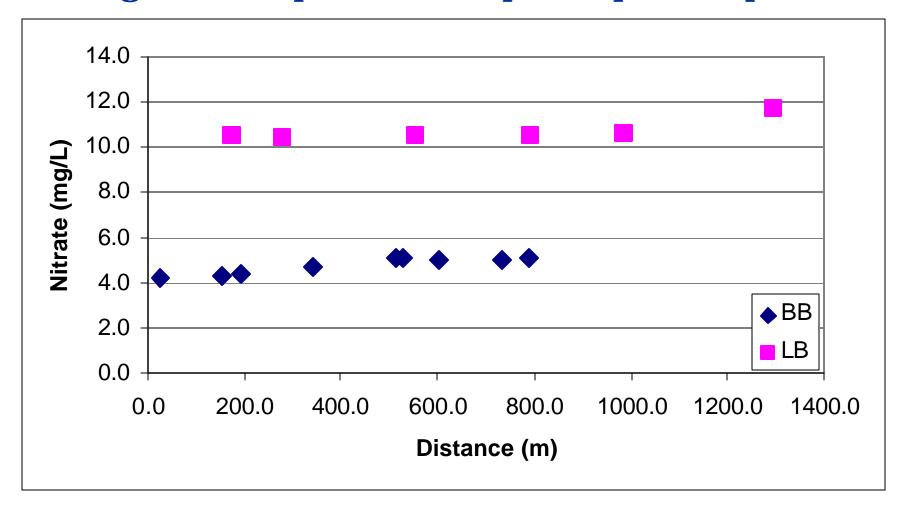


Rain event from June 13, 15:00 to June 14, 03:00

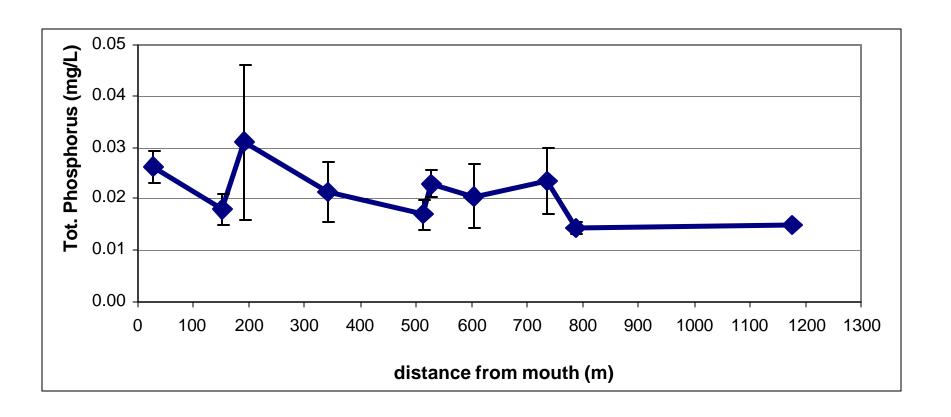




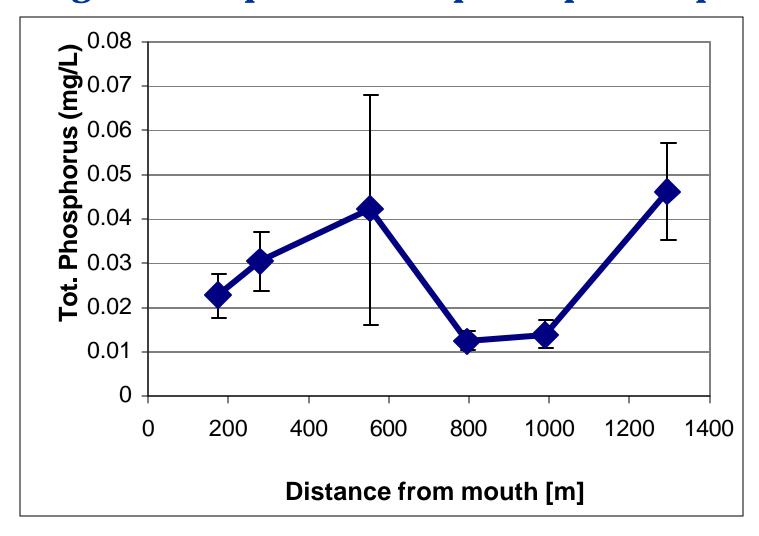
Mean quality profile of Big and Little Balm Creek 2005 (Average of 4 sample runs, except for upstream point)



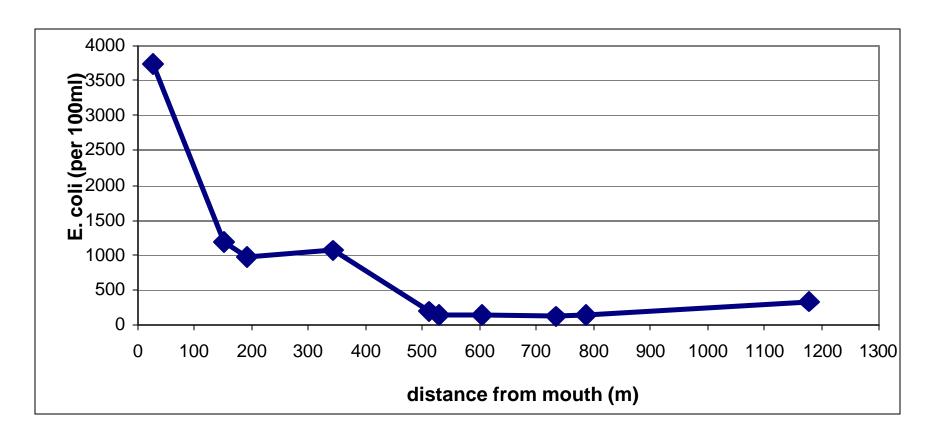
Mean quality profile of Big Balm Stream 2005 (Average of 4 sample runs, except for upstream point)



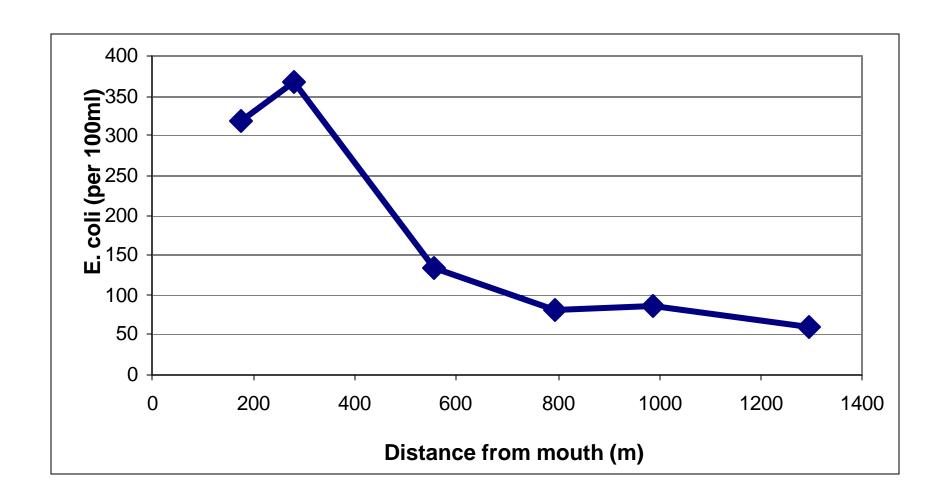
Mean quality profile of Little Balm Stream 2005 (Average of 4 sample runs, except for upstream point)

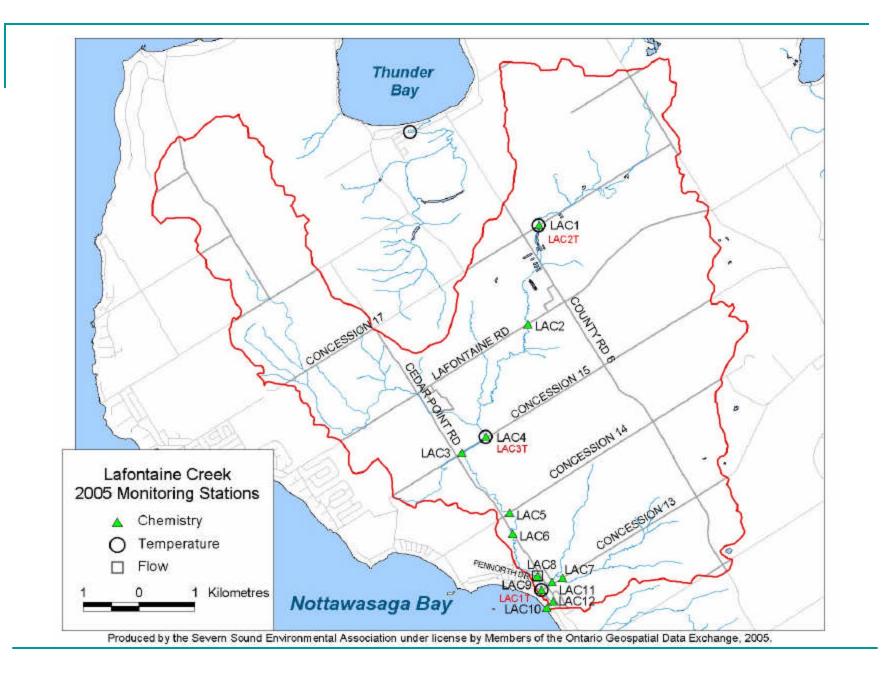


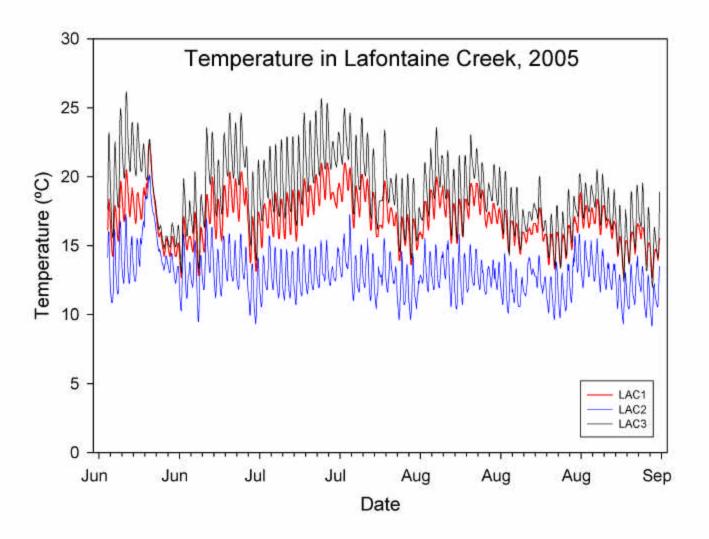
Mean quality profile of Big Balm Stream 2005 (Geomean of 4 sample runs, except for upstream point)



Mean quality profile of Little Balm Stream 2005 (Average of 4 sample runs, except for upstream point)









Sediment Investigation









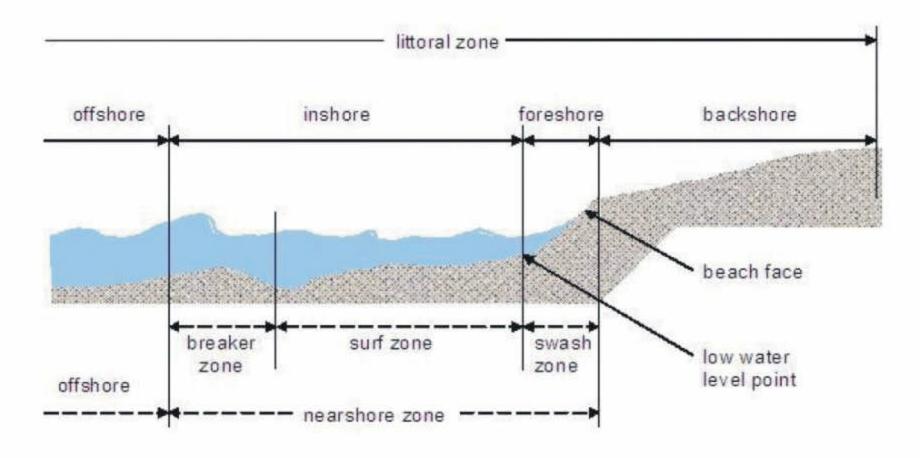




July 25, 2005

STA	E.coli
7	130
8	
9	60
10	140
11	90
12	< 10
13	< 10
14	60
15	< 10
16	10
17	< 10
18	20
19	50
20	< 10
21	< 10

Research by others



Conclusions

- Rainfall can be variable N to S, E to W
- Sources still coming from streams to beach areas
- Fine sediment transport still affecting some beaches, especially those with sheltering coastal structures
- Other work should also help interpret beach quality in future – especially the significance of the swash zone findings as they become available

Recommendations

- Partnership to provide enhanced water quality modeling in the Tiny Township Coast should be sought in 2006 in conjunction with other studies
- Investigation of streams as sources and beaches should continue