Monitoring Effectiveness of Reptile Tunnels and Exclusion Fencing on Highway 69 in Ontario, Canada

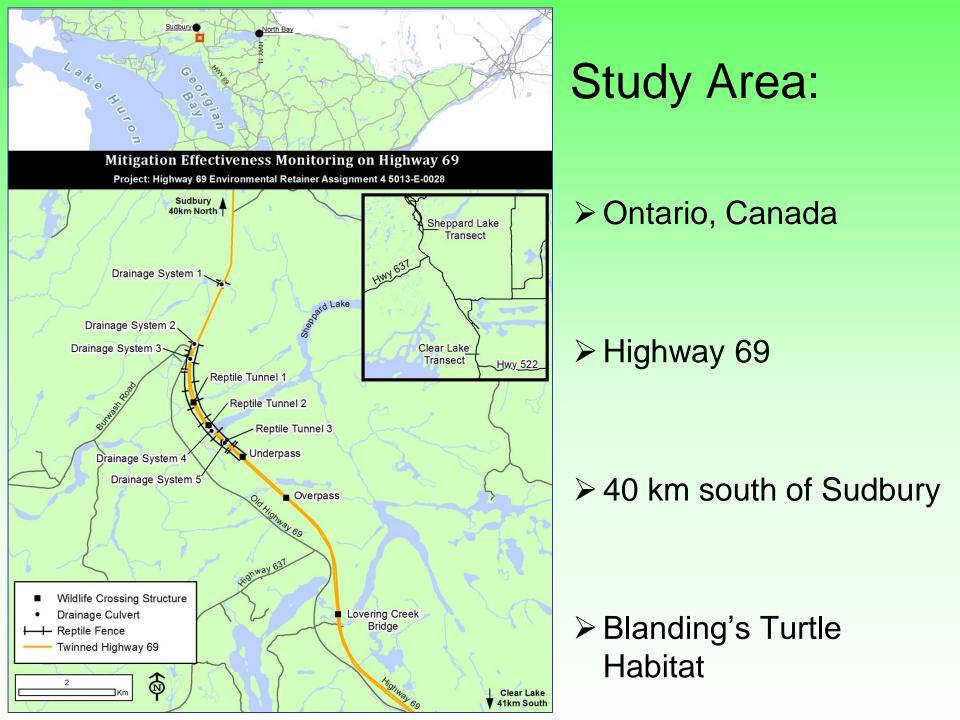
Northeastern Transportation and Wildlife Conference

13-September-2016

Kari Gunson and Christine Green













Methods

Walking Transects

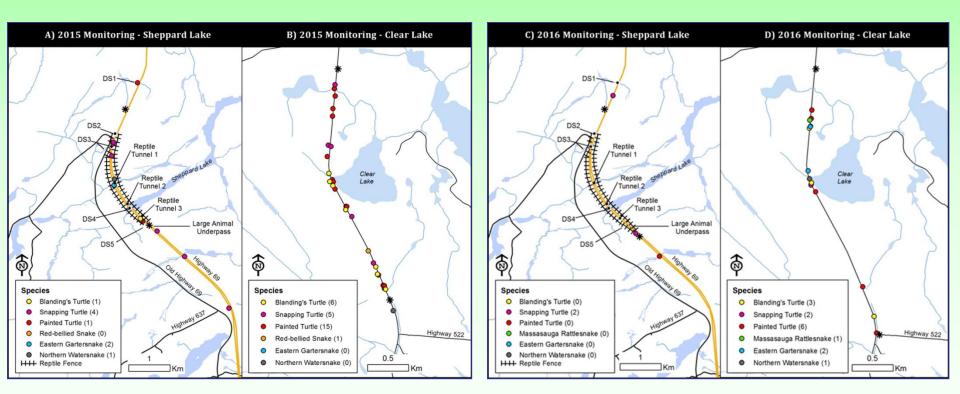
• May-July in 2015 and 2016

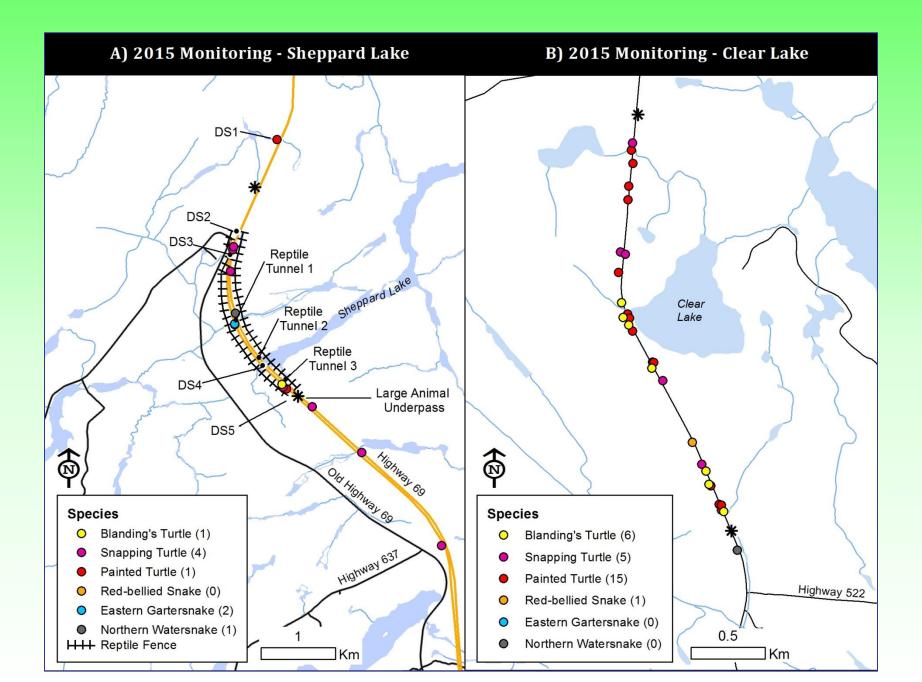
- Two 3.5 km sections of highway; one mitigated (Sheppard Lake) and one not mitigated (Clear Lake)
- Transects bisected similar wetland habitat and were approximately 40 km apart
- Recorded turtle species, sex, nesting behaviour, plastron midline length and width, age (hatchling, juvenile, adult) and location (UTM)

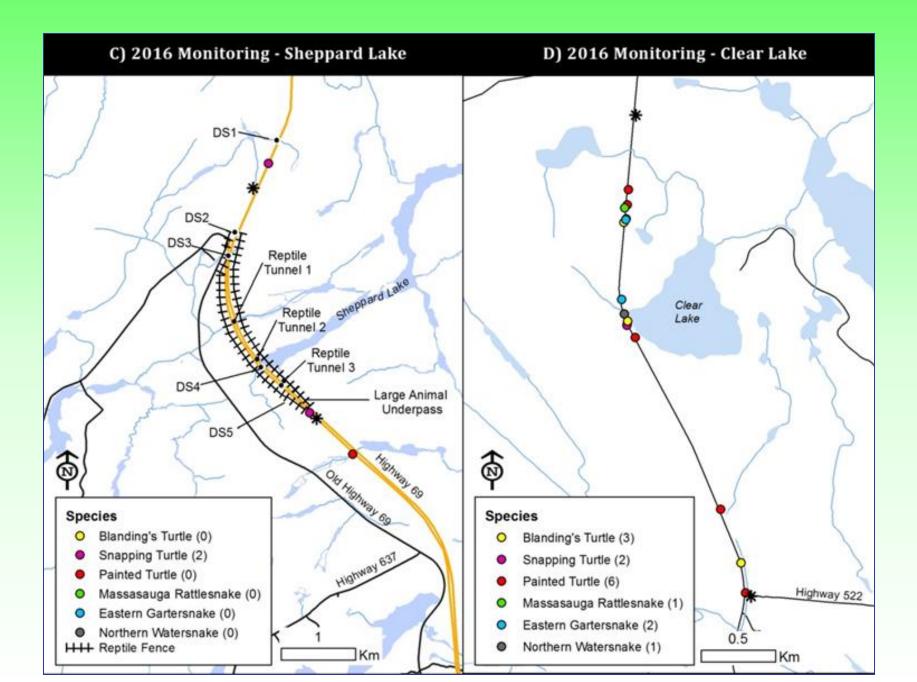
Camera Monitoring

- June-October in 2015 and 2016
- Camera systems: Remote passive infra-red trigger (Reconyx and Bushnell) and Active beam trigger (JTS)
- Camera set-up: Rock/dirt/wood ramps for funnel; camera placement at side or top of tunnel
- Camera settings: Time lapse and Motion

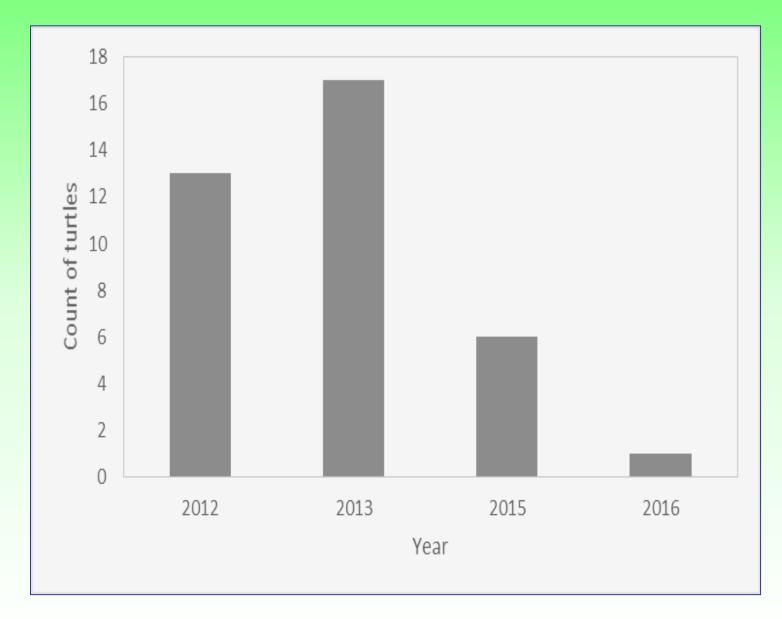
Results:







Results



Reconyx Camera System







JTS Active Camera System





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