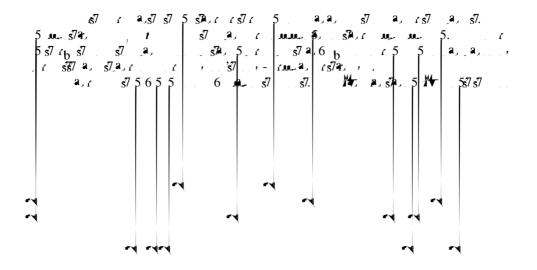
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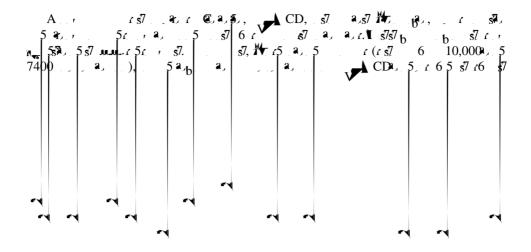
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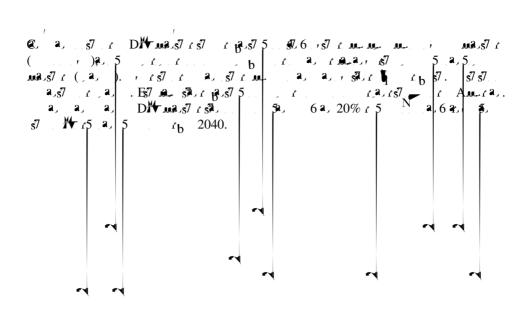
Applying water soft path analysis in small urban areas: four Canadian case studies



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DMa, 5 s7 a. c. s7, 5 c. a. a., s7 c s7 s7 5 6 а, \$7.6. ua.s7 i s7 , 5, 2, (a). 5 **a**, a, 57 1. 5 a, s7 s7 s7 , 5a, a, 375 a, 5 , h s7 s7 . Ba, a, 5 🕻 a, s7 , a , 2 1.11.1 r s7 (') , a, 16. Js7 (a, r а, M.b s7h , 5 a , 615 5, 2, 5 ſ í 16 5 s 1 a, a, s7 11.8.1 а, 76 /s7 ia, í, . s7 : 2, 1 st 1 st, 5 st st; ſ. bŝ ſ s7 а, st **U**.s7 11 :a, 5 s7 B 5 (12, 57 & 12, 57, 2009). а, a, 1 5 ST. ç a, ,a, ſ 2 bry s7 r s7 a, **s**7 a, s7 s7 , s7 , c 72 4 , a st s7 5 a).ra| b a,] , s7 -1 Analysis of soft path potentials Fergus and Elora, Ontario s7 a c c c a, c 5 b Ma, 37a, 5 s7 s7 с с-В_с (2011, s7 6 r C s7 r6, 27 1 \$7 by **a**. 5 А ſ, a. 1. 157 4 í . s7, (a, a, strate 1. (6 a) 1 а, s7 s7 b í I s7 s7 Ċ (C s7. û s≱, í , , **\$**7 E. &, s7 a, æ, a ú s 🖡 þ 6 r a, , **1 U**.-**6** 1 5 s7 r E 🐔 ۶7 s7, s7 a . í a, 37a, ba r s75 a, 57 2040. r 65 5 s7 а, **a** . ۲.s7 b ₹.s7 r a, í. ſ 1.1 1 s7 , s7 , s7 s7 , s7 , c С s75 5 5a, 14, 5 k . --£





- A_{bb} s⁷ τ⁵ s⁷ μ ⁵b s⁷ τ² s⁷ τ s⁷ s⁷ μ s⁷ R. 11. s7 16 a, 's7a, 5a, a, æ, Αı a, . b , a s7 1 s7a, 19,5 's7 a, is7 s7 6 r, s7 a, | s7 i s757 í , . . Ju., 156,000 m³/5, b A₩ С . 1 6 5 s7 11 a, . s7 s7 1 . s7 1 . s7 . 1 . b $140,000 \, \mu^3/5,$ 5 a, a, \$7 P. 1. \$7 . 1 Abb. \$7 . 132. 5 # \$87 DMa, 5 BA| 5 í a, a, r a, 3.

t $A_{bb} = s7 = c52, 5$ $A_{bb} = s7 = c52, 5$ $A_{bb} = s7 = c52, 5$ [m] s7 r m a s7 ra, ms7a, 5 a, s7,a, s7 í a, N a.s7 , 🖡 Ċſ , (**A**_ (\$7. (1157 ar, s7a, **a**), •**1**\$7. **B**, 5 5 . 1.65 a, 18 **s**7 B, м., 'b s 1157 Cr 5 1 s7 cus7a, s7 в ' 🚽 ,a,Na) 5,_b ₩**5**87 a, s7 15 s7 5 Abb s7 í rb 1 s7 5 s7 5 50% а, a <u>.</u>... í **1** 4 57 **s**7 s7 45. **a**, s7 s7 nn i n s7. s7|5 s7 Abb b A_{bb}. s7. 159, 5 60% . s7 st, .€. 1 \$7 50% a, r s7 ₩**5**₹7 ſ а, s7 s₽,b 15 \$7 r s7. a, í **a**, ſ aja, s7. í 10.15. ||A₩ ||s7 5 <u>ر s</u>7 a.⁄b 5_b . 1 A A, 6 г, a <u>.</u> b . ſ. 5 s7 m. s7 . . **A**, ł, ,a, а, м. a,, k **a**, a, 36% 2 rs∰r, 5. 1 **.** 6 \$7 r a, s7, 10% 5 54% s7 . . s7,a , . a, ιí 11-~~~ **a**, *i*, (a) 1 s77 . s7 6 - Ju-s7 a, ŕb _{\$}7, a, s7 mar (a, a, r s7 7**1** a, 285 BA s7. ra, ra, r s7. (a, a, ſ, 5 # s87 4 Abb . \$7. 13 . 5 440 (s7, (a) a, , í s7 162,000 m³/5, 5 st s7 m.s7 c 5 ۲ s7 í a 6 2,, a, s7 291,000 3/5, 2031. **1**, a, , **n**, a, 5 5, a, a, a, С a, rC. \$7 r6, r\$7,6.,\$7,6 59. DŁ , **a**) 5 a, b s7 a, 6) a 5 , a s7 k 2006 (2006) a 6 48% 11 a, s7 6 s7 s7s7 a 6 a. ſ, 2, ſ. **...**-5ь a, s7 🕻 r s7 B. 57 5 ,a, 1.1 1 l¢ **S**, 55 s7 2010, Ş 6 6 Ai b 🕰 .u.,... a_s75 6 Dist a, 1 \$s7 5 **...** Abb \$7 15 ₩\$87 °∕b 3. 2 1 1 \$7 \$7 1 **2**, 1 \$7 u.û. s7 Dis 37 a.c C BÁ \$7 2,1 , f. -1 2051 -1 2031 a, 1 2007 2031 \$ 16 5 132,301 ▲ 254,186 2\$4,179 254 179 $(\mathbf{u}^{3/5})$ 壯 |s7 147,000 141,600 291,800 193,000 - a, a, b a, 97,800 78,200 162,200 132,200 А a, 6 k, 18%40% 1 : Marsa, T AB. , (2009). 5 **۲** MM -1

 $5 \, s^7 \, 5$, $5 \, s^7 \, 6 \, s_1$, $6 \, s_2$, 5, $c \, 5$, $s^7 \, c \, u$ BA $18\%_b 2031$, $a_{,\,tr} \, s^7 \, s^{34}_{,b} \, s^7 \, 5_b \, s^7 \, u \, s_1$, $s^7 \, 5 \, u$ $a_{,c} \, s^7$, $s^7 \, 6$, $a_{,\,tr} \, s^7 \, s^{34}_{,b} \, s^7 \, 5_b \, s^7 \, u \, s_1$, $s^7 \, s_2$, $s^7 \, s^7 \, s_2$, $s^7 \, s^7 \,$ 11 ĥ s7 100,000 m³/5 r m.BA . § s7 s7 |a,b 1.187. 57.15 6 6 s74, 5 , al s7 5 1 s7, Mari A 5 2, 15 **a 2** . s7 (s7. a, a, 11,2,5

s7 a, c f c s7 a bs7 r 5 a a f 40% a, $|a,a,6a,j\rangle$ a, r s7 6 r 24 a, s7 a . 1 s7 s7 **1**, n ć **1** a, 6, a, 50% i 5 57 a, 5 12, 187 s7 а, Ĺ. ĥ s7s7 1 ... - s87 a a a s7h 1.1 a, ca, Di uz st i st a, (6 s7 , 11 - a, 1 . 1 1 r a, . a) 5 s7. - s7 1_{372} , 2_{6} 6 . s7 í M.\$7 a. 6 s7 s7 a, s7 s7 a, 6 6 r. **₹**.\$7 (1 Abb \$7 1\$-₩\$87 A, A, a ... s7 r s7 s7 $a_{a} = s7s7s7$ $m_{b} = 5b = s7s7s7a_{a}s7s7s7$ a, a, . a, _Ba, 757. E6 . 57, a, a, a, 5 s7 5 4₁ a, o ca, cu 2, s7, s7 7s7 5, **2**, s7. 1 2, 55 b s7 s7 587 5 m 6 a ы в 20%. .s7s7 í- s∜ a, | r \$7 \$7 b D a,_b 5 s7 2, 1 s7, 1 s7 m. 5 a, 6 b 1. 1 u.u. a, s7 a, \$7.5 **s**7 a, (5 ί. a a, b 6 a, 56 r s7 ^r s⁷ a_b а, 6 b u. 5 a,37 5) 5 26 b f 2012: / 2,587/ 1 a, -a. 2₃7,5) 1 587-1

6 s7 i i a, i a, i a, s7 5 s7 ib 6, a, ٢, s74, "4, 56 $\mathbf{b}^{\mathbf{r}} \mathbf{5}^{\mathbf{a}}$ 5 14, s7 (2012, s7 a. . .). s7a, 1 (a, s7 . . 1 M., 5 s7 16 s7 s7 a, **7** s7 . . 1 s7 s7 a, r. a, r. 5 ja, \$7. 16, S7. а, ſ s7 (a), 5 r 16 10-a, ca, c a, . . s7 16, **a**, 1 |6 , | 56 , a, r 6. a, r ſ a, 5 \$7 a, s7ac / b f b / . s7 16, a,a, a , _s7 ſ 5a, a, s⁷ <u>ε</u>μι_κa, ..., a, ε... b a, @ a, **\$**7 u.u. a $\begin{bmatrix} ra \\ s \end{bmatrix} = \begin{bmatrix} a \\ b \end{bmatrix} = \begin{bmatrix} a \\ b \end{bmatrix} \begin{bmatrix} a \\ s \end{bmatrix} = \begin{bmatrix} a \\ s \end{bmatrix} \begin{bmatrix} a \\ s \end{bmatrix} = \begin{bmatrix} a \\ s \end{bmatrix} \begin{bmatrix} a \\ s \end{bmatrix} = \begin{bmatrix} a \\$, s s7. s7. 12, \$7 b 1 - \$7 2, 1 . \$7 16, **a**, | , **a**, , 1. s7 0r

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 $b = i^{a} \cdot s^{7} \cdot j^{a} \cdot a^{a} \cdot s^{a}$ a, [] [a, [s7] a, [-s7] a, s7] [a, a, [] 1 🕴 1 🔍 i a, 🚛 b s7, a, c, s7, a, c, s7, a, s7, b) , **X**,

Comparisons with other Canadian cities

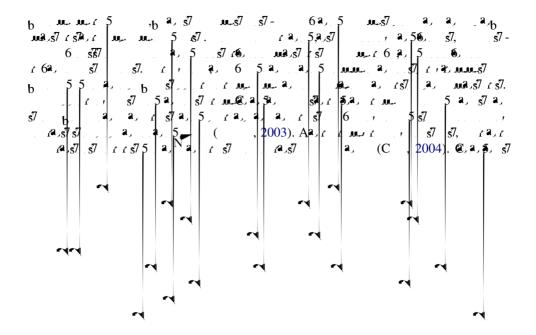
 $\begin{array}{c} \mathbf{m}\mathbf{a}, \mathbf{r} \ \mathbf{s}^{7} \ \mathbf{r} \ \mathbf{s}^{7} \ \mathbf{r} \ \mathbf{s}^{7} \ \mathbf{s}^{$ мался7 с 5 алса, аля7 я7 5 Г. сь. 60% AD 6 r 24 40 a, \$7, s7 а,

- 2051 (1.5%/)a, 5 r s7 **5** a, s7 r. a, . \$7 , \$77 a. 150 c.\$7, c c' s7 , a, a, 15, b 2051 a is7 b 2003 **a**, 5 2015 (0.8%/).
- 2025
- 57 a a a s7 a s7 c a 6 5 € a 1 37 € 1 . . . a, . . . 1 f_{1} and B = 6 f_{1} 2003 (6 $|| s_{1}^{2}$, a_{2} f_{1} , $| & Ba_{2}a_{2} + 5a_{2}$, $| 20 | 4 \rangle$. A . 1 . U. s7. s7. Ab P. a.
 - C S7, ..., 5.). D, S7 C , Bt S7 C $m_{2}^{2}, s7$ $m_{3}^{2}, 57$ $m_{4}^{2}, 57$ $m_{5}^{2}, 6$ $m_{5}^{2}, 157$ $\begin{array}{c} \mathbf{z} \\ \mathbf$
- c a, a, c s7 m b 33% $\begin{array}{c} \mathbf{C} & \mathbf{m}^{2}, \mathbf{p} \in \mathbf{S}' \\ \mathbf{C} & \mathbf{m}^{2}, \mathbf{n} \in \mathbf{S}' \\ \mathbf{C} & \mathbf{m}^{2}, \mathbf{m}^{$

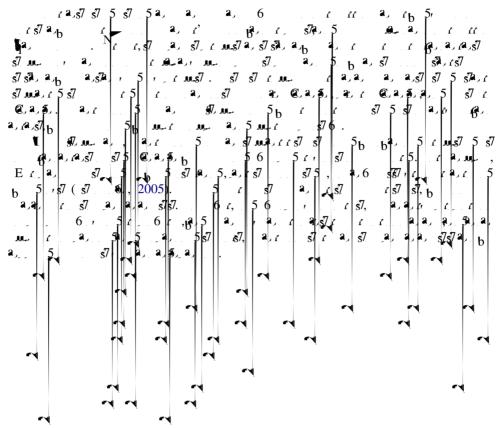
5 s7 c6, 2, s7 5 s7 c fr c 5 2, , 2, 5 . s7a, n A 2. 1 5 s7 @, a, 5a, a, a, o s7 6 a, î a, •\$7 s75151as7b ł 5 AD

a ₁₆ 5.	5 ⁻¹ . s7. a, 6 a, ,	5 , 5 7 (AD).		
		AD r		A a AD r	5
C // /	 572, ()	► D₩		D₩	
C 1 1	32 30 m m	11%* 20%	51% 59%	0.6% 0.7%	1.6% 2.0%
Abb \$7 15 15 87	24 40	18% 12%	40% 61%	 ■ 0.8% 0.3% 	-↓.7% 1.5%

 $T = (AD - AD BA) \times 100/(AD BA \times ...)$ $T = (AD - AD BA) \times 100/(AD BA \times ...)$ a, M). 11



Conclusions



s7 s7 s7 m, 6 r 5b . 12 s7. s72, 5 s7 rAD. References A a 5 s7, 14 s, c E . (2010). Be, 5 s7, 14 s, & c s7, . (2004). ſ. , , 1 ,1 A. A.: 6 57 A. A., 1 <u>r</u>____ 1 E , 2, 6 , 2, . Br: 5 s7, . 1₩., & 149, s7, . (2009). $5 \, s^{-1}$, $5 \, u s^{-1}$; $a \, cs^{-1}$, a, cs^{-1} , a, cs^{-1} , cs^{-1} , 6, ۶۶. ps/, ۲۰۰۰, ۵٬۱۳۶.s/, (2009). ۲۰۰۰ جماعت ال D.B.Br. s7, ۲۰۰۰. Be, 5, 5, & . (_ . . 113 122). (_ -5 : E, r sta. Br 5 \$7, . ₩., ₩9.\$7, ., & ... 57, É. (2006). 1 1 1 1

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