

Appendix B - Implementation Schedule and Costs

All Phases: 2008 - 2012

THE KIRKLAND LAKE TRAIL

May 20 / 08

SW = 1.5m Concrete Sidewalk w/ Curb, PS = Paved Shoulder w/ Painted Line, SR = Signed Route (signs posted every 500m and at junctions), MU = Multi-Use Trail, MU Asphalt = Multi-Use Asphalt Trail, MU Gravel = Multi-Use Gravel / Limestone Screening Trail, MU Wood = Multi-Use Woodchip Trail, MU BW = Multi-Use Boardwalk Trail, RCW = Road Crosswalk Paving Markings w/ Signing as per MTO

Trail Section FROM	TO	Proposed Trail Type	Length (m)	SW length (m)	SW cost @ \$100/m	PS length (m)	PS cost @ \$100/m	SR length (m)	SR cost @ \$3.00/m	MU length (m)	MU Asphalt cost @ \$100/m	MU Gravel cost @ \$75/m	MU Wood cost @ \$35/m	MU BW cost @ \$300/m	Costs	Notes	Phase Total
Phase 1 Kinross Pond (2008 to 2009)	Queen / Forge St.	Northwest Kinross Pond	MU Gravel	540		\$0.00		540	\$1,620.00	540	\$0.00	\$40,500.00	\$0.00	\$0.00			
			Culvert (1)			\$0.00			\$0.00		\$0.00	\$0.00	\$0.00	\$0.00	\$800		
	Northwest Kinross Pond	Highway 66	MU gravel off-road / SR only on Oakes Drive	220		\$0.00		220	\$660.00	220	\$0.00	\$16,500.00	\$0.00	\$0.00		SR on Oakes Drive vs. MU/SR through commercial property = \$16,500 savings	
			Trailhead & Parking			\$0.00			\$0.00			\$0.00	\$0.00	\$0.00	\$40,000.00	bench, waste receptacle, bicycle rack and interpretive trail sign	
			Viewing Platform			\$0.00			\$0.00			\$0.00	\$0.00	\$0.00	\$10,000	includes design, soils analysis, materials and	
			Bollard (2)			\$0.00			\$0.00			\$0.00	\$0.00	\$0.00	\$600	to control trail access	
			Tree Planting (30)			\$0.00			\$0.00			\$0.00	\$0.00	\$0.00	\$15,000	hgt.)	
			Culvert (1)			\$0.00			\$0.00			\$0.00	\$0.00	\$0.00	\$800		
	Southeast Juncture	Northwest Juncture	MU Gravel	470		\$0.00		470	\$1,410.00	470	\$0.00	\$35,250.00	\$0.00	\$0.00			
			Tree Planting (20)			\$0.00			\$0.00			\$0.00	\$0.00	\$0.00	\$10,000	hgt.)	
			Culvert (1)			\$0.00			\$0.00			\$0.00	\$0.00	\$0.00	\$800		
			Retain Wall / Ramp / Rail			\$0.00			\$0.00			\$0.00	\$0.00	\$0.00	\$25,000	provisional item(s) if 3:1 trail side slope cannot be maintained without	
		Bollard (2)			\$0.00			\$0.00			\$0.00	\$0.00	\$0.00	\$600	to control trail access		
															<b>Total Cost Phase 1 with MU Gravel option (between Northwest Kinross Pond &amp; Hwy 66)</b>	<b>\$199,540</b>	
															<b>Total Cost Phase 1 with SR only option (on Oakes Drive)</b>	<b>\$183,040</b>	
Phase 2 Gull Lake West (2009 to 2010)	Hospital Road	Viewing Platform #1	MU Asphalt / **Boardwalk	235		\$0.00		235	\$705.00	235	\$23,500.00	\$0.00	\$0.00	\$70,500.00	MU Asphalt vs. **Boardwalk option = \$47,000 savings		
			Viewing Platform (1)			\$0.00			\$0.00		\$0.00	\$0.00	\$0.00	\$10,000	includes design, soils analysis, materials and		
			Tree Planting (2)			\$0.00			\$0.00		\$0.00	\$0.00	\$0.00	\$1,000	hgt.)		
			Culvert (1)			\$0.00			\$0.00		\$0.00	\$0.00	\$0.00	\$800			
	Viewing Platform #1	Marsh / Wet / Low Area	MU Gravel / Wood	65		\$0.00		65	\$195.00	65	\$0.00	\$4,875.00	\$2,275.00	\$0.00		MU Wood vs. Gravel = \$2,600 savings	
	Marsh / Wet / Low Area	Marsh / Wet / Low Area	Boardwalk	12		\$0.00		12	\$36.00	12	\$0.00	\$0.00	\$0.00	\$3,600.00	Boardwalk calc. for 1.3m width		
	Marsh / Wet / Low Area	Water Treat't Plant	MU Gravel / Wood	555		\$0.00		555	\$1,665.00	555	\$0.00	\$41,625.00	\$19,425.00	\$0.00		MU Wood vs. Gravel = \$22,200 savings	
			Viewing Platform (2)			\$0.00			\$0.00			\$0.00	\$0.00	\$0.00	\$20,000	includes design, soils analysis, materials and	
		Culvert (2)			\$0.00			\$0.00			\$0.00	\$0.00	\$0.00	\$1,600			
	Water Treatment Plant	Dunfield Road	PS	580		\$0.00	580	\$58,000.00	580	\$1,740.00		\$0.00	\$0.00	\$0.00			
			Culvert (2)			\$0.00		\$0.00			\$0.00	\$0.00	\$0.00	\$1,600			
	Dunfield Road		PS	150		\$0.00	150	\$15,000.00	150	\$450.00		\$0.00	\$0.00	\$0.00			
Phase 2 Gull Lake West (2009 to 2010)	Highway 66/Toburn	Dunfield Road	MU Gravel / Wood	885		\$0.00		885	\$2,655.00	885	\$0.00	\$66,375.00	\$30,975.00	\$0.00		MU Wood vs. Gravel = \$35,400 savings	
			RCW (1)			\$0.00			\$0.00		\$0.00	\$0.00	\$0.00	\$1,000			
			Culvert (2)			\$0.00			\$0.00		\$0.00	\$0.00	\$0.00	\$1,600			
	Dunfield Road	Highway 66/Burnside	MU Gravel / Wood	550		\$0.00		550	\$1,650.00	550	\$0.00	\$41,250.00	\$19,250.00	\$0.00		MU Wood vs. Gravel = \$22,000 savings	
			Culvert (2)			\$0.00			\$0.00			\$0.00	\$0.00	\$0.00	\$1,600		
															<b>Total Cost Phase 2 with MU Gravel options (MU BW b/w Hospital Rd. &amp; Viewing Platform not incl.)</b>	<b>\$302,521</b>	
															<b>Total Cost Phase 2 with MU Wood options (MU BW b/w Hospital Rd. &amp; Viewing Platform not incl.)</b>	<b>\$220,321</b>	
Phase 3 Swastika Trail Link (2010 to 2011)	Culver Park, Swastika	Kirkland Lake	PS	6240		\$0.00	6240	\$1,123,200.00	6240	\$18,720.00		\$0.00	\$0.00	\$0.00		co-ordinate construction in conjunction with roadway improvements	
			RCW (7)			\$0.00			\$0.00		\$0.00	\$0.00	\$0.00	\$7,000			
			Railroad Crossing (1)			\$0.00			\$0.00		\$0.00	\$0.00	\$0.00	\$2,000	includes painted stripes/line, crossing gate, signage and rail flange inserts per detail C-1/C-3 in Appendix C		
			Conc. Ped. Crossing (1) (Highway 66/Riverside Drive)			\$0.00			\$0.00		\$0.00	\$0.00	\$0.00	\$9,600	includes concrete surface treatment, curb cuts and signing as per MTO		
		**Sidewalk on Bridge	30	30	\$3,000.00				\$0.00		\$0.00	\$0.00	\$0.00		cost calculated for concrete sidewalk / concrete curb		
Phase 3 "Mile of Gold" (2010 to 2011)	West End (at start of sidewalk)	Al-Wende	SR (South Side)	620		\$0.00		620	\$1,860.00		\$0.00	\$0.00	\$0.00	\$0.00			
	Al-Wende	Toburn	SR (South Side)	2280		\$0.00		2280	\$6,840.00		\$0.00	\$0.00	\$0.00	\$0.00			
	Al-Wende	Toburn	SR (North Side)	2280		\$0.00		2280	\$6,840.00		\$0.00	\$0.00	\$0.00	\$0.00			
			Trailhead			\$0.00			\$0.00			\$0.00	\$0.00	\$0.00	\$30,000	Trailhead with shelter on plaza, bench, waste receptacle, bicycle rack and interpretive trail sign	
			Bollard (2)			\$0.00			\$0.00			\$0.00	\$0.00	\$0.00	\$600		
			Tree Planting (3)			\$0.00			\$0.00			\$0.00	\$0.00	\$0.00	\$1,500	hgt.)	
		Conc. Ped. Crossing (2)			\$0.00			\$0.00			\$0.00	\$0.00	\$0.00	\$19,200	includes concrete surface treatment, curb cuts and signing as per MTO		
		RCW (24)			\$0.00			\$0.00			\$0.00	\$0.00	\$0.00	\$24,000			
															<b>Total Cost Phase 3</b>	<b>\$1,254,360</b>	
Phase 4 Kinross Pond West (2011 to 2012)	West Trail Juncture	South End of Loop	MU Woodchip	455		\$0.00		455	\$1,365.00	455	\$0.00	\$0.00	\$15,925.00	\$0.00			
	South End of Loop	Highway 66	MU Woodchip	770		\$0.00		770	\$2,310.00	770	\$0.00	\$0.00	\$26,950.00	\$0.00			
	Highway 66	West Trail Juncture	MU Woodchip	575		\$0.00		575	\$1,725.00	575	\$0.00	\$0.00	\$20,125.00	\$0.00			
		Culvert (4)			\$0.00			\$0.00			\$0.00	\$0.00	\$0.00	\$3,200			
															<b>Total Cost Phase 4</b>	<b>\$71,600</b>	

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Trail Section	FROM	TO	Proposed Trail Type	Length (m)	SW length (m)	SW cost @ \$100/m	PS length (m)	PS cost @ \$100/m	SR length (m)	SR cost @ \$3.00/m	MU length (m)	MU Asphalt cost @ \$100/m	MU Gravel cost @ \$75/m	MU Wood cost @ \$35/m	MU BW cost @ \$300/m	Costs	Notes	Phase Total
Phase 5 Gull Lake South (2012 to 2013)	Dunfield Road	Allan	MU Gravel / Wood	260		\$0.00		\$0.00	260	\$780.00	260	\$0.00	\$19,500.00	\$9,100.00	\$0.00		MU Wood vs. Gravel = \$10,400 savings	
			RCW (1)			\$0.00		\$0.00		\$0.00		\$0.00	\$0.00	\$0.00	\$0.00	\$1,000		
			Culvert (1)			\$0.00		\$0.00		\$0.00		\$0.00	\$0.00	\$0.00	\$0.00	\$800		
	Allan / Rick's Trail	Balsam	SR	490		\$0.00		\$0.00	490	\$1,470.00		\$0.00	\$0.00	\$0.00	\$0.00			
			RCW (1)			\$0.00		\$0.00		\$0.00		\$0.00	\$0.00	\$0.00	\$0.00	\$1,000		
			Bollard (2)			\$0.00		\$0.00		\$0.00		\$0.00	\$0.00	\$0.00	\$0.00	\$600	to control trail access	
	Community Centre	Ski / Hiking Trail Start	MU Woodchip	200		\$0.00		\$0.00	200	\$600.00	200	\$0.00	\$0.00	\$7,000.00	\$0.00			
			Culvert (1)			\$0.00		\$0.00		\$0.00		\$0.00	\$0.00	\$0.00	\$0.00	\$800		
			Trailhead			\$0.00		\$0.00		\$0.00		\$0.00	\$0.00	\$0.00	\$0.00	\$30,000	Trailhead with shelter on plaza, bench, waste receptacle, bicycle rack and interpretive trail sign	
			Bollard (2)			\$0.00		\$0.00		\$0.00		\$0.00	\$0.00	\$0.00	\$0.00	\$600	to control trail access	
			Tree Planting (3)			\$0.00		\$0.00		\$0.00		\$0.00	\$0.00	\$0.00	\$0.00	\$1,500	hgt.)	
	Blue Loop Section	Blue Loop Section	MU Woodchip	1215		\$0.00		\$0.00	1215	\$3,645.00	1215	\$0.00	\$0.00	\$42,525.00	\$0.00			
			Culvert (3)			\$0.00		\$0.00		\$0.00		\$0.00	\$0.00	\$0.00	\$0.00	\$2,400		
			Retain Wall / Ramp / Rail			\$0.00		\$0.00		\$0.00		\$0.00	\$0.00	\$0.00	\$0.00	\$25,000	provisional item(s) if 3:1 trail side slope cannot be maintained without	
	Yellow Loop Section	Yellow Loop Section	MU Gravel	1605		\$0.00		\$0.00	1605	\$4,815.00	1605	\$0.00	\$120,375.00	\$0.00	\$0.00		suggested bicycle friendly loop	
			Culvert (4)			\$0.00		\$0.00		\$0.00		\$0.00	\$0.00	\$0.00	\$0.00	\$3,200		
			Retain Wall / Ramp / Rail			\$0.00		\$0.00		\$0.00		\$0.00	\$0.00	\$0.00	\$0.00	\$25,000	provisional item(s) if 3:1 trail side slope cannot be maintained without	
	Brown Loop Section	Brown Loop Section	MU Woodchip	1070		\$0.00		\$0.00	1070	\$3,210.00	1070	\$0.00	\$0.00	\$37,450.00	\$0.00			
			Culvert (3)			\$0.00		\$0.00		\$0.00		\$0.00	\$0.00	\$0.00	\$0.00	\$2,400		
			Retain Wall / Ramp / Rail			\$0.00		\$0.00		\$0.00		\$0.00	\$0.00	\$0.00	\$0.00	\$25,000	provisional item(s) if 3:1 trail side slope cannot be maintained without	
Purple Loop Section	Purple Loop Section	MU Woodchip	1125		\$0.00		\$0.00	1125	\$3,375.00	1125	\$0.00	\$0.00	\$39,375.00	\$0.00				
		Culvert (3)			\$0.00		\$0.00		\$0.00		\$0.00	\$0.00	\$0.00	\$0.00	\$2,400			
		Retain Wall / Ramp / Rail			\$0.00		\$0.00		\$0.00		\$0.00	\$0.00	\$0.00	\$0.00	\$25,000	provisional item(s) if 3:1 trail side slope cannot be maintained without		
																<b>Total Cost Phase 5 with MU Gravel options</b>	<b>\$430,820</b>	
																	<b>Total Cost Phase 5 with MU Wood options</b>	<b>\$420,420</b>
Phase 6 Southern Trail Links (2012 to 2013)	Allan / Rick-s Trail	Queen / Forge Street	SR	2370		\$0.00		\$0.00	2370	\$7,110.00		\$0.00	\$0.00	\$0.00	\$0.00			
			RCW (8)			\$0.00		\$0.00		\$0.00		\$0.00	\$0.00	\$0.00	\$0.00	\$8,000		
			Bollards (8)			\$0.00		\$0.00		\$0.00		\$0.00	\$0.00	\$0.00	\$0.00	\$2,400		
																	<b>Total Cost Phase 6</b>	<b>\$17,510</b>
				<b>25847</b>	<b>30</b>	<b>\$3,000.00</b>	<b>6970</b>	<b>\$1,196,200.00</b>	<b>25817</b>	<b>\$77,451.00</b>	<b>10807</b>	<b>\$23,500.00</b>	<b>\$386,250.00</b>	<b>\$270,375.00</b>	<b>\$74,100.00</b>	<b>\$</b>	<b>397,000.00</b>	
				<b>metres</b>	<b>metres</b>		<b>metres</b>		<b>metres</b>		<b>metres</b>							

**Total Cost All Phases with MU Gravel \$2,276,351.00**      **Total Cost All Phases with MU Wood options: \$2,167,251.00**      **MU Wood vs. Gravel options = \$109,100 overall savings**  
 (MU Boardwalk option b/w Hospital Rd. & Viewing Platform not incl.)

**Assumptions**

- Prices in 2008 dollars, and do not include taxes
  - Budget figures reflect basic costs to add the facility only and not additional costs listed in assumption 4 below
  - Does not include costs for property acquisition or utility relocations
  - Other major site specific items (\*\*boardwalk, bridges, \*\*cantilevered bridge trail facility, trail lighting, mid block pedestrian activated signal, etc.) are not included unless stated.
  - Current or future EA costs for road construction projects are not included
- NOTE: All unit prices should be confirmed by Community Services and Works Departments to reflect current local market pricing.