

SCOTTY CREEK

Segment 1

Project:	Sensitive Habitat Inventory and Mapping (SHIM)
Location:	Kelowna, BC
Project No.:	06-054
Prepared for:	City of Kelowna
Prepared by:	Ecoscape Environmental Consultants Ltd.
Drawn by:	RW
Checked by:	KH
Projection:	NAD83-UTM Zone 11
Date:	January, 2007

25 12.5 0 25 50 75 Meters

1:1,500

N
W E
S

LEGEND

- Stream centreline
- Top of bank
- Segment break
- Culvert
- Erosion

Obstruction

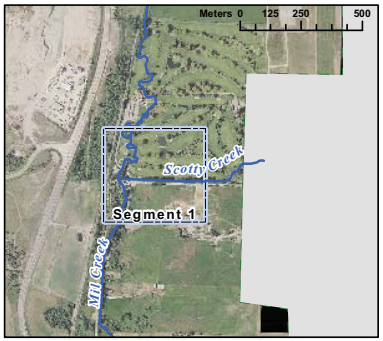
- Beaver dam
- Dam
- Persistent debris

Modification

- Bridge
- Channelization
- Dam / Flood gate
- Fences
- Garbage / Pollution
- Livestock crossing
- Other
- Pipe crossing
- Retain wall / Bank stability
- Rip rap
- Water withdrawal

SOURCE INFORMATION

Base Map:	82E.083 Kelowna
Orthophoto:	2003, provided by City of Kelowna
Stream Information:	Field Inventory
Location Information:	Field, GPS (Trimble GEO XM & XT)
Feature Information:	Field Inventory
Date of Inventory:	2006/11
Inventory Management:	Kyle Hawes, R.P.Bio.



City of Kelowna

ECOSCAPE
Environmental Consultants Ltd.



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Segments 2-3

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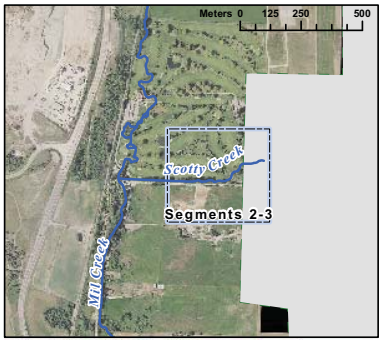
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Scotty Creek
Segment(s): 1 - 3

Segment	Primary	Secondary	Length (m)	Hydraulic	Gradient (%)	Crown Closure	Spawning Habitat	Comment Class
1.0	Channelized		340.111	Riffle/Pool	0.8	21-40%	Potential	Channelized along Bulman Road.
2.0	Modified		103.434	Riffle/Pool	1.5	21-40%	Potential	Shadow Ridge Golf Course
3.0	Modified		196.486	Riffle/Pool	1.5	21-40%	Potential	Shadow Ridge Golf Course

	Substrates (%) [a]						Channel (m)				
Segment	O	F	G	C	B	R	Wetted Width	Bankfull Width	Wetted Depth	Bankfull Depth	Comment Substrates/Channel
1.0	0	20	75	3	2	0	1.80	3.20	0.03	0.35	Low flows with abundant leaf litter accumulation.
2.0	0	5	45	50	0	0	2.10	4.20	0.03	0.35	
3.0	0	5	55	39	1	0	1.80	4.50	0.03	0.30	

a. Substrate codes: O=organics; F=silt/sand; G=gravel; C=cobble; B=boulder; R=bedrock

	Cover (%) [b]								
Segment	Total Cover	B	DP	IV	LWD	OV	SWD	UC	Comment Cover
1.0	5	75	0	0	0	25	0	0	Rip rap bank armouring comprising majority of cover for coarse fish and juvenile salmonids.
2.0	10	15	10	0	25	25	25	0	
3.0	10	20	15	5	10	25	30	0	

b. Cover codes: B=boulder; DP=deep pool; IV=instream vegetation; LWD=large woody debris; OV=overstream vegetation; SWD=small woody debris; UC=undercut bank

	Left Bank Riparian							
Segment	Class	Qualifier	Stage	Shrub cover	Snags	Veteran Trees	Bank stability	Comment
1.0	High Impervious	Urban_Residential			No	No	Low	Areas of previous erosion armoured with rip rap along Bulman Road. Erosion still a problem.
2.0	High Impervious	Urban_Residential			No	No	Low	Similar to segment 1 with less channelization.
3.0	Broadleaf forest	Recreation	young forest	67-100%	No	No	Medium	Mix of natural young stage cottonwood/tall shrub riparian and golf course fairways.

	Right Bank Riparian							
Segment	Class	Qualifier	Stage	Shrub cover	Snags	Veteran Trees	Bank stability	Comment
1.0	Broadleaf forest	Recreation	young forest	34-66%	No	No	Medium	Some armouring where erosion has occurred.
2.0	Broadleaf forest	Recreation	young forest	34-66%	No	No	Medium	Some armouring where erosion has occurred along golf course.
3.0	Herbs/grasses	Recreation	low shrubs <2m	5-33%	No	No	Medium	Predominantly golf course greens and fairways.

Segment	Comment - Flora	Comment - Flora
1.0	Cottonwood;willow;red-osier dogwood;graminoids.	
2.0	Cottonwood;willow;red-osier dogwood;graminoids.	
3.0	Cottonwood;alder;red-osier dogwood;graminoids.	

	Level of Impact [c]		Enhancement Opportunity	
Segment	Rating	Comment	Rating	Comment
1.0	Both_banks_high	Channelized along road ditch.	Moderate	Construct new channel across Bulman Road through field and wetland area to south.
2.0	Both_banks_mod	Intermittent channelization along Bulman Road.	Moderate	Bank stabilization.
3.0	Both_banks_low	Left bank not recently disturbed except for fairway crossings - right bank with greater disturbance.	Low	

c. Impact rating: 6=nil; 5 = 1-bank low; 4 = 1-bank moderate; 3 = 1-bank high; 2 = both banks low; 1 = both banks moderate; 0 = both banks high





