

THOMPSON CREEK

Segments 1-3

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

30 15 0 30 60 90 Meters

1:2,000

N W E S

LEGEND

- Stream centreline
- Segment break
- Culvert

Waterbody

- Ditch

Wetland

- Shallow open water

Modification

- Bridge
- Dam / Flood gate
- Ditch
- Livestock crossing

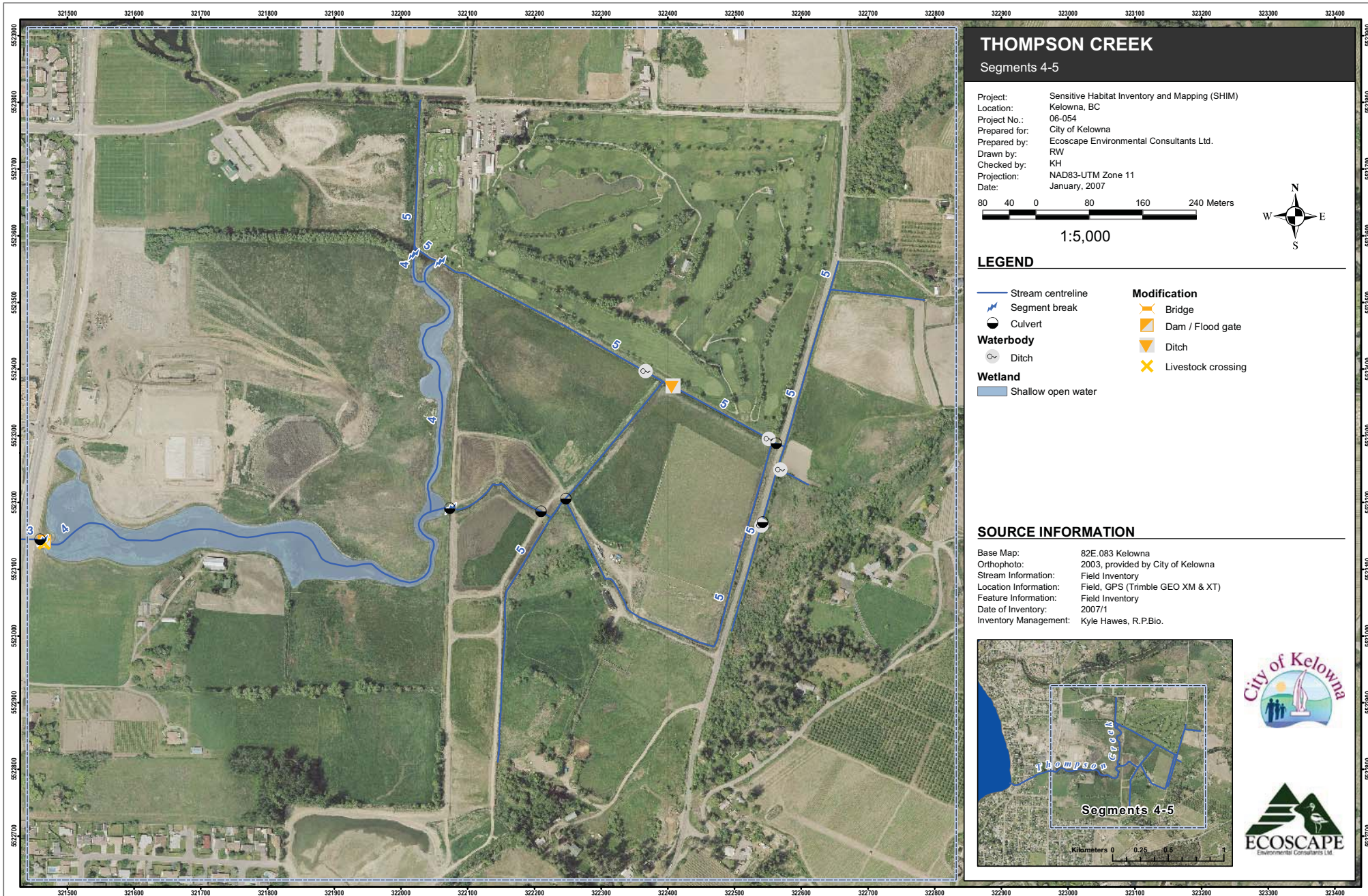
SOURCE INFORMATION

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:	2007/1
Inventory Management:	Kyle Hawes, R.P.Bio.



City of Kelowna

ECOSCAPE Environmental Consultants Ltd.



THOMPSON CREEK

Segments 4-5

Project:	Sensitive Habitat Inventory and Mapping (SHIM)
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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

80 40 0 80 160 240 Meters

1:5,000

N
W E
S

LEGEND

- Stream centreline
- Segment break
- Culvert

Waterbody

- Ditch

Wetland

- Shallow open water

Modification

- Bridge
- Dam / Flood gate
- Ditch
- Livestock crossing

SOURCE INFORMATION

Base Map:	82E.083 Kelowna
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City of Kelowna

ECOSCAPE
Environmental Consultants Ltd.

Thompson Creek
Segment(s): 1 - 3

Segment	Primary	Secondary	Length (m)	Hydraulic	Gradient (%)	Crown Closure	Spawning Habitat	Comment Class
1.0	Modified		103.906	Run	1.0	41-70%	Potential	
2.0	Culvert		148.926	Slough	0.5		Unknown	flume over 40-m at upstream end of segment
3.0	Channelized		179.568	Slough	0.5	41-70%	Unknown	Naturalized channelized stream segment - Cottonwood - red-osier dogwood riparian association.

	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	40	50	10	0	0	1.70	3.80	0.17	0.70	
2.0	0	0	0	0	0	0	0.00	2.50	0.00	0.00	Concrete box culvert
3.0	80	20	0	0	0	0	2.20	2.80	0.45	0.85	Deep detrital material - fibric organic and muck.

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	4	0	0	0	0	50	50	0	
2.0	0	0	0	0	0	0	0	0	
3.0	75	0	20	0	0	60	20	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	Broadleaf forest	Urban_Residential	young forest	34-66%	No	No	Medium	
2.0	High impervious	Urban_Residential			No	No	High	
3.0	Herbs/grasses	Agriculture		<5%	No	No	Medium	

	Right Bank Riparian							
Segment	Class	Qualifier	Stage	Shrub cover	Snags	Veteran Trees	Bank stability	Comment
1.0	Shrubs	Urban_Residential	tall shrubs 2-10m	34-66%	No	No	High	
2.0	High impervious	Urban_Residential			No	No		
3.0	Broadleaf forest	Urban_Residential	young forest	67-100%	No	No	Medium	Cottonwood - red-osier dogwood riparian association.

Segment	Comment - Flora	Comment - Flora
1.0		
2.0		
3.0	Cottonwood; red-osier dogwood; rose; reed canary grass	

	Level of Impact [c]		Enhancement Opportunity	
Segment	Rating	Comment	Rating	Comment
1.0	Both_banks_mod		Moderate	Good base flow affords good opportunities for fish habitat (spawning) enhancemnents.
2.0	Both_banks_high	Box culvert	Low	
3.0	1_bank_high	Field along left bank to top of bank.	Moderate	Left bank riparian restoration.

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


Segment 1


Segment 2


Segment 3

Thompson Creek
Segment(s): 4 and 5

Segment	Primary	Secondary	Length (m)	Hydraulic	Gradient (%)	Crown Closure	Spawning Habitat	Comment Class
4.0	Wetland		1271.991	Slough	0.0		Unknown	Constructed wetland complex
5.0	Ditch		3122.299	Slough	0.3	0	Unknown	Ingrowth/infestation of yellow iris.

	Substrates (%) [a]						Channel (m)				
Segment	O	F	G	C	B	R	Wetted Width	Bankfull Width	Wetted Depth	Bankfull Depth	Comment Substrates/Channel
4.0	70	30	0	0	0	0	60.00	65.00	0.00	1.00	Fibric organic/detritus and muck.
5.0	100	0	0	0	0	0	2.70	3.30	0.00	0.30	Fibric organic/detritus and muck.

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

	Left Bank Riparian							
Segment	Class	Qualifier	Stage	Shrub cover	Snags	Veteran Trees	Bank stability	Comment
4.0	Herbs/grasses	Agriculture	low shrubs	34-66%	No	No	High	
5.0	Herbs/grasses	Agriculture		<5%	No	No	Low	

	Right Bank Riparian							
Segment	Class	Qualifier	Stage	Shrub cover	Snags	Veteran Trees	Bank stability	Comment
4.0	Herbs/grasses	Recreational	low shrubs	34-66%	No	No	Low	walking paths and park.
5.0	Herbs/grasses	Agriculture		<5%	No	No	Low	Golf course and field.

Segment	Comment - Flora	Comment - Flora
4.0	Red-osier dogwood; graminoids; various exotic trees; cottonwood; rose; cattail.	
5.0	Graminoids and invasive forbs.	

	Level of Impact [c]		Enhancement Opportunity	
Segment	Rating	Comment	Rating	Comment
4.0	Both_banks_low	naturalizing - enhanced wetland	low	
5.0	Both_banks_high	Ditched throughout - collecting groundwater from tile drains.	High	Riparian and channel restoration and enhancement. Add sinuosity to channel - structural complexity.

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



