DEWDNEY CREEK AND TRIBUTARIES

Segments 1-4 and Dewdney Creek Tributaries 1-2

Project:	Sensitive Habitat Inventory and Mapping (SHIM)
Location:	Kelowna, BC
Project No.:	08-293
Prepared for:	City of Kelowna
Prepared by:	Ecoscape Environmental Consultants Ltd.
Drawn by:	Robert Wagner
Checked by:	Kyle Hawes
Projection:	NAD83-UTM Zone 11
Date:	February, 2009

40 20 0 40 80 Meters

1:2,000

N W E S

LEGEND

- 99 Segment Number
- Segment Break
- Stream Centreline
- Top of Bank
- Wetland/Low Flood Riparian
- City of Kelowna
- Culvert
- Discharge
- Enhancement
- Erosion

Obstruction

- Beaver Dam
- Dam
- Persistent Debris
- Rock

Modification

- Bridge
- Channelization
- Dam/Flood Gate
- Ditch
- Dock
- Fences
- Garbage/Pollution
- Livestock Crossing
- Other
- Pipe Crossing
- Retain Wall/Bank Stability
- Rip Rap
- Water Withdrawal

Fish Habitat

- Deep Pool
- Instream Vegetation
- Large Woody Debris
- Overstream Vegetation
- Small Woody Debris
- Spawning Habitat
- Undercut Bank

Waterbody

- Discontinued
- Ditch
- Tributary
- Wetland

SOURCE INFORMATION

Base Map:	82E.083 Kelowna
Orthophoto:	2006, provided by City of Kelowna
Stream Information:	Field Inventory
Location Information:	Field, GPS (Trimble GEO XM & XT)
Feature Information:	Field Inventory
Date of Inventory:	2008
Inventory Management:	Kyle Hawes, R.P.Bio.



City of Kelowna

Okanagan Basin WATER BOARD

ECOSCAPE Environmental Consultants Ltd.

Note:
Wetlands/Low Flood Riparian communities are from the 2008 Kelowna Wetland Inventory and Mapping (Ecoscape, 2008).

DEWDNEY CREEK AND TRIBUTARIES

Segments 2-5 and Dewdney Creek Tributaries 1-2

Project:	Sensitive Habitat Inventory and Mapping (SHIM)
Location:	Kelowna, BC
Project No.:	08-293
Prepared for:	City of Kelowna
Prepared by:	Ecoscape Environmental Consultants Ltd.
Drawn by:	Robert Wagner
Checked by:	Kyle Hawes
Projection:	NAD83-UTM Zone 11
Date:	February, 2009

40 20 0 40 80 Meters

1:2,000

N W E S

LEGEND

- 99 Segment Number
- Segment Break
- Stream Centreline
- Top of Bank
- Wetland/Low Flood Riparian
- City of Kelowna
- Culvert
- Discharge
- Enhancement
- Erosion

Obstruction

- Beaver Dam
- Dam
- Persistent Debris
- Rock

Modification

- Bridge
- Channelization
- Dam/Flood Gate
- Ditch
- Dock
- Fences
- Garbage/Pollution
- Livestock Crossing
- Other
- Pipe Crossing
- Retain Wall/Bank Stability
- Rip Rap
- Water Withdrawal

Fish Habitat

- Deep Pool
- Instream Vegetation
- Large Woody Debris
- Overstream Vegetation
- Small Woody Debris
- Spawning Habitat
- Undercut Bank

Waterbody

- Discontinued
- Ditch
- Tributary
- Wetland

SOURCE INFORMATION

Base Map:	82E.083 Kelowna
Orthophoto:	2006, provided by City of Kelowna
Stream Information:	Field Inventory
Location Information:	Field, GPS (Trimble GEO XM & XT)
Feature Information:	Field Inventory
Date of Inventory:	2008
Inventory Management:	Kyle Hawes, R.P.Bio.



City of Kelowna

Okanagan Basin WATER BOARD

ECOSCAPE Environmental Consultants Ltd.

Dewdney Creek Tributary 1

Dewdney Creek Tributary 2

Note:
Wetlands/Low Flood Riparian communities are from the 2008 Kelowna Wetland Inventory and Mapping (Ecoscape, 2008).

GOPHER CREEK

Segment 1

Project:	Sensitive Habitat Inventory and Mapping (SHIM)
Location:	Kelowna, BC
Project No.:	08-293
Prepared for:	City of Kelowna
Prepared by:	Ecoscape Environmental Consultants Ltd.
Drawn by:	Robert Wagner
Checked by:	Kyle Hawes
Projection:	NAD83-UTM Zone 11
Date:	February, 2009

40 20 0 40 80 Meters

1:2,000

N W E S

LEGEND

- 99 Segment Number
- Segment Break
- Stream Centreline
- Top of Bank
- Wetland/Low Flood Riparian
- City of Kelowna
- Culvert
- Discharge
- Enhancement
- Erosion

Obstruction

- Beaver Dam
- Dam
- Persistent Debris
- Rock

Modification

- Bridge
- Channelization
- Dam/Flood Gate
- Ditch
- Dock
- Fences
- Garbage/Pollution
- Livestock Crossing
- Other
- Pipe Crossing
- Retain Wall/Bank Stability
- Rip Rap
- Water Withdrawal

Fish Habitat

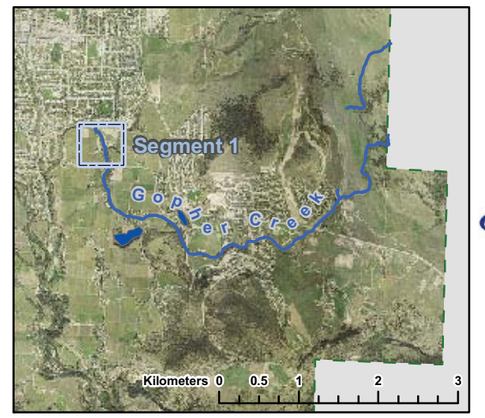
- Deep Pool
- Instream Vegetation
- Large Woody Debris
- Overstream Vegetation
- Small Woody Debris
- Spawning Habitat
- Undercut Bank

Waterbody

- Discontinued
- Ditch
- Tributary
- Wetland

SOURCE INFORMATION

Base Map:	82E.084 Kelowna
Orthophoto:	2006, provided by City of Kelowna
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Location Information:	Field, GPS (Trimble GEO XM & XT)
Feature Information:	Field Inventory
Date of Inventory:	2008
Inventory Management:	Kyle Hawes, R.P.Bio.



City of Kelowna

Okanagan Basin WATER BOARD

ECOSCAPE Environmental Consultants Ltd.

Note:
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GOPHER CREEK

Segment 2

Project:	Sensitive Habitat Inventory and Mapping (SHIM)
Location:	Kelowna, BC
Project No.:	08-293
Prepared for:	City of Kelowna
Prepared by:	Ecoscape Environmental Consultants Ltd.
Drawn by:	Robert Wagner
Checked by:	Kyle Hawes
Projection:	NAD83-UTM Zone 11
Date:	February, 2009

40 20 0 40 80 Meters

1:2,000

N W E S

LEGEND

- 99 Segment Number
- Segment Break
- Stream Centreline
- Top of Bank
- Wetland/Low Flood Riparian
- City of Kelowna
- Culvert
- Discharge
- Enhancement
- Erosion

Obstruction

- Beaver Dam
- Dam
- Persistent Debris
- Rock

Modification

- Bridge
- Channelization
- Dam/Flood Gate
- Ditch
- Dock
- Fences
- Garbage/Pollution
- Livestock Crossing
- Other
- Pipe Crossing
- Retain Wall/Bank Stability
- Rip Rap
- Water Withdrawal

Fish Habitat

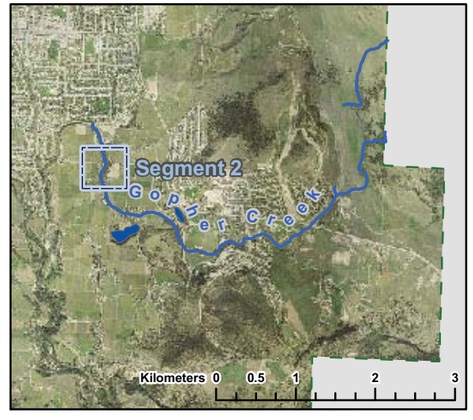
- Deep Pool
- Instream Vegetation
- Large Woody Debris
- Overstream Vegetation
- Small Woody Debris
- Spawning Habitat
- Undercut Bank

Waterbody

- Discontinued
- Ditch
- Tributary
- Wetland

SOURCE INFORMATION

Base Map:	82E.084 Kelowna
Orthophoto:	2006, provided by City of Kelowna
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Location Information:	Field, GPS (Trimble GEO XM & XT)
Feature Information:	Field Inventory
Date of Inventory:	2008
Inventory Management:	Kyle Hawes, R.P.Bio.



City of Kelowna

Okanagan Basin WATER BOARD

ECOSCAPE Environmental Consultants Ltd.

Note:
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GOPHER CREEK

Segment 3

Project:	Sensitive Habitat Inventory and Mapping (SHIM)
Location:	Kelowna, BC
Project No.:	08-293
Prepared for:	City of Kelowna
Prepared by:	Ecoscape Environmental Consultants Ltd.
Drawn by:	Robert Wagner
Checked by:	Kyle Hawes
Projection:	NAD83-UTM Zone 11
Date:	February, 2009

40 20 0 40 80 Meters

1:2,000

N W E S

LEGEND

- 99 Segment Number
- Segment Break
- Stream Centreline
- Top of Bank
- Wetland/Low Flood Riparian
- City of Kelowna
- Culvert
- Discharge
- Enhancement
- Erosion

Obstruction

- Beaver Dam
- Dam
- Persistent Debris
- Rock

Modification

- Bridge
- Channelization
- Dam/Flood Gate
- Ditch
- Dock
- Fences
- Garbage/Pollution
- Livestock Crossing
- Other
- Pipe Crossing
- Retain Wall/Bank Stability
- Rip Rap
- Water Withdrawal

Fish Habitat

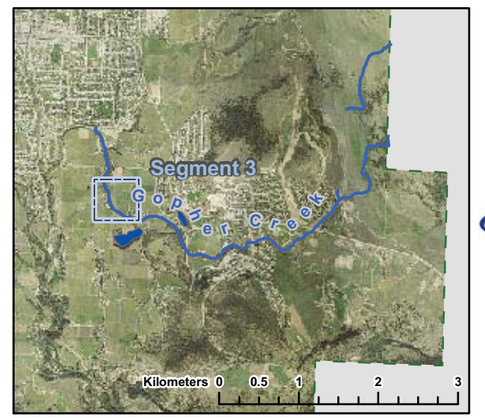
- Deep Pool
- Instream Vegetation
- Large Woody Debris
- Overstream Vegetation
- Small Woody Debris
- Spawning Habitat
- Undercut Bank

Waterbody

- Discontinued
- Ditch
- Tributary
- Wetland

SOURCE INFORMATION

Base Map:	82E.084 Kelowna
Orthophoto:	2006, provided by City of Kelowna
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Feature Information:	Field Inventory
Date of Inventory:	2008
Inventory Management:	Kyle Hawes, R.P.Bio.



City of Kelowna

Okanagan Basin WATER BOARD

ECOSCAPE Environmental Consultants Ltd.

Note:
Wetlands/Low Flood Riparian communities are from the 2008 Kelowna Wetland Inventory and Mapping (Ecoscape, 2008).

328900 328950 329000 329050 329100 329150 329200 329250 329300 329350 329400 329450 329500 329550 329600 329650

5527150 5527100 5527050 5527000 5526950 5526900 5526850 5526800 5526750 5526700

GOPHER CREEK

Segment 4

Project:	Sensitive Habitat Inventory and Mapping (SHIM)
Location:	Kelowna, BC
Project No.:	08-293
Prepared for:	City of Kelowna
Prepared by:	Ecoscape Environmental Consultants Ltd.
Drawn by:	Robert Wagner
Checked by:	Kyle Hawes
Projection:	NAD83-UTM Zone 11
Date:	February, 2009

40 20 0 40 80 Meters

1:2,000

N W E S

LEGEND

- 99 Segment Number
- Segment Break
- Stream Centreline
- Top of Bank
- Wetland/Low Flood Riparian
- City of Kelowna
- Culvert
- Discharge
- Enhancement
- Erosion

Obstruction

- Beaver Dam
- Dam
- Persistent Debris
- Rock

Modification

- Bridge
- Channelization
- Dam/Flood Gate
- Ditch
- Dock
- Fences
- Garbage/Pollution
- Livestock Crossing
- Other
- Pipe Crossing
- Retain Wall/Bank Stability
- Rip Rap
- Water Withdrawal

Fish Habitat

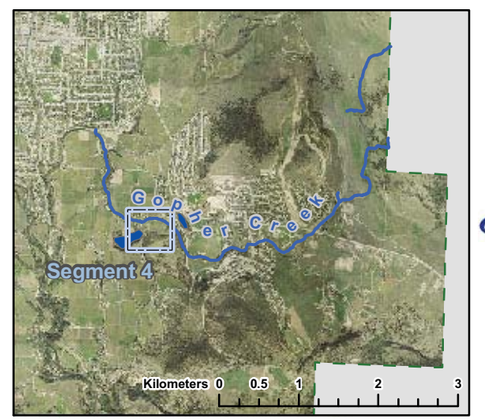
- Deep Pool
- Instream Vegetation
- Large Woody Debris
- Overstream Vegetation
- Small Woody Debris
- Spawning Habitat
- Undercut Bank

Waterbody

- Discontinued
- Ditch
- Tributary
- Wetland

SOURCE INFORMATION

Base Map:	82E.084 Kelowna
Orthophoto:	2006, provided by City of Kelowna
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Location Information:	Field, GPS (Trimble GEO XM & XT)
Feature Information:	Field Inventory
Date of Inventory:	2008
Inventory Management:	Kyle Hawes, R.P.Bio.



City of Kelowna

Okanagan Basin WATER BOARD

ECOSCAPE Environmental Consultants Ltd.

Note:
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GOPHER CREEK

Segments 5-6

Project:	Sensitive Habitat Inventory and Mapping (SHIM)
Location:	Kelowna, BC
Project No.:	08-293
Prepared for:	City of Kelowna
Prepared by:	Ecoscape Environmental Consultants Ltd.
Drawn by:	Robert Wagner
Checked by:	Kyle Hawes
Projection:	NAD83-UTM Zone 11
Date:	February, 2009

40 20 0 40 80 Meters

1:2,000

N W E S

LEGEND

- 99 Segment Number
- Segment Break
- Stream Centreline
- Top of Bank
- Wetland/Low Flood Riparian
- City of Kelowna
- Culvert
- Discharge
- Enhancement
- Erosion

Obstruction

- Beaver Dam
- Dam
- Persistent Debris
- Rock

Modification

- Bridge
- Channelization
- Dam/Flood Gate
- Ditch
- Dock
- Fences
- Garbage/Pollution
- Livestock Crossing
- Other
- Pipe Crossing
- Retain Wall/Bank Stability
- Rip Rap
- Water Withdrawal

Fish Habitat

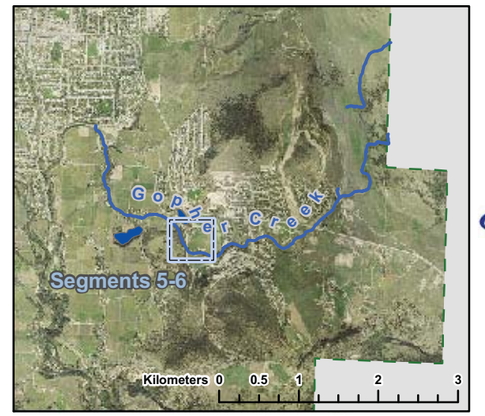
- Deep Pool
- Instream Vegetation
- Large Woody Debris
- Overstream Vegetation
- Small Woody Debris
- Spawning Habitat
- Undercut Bank

Waterbody

- Discontinued
- Ditch
- Tributary
- Wetland

SOURCE INFORMATION

Base Map:	82E.084 Kelowna
Orthophoto:	2006, provided by City of Kelowna
Stream Information:	Field Inventory
Location Information:	Field, GPS (Trimble GEO XM & XT)
Feature Information:	Field Inventory
Date of Inventory:	2008
Inventory Management:	Kyle Hawes, R.P.Bio.



City of Kelowna

Okanagan Basin WATER BOARD

ECOSCAPE Environmental Consultants Ltd.

Note:
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GOPHER CREEK

Segments 6-8

Project:	Sensitive Habitat Inventory and Mapping (SHIM)
Location:	Kelowna, BC
Project No.:	08-293
Prepared for:	City of Kelowna
Prepared by:	Ecoscape Environmental Consultants Ltd.
Drawn by:	Robert Wagner
Checked by:	Kyle Hawes
Projection:	NAD83-UTM Zone 11
Date:	February, 2009

40 20 0 40 80 Meters

1:2,000

N W E S

LEGEND

- 99 Segment Number
- Segment Break
- Stream Centreline
- Top of Bank
- Wetland/Low Flood Riparian
- City of Kelowna
- Culvert
- Discharge
- Enhancement
- Erosion

Obstruction

- Beaver Dam
- Dam
- Persistent Debris
- Rock

Modification

- Bridge
- Channelization
- Dam/Flood Gate
- Ditch
- Dock
- Fences
- Garbage/Pollution
- Livestock Crossing
- Other
- Pipe Crossing
- Retain Wall/Bank Stability
- Rip Rap
- Water Withdrawal

Fish Habitat

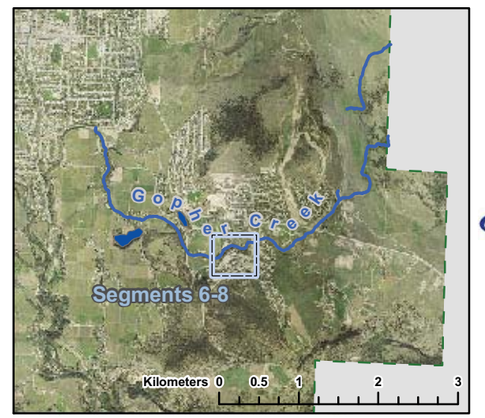
- Deep Pool
- Instream Vegetation
- Large Woody Debris
- Overstream Vegetation
- Small Woody Debris
- Spawning Habitat
- Undercut Bank

Waterbody

- Discontinued
- Ditch
- Tributary
- Wetland

SOURCE INFORMATION

Base Map:	82E.084 Kelowna
Orthophoto:	2006, provided by City of Kelowna
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Location Information:	Field, GPS (Trimble GEO XM & XT)
Feature Information:	Field Inventory
Date of Inventory:	2008
Inventory Management:	Kyle Hawes, R.P.Bio.



City of Kelowna

Okanagan Basin WATER BOARD

ECOSCAPE Environmental Consultants Ltd.

Note:
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GOPHER CREEK

Segment 8 (East)

Project:	Sensitive Habitat Inventory and Mapping (SHIM)
Location:	Kelowna, BC
Project No.:	08-293
Prepared for:	City of Kelowna
Prepared by:	Ecoscape Environmental Consultants Ltd.
Drawn by:	Robert Wagner
Checked by:	Kyle Hawes
Projection:	NAD83-UTM Zone 11
Date:	February, 2009

40 20 0 40 80 Meters

1:2,000

N W E S

LEGEND

- 99 Segment Number
- Segment Break
- Stream Centreline
- Top of Bank
- Wetland/Low Flood Riparian
- City of Kelowna
- Culvert
- Discharge
- Enhancement
- Erosion

Obstruction

- Beaver Dam
- Dam
- Persistent Debris
- Rock

Modification

- Bridge
- Channelization
- Dam/Flood Gate
- Ditch
- Dock
- Fences
- Garbage/Pollution
- Livestock Crossing
- Other
- Pipe Crossing
- Retain Wall/Bank Stability
- Rip Rap
- Water Withdrawal

Fish Habitat

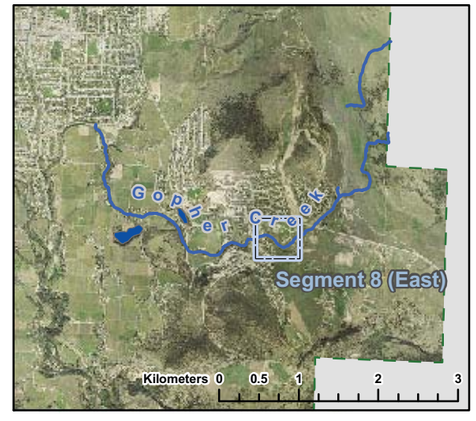
- Deep Pool
- Instream Vegetation
- Large Woody Debris
- Overstream Vegetation
- Small Woody Debris
- Spawning Habitat
- Undercut Bank

Waterbody

- Discontinued
- Ditch
- Tributary
- Wetland

SOURCE INFORMATION

Base Map:	82E.084 Kelowna
Orthophoto:	2006, provided by City of Kelowna
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Location Information:	Field, GPS (Trimble GEO XM & XT)
Feature Information:	Field Inventory
Date of Inventory:	2008
Inventory Management:	Kyle Hawes, R.P.Bio.



City of Kelowna

Okanagan Basin Water Board

ECOSCAPE Environmental Consultants Ltd.

Note:
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GOPHER CREEK

Segments 13-15

Project:	Sensitive Habitat Inventory and Mapping (SHIM)
Location:	Kelowna, BC
Project No.:	08-293
Prepared for:	City of Kelowna
Prepared by:	Ecoscape Environmental Consultants Ltd.
Drawn by:	Robert Wagner
Checked by:	Kyle Hawes
Projection:	NAD83-UTM Zone 11
Date:	February, 2009

40 20 0 40 80 Meters

1:2,000

N W E S

LEGEND

- 99 Segment Number
- Segment Break
- Stream Centreline
- Top of Bank
- Wetland/Low Flood Riparian
- City of Kelowna
- Culvert
- Discharge
- Enhancement
- Erosion

Obstruction

- Beaver Dam
- Dam
- Persistent Debris
- Rock

Modification

- Bridge
- Channelization
- Dam/Flood Gate
- Ditch
- Dock
- Fences
- Garbage/Pollution
- Livestock Crossing
- Other
- Pipe Crossing
- Retain Wall/Bank Stability
- Rip Rap
- Water Withdrawal

Fish Habitat

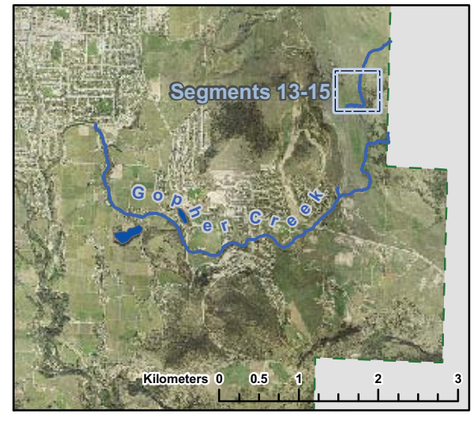
- Deep Pool
- Instream Vegetation
- Large Woody Debris
- Overstream Vegetation
- Small Woody Debris
- Spawning Habitat
- Undercut Bank

Waterbody

- Discontinued
- Ditch
- Tributary
- Wetland

SOURCE INFORMATION

Base Map:	82E.084 Kelowna
Orthophoto:	2006, provided by City of Kelowna
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Location Information:	Field, GPS (Trimble GEO XM & XT)
Feature Information:	Field Inventory
Date of Inventory:	2008
Inventory Management:	Kyle Hawes, R.P.Bio.



City of Kelowna

Okanagan Basin WATER BOARD

ECOSCAPE Environmental Consultants Ltd.

Note:
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GOPHER CREEK

Segments 9-11

Project:	Sensitive Habitat Inventory and Mapping (SHIM)
Location:	Kelowna, BC
Project No.:	08-293
Prepared for:	City of Kelowna
Prepared by:	Ecoscape Environmental Consultants Ltd.
Drawn by:	Robert Wagner
Checked by:	Kyle Hawes
Projection:	NAD83-UTM Zone 11
Date:	February, 2009

40 20 0 40 80 Meters

1:2,000

N W E S

Last 120 Metres of Gopher Creek Segment 11 is shown in Gopher Creek Tributary Segments 1-6.

11

10

8

Note:
Wetlands/Low Flood Riparian communities are from the 2008 Kelowna Wetland Inventory and Mapping (Ecoscape, 2008).

LEGEND

- 99 Segment Number
- Segment Break
- Stream Centreline
- Top of Bank
- Wetland/Low Flood Riparian
- City of Kelowna
- Culvert
- Discharge
- Enhancement
- Erosion

Obstruction
- Beaver Dam
- Dam
- Persistent Debris
- Rock

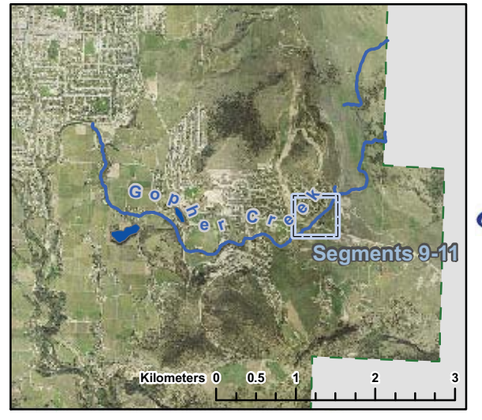
Modification
- Bridge
- Channelization
- Dam/Flood Gate
- Ditch
- Dock
- Fences
- Garbage/Pollution
- Livestock Crossing
- Other
- Pipe Crossing
- Retain Wall/Bank Stability
- Rip Rap
- Water Withdrawal

Fish Habitat
- Deep Pool
- Instream Vegetation
- Large Woody Debris
- Overstream Vegetation
- Small Woody Debris
- Spawning Habitat
- Undercut Bank

Waterbody
- Discontinued
- Ditch
- Tributary
- Wetland

SOURCE INFORMATION

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Feature Information:	Field Inventory
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Inventory Management:	Kyle Hawes, R.P.Bio.



City of Kelowna

Okanagan Basin Water Board

ECOSCAPE Environmental Consultants Ltd.

GOPHER CREEK

Segment 15 (North)

Project:	Sensitive Habitat Inventory and Mapping (SHIM)
Location:	Kelowna, BC
Project No.:	08-293
Prepared for:	City of Kelowna
Prepared by:	Ecoscape Environmental Consultants Ltd.
Drawn by:	Robert Wagner
Checked by:	Kyle Hawes
Projection:	NAD83-UTM Zone 11
Date:	February, 2009

40 20 0 40 80 Meters

1:2,000

N W E S

LEGEND

99 Segment Number
Segment Break
Stream Centreline
Top of Bank
Wetland/Low Flood Riparian
City of Kelowna
Culvert
Discharge
Enhancement
Erosion

Obstruction

Beaver Dam
Dam
Persistent Debris
Rock

Modification

Bridge
Channelization
Dam/Flood Gate
Ditch
Dock
Fences
Garbage/Pollution
Livestock Crossing
Other
Pipe Crossing
Retain Wall/Bank Stability
Rip Rap
Water Withdrawal

Fish Habitat

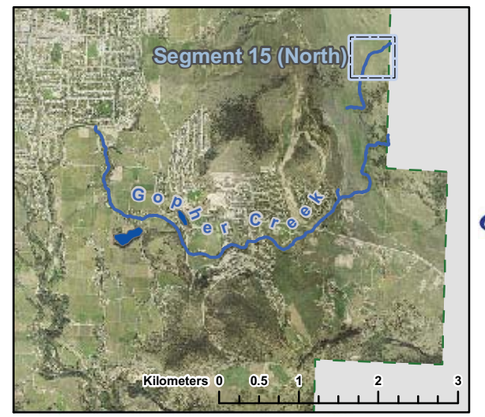
Deep Pool
Instream Vegetation
Large Woody Debris
Overstream Vegetation
Small Woody Debris
Spawning Habitat
Undercut Bank

Waterbody

Discontinued
Ditch
Tributary
Wetland

SOURCE INFORMATION

Base Map:	82E.084 Kelowna
Orthophoto:	2006, provided by City of Kelowna
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Feature Information:	Field Inventory
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City of Kelowna

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ECOSCAPE Environmental Consultants Ltd.

Note:
Wetlands/Low Flood Riparian communities are from the 2008 Kelowna Wetland Inventory and Mapping (Ecoscape, 2008).

GOPHER CREEK TRIBUTARY

Segments 1-6

Project:	Sensitive Habitat Inventory and Mapping (SHIM)
Location:	Kelowna, BC
Project No.:	08-293
Prepared for:	City of Kelowna
Prepared by:	Ecoscape Environmental Consultants Ltd.
Drawn by:	Robert Wagner
Checked by:	Kyle Hawes
Projection:	NAD83-UTM Zone 11
Date:	February, 2009

40 20 0 40 80 Meters

1:2,000

N W E S

LEGEND

- 99 Segment Number
- Segment Break
- Stream Centreline
- Top of Bank
- Wetland/Low Flood Riparian
- City of Kelowna
- Culvert
- Discharge
- Enhancement
- Erosion

Obstruction

- Beaver Dam
- Dam
- Persistent Debris
- Rock

Modification

- Bridge
- Channelization
- Dam/Flood Gate
- Ditch
- Dock
- Fences
- Garbage/Pollution
- Livestock Crossing
- Other
- Pipe Crossing
- Retain Wall/Bank Stability
- Rip Rap
- Water Withdrawal

Fish Habitat

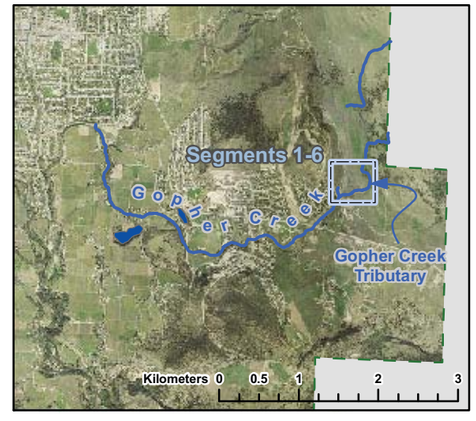
- Deep Pool
- Instream Vegetation
- Large Woody Debris
- Overstream Vegetation
- Small Woody Debris
- Spawning Habitat
- Undercut Bank

Waterbody

- Discontinued
- Ditch
- Tributary
- Wetland

SOURCE INFORMATION

Base Map:	82E.084 Kelowna
Orthophoto:	2006, provided by City of Kelowna
Stream Information:	Field Inventory
Location Information:	Field, GPS (Trimble GEO XM & XT)
Feature Information:	Field Inventory
Date of Inventory:	2008
Inventory Management:	Kyle Hawes, R.P.Bio.



City of Kelowna

Okanagan Basin WATER BOARD

ECOSCAPE Environmental Consultants Ltd.

Note:
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331850 331900 331950 332000 332050 332100 332150 332200 332250 332300 332350 332400 332450 332500 332550 332600

5527350 5527300 5527250 5527200 5527150 5527100 5527050 5527000 5526950 5526900

GOPHER CREEK TRIBUTARY

Segments 7-11

Project:	Sensitive Habitat Inventory and Mapping (SHIM)
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Project No.:	08-293
Prepared for:	City of Kelowna
Prepared by:	Ecoscape Environmental Consultants Ltd.
Drawn by:	Robert Wagner
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Projection:	NAD83-UTM Zone 11
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Fish Habitat

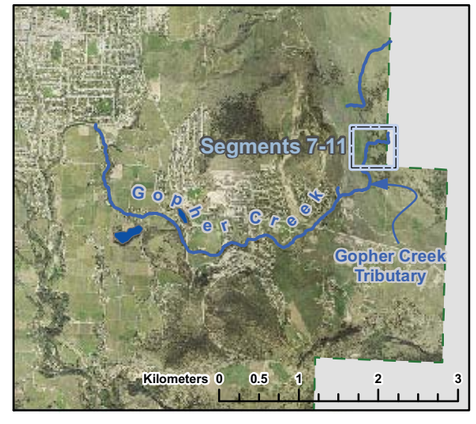
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