Priest Creek
Segment(s): 1

Segment	Primary	Secondary	Length (m)	Hydraulic	Gradient (%)	Crown Closure	Spawning Habitat	Comment Class
1.0	Natural	Wetland	460.801	Wetland	0.0	41-70%	Unknown	Cottonwood Riparian/cottonwood swamp.

	Substrates (%) [a]						Channel (m)				
Segment	O	F	G	C	B	R	Wetted Width	Bankfull Width	Wetted Depth	Bankfull Depth	Comment Substrates/Channel
1.0	100	0	0	0	0	0	20.00	25.00	0.00	0.00	Swamp/wetland complex

a. Substrate codes: O=organics; F=sill/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	80	0	20	0	40	20	20	0	6 LWD pieces/10-m

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	Natural wetland	Natural	mature forest	67-100%	>=5	>=5	High	

	Right Bank Riparian							
Segment	Class	Qualifier	Stage	Shrub cover	Snags	Veteran Trees	Bank stability	Comment
1.0	Natural wetland	Natural	mature forest	67-100%	>=5	>=5	High	

Segment	Comment - Flora	Comment - Flora
1.0	Cottonwood;water birch;alder;dogwood;Douglas maple;horsetail;canary grass;cattail	Great-horned Owl;Black-billed Magpie;Black-capped Chickadee;American Goldfinch

	Level of Impact [c]		Enhancement Opportunity	
Segment	Rating	Comment	Rating	Comment
1.0	Nil		Very_high	remove diking and restore hydrological connection of mission creek with swamp.

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



Priest Creek
Segment(s): 2 - 5

Segment	Primary	Secondary	Length (m)	Hydraulic	Gradient (%)	Crown Closure	Spawning Habitat	Comment Class
2.0	Natural	Braided	260.780	Wetland	0.2	71-90%	Unknown	Wetland complex. Very shallow mainstem clearly floods throughout swamp with many secondary wetted channels evident.
3.0	Modified	Wetland	186.505	Wetland	0.0	1-20%	Unknown	Gas pipeline right of way crosses
4.0	Modified		85.656	Riffle/Pool	3.0	1-20%	Unknown	Open canopy and eroded.
5.0	Modified	Ephemeral	160.433	Riffle/Pool	3.0	21-40%	Unknown	Downcut and erosion common.

	Substrates (%) [a]						Channel (m)				
Segment	O	F	G	C	B	R	Wetted Width	Bankfull Width	Wetted Depth	Bankfull Depth	Comment Substrates/Channel
2.0	50	50	0	0	0	0	0.70	2.00	0.05	0.03	Thicket (alder) swamp.
3.0	100	0	0	0	0	0	0.70	2.00	0.05	0.03	Mixed swamp. Tall shrub/cottonwood association.
4.0	1	24	55	20	0	0	0.30	4.50	0.01	0.35	
5.0	0	20	45	35	0	0	0.00	1.60	0.00	0.30	Rip rap/cobble and gravel dumped into channel to mitigate downcutting and channel erosion.

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
2.0	50	0	0	0	0	90	10	0	
3.0	50	0	0	0	0	100	0	0	Casorso family have observed adfluvial rainbow trout to this segment from Mission Creek.
4.0	0	0	0	0	0	0	0	0	Dry channel
5.0	0	0	0	0	0	0	0	0	Dry channel

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
2.0	Natural wetland	Natural	tall shrubs 2-10m	67-100%	No	No	High	thicket/alder swamp
3.0	Natural wetland	Disturbed	young forest	67-100%	<5	No	High	Mixed tall shrubs, herbaceous communities along gas line ROW, and cottonwood association.
4.0	Herbs/grasses	Agriculture	low shrubs <2m	<5%	No	No	Low	Field/orchard.
5.0	Broadleaf forest	Disturbed	mature forest	<5%	No	No	Low	Rural homestead.

Right Bank Riparian								
Segment	Class	Qualifier	Stage	Shrub cover	Snags	Veteran Trees	Bank stability	Comment
2.0	Natural wetland	Natural	tall shrubs 2-10m	67-100%	No	No	High	
3.0	Natural wetland	Disturbed	young forest	67-100%	<5	No	High	Thicket/alder swamp
4.0	Broadleaf forest	Disturbed	mature forest	5-33%	<5	<5	Low	Mixed tall shrubs, herbaceous communities along gas line ROW, and cottonwood association.
5.0	Broadleaf forest	Disturbed	mature forest	<5%	No	No	Low	Open adjacent channel.

Segment	Comment - Flora	Comment - Flora
2.0	Alder; canary grass;nettle;skunk cabbage;red-osier dogwood.	Black-billed Magpie;Black-capped Chickadee;American Goldfinch
3.0	Cottonwood;alder;red-osier dogwood;nettle.	
4.0	Cottonwood;grasses;scirpus;willow.	
5.0	Cottonwood; turf grass.	

	Level of Impact [c]		Enhancement Opportunity	
Segment	Rating	Comment	Rating	Comment
2.0	Nil		Nil	leave alone
3.0	Nil		Nil	
4.0	Both_banks_mod		High	Riparian and channel restoration.
5.0	Both_banks_mod		High	Riparian restoration and bank 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





City of Kelowna

ECOSCAPE Environmental Consultants Ltd.

Priest Creek
Segment(s): 6 - 7

Segment	Primary	Secondary	Length (m)	Hydraulic	Gradient (%)	Crown Closure	Spawning Habitat	Comment Class
6.0	Modified	Ephemeral	293.937	Riffle/Pool	2.5	21-40%	Unknown	Historic channelization through property. Agricultural and rural encroachment on both banks. Shrub canopy.
7.0	Modified		538.740	Riffle/Pool	3.5	71-90%	Unknown	Modified right bank. Regular agricultural and industrial encroachment to top of bank. Shrub canopy

	Substrates (%) [a]						Channel (m)				
Segment	O	F	G	C	B	R	Wetted Width	Bankfull Width	Wetted Depth	Bankfull Depth	Comment Substrates/Channel
	0	5	45	50	0	0	0.00	2.50	0.00	0.30	
	0	5	35	60	0	0	0.70	1.10	0.05	0.30	Down-cut channel.

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
	60	0	0	0	0	100	0	0	Dense over stream vegetation with minimal instream structural complexity. Frequented by fish.
	40	10	0	0	0	90	0	0	Dense shrub overstream vegetation but little instream habitat complexity.

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
	Shrubs	Disturbed	low shrubs <2m	67-100%	No	No	Low	Variable erosion along entire segment length.
	Shrubs	Disturbed	tall shrubs 2-10m	67-100%	No	No	Low	Narrow riparian band from historic channelization and industrial encroachment.

	Right Bank Riparian							
Segment	Class	Qualifier	Stage	Shrub cover	Snags	Veteran Trees	Bank stability	Comment
	Shrubs	Disturbed	tall shrubs 2-10m	67-100%	No	No	Low	Variable erosion along entire segment length.
	Mixed forest	Disturbed	sapling >10m	67-100%	No	No	Low	Mixed cottonwood sapling, tall shrub, and open pine grassland (further up slope).

Segment	Comment - Flora	Comment - Flora
	Rose;alder;red-osier dogwood;sow thistle;chicory;curly dock;snowberry;canary grass.	
	Cottonwood; rose; snowberry;hawthorn;alder;chokecherry;ponderosa pine;red-osier dogwood.	

	Level of Impact [c]		Enhancement Opportunity	
Segment	Rating	Comment	Rating	Comment
	Both_banks_mod	Dense shrub thicket maintains some ecological integrity.	High	Riparian and stream channel restoration.
	Both_banks_low	Low right bank impacts and high left bank disturbance.	Very_high	Good base flows for in stream fish habitat improvements and riparian restoration/reclamation.

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





City of Kelowna

ECOSCAPE Environmental Consultants Ltd.

Priest Creek
Segment(s): 8

Segment	Primary	Secondary	Length (m)	Hydraulic	Gradient (%)	Crown Closure	Spawning Habitat	Comment Class
8.0	Modified		475.143	Riffle/Pool	3.5	21-40%	Potential	Occasional left bank encroachment (gun club). Open left bank canopy resulting in dense shrub stratum.

	Substrates (%) [a]						Channel (m)				
Segment	O	F	G	C	B	R	Wetted Width	Bankfull Width	Wetted Depth	Bankfull Depth	Comment Substrates/Channel
8.0	0	20	65	15	0	0	1.90	2.80	0.08	0.30	

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

	Cover (%) [b]								
Segment	Total Cover	B	DP	IV	LWD	OV	SWD	UC	Comment Cover
8.0	50	5	5	0	10	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
8.0	Mixed forest	Disturbed	young forest	67-100%	<5	<5	Medium	Intermittent encroachment (berming from riffle range).

	Right Bank Riparian							
Segment	Class	Qualifier	Stage	Shrub cover	Snags	Veteran Trees	Bank stability	Comment
8.0	Mixed forest	Natural	mature forest	67-100%	>=5	<5	Medium	

Segment	Comment - Flora	Comment - Flora
8.0	Cottonwood;fir,ponderosa pine;alder;rose;snowberry;water birch;red-osier dogwood;hawthorn.	

	Level of Impact [c]		Enhancement Opportunity	
Segment	Rating	Comment	Rating	Comment
8.0	1_bank_low	Rifle range.	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



Priest Creek
Segment(s): 9

Segment	Primary	Secondary	Length (m)	Hydraulic	Gradient (%)	Crown Closure	Spawning Habitat	Comment Class
9.0	Natural		1134.357	Riffle/Pool	6.0	>90%	Potential	Ravine with mixed riffle pool and short cascades.

	Substrates (%) [a]						Channel (m)				
Segment	O	F	G	C	B	R	Wetted Width	Bankfull Width	Wetted Depth	Bankfull Depth	Comment Substrates/Channel
9.0	1	15	60	15	9	0	1.50	2.10	0.08	0.40	

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
9.0	60	10	5	0	25	35	25	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
9.0	Mixed forest	Natural	mature forest	67-100%	>=5	>=5	Medium	Ravine

	Right Bank Riparian							
Segment	Class	Qualifier	Stage	Shrub cover	Snags	Veteran Trees	Bank stability	Comment
9.0	Mixed forest	Natural	mature forest	67-100%	>=5	>=5	Medium	Ravine.

Segment	Comment - Flora	Comment - Flora
9.0	Cottonwood;fir;water birch;alder;red-osier dogwood;hawthorn;snowberry;Oregon grape.	

	Level of Impact [c]		Enhancement Opportunity	
Segment	Rating	Comment	Rating	Comment
9.0	Nil		Nil	

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



Priest Creek
Segment(s): 10 - 11

Segment	Primary	Secondary	Length (m)	Hydraulic	Gradient (%)	Crown Closure	Spawning Habitat	Comment Class
10.0	Natural		357.149	Riffle/Pool	3.0	71-90%	Potential	Upper ravine - cottonwood riparian. Sinuous meandering through mature cottonwood riparian association.
11.0	Modified		331.012	Riffle/Pool	1.5	41-70%	Potential	

	Substrates (%) [a]						Channel (m)				
Segment	O	F	G	C	B	R	Wetted Width	Bankfull Width	Wetted Depth	Bankfull Depth	Comment Substrates/Channel
10.0	1	18	60	20	1	0	1.50	3.00	0.08	0.40	
11.0	5	35	50	10	0	0	1.50	2.20	0.08	0.25	

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
10.0	75	5	10	0	10	35	40	0	
11.0	35	1	14	0	5	30	10	40	

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
10.0	Broadleaf forest	Natural	mature forest	67-100%	>=5	>=5	Medium	Cotton riparian association.
11.0	Broadleaf forest	Agriculture	young forest	34-66%	<5	No	Low	Mixed broadleaf forest/rural encroachment.

	Right Bank Riparian							
Segment	Class	Qualifier	Stage	Shrub cover	Snags	Veteran Trees	Bank stability	Comment
10.0	Broadleaf forest	Natural	mature forest	67-100%	>=5	>=5	Medium	Cottonwood riparian association.
11.0	Broadleaf forest	Agriculture	young forest	34-66%	<5	No	Low	Mixed broadleaf forest/rural encroachment.

Segment	Comment - Flora	Comment - Flora
10.0	Cottonwood;alder;red-osier dogwood;water birch;willow sp.	
11.0	Cottonwood;douglas maple;red-osier dogwood;rose;snowberry.	Rainbow trout

	Level of Impact [c]		Enhancement Opportunity	
Segment	Rating	Comment	Rating	Comment
10.0	Nil	Minor disturbance at upstream end of segment.	Nil	
11.0	Both_banks_low	Rural and agricultural encroachment.	Moderate	Bank stabilization and right 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





Priest Creek
Segment(s): 12 - 14

Segment	Primary	Secondary	Length (m)	Hydraulic	Gradient (%)	Crown Closure	Spawning Habitat	Comment Class
12.0	Modified		138.347	Riffle/Pool	1.5	0	Unknown	
13.0	Natural		137.161	Riffle/Pool	0.8	71-90%	Potential	
14.0	Modified		419.906	Riffle/Pool	1.0	41-70%	Potential	Right bank encroachment and high bank instability and erosion.

	Substrates (%) [a]						Channel (m)				
Segment	O	F	G	C	B	R	Wetted Width	Bankfull Width	Wetted Depth	Bankfull Depth	Comment Substrates/Channel
12.0	5	65	20	10	0	0	1.50	2.30	0.08	0.25	
13.0	5	90	5	0	0	0	1.70	2.30	0.10	0.30	
14.0	5	90	5	1	0	0	1.70	3.00	0.10	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
12.0	5	60	30	0	0	10	0	0	
13.0	50	0	5	0	5	20	10	60	
14.0	55	0	5	0	5	20	40	30	

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
12.0	Herbs/grasses	Agriculture	low shrubs <2m	<5%	No	No	Medium	
13.0	Broadleaf forest	Natural	young forest	67-100%	<5	<5	Low	
14.0	Broadleaf forest	Disturbed	sapling >10m	67-100%	No	No	Low	

	Right Bank Riparian							
Segment	Class	Qualifier	Stage	Shrub cover	Snags	Veteran Trees	Bank stability	Comment
12.0	Herbs/grasses	Agriculture	low shrubs <2m	5-33%	No	No	Medium	
13.0	Broadleaf forest	Natural	young forest	67-100%	<5	<5	Low	
14.0	Herbs/grasses	Disturbed	low shrubs <2m	5-33%	No	No	Low	Prolific bank erosion.

Segment	Comment - Flora	Comment - Flora
12.0	Invasive forbs;willowherb;graminoids.	
13.0	Cottonwood;Oregon grape;snoewberry;water birch;red-osier dogwood;rose.	
14.0	Water birch;cottonwood;hawthorn;rose;snowberry;nightshade;alder;red-osier dogwood.	

	Level of Impact [c]		Enhancement Opportunity	
Segment	Rating	Comment	Rating	Comment
12.0	Both_banks_mod	Agriculture	Moderate	Riparian and stream channel restoration/enhancement.
13.0	Nil	Not recently disturbed.	Nil	
14.0	Both_banks_low	Natural meander within agricultural encroachment to top of bank and serious bank erosion.	High	Re slope/reclaim right bank riparian band.

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







Priest Creek and Casorso Creek
Segment(s): 15 - 16, Casorso Creek Segment 1

Segment	Primary	Secondary	Length (m)	Hydraulic	Gradient (%)	Crown Closure	Spawning Habitat	Comment Class
1.0	Natural		518.169	Wetland	1.0	41-70%	Unknown	
15.0	Natural		196.338	Riffle/Pool	1.0	71-90%	Unknown	
16.0	Modified		628.796	Riffle/Pool	3.0	71-90%	Unknown	Predominant narrow, natural riparian band with intermittent encroachment to top of bank and erosion.

	Substrates (%) [a]						Channel (m)				
Segment	O	F	G	C	B	R	Wetted Width	Bankfull Width	Wetted Depth	Bankfull Depth	Comment Substrates/Channel
1.0	100	0	0	0	0	0	1.30	1.60	0.09	0.30	
15.0	5	90	5	0	0	0	1.30	1.60	0.09	0.30	
16.0	0	45	39	15	1	0	1.10	3.40	0.05	0.20	

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	20	0	10	0	10	30	10	40	Reduced instream structural complexity.
15.0	20	0	10	0	10	30	10	40	Reduced instream structural complexity.
16.0	30	0	30	0	0	40	10	20	Rearing habitat.

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	Natural	young forest	67-100%	>=5	>=5	Low	Patchy mature and veteran cottonwood super canopy over cottonwood sapling and tall shrub canopy.
15.0	Broadleaf forest	Natural	young forest	67-100%	>=5	>=5	Low	Patchy mature and veteran cottonwood super canopy over cottonwood sapling and tall shrub canopy.
16.0	Broadleaf forest	Natural	young forest	67-100%	<5	>=5	Medium	Cottonwood veterans. Intermittent rural/agricultural encroachment.

	Right Bank Riparian							
Segment	Class	Qualifier	Stage	Shrub cover	Snags	Veteran Trees	Bank stability	Comment
1.0	Broadleaf forest	Natural	young forest	67-100%	>=5	>=5	Low	Patchy mature and veteran cottonwood super canopy over cottonwood sapling and tall shrub canopy.
15.0	Broadleaf forest	Natural	young forest	67-100%	>=5	>=5	Low	Patchy mature and veteran cottonwood super canopy over cottonwood sapling and tall shrub canopy.
16.0	Broadleaf forest	Natural	young forest	67-100%	<5	>=5	Medium	Cottonwood veterans. Intermittent rural/agricultural encroachment.

Segment	Comment - Flora	Comment - Flora
1.0		
15.0		
16.0	Cottonwood;rose;red-osier dogwood;snowberry;Oregon grape.	White-tail deer;Red-tailed hawk.

	Level of Impact [c]		Enhancement Opportunity	
Segment	Rating	Comment	Rating	Comment
1.0	Nil		Low	
15.0	Nil		Low	
16.0	1_bank_low	Intermittent encroachment into riparian band.	Moderate	Establish adequate setbacks.

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


Priest Cr.— Segment 15


Priest Cr.— Segment 16


Casorso Creek—Segment 1

Priest Creek and Casorso Creek
Segment(s): 17, Casorso Creek Segment 2

Segment	Primary	Secondary	Length (m)	Hydraulic	Gradient (%)	Crown Closure	Spawning Habitat	Comment Class
2.0	Modified		409.162	Riffle/Pool	2.0	1-20%	Unknown	Agricultural/livestock alteration.
17.0	Modified		307.809	Riffle/Pool	3.0	71-90%	Potential	Understory disturbance from livestock access - poorly developed shrub stratum.

	Substrates (%) [a]						Channel (m)				
Segment	O	F	G	C	B	R	Wetted Width	Bankfull Width	Wetted Depth	Bankfull Depth	Comment Substrates/Channel
2.0	1	79	15	5	0	0	1.80	2.70	0.00	0.00	
17.0	0	5	80	15	0	0	0.90	3.30	0.02	0.20	

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
2.0	0	0	0	0	0	0	0	0	
17.0	5	0	50	0	0	0	10	40	

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
2.0	Herbs/grasses	Agriculture	young forest	<5%	>=5	<5	Medium	Predominantly graminoids/field with discontinuous,narrow cottonwood canopy.
17.0	Broadleaf forest	Disturbed	mature forest	<5%	No	<5	Medium	Mature cottonwood canopy with open, poorly developed understory.

Right Bank Riparian								
Segment	Class	Qualifier	Stage	Shrub cover	Snags	Veteran Trees	Bank stability	Comment
2.0	Herbs/grasses	Agriculture	young forest	<5%	<5	No	Medium	Predominantly graminoids/field with discontinuous,narrow cottonwood canopy.
17.0	Broadleaf forest	Disturbed	mature forest	<5%	No	<5	Medium	Mature cottonwood canopy with open, poorly developed understory.

Segment	Comment - Flora	Comment - Flora
2.0	Cottonwood;graminoids;invasive forbs.	
17.0	Cottonwood;waterbirch;graminoids.	

	Level of Impact [c]		Enhancement Opportunity	
Segment	Rating	Comment	Rating	Comment
2.0	Both_banks_mod	Agricultural/livestock disturbance and riparian removal.	High	Livestock access management and riparian restoration.
17.0	Both_banks_low	Cleared understory - livestock access	Moderate	Limit livestock access to permit riparian regeneration.

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


Priest Cr. — Segment 17


Casorso Cr. — Segment 2

Priest Creek and Casorso Creek
Segment(s): 18, Casorso Creek Segments 3 - 5

Segment	Primary	Secondary	Length (m)	Hydraulic	Gradient (%)	Crown Closure	Spawning Habitat	Comment Class
3.0	Modified		225.575	Riffle/Pool	2.5	71-90%	Unknown	Rural modification through cottonwood riparian association - filling, encroachment, and pollution.
4.0	Natural		131.477	Cascade	9.0	>90%	Unknown	Ravine/gully.
5.0	Modified	Wetland	132.257	Wetland	0.5	>90%	Unknown	Disturbed cottonwood/aspen riparian association.
18.0	Modified		261.700	Riffle/Pool	3.5	71-90%	Unknown	Significant channel erosion and downcutting.

	Substrates (%) [a]						Channel (m)				
Segment	O	F	G	C	B	R	Wetted Width	Bankfull Width	Wetted Depth	Bankfull Depth	Comment Substrates/Channel
3.0	5	80	10	5	0	0	0.30	2.60	0.01	0.15	Discontinuous wetted sections - defined channel throughout.
4.0	20	55	15	10	0	0	0.60	1.50	0.03	0.15	Oragnic/muck occurring in level benches through gully.
5.0	60	40	0	0	0	0	0.00	1.50	0.00	1.00	Channel poorly defined through much of riparian association - more prominent at bottom of segment.
18.0	0	5	25	69	1	0	0.90	3.30	0.02	0.20	

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
3.0	0	0	0	0	0	0	0	0	
4.0	0	0	0	0	0	0	0	0	
5.0	0	0	0	0	0	0	0	0	
18.0	5	60	10	0	10	10	10	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
3.0	Broadleaf forest	Disturbed	mature forest	67-100%	>=5	<5	Low	Rural (mobile home park) encroachments and pollution.
4.0	Mixed forest	Natural	mature forest	67-100%	<5	<5	Medium	Ravine.
5.0	Broadleaf forest	Disturbed	young forest	67-100%	<5	No	High	Riparian bench area.
18.0	Broadleaf forest	Disturbed	young forest	67-100%	No	No	Low	Significant bank erosion.

Right Bank Riparian								
Segment	Class	Qualifier	Stage	Shrub cover	Snags	Veteran Trees	Bank stability	Comment
3.0	Broadleaf forest	Disturbed	mature forest	67-100%	>=5	<5	Low	Rural (mobile home park) encroachments and pollution.
4.0	Mixed forest	Natural	mature forest	67-100%	<5	<5	Medium	Ravine
5.0	Broadleaf forest	Disturbed	young forest	67-100%	<5	No	High	Riparian bench area.
18.0	Broadleaf forest	Disturbed	young forest	67-100%	No	No	Low	Significant bank erosion.

Segment	Comment - Flora	Comment - Flora
3.0	Cottonwood;water birch;Douglas maple;red-osier dogwood;nightshade;Himalayan blackberry.	
4.0	Cottonwood;cedar;fir;water birch;Douglas maple;red-osier dogwood.	
5.0	Cottonwood;aspen;red-osier dogwood.	
18.0	Cottonwood saplings;water birch;Oregon grape;red-osier dogwood;rose;snowberry;fir.	

	Level of Impact [c]		Enhancement Opportunity	
Segment	Rating	Comment	Rating	Comment
3.0	1_bank_low		High	Remove garbage/debris from channel and collapsed culverts/fill. Remove Himalyan Blackberry.
4.0	Nil		Low	Preserve ravine including setback from top of bank.
5.0	1_bank_low	Agicultural.	Low	
18.0	1_bank_low	Intermittent encroachment into riparian to top of bank - rural agricultural.	Moderate	

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



City of Kelowna

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Priest Creek
Segment(s): 19 - 20

Segment	Primary	Secondary	Length (m)	Hydraulic	Gradient (%)	Crown Closure	Spawning Habitat	Comment Class
19.0	Natural		237.669	Riffle/Pool	3.0	>90%	Unknown	Rural encroachment in left bank riparian area (canopy tree removal.
20.0	Natural		504.872	Riffle/Pool	3.0	>90%	Unknown	Ravine/natural mature mixed wood riparian association

	Substrates (%) [a]						Channel (m)				
Segment	O	F	G	C	B	R	Wetted Width	Bankfull Width	Wetted Depth	Bankfull Depth	Comment Substrates/Channel
19.0	0	5	25	69	1	0	0.90	2.60	0.05	0.25	
20.0	0	5	25	69	1	0	0.90	2.60	0.05	0.25	

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
19.0	30	20	20	0	10	10	20	20	
20.0	30	20	20	0	10	10	20	20	

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
19.0	Mixed forest	Natural	mature forest	67-100%	>=5	>=5	Low	Cottonwood;fir;cedar canopy and well developed understory/shrub stratum.
20.0	Mixed forest	Natural	mature forest	67-100%	>=5	>=5	Low	Cottonwood;fir;cedar canopy and well developed understory/shrub stratum.

Right Bank Riparian								
Segment	Class	Qualifier	Stage	Shrub cover	Snags	Veteran Trees	Bank stability	Comment
19.0	Mixed forest	Natural	mature forest	67-100%	>=5	>=5	Low	Ravine slope along right bank - Cottonwood;fir;cedar canopy and well developed shrub stratum.
20.0	Mixed forest	Natural	mature forest	67-100%	>=5	>=5	Low	Ravine - well developed shrub stratum.

Segment	Comment - Flora	Comment - Flora
19.0	Cottonwood;cedar;fir;water birch;alder;red-osier dogwood;Oregon grape;snowberry.	
20.0	Cottonwood;cedar;fir;water birch;alder;red-osier dogwood;Oregon grape;snowberry.	

	Level of Impact [c]		Enhancement Opportunity	
Segment	Rating	Comment	Rating	Comment
19.0	1_bank_low	Disturbance at bottom of segment.	Low	
20.0	1_bank_low	Disturbance at bottom of segment.	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



Casorso Creek
Segment(s): 6 - 8

Segment	Primary	Secondary	Length (m)	Hydraulic	Gradient (%)	Crown Closure	Spawning Habitat	Comment Class
6.0	Natural	Wetland	84.357	Wetland	0.0	71-90%	Unknown	Cottonwood-dogwood riparian/swamp intermittent open watter and defined channel through wetland.
7.0	Modified		150.864	Slough	0.0	0	Unknown	Cleared riparian/wetland gully
8.0	Modified	Wetland	235.613	Slough	0.0	>90%	Unknown	

	Substrates (%) a						Channel (m)				
Segment	O	F	G	C	B	R	Wetted Width	Bankfull Width	Wetted Depth	Bankfull Depth	Comment Substrates/Channel
6.0	100	0	0	0	0	0	1.00	5.00	0.00	0.10	High water likely floods entire riparian/swamp area.
7.0	80	20	0	0	0	0	1.00	3.00	0.00	0.10	Discsontinuous channel. Intermittent open water with slow-moving flows.
8.0	100	0	0	0	0	0	1.20	2.00	0.00	0.00	Intermittent well defined flowing channel through thicket swamp and cottonwood asso-caition.

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 stabil-ity	Comment
6.0	Natural wetland	Natural	young forest	67-100%	<5	<5	High	Cottonwood-red-osierd dogwood riparian gully/wetland.
7.0	Disturbed wetland	Disturbed	low shrubs <2m	<5%	No	No	High	Cleared ripariain gully/swamp association.
8.0	Natural wetland	Natural	young forest	67-100%	>=5	<5	High	Riparian/wetland.

	Right Bank Riparian							
Segment	Class	Qualifier	Stage	Shrub cover	Snags	Veteran Trees	Bank stabil-ity	Comment
6.0	Natural wetland	Natural	young forest	67-100%	<5	<5	High	Cottonwood-red-osierd dogwood riparian gully/wetland.
7.0	Disturbed wetland	Disturbed	low shrubs <2m	<5%	No	No	High	Cleared ripariain gully/swamp association.
8.0	Natural wetland	Natural	young forest	67-100%	>=5	<5	High	Riparian/wetland.

Segment	Comment - Flora	Comment - Flora
6.0	Cottonwood;red-osier dogwood;water birch;Douglas maple;clematis.	
7.0	Graminoids;nettle;thistle;various early succsional and invassive forbs.	
8.0	Cottonwood;red-osier dogwood;water birch;Douglas maple;alder;cattail.	

	Level of Impact c		Enhancement Opportunity	
Segment	Rating	Comment	Rating	Comment
6.0	Nil		Nil	
7.0	Both_banks_high		High	Riparian restoration.
8.0	Nil		Nil	Preserve.

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 6


Segment 7


Segment 8