send the data to: Streamkeepers Database, Department of Fisheries and Oceans, Suite 400, 555 W. Hastings Street, Station 321, Vancouver, B.C. V6B 5G3 or fax to (604) 666-0292

SECT # 1

Stream Location and Conditions

(use a new data sheet for each stream section surveyed) **Module 1**

Stream Name/Nearest Town: STONEY CREEK - Burnaby	Date: MARCH 02, 2007
Organization Name:	Watershed code 100-054300-56600
Contact Name: SCOTT DUCHARME	Phone # 604-690-1474
Crew Names: THIBAULT DOIX	Stream Segment #
	Stream Section # 1
	Length Surveyed 805m

Survey Start Point (when applicable)

Mapsheet number ____ Type ____ Scale ____	
Start Point Location (distance from known stream landmark, directions to start) ~ STONEY CREEK AND BRUNETTE RIVER CONFLUENCE, ~ ACCESS TRAIL OFF CARIBOO PLACE - OFF CARIBOO RD.	
Time: 9:30 Weather • clear • ✓ shower (1-2.5 cm in 24 hr) • snow • ✓ overcast • storm (>2.5 cm in 24 hr) • rain on snow	
Water turbidity (cm visibility) 1 cm	Temperature °C (leave thermometer 2 min.) air 9° water 7.5°
Measurements taken every 1.0 m	
Bankfull Channel width 6.46 (m)	Average depth 1.1 (m)
Wetted Channel width 6.0 (m)	Average depth .260 (m)

Survey End Point (when applicable)

Mapsheet number ____ Type ____ Scale ____	
End Point Location (distance from known stream landmark) - 55m upstream SIDE OF Lougheed Culverts, ABOVE LAST log Enhancement.	
Time: 1:46 Weather • clear • ✓ partly overcast • shower (1-2.5 cm in 24 hr) • storm (>2.5 cm in 24 hr) • snow • rain on snow	
Water turbidity (cm visibility) 722cm.	Temperature °C (leave thermometer 2 min.) air 9° water 7.5°
Measurements taken every 1.0 m	
Bankfull Channel width 7.9 (m)	Average depth 1.16 (m)
Wetted Channel width 4.06 (m)	Average depth 0.19 (m)

(Start Point) First and Last Measurements taken 0.1 m from streambank edge (End Point)

Left Bank	m	.10	1.1	2.5			2.2	1.1	.10	Right Bank
Wetted Depth	cm	20	17	5			34	28	14	Wetted Depth
Bankfull Depth	m	1.8	1.4	1.4			1.4	1.6	1.8	Bankfull Depth

Left Bank	m	.10	1.5	2.5			3.0	1.4	.5	Right Bank
Wetted Depth	cm	9	27	30			10	32	20	Wetted Depth
Bankfull Depth	m	1.4	0.17	0.50			1.5	1.5	1.4	Bankfull Depth

Take measurements every 0.5m in streams less than 5m wide, every 1m in streams 5 to 15m

Page ___ of ___

SECT #1

Stream Reconnaissance Field Data Sheet

Feature Information con't — Module 1

Feature #	Photo #	*m* upstream of last feature	Feature Description and Size (see App. 3)	Stream-bank (L or R)	Adjacent Land Use *	Actions/Comments/ Water Quality Concerns
2	1 3	12m	PEDESTRIAN BRIDGE Crossing. · height = 4.0m · width = 8.0m · length = 6.0m · wd = 30cm.	L-R	trail	· BASE STABLE · RIFFLE AREA under bridge.
3	4 5 6	54m	SLUMPING BANK ↕ 6m x 18m↔	L	U	· UNDER-CUT starting.
4	7	56m	BANK EROSION - SLUMPING ↕ 2.3m x 7.5m↔	R	U	BANK Enhancement Req'd. - LWD or larger boulders.
5	8 9	35m	BANK EROSION SLUMPING / SLIDING ↕ 2.8m x 29m↔	L	U	· Flow has potential of punching thru this small bank. Away from pool AND meander in channel.
6	10	78	BANK EROSION ↕ 1.67m x 4.0m↔	L R	U C	- woody debris jam on left channel side - STABLE AT present FLOW.

* *Adjacent Land Use Codes:* **Undisturbed, Agriculture, Forestry, Residential, Parks, Commercial, Industrial**

General comments on this section of the stream

SECT # 1

Stream Reconnaissance Field Data Sheet

Feature Information con't — Module 1

Feature #	Photo #	*m* upstream of last feature	Feature Description and Size (see App. 3)	Stream-bank (L or R)	Adjacent Land Use *	Actions/Comments/ Water Quality Concerns
7.	11 12 13	10m	BANK EROSION - under-cut BANK AND exposed SOIL ↕ 1.1cm x 55m	R L	C U	- Stable at low Flows. - habitat complexity could stabilize BANK FOR A Longer perion.
8.	14	40m	BANK EROSION - EXPOSED clays. ↕ 1.5m x 6.7m	R	U	- Impacted during hi-Flows
9.	15 16	9m	Enhancement. ↳ ROCK WIER INSTALLATION width = 5.1cm length = 1.5m		U	- AT mouth to side channel - Functioning
10.	15 17	1m	SIDE CHANNEL - Length = 25m BF = 4.5m -ww = 4.0m -wd avg = 18.3cm - H_2O = 7.5°	L	U	- Accessible during moderate to higher Flows. - Rock Wier / SAND BAGS. AT upstream END before ladder.
11.	18	1m	BANK EROSION Slumping - undercut ↕ 3.0m x 15.0m.	R	U	LWD / BOLDERS could provide some BANK protection..

* *Adjacent Land Use Codes:* **Undisturbed, Agriculture, Forestry, Residential, Parks, Commercial, Industrial**

General comments on this section of the stream

SECT # 1.

Stream Reconnaissance Field Data Sheet

Feature Information con't — Module 1

Feature #	Photo #	*m* upstream of last feature	Feature Description and Size (see App. 3)	Stream-bank (L or R)	Adjacent Land Use *	Actions/Comments/ Water Quality Concerns
12. 10	19 20	15m	Enhancement. - Rock Weir Install	Instream	U	- located below fish ladder entrance - Holding Area
13. 11	21 22 24 25	12m	Enhancement. CPR. Box Fish LADDER. - steps = 1.5m x 1.8m - jump = 30cm	Instream	RAIL tracks	- Avg step water depth 45cm - monitoring of steps FOR Debris Req'd.
14 12	23	8m	Culvert discharge ↕ 2.2m (↕) - 1.8m length = 24m.	L	-	- not Accessible - Presently Flowing - Fry or juvenile possibly killed From Spill onto Rip / Rap. *
15. 13	24 25 26 27 * 28	13m	Culvert discharge to FISH LADDER. DIA = 1.7m Length = 24m	R	-	- 8 SMALL (<30cm) ROCK BAFFLES Installed, some missing. - Pic 29, # upstream END OF Culvert.
16. 14	30 32	106m (82m)	CPR - RAILWAY Bridge crossing * "NOT in OPERATION" ↕ 4.5m x 12.5m ↔	Instream		- Base stable - - Base supports leeching in Water.

* *Adjacent Land Use Codes:* **Undisturbed, Agriculture, Forestry, Residential, Parks, Commercial, Industrial**

General comments on this section of the stream

send the data to the Streamkeepers Database

SECT # 1.

Stream Reconnaissance Field Data Sheet

Feature Information con't

Module 1

Feature #	Photo #	*m* upstream of last feature	Feature Description and Size (see App. 3)	Stream-bank (L or R)	Adjacent Land Use *	Actions/Comments/ Water Quality Concerns
17 MP	31	2m	Bank Erosion exposed clay ↕ 1.8m x 9.3m ↔	R	U	- Stable at present flows. - Ivy on a dozen trees on left Bank SIDE *
18. IS	33 34	19m	Culvert @ Government RD. DIA = 2.0 m length = 34m	L Instream	U	- Flowing - no BAFFLES
19. IS	35	ϕm	Culvert At Government Road Crossing. DIA = 1.6m Length =	R	U	- Flowing NO BAFFLES
20. NO	34	32m	Culvert Discharge into LB - Culvert - H_2O = 8°C	L	-	- Flowing Clear - Storm water from Government Road.
21. NO	36 37	3m	Artificial modification Water Quality sampling site.	R	U	- STAFF GAGE - Assorted Probes. For City OF Burnaby.

* *Adjacent Land Use Codes:* **Undisturbed, Agriculture, Forestry, Residential, Parks, Commercial, Industrial**

General comments on this section of the stream

SECT 1 #

Stream Reconnaissance Field Data Sheet

Feature Information con't — Module 1

Feature #	Photo #	*m* upstream of last feature	Feature Description and Size (see App. 3)	Stream-bank (L or R)	Adjacent Land Use *	Actions/Comments/ Water Quality Concerns
22. 16	38 39	8m	Tributary - H_2O = 7°C length = > 10m BF = 1.7m ww = 1.80m - wd AVG = 17cm.	L	U	Flowing AND Accessible. - observe 1 COHO juvenile morts, half eaten.
23. 17	40 41	15m	Enhancement. - ROOT WAD Installation. ALSO large bolder size - .75m to 1.2m	L	U	Functioning ' helps keep - high Flow Away From Left Bank. tributary.
24. 17	41 42	1m	Artificial modification Bolders installed at top of tributary. Channel. size → .75m to 1.2m	L	U	- Placed to Prevent hi flow From entering tributary channel And eroding bank. - Functioning.
25. 18	43	12m	Enhancement. ↳ Rock Weir Install. width = 5.5m length = 5m	Instream	—	- Angular Rock. used. - Rock size .4m to .6m
26. 19	44 45 46 47		OFF CHANNEL Enhancement. - HABITAT POND. - INFLOW blocked.	L	U	10 LWD loss in pond - min Flow thru. * Culvert blocked - observe Salmon skeleton.

* *Adjacent Land Use Codes:* **Undisturbed, Agriculture, Forestry, Residential, Parks, Commercial, Industrial**

General comments on this section of the stream

Sect #1

Stream Reconnaissance Field Data Sheet

Feature Information con't

Module 1

Feature #	Photo #	*m* upstream of last feature	Feature Description and Size (see App. 3)	Stream-bank (L or R)	Adjacent Land Use *	Actions/Comments/ Water Quality Concerns
27. 20	47	22m	Culvert Discharge DIA - est ~ 40cm - No Flow	L	U	Plugged and not functioning. Flow to habitat pond blocked.
28. 21	48	12m	Artificial Enhancement = Bank Stabilization with Rip/Rap. ↕ 80cm x 13m	R	U	- Rip/Rap size size = .40-.60m
29. 22	49 50	38m	Bank Erosion undercut ↕ 1.6m x 14m ↔	L	U	- Stable at present flow.
30. 23	51	16m	Culvert Discharge DIA = 40cm - Flowing - outfall = 30cm - 10m from mainstem.	R L	trail U.	- feeds small channel, then mainstem. - Not suitable fish habitat.
31. 23	52	2m	- Drainage Area - Not Flowing -	R U	trail U	- From drainage along trail.

* *Adjacent Land Use Codes:* **Undisturbed, Agriculture, Forestry, Residential, Parks, Commercial, Industrial**

General comments on this section of the stream

Sect #1

Stream Reconnaissance Field Data Sheet

Feature Information con't

Module 1

Feature #	Photo #	*m* upstream of last feature	Feature Description and Size (see App. 3)	Stream-bank (L or R)	Adjacent Land Use *	Actions/Comments/ Water Quality Concerns
32. 24	53	9m	Discharge - OLD wooden CHUTE H_2O = 10°C	L	Hiway.	- Drain from Lougheed ditch
33. 24	54 56	1m	CULVERT - 60m length. DIA = 1.2m note: INFLOW to culvert .65m ↕ - GATED top END	R	Hiway	• NO FLOW • Hi Flow use only. - Lougheed crossing
34. 24	54 56	1m	CULVERT DIA = 1.2m , trash RACK AT upstream INFLOW.	Instream center	11	Flowing - no baffles. - Length OF CV = 60m
35. 24	55 56	1m	Culvert. DIA = 1.8m - GATED AT INFLOW - length = 60m	L	11	- MAIN FLOW has, baffles for PASSAGE.
36. ✓	56	64m	TRASH RACK upstream SIDE OF Lougheed CV. Height = 1.7m	Instream		- SPACE BETWEEN BARS = 23cm

* *Adjacent Land Use Codes:* **Undisturbed, Agriculture, Forestry, Residential, Parks, Commercial, Industrial**

General comments on this section of the stream

Sect 1#

Stream Reconnaissance Field Data Sheet

Feature Information con't

Module 1

Feature #	Photo #	*m* upstream of last feature	Feature Description and Size (see App. 3)	Stream-bank (L or R)	Adjacent Land Use *	Actions/Comments/ Water Quality Concerns
37. 25	57	6m	TRIBUTARY > 10m BF = 4.0m ww = 1.7m wd = 18cm	R	trail	H_2O = 8°C Flowing clear.
38. 25	58	1m	Enhancement. - Rock Weir install width = 6.4m length = 22m	Instream	—	Functioning Rip/Rap size = .35 - 65
39. 26	59	4m	Log Enhancement DIA = .75m to 1.2m length = 4m	L	u	Secure, but does not provide alot of habitat At this Flow.
40. 26	60	0m	Artificial modification Bank stabilization using Rip/Rap. size = .75m - 1.2m	R	u	Armoring for Bank. stability - min overhang Veg over creek.
41. 27	61	5m	Log Enhancement DIA = 1.2m length = 4m. in creek.	L	u	- Lack of small woody debris.

* *Adjacent Land Use Codes:* **Undisturbed, Agriculture, Forestry, Residential, Parks, Commercial, Industrial**

General comments on this section of the stream

send the data to the Streamkeepers Database

Sect 1#

Stream Reconnaissance Field Data Sheet

Feature Information con't

Module 1

Feature #	Photo #	*m* upstream of last feature	Feature Description and Size (see App. 3)	Stream-bank (L or R)	Adjacent Land Use *	Actions/Comments/ Water Quality Concerns
42	59 62.	8m	log Enhancement DIA = 1.0m width = 4m in creek.	L	U	- LACK OF SMALL WOODY Debris built up.
43	63 66	10m	SECT 1# END PT	—	—	LOCATED upstream OF Hougheed Hiway crossing.

* *Adjacent Land Use Codes:* **Undisturbed, Agriculture, Forestry, Residential, Parks, Commercial, Industrial**

General comments on this section of the stream