

WCVI STREAM INSPECTION LOG

C.1 (ver.2014Jun)

REF NO.

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STREAM NAME: San Juan River

DATE (YYYY/MM/DD): 2023/10/04

OBSERVER(S): KD, Jonathan Furmanhault, MDJ, JRAJ, JES

SEGMENTS / AREA SURVEYED: 22-10 Upper San Juan to Hamis confl.

DISTANCE SURVEYED: 7500 (m)

START TIME: 09:30

END TIME: 17:15 (!)

METHOD <input type="checkbox"/> Bank Walk <input type="checkbox"/> Stream Walk <input checked="" type="checkbox"/> Snorkel <input type="checkbox"/> Deadpitch <input type="checkbox"/> Boat Other: _____		WATER CONDITION <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Tea <input type="checkbox"/> Glacial Silt <input type="checkbox"/> Muddy <input type="checkbox"/> Slightly Turbid <input type="checkbox"/> Iced		WATER LEVEL <input type="checkbox"/> Extremely Low <input checked="" type="checkbox"/> Below Norm <input type="checkbox"/> Normal <input type="checkbox"/> Above Norm <input type="checkbox"/> Flood		CLOUD COVER <input type="checkbox"/> Clear (0%) <input checked="" type="checkbox"/> Scattered (25%) <input type="checkbox"/> Partly cloudy (50%) <input type="checkbox"/> Cloudy (75%) <input type="checkbox"/> Overcast (100%)		LIGHT LEVEL <input checked="" type="checkbox"/> Full <input type="checkbox"/> Bright <input type="checkbox"/> Medium <input type="checkbox"/> Dark	
TARGET SPECIES <input type="checkbox"/> Sockeye <input type="checkbox"/> Pink <input checked="" type="checkbox"/> Chinook <input checked="" type="checkbox"/> Coho <input type="checkbox"/> Chum Other: _____				PRECIPITATION <input checked="" type="checkbox"/> None <input type="checkbox"/> Light <input type="checkbox"/> Rain <input type="checkbox"/> Med. <input type="checkbox"/> Snow <input type="checkbox"/> Heavy		WATER TEMPERATURE <u>11.5</u> (°C)			
				FISH VISIBILITY <input type="checkbox"/> Low <input checked="" type="checkbox"/> Med. <input type="checkbox"/> High					

SPAWN TIMING

Species	Run No.	Pre	St	Pk	End
CD	2				✓

Species	Run No.	Pre	St	Pk	End
CM	1	2	✓		

Species	Run No.	Pre	St	Pk	End
SK	1	2	✓		

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SECCHI:

Vertical Visibility: Bottom (15) (m) Seg: _____

Horizontal Visibility (1): ~10 (m) Seg: _____

Horizontal Visibility (2): ~10 (m) Seg: _____

GAUGE HEIGHT

2:03 (m)

Time 12:00

Seals active in area? ☐ Yes ☒ No

Number of seals: _____

Upstream extent of seals: _____

Discharge Transect Data

	Distance (m)	Depth (m)	Velocity (m/s)	Notes
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				Station 08HA010
24				5.95 m ³ /s @ 12:00
25				

TRANSECT LOCATION:

WCVI SIL Stream: Upper SJ Date: 2023/10/04 REF NO. _____

ROW REF.	SEGMENT	HAB. CODE		% HAB SEEN	LIVE/ DEAD	SPECIES										No Fish		
		Po	Rf			Adult	Jack	Adult	Jack	Adult	Jack	Adult	Jack	ST	CT OF			
1	Bridge to 1st pile 22-21	Po	Rf	100%	Live													X
		Ru	Mu		% Sp													
					Dead													X
2		Po	Rf	100%	Live													
		Ru	Mu		% Sp													
					Dead													
3	22-21	Po	Rf	100%	Live													
		Ru	Mu		% Sp													
					Dead													X
4	21-20	Po	Rf	100%	Live													
		Ru	Mu		% Sp													
					Dead													
5		Po	Rf	100%	Live													
		Ru	Mu		% Sp													
					Dead													

Species abbreviations: R1 - rainbow trout, CT - cutthroat trout, BR - bear, ST - Steelhead, OT - other
Hab. Code: Po - pool, Rf - riffle, Ru - run, Mu - multiple

Comments on unit description, obs., efficiency, tags, behaviour (use row ref):
* 1-2: Riffle forgotten, 0 fish, 100% habitat seen.

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ROW REF.	SEGMENT	HAB. CODE		% HAB SEEN	LIVE/ DEAD	SPECIES										ST	ET or	No Fish
						Sockeye		Coho		Pink Adult	Chum Adult	Chinook		Adult	Jack			
6		Po	Rf	100%	Live									13	1			
		Ru	Mu		% Sp									0x				
					Dead													X
7		Po	Rf	100%	Live											1	1	1
		Ru	Mu		% Sp													
					Dead													
8		Po	Rf	100%	Live									7				
		Ru	Mu		% Sp									0x				
					Dead													
9	21-20	Po	Rf	100%	Live													X
		Ru	Mu		% Sp													
					Dead													
10	20-19	Po	Rf	100%	Live													
		Ru	Mu		% Sp													
					Dead													

Species abbreviations: RT - rainbow trout, CT - cutthroat trout, BR - bear, ST - Steelhead, OT - other
 Hab. Code: Po - pool, Rf - riffle, Ru - run, Mu - multiple

Comments on unit description, obs. efficiency, tags, behaviour (use row ref):

C.2 (ver.2014Jun)

WCVI SIL		Stream:		Date:		REF NO.		PAGE 5 OF 16						
ROW REF.	SEGMENT	HAB. CODE	% HAB SEEN	LIVE/DEAD	SPECIES								No Fish	
					Sockeye		Coho		Pink	Chum	Chinook			ST
					Adult	Jack	Adult	Jack	Adult	Adult	Adult	Jack		
11		Po Rf	100%	Live							18			1
		Ru Mu		% Sp							0%			
				Dead							5			
12		Po Rf	100%	Live							100%			
		Ru Mu		% Sp										
				Dead							5	1	7	5
13		Po Rf	90%	Live							0%			
		Ru Mu		% Sp										
				Dead							8			
14	20-19	Po Rf	100%	Live							100%			
		Ru Mu		% Sp										
				Dead										X
15	19-18	Po Rf		Live										
		Ru Mu		% Sp										
				Dead										

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Comments on unit description, obs. efficiency, tags, behaviour (use row ref):

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WCV STREAM INSPECTION					SPECIES										CT OT	No Fish
ROW REF.	SEGMENT	HAB. CODE		% HAB SEEN	LIVE/ DEAD	Sockeye		Coho		Pink Adult	Chum Adult	Chinook		ST		
		Po	Rf			Adult	Jack	Adult	Jack	Adult	Adult	Adult	Jack			
16		Po	Rf	95%	Live							11			3	
		Ru	Mu		% Sp							100%				
					Dead											
17		Po	Rf	100%	Live											X
		Ru	Mu		% Sp											
					Dead											
18	19-15	Po	Rf	95%	Live							2			3	
		Ru	Mu		% Sp							0%				
					Dead											
19	18-17	Po	Rf	95%	Live							6			3	
		Ru	Mu		% Sp							0%				
					Dead											
20		Po	Rf	100%	Live							1				
		Ru	Mu		% Sp							0%				
					Dead											

Species abbreviations: R1 - rainbow trout, C1 - cutthroat trout, BR - bear, S1 - Steelhead, O1 - other

Species abbreviations: RT - rainbow trout, CT - cutthroat trout, BR - bear, ST - Steelhead, OT - other
Hab. Code: Po - pool, Rf - riffle, Ru - run, Mu - multiple

Comments on unit description, obs. efficiency, tags, behaviour (use row ref):

10/19: Riffle, no fish.

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WCVI SIL		Stream:		Date:		REF NO.		PAGE 7 OF 16								
ROW REF.	SEGMENT	HAB. CODE		% HAB SEEN	LIVE/ DEAD	SPECIES										No Fish
		Po	Rf			Sockeye		Coho		Pink	Chum	Chinook		ST	OT	
						Adult	Jack	Adult	Jack	Adult	Adult	Adult	Jack			
21		Po	Rf	100	Live							10				
		Ru	Mu		% Sp							0x				
					Dead							1				
22	18-17	Po	Rf	100	Live							10				
		Ru	Mu		% Sp							100x				
					Dead											
23	17-16	Po	Rf	100	Live							1			1	
		Ru	Mu		% Sp							0x				
					Dead											
24	17-16	Po	Rf	90	Live							4				
		Ru	Mu		% Sp							0x				
					Dead											
25	16-15	Po	Rf	100	Live							17				
		Ru	Mu		% Sp							100x				
					Dead							2				

Species abbreviations: R1 - rainbow trout, C1 - cutthroat trout, BR - bear, ST - Steelhead, OT - other
 Hab. Code: Po - pool, Rf - riffle, Ru - run, Mu - multiple

Comments on unit description, obs. efficiency, tags, behaviour (use row ref):

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ROW REF.	SEGMENT	HAB. CODE	% HAB SEEN	LIVE/ DEAD	SPECIES										No Fish
					Sockeye		Coho		Pink	Chum	Chinook		ST	CT	
					Adult	Jack	Adult	Jack	Adult	Adult	Adult	Jack		OT	
26		Po/Rf	100	Live										1	
		Ru/Mu		% Sp											
				Dead											
27	log jam	Po/Rf	70	Live			2				37	1		7	
		Ru/Mu		% Sp			0%				20x				
				Dead											
28		Po/Rf	100	Live							6				
		Ru/Mu		% Sp							100x				
				Dead											
29		Po/Rf	100	Live							4	2		2	
		Ru/Mu		% Sp							0x				
				Dead											
30		Po/Rf	95	Live							28	1			
		Ru/Mu		% Sp							0x				
				Dead											

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 Hab. Code: Po - pool, Rf - riffle, Ru - run, Mu - multiple

Comments on unit description, obs. efficiency, tags, behaviour (use row ref):

C.2 (ver.2014Jun)

WCVI SIL		Stream:		Date:		REF NO.		PAGE 9 OF 16								
ROW REF.	SEGMENT	HAB. CODE		% HAB SEEN	LIVE/DEAD	SPECIES										No Fish
		Po	Rf			Sockeye		Coho		Pink	Chum	Chinook		ST	CT	
						Adult	Jack	Adult	Jack	Adult	Adult	Adult	Jack			
31		Po	Rf	100	Live											
		Ru	Mu		% Sp											
					Dead											
32		Po	Rf	100	Live							6		1	1	
		Ru	Mu		% Sp							0%				
					Dead											
33	16-15	Po	Rf	100	Live							70				
		Ru	Mu		% Sp							100%				
					Dead											
34	15-14	Po	Rf	100	Live	5	1				1	50		1	3	
		Ru	Mu		% Sp	0%						0%				
					Dead							5				
35		Po	Rf	100	Live							23				
		Ru	Mu		% Sp							100%				
					Dead											

Species abbreviations: Rf - rainbow trout, CT - cutthroat trout, BR - bear, ST - Steelhead, OT - other
 Hab. Code: Po - pool, Rf - riffle, Ru - run, Mu - multiple

Comments on unit description, obs. efficiency, tags, behaviour (use row ref):

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ROW REF.	SEGMENT	HAB. CODE		% HAB SEEN	LIVE/ DEAD	SPECIES										No Fish
						Sockeye		Coho		Pink	Chum	Chinook		ST	OT	
						Adult	Jack	Adult	Jack	Adult	Adult	Adult	Jack			
36		Po	Rf	100	Live	7	~				1	29		1	5	
		Ru	Mu	100	% Sp							0%				
					Dead											
37		Po	Rf	100	Live							2				
		Ru	Mu	100	% Sp							0%				
					Dead							3				
38	15-14	Po	Rf	100	Live							22				
		Ru	Mu	100	% Sp							100%				
					Dead							1				
39	14-2	Po	Rf	100	Live	1		1				5	1		10	
		Ru	Mu	100	% Sp							0%				
					Dead											
40		Po	Rf	100	Live							1				
		Ru	Mu	100	% Sp							0%				
					Dead							4				

Species abbreviations: Rf - rainbow trout, CT - cutthroat trout, BR - bear, ST - Steelhead, OT - other

Hab. Code: Po - pool, Rf - riffle, Ru - run, Mu - multiple

Comments on unit description, obs. efficiency, tags, behaviour (use row ref):

C.2 (ver.2014Jun)

WCVI SIL		Stream:		Date:		REF NO.		PAGE 11 OF 6							
ROW REF.	SEGMENT	HAB. CODE		% HAB SEEN	LIVE/ DEAD	SPECIES								No Fish	
		Po	Rf			Sockeye		Coho		Pink	Chum	Chinook			ST
		Ru	Mu			Adult	Jack	Adult	Jack	Adult	Adult	Adult	Jack		
41		Po	Rf	100	Live	1						52			
		Ru	Mu		% Sp							100%			
					Dead										
42	1A-12	Po	Rf	90	Live	9		25			3	500	25	1	
		Ru	Mu		% Sp	0		0%			0%	0%			
					Dead							2			
43	12-11	Po	Rf	90	Live									2	
		Ru	Mu		% Sp										
					Dead							3			
44		Po	Rf	90	Live			10%				75	10	1	2
		Ru	Mu		% Sp			0%				0%			
					Dead										
45		Po	Rf	100	Live							36			
		Ru	Mu		% Sp							100%			
					Dead										

Species abbreviations: R1 - rainbow trout, C1 - cutthroat trout, BR - bear, ST - Steelhead, OT - other
 Hab. Code: Po - pool, Rf - riffle, Ru - run, Mu - multiple

Comments on unit description, obs. efficiency, tags, behaviour (use row ref):
 42: Most CN seen in run/pool, brief riffles w/ no fish.

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ROW REF.	SEGMENT	HAB. CODE		% HAB SEEN	LIVE/ DEAD	SPECIES										No Fish
		Po	Rf			Sockeye		Coho		Pink	Chum	Chinook		ST	OT	
						Adult	Jack	Adult	Jack	Adult	Adult	Adult	Jack			
46	12-11	Po	Rf	90	Live											X
		Ru	Mu		% Sp											
					Dead											
47	12-11	Po	Rf	80	Live	1						110		3		
		Ru	Mu		% Sp							40%				
					Dead							4				
48	12-11	Po	Rf	100	Live							38				
		Ru	Mu		% Sp							100%				
					Dead											
49	11-10	Po	Rf	95	Live			1				20	6	2	6	
		Ru	Mu		% Sp							0%				
					Dead											
50		Po	Rf	100	Live											X
		Ru	Mu		% Sp											
					Dead											

Species abbreviations: R1 - rainbow trout, C1 - cutthroat trout, BR - bear, ST - Steelhead, O1 - other
Hab. Code: Po - pool, Rf - riffle, Ru - run, Mu - multiple

Comments on unit description, obs. efficiency, tags, behaviour (use row ref):

47: one chinook tag seen around reach 12-11!

C.2 (ver.2014Jun)

WCVI SIL		Stream:		Date:		REF NO.		PAGE 13 OF 16								
ROW REF.	SEGMENT	HAB. CODE		% HAB SEEN	LIVE/ DEAD	SPECIES										No Fish
		Po	Rf			Sockeye		Coho		Pink	Chum	Chinook		ST	OT	
						Adult	Jack	Adult	Jack	Adult	Adult	Adult	Jack			
5	11-10	Po	Rf	90	Live			2				25		2		
		Ru	Mu		% Sp							0%				
					Dead							1				
		Po	Rf		Live											
					% Sp											
		Ru	Mu		Dead											
		Po	Rf		Live											
					% Sp											
		Ru	Mu		Dead											
		Po	Rf		Live											
					% Sp											
		Ru	Mu		Dead											
		Po	Rf		Live											
					% Sp											
		Ru	Mu		Dead											

Species abbreviations: RI - rainbow trout, CI - cutthroat trout, BR - bear, ST - Steelhead, OT - other
 Hab. Code: Po - pool, Rf - riffle, Ru - run, Mu - multiple

Comments on unit description, obs. efficiency, tags, behaviour (use row ref):

WCVI SIL Stream: Upper SJ Date: 2022/10/04 REF NO.PAGE 14 OF 16

POST-SURVEY NOTES

CHECKLIST

- ☒ SURVEY END TIME RECORDED
☒ SPAWN TIMINGS RECORDED
☐ SURVEY REF. NO. ADDED TO ALL SUPPORTING PAGES
☒ PAGE NO. AND TOTAL PAGE NO. ADDED TO ALL PAGES

☒ TWO HORIZONTAL VIS. RECORDED☒ VERTICAL VIS. RECORDED☐ GAUGE HEIGHT RECORDEDY ☒ DISCHARGE TRANSECT COMPLETEDIf no, why not: UsedWater gauge

BEHAVIOUR NOTES:

	SK	CO	PK	CM	CN	ST		
% MORTS THAT ARE PRE-SPAWN	%	%	%	%	%	%	%	%
% OF FISH THAT APPEAR NEW	0 %	100 %	%	0 %	30 %	100 %	%	%
% OF FISH PAIRED / SPAWNING	0 %	0 %	%	0 %	25 %	0 %	%	%
OVERALL RELIABILITY [L / M / H]	H	M		H	H	H		

SURVEY TOTALS:

	Sockeye		Coho		Pink	Chum	Chinook		ST	CT
	Adult	Jack	Adult	Jack	Adult	Adult	Adult	Jack		
TOTAL LIVE	24	1	41	0	/	5	1228	49	16	58
TOTAL DEAD	0	0	0	0	/	0	27	0	0	0

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Describe any difficulties in recording the data: VIS challenging at times, quite variable

Were all of the standard survey sections surveyed? ☒ Yes ☐ No If no, why not?

Were all expected species observed? ☒ Yes ☐ No

Give details, and any anomalies in abundance or appearance: Chinook above log jam
all very old and battered. Fresh fish/old fish mix below
log jam. Some evidence of predator activity throughout.

Briefly describe the water conditions in the context of recent rain or drought: Low. Swim
not much longer than usual

Describe the experience level of each swimmer:

Swimmer	Initials	< 10 swims	10 - 50 swims	50 - 100 swims	> 100 swims
Crew leader	KD	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Crew	MDJ	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Crew	JRPS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

JA

✓

C.4 (ver.2014Jun)

WCVI SIL		Stream: Upper SJ	Date: Oct 4/23	REF NO.	PAGE 16 OF 16
ROW REF.	NOTES (weather, surveyability, stream access, observations during survey, tag observations, biosampling, etc.)				
27	Fish above log jam all post-spawn. School in log jam first				
/	sign of fresh fish				
All	Coho #s may be slightly biased-low as they were				
	only seen in mixed schools.				
	~120 post-spawn above log jam				
	~300 actively spawning below log jam				
	~800 not spawned of which ~1/2 fresh				
	below log jam				

}
 ∴ ~30% new
 ~25% active spawn
 rest post-spawn.