

Stikine River Canadian Commercial Fishery Sampling and Stock Assessment 2019

Final Report
March 2020

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Executive Summary

The Northern Endowment Fund (NEF) provided Fisheries and Oceans Canada (DFO) with financial support to assist with biological sampling of sockeye (*Oncorhynchus nerka*) and coho (*Oncorhynchus kisutch*) salmon from the Stikine River Canadian commercial fisheries between June 25 and September 6, 2019. A commercial fisheries closure was in effect from July 15 to August 24 due to mainstem sockeye salmon conservation concerns.

A total of six spaghetti tags were collected from Chinook salmon bycatch that were live released in the directed sockeye commercial fishery. A total of 375 Chinook Large and 272 Chinook non-large salmon were live released in the directed sockeye fishery.

A total of 10,772 sockeye were caught during the directed sockeye commercial fishery. A total of 1,590 (14.8%) were sampled; 1000 were sampled for age, sex, length, egg diameter, and otolith marks, and 590 were sampled for sex, length, and egg diameter.

A total of 5,228 coho were caught during the directed coho commercial fishery; 500 (9.6%) were sampled for age, sex, length and adipose clips. An additional 1,551 coho (30%) were inspected just for adipose clips. Twenty five heads were collected for CWT analysis.

All information gathered is integral to in-season fisheries management and stock assessment as well as postseason analyses, run reconstructions, and forecasting.

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1.0 Introduction

The Stikine River drains a large watershed primarily located in northwestern British Columbia. The river system contains numerous significant tributaries which flow south west ultimately draining to the Pacific Ocean in Southeast Alaska near Wrangell (Figure 1).

Salmon returning to the Stikine River pass through a U.S. offshore troll fishery before entering inside Alaskan waters where they encounter commercial, subsistence and recreational fisheries. After entering the Stikine River salmon are harvested by U.S. subsistence fisheries, and once in Canada, by commercial, First Nation, and recreational fisheries.

The Canadian commercial fishery is located on the lower Stikine River from the Canada/ US border upstream to approximately the Porcupine River confluence, including approximately 10 km up the Iskut River (Figure 1). Sockeye (*Oncorhynchus nerka*) and coho (*Oncorhynchus kisutch*) salmon are targeted. The bilateral 2019 preseason forecast for large Chinook salmon (*Oncorhynchus tshawytscha*) was well below the 10 year average and the lower bound of the escapement goal, so for conservation reasons Chinook salmon commercial and test fisheries were not executed in either Canada or the United States. Canada also took the additional step of requiring the release of all Chinook bycatch in the directed sockeye commercial fishery.

This project involved Fisheries and Oceans Canada (DFO) Aquatic Science Technicians collaborating with lower Stikine River commercial fisheries in the collection of coded wire tags (CWT), otoliths, age, sex, length, and egg diameter samples as applicable from sockeye and coho salmon. Commercial fishers reported the number of Chinook released as bycatch and recorded the tag numbers of any tags observed. These data are vital elements of the Stikine River fishery management and stock assessment programs. CWT recovery is used in the estimation of smolt production of Chinook and coho salmon. Otoliths are used to estimate the contributions of enhanced Tahltan Lake sockeye. Age, sex, length and egg diameter comprise baseline stock assessment data used for stock recruitment analysis and monitoring stock health.

Technicians also collected daily commercial fishery performance data to inform in-season management of the fisheries.

The activities of this project are essential components of Stikine River Chinook, sockeye and coho management and enhancement plans as identified in Salmon Management and Enhancement Plans for the Stikine, Taku and Alsek Rivers, 2018 TCTR Report (19)-1.

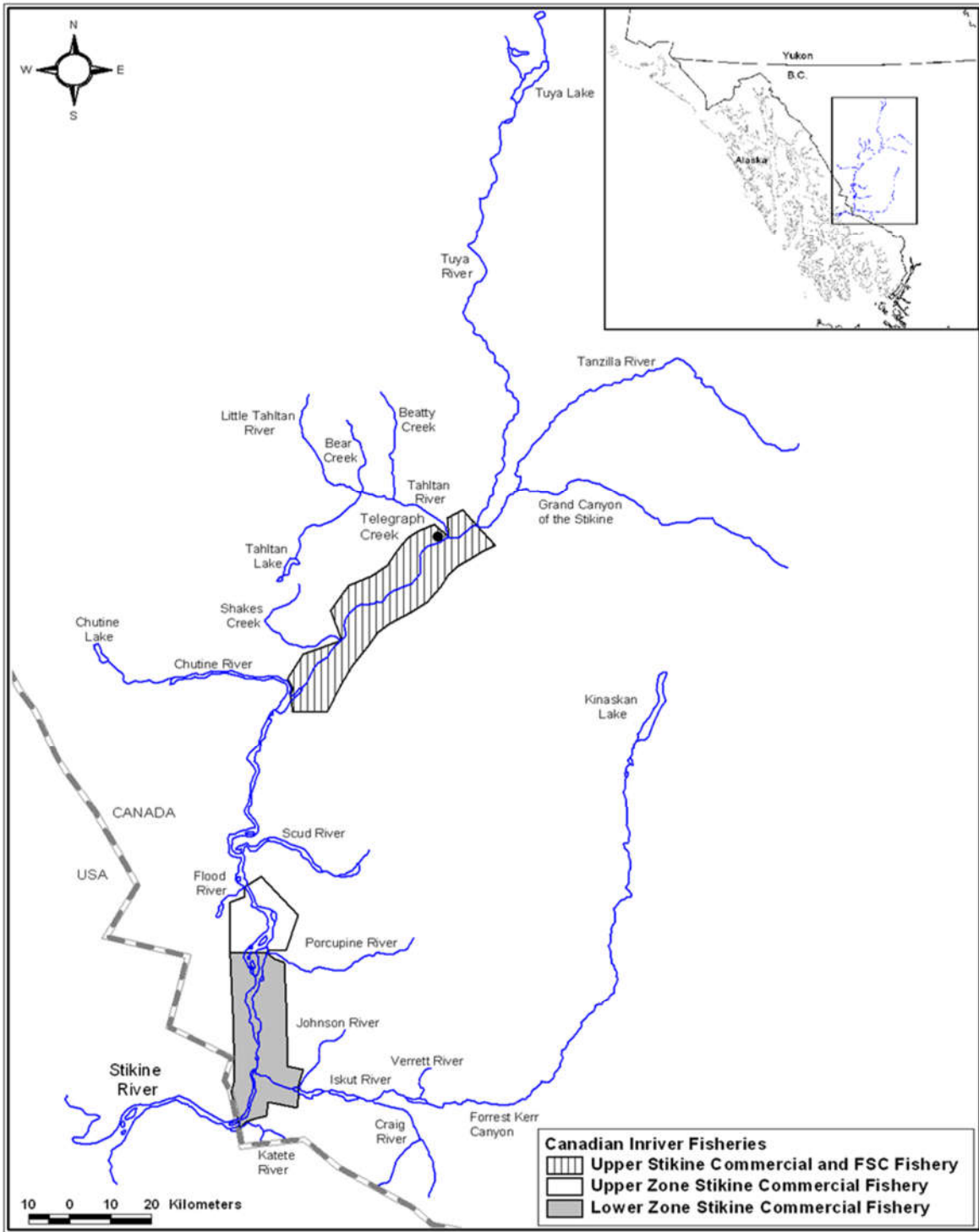


Figure 1. The Stikine River drainage and major tributaries showing Canadian commercial fishing areas.

2.0 Objectives

This project was for the collection of CWT, spaghetti tag, otolith, age, sex, length, and egg diameter samples as applicable from Chinook, sockeye and coho salmon in the lower Stikine River commercial fisheries. There was no fishery in 2019 as a result of conservation concerns. These data are essential for stock assessment and fisheries management and are shared among several other integral joint Canada/ U.S. stock assessment projects that analyze and report respective results. More specifically, the objectives of this project were to:

1. Inspect for and recover CWT's from Chinook and coho salmon
2. Inspect for and recover spaghetti tags from Chinook salmon
3. Collect stock identification samples from sockeye salmon which specifically includes: otoliths (wild/ enhanced contribution) and egg-diameters (Tahltan Lake or Mainstem origin).
4. Collect age, sex and length samples from sockeye and coho salmon

3.0 Methods

The field crew consisted of one DFO aquatic science technician and one Tahltan First Nation (TFN) fisheries technician based out of a permanent DFO field camp located approximately one kilometer upstream of the Canada/ U.S. border within the lower zone of the Canadian commercial fishery on the lower Stikine River (Figure 1). The crew gathered fishery performance data from all commercial fishers and sampled commercial catch at the Great Glacier Salmon landing station which is less than one kilometer upstream from the DFO field camp. Extensive biological sampling is possible as fish were landed round.

The field crew gathered and collated all mandatory fishery reporting data on a daily basis and reported it to the DFO office in Whitehorse, Y.T. to inform in-season management and stock assessment programs.

Chinook Fishery Sampling

As a result of conservation concerns, there was no directed Chinook commercial fishery in 2019. All Chinook caught (dead or alive) in the directed sockeye commercial fishery were required to be released. Commercial fishers were instructed to observe and record daily number of releases, estimated size (large/ jack), and spaghetti tag numbers. Recovered spaghetti tags are used to develop run size estimates (Chinook mark-recapture program). Adipose-clipped Chinook salmon were released in 2019 and not retained for the CWT.

Sockeye Fishery Sampling

Sockeye salmon commercial fishery catches were sampled for biological data as per weekly targets identified below (Table 1). Biological sampling included fork length measurement (mm), scale collection (5 down), sex identification, egg diameter measurements, and otolith collection. Scales aged to estimate broodyear survival and are used in stock assessment forecasts, and are used for genetic stock identification (post-season), and egg diameters (10 eggs lined up in a row and measured to the nearest mm) are used for in-season stock identification (Tahltan or Mainstem). Otoliths are used for stock identification (wild versus enhanced) and brood year determination.

Otoliths were delivered to Alaska Department of Fish & Game (ADF&G) staff (Juneau, A.K.) once weekly for in-season analysis of the enhanced proportion by brood year.

Coho Fishery Sampling

Coho salmon commercial catches were sampled for length (fork length, mid-eye fork length, post-orbital hypural length; mm), scales (5 down), sex, and were checked for adipose clips (indicative of a coded wire tag) (Table 1). If adipose clipped fish were observed, heads were retained and shipped to the DFO office during crew changes for subsequent transport to the contracted DFO lab (J.O. Thomas) in Vancouver, B.C. for CWT extraction. Recovery data will be stored in internal databases until the dataset is verified, after which it will be uploaded into the Regional Mark Processing Centre website database (www.rmpec.org).

Table 1: Lower Stikine sampling directive, 2019.

Sampling Directive - Lower Stikine River - 2019											
Commercial Fishery											
	# scales		random sample goal	# otolith	# egg dia	random scales	length			ad-clip obs.	
							fork	mid-eye	hypural		
sockeye	5 none	1st 2nd	200/ wk. 200/ wk.	required n/a	required required	required n/a	x x				
Chinook	n/a		~ Retention not permitted for 2019 ~								x
coho	5		200 in week #1 200 in week #2 100 in week #3	n/a n/a n/a	n/a n/a n/a	required required required	x x x	x x x	x x x	x x x	

- 1) Observe all coho and incidental chinook for adipose clips. Keep all heads of adipose clipped fish/ label and put in freezer. (if CWT tagged chinook are encountered, retain & label head, record: head code, location, fishery, date, species, sex)
- 2) For coho (comm.): record fork length, mid-eye fork length and post-orbital hypural length for all fish.
~ measurements to the nearest 5 millimetres (i.e., 555, 560, 565, 570, 575)
- 3) For sockeye (commercial): record only the fork length for all fish.
~ measurements to the nearest 5 millimetres (i.e., 555, 560, 565, 570, 575)
~ start a new otolith tray & scale book at the beginning of each statistical week
- 4) DNA collection is from the scales in 2019; do not collect axillary processes.
- 5) Scale book date is when the book is completed.
- 6) Sample Location for scale books is "Lower Stikine River". No short-hand abbreviations.
- 7) Use pencil when recording information in scale books.

Scales samples were sent to DFO's Sclerochronology Laboratory at the Pacific Biological Station (Nanaimo, B.C.). Results are stored in internal DFO databases.

Otoliths samples were delivered to ADF&G on a weekly basis in-season and analyzed at the Mark Recovery Laboratory in Juneau, Alaska. Data are stored in an online database (mtalab.adfg.alaska.gov).

4.0 Results

There was no directed Chinook commercial or test fishery conducted on the Lower Stikine River in 2019. Mandatory release was also implemented for all Chinook caught as bycatch within the directed sockeye commercial fishery. A directed sockeye commercial fishery that targeted the Tahltan Lake stock occurred from June 25 to July 15. A directed sockeye commercial fishery that would have targeted the Mainstem stock (stat. wk. 31-34; July 28 to August 24) did not occur due to conservation concerns. A directed coho commercial fishery occurred from August 25 to September 7.

Chinook Salmon Tag Recovery

There was no directed Chinook salmon fishery in 2019. All Chinook salmon bycatch in the directed sockeye commercial fishery were required to be released. The commercial fishers were instructed to record the tag numbers of all spaghetti tagged fish observed prior to release. There were six tags observed in the directed sockeye commercial fishery.

Commercial Fishery – sockeye salmon

A total of 1,590 sockeye salmon were sampled from the commercial fisheries catch of 10,772 of which 1,000 were from the otolith sample group and 590 were from the no-otolith sample group. A total of 1,000 sockeye salmon GSI (scale analysis) samples were collected during statistical weeks 26 to 29, and 35 and 36. GSI results have not yet been received.

Typically, sockeye salmon of Tahltan origin return to the Stikine prior to Mainstem sockeye, and stock of origin of the commercial harvest can be expanded to the entire run across statistical weeks (Table 1). In 2019 there was no sockeye fishery targeting the Mainstem run, and sockeye caught in statistical weeks 35 and 36 were incidental to the coho fishery. Scale analyses showed that 5.2 (Gilbert-Rich age) aged sockeye accounted for approximately 80 % of the enhanced Tahltan sockeye, with 4.1 aged fish comprising approximately 20 % of the commercial samples analysed (Table 1). Tahltan wild sockeye comprised approximately 88 % 5.2 aged fish. The next most common age class was 4.1 (approximately 1% of the harvest) (Table 2). More than half (approximately 55%) of the Mainstem sockeye were 5.2 aged fish, and approximately 39 % were 4.1 aged fish (Table 3). These proportions are derived through otolith analyses and egg diameters to identify stock of origin and scale analyses for ageing.

Table 2: Summary of weekly sockeye salmon stock proportions and harvest by stock in the Canadian commercial fishery, 2019.

Statistical Week	Week Ending	Weekly Catch		Mainstem	Tuya Enhanced	Tahltan Enhanced	Tahltan Wild	All Tahltan	Total
26	29-Jun	1,806	N Proportion Expanded #	17 0.116 210	0 0.000 0	81 0.555 1,002	48 0.329 594	129 0.884 1,596	146 1.000 1,806
27	6-Jul	2,265	N Proportion Expanded #	8 0.050 113	0 0.000 0	106 0.658 1,491	47 0.292 661	153 0.950 2,152	161 1.000 2,265
28	13-Jul	3,459	N Proportion Expanded #	16 0.103 357	0 0.000 0	92 0.594 2,053	47 0.303 1,049	139 0.897 3,102	155 1.000 3,459
29	20-Jul	2,413	N Proportion Expanded #	29 0.195 470	0 0.000 0	83 0.557 1,344	37 0.248 599	120 0.805 1,943	149 1.000 2,413
30	27-Jul	0	N Proportion Expanded #						
31	3-Aug	0	N Proportion Expanded #						
32	10-Aug	0	N Proportion Expanded #						
33	17-Aug	0	N Proportion Expanded #						
34	24-Aug	0	N Proportion Expanded #						
35	31-Aug	535	N Proportion Expanded #	58 0.841 450	0 0.000 0	7 0.101 54	4 0.058 31	11 0.159 85	69 1.000 535
36	7-Sep	294	N Proportion Expanded #	68 0.958 282	0 0.000 0	1 0.014 4	2 0.028 8	3 0.042 12	71 1.000 294
37	14-Sep	0	N Proportion Expanded #						
	Total	10,772	Expanded # Proportion	1,881 0.175	0 0.000	5,949 0.552	2,942 0.273	8,891 0.825	10,772

Table 3: Summary of age (GR), sex, and length characteristics of sockeye salmon (Tahltan enhanced) sampled in the lower Stikine River commercial fishery, 2019.

		42		52		Combined *	
		F	M	F	M	F	M
Proportion by age	N	20	52	177	121	197	173
	Proportion	0.054	0.141	0.478	0.327	0.532	0.468
		0.195		0.805			
Fork Length	Count	20	52	177	121	197	173
	Average	542	522	602	629	596	597
	Std. Dev.	16.50	29.61	27.23	28.13	32.04	56.92
	Maximum	590	595	675	689	675	689
	Minimum	522	480	439	540	439	480
Mid-Eye Fork Length	Count	20	52	177	121	197	173
	Average	504	478	557	571	551	543
	Std. Dev.	14.38	25.60	23.74	24.32	27.94	49.21
	Maximum	546	541	620	622	620	622
	Minimum	487	442	414	494	414	442
Post-Orbital Hypural Length	Count	20	52	177	121	197	173
	Average	443	420	487	502	483	477
	Std. Dev.	12.11	22.70	19.98	21.57	23.52	43.64
	Maximum	478	476	541	548	541	548
	Minimum	428	388	367	434	367	388

* : Includes unaged samples.

Table 4: Summary of age (GR), sex, and length characteristics of sockeye salmon (Tahltan wild) sampled in the lower Stikine River commercial fishery, 2019.

		41		42		52		53		63		Combined *	
		F	M	F	M	F	M	F	M	F	M	F	M
Proportion by age	N	1	0	17	0	159	0	1	0	2	0	185	0
	Proportion	0.006 0.000	0.094 0.000	0.883 0.000	0.006 0.000	0.011 0.000	0.006 0.000	0.011 0.000	1.000 0.000				
Fork Length	Count	1	17	159	1	2	185						
	Average	586	550	603	556	584	598						
	Std. Dev.		24.41	26.48		4.24	30.16						
	Maximum	586	595	681	556	587	681						
	Minimum	586	508	515	556	581	508						
Mid-Eye Fork Length	Count	1	17	159	1	2	185						
	Average	543	512	558	516	541	553						
	Std. Dev.		21.28	23.09		3.70	26.30						
	Maximum	543	550	625	516	543	625						
	Minimum	543	474	481	516	538	474						
Post-Orbital Hypural Length	Count	1	17	159	1	2	185						
	Average	475	449	488	453	474	484						
	Std. Dev.		17.91	19.43		3.11	22.14						
	Maximum	475	482	545	453	476	545						
	Minimum	475	418	423	453	472	418						

* : Includes unaged samples.

Table 5: Summary of age (GR), sex, and length characteristics of sockeye salmon (mainstem) sampled in the lower Stikine River commercial fishery, 2019.

		31		41		42		52		53		63		Combined *	
		F	M	F	M	F	M	F	M	F	M	F	M	F	M
Proportion by age	N	3	0	68	0	1	0	96	0	1	0	5	0	229	0
	Proportion	0.017 0.000	0.391 0.000	0.006 0.000	0.552 0.000	0.006 0.000	0.552 0.000	0.006 0.000	0.029 0.000	1.000 0.000					
Fork Length	Count	3	68	1	96	1	5	229							
	Average	587	605	550	602	530	595	602							
	Std. Dev.	42.52	26.04		26.25		21.79	27.04							
	Maximum	630	660	550	671	530	620	671							
	Minimum	545	545	550	540	530	570	530							
Mid-Eye Fork Length	Count	3	68	1	96	1	5	229							
	Average	543	559	511	556	494	550	557							
	Std. Dev.	37.08	22.71		22.89		19.00	23.58							
	Maximum	581	607	511	617	494	572	617							
	Minimum	507	507	511	502	494	529	494							
Post-Orbital Hypural Length	Count	3	68	1	96	1	5	229							
	Average	476	489	449	487	434	482	487							
	Std. Dev.	31.21	19.12		19.27		16.00	19.85							
	Maximum	508	530	449	538	434	500	538							
	Minimum	445	445	449	442	434	464	434							

* : Includes unaged samples.

Commercial Fishery – coho salmon

A total of 500 coho salmon were sampled from the commercial fisheries catch of 5,228 fish from 25 August 25 to 7 September 7. The coho scale analysis has a low priority at the DFO scale lab and results are not expected until late March – early April 2020.

5.0 Budget Summary

The Northern Endowment Fund 90% advance of \$78,733.00 was fully expended. Total project expenditures were \$78,773.77 which was \$40.77 over-budget. The 10% holdback of allocated funds will not be required. A budget summary can be referenced in Appendix 1.

6.0 Conclusions

All objectives of the project were met. As there was no directed Chinook commercial fishery in 2019 as a result of conservation concerns, no Chinook samples were collected. With the cooperation of commercial fishers, 6 spaghetti tags were reported. The spaghetti tags assist in generating a mark-recapture estimate for the species (reported elsewhere).

A directed sockeye commercial fishery that targeted the Tahltan Lake stock occurred during statistical weeks 26 through 29 (the first opening was on June 25 and the last ended on July 15). A directed sockeye commercial fishery that would have targeted the Mainstem stock (statistical weeks 31 through 34; July 28 to August 24) did not occur due to conservation concerns. Although sample targets were met for sockeye salmon, the Mainstem stock was not sampled through directed fisheries. Weekly samples goals were met for coho salmon.

The public posting of fisheries notices for commercial openings and extensions were completed. The coordination of shipping otolith samples to Wrangell, Alaska on a weekly basis was carried out successfully. The communication of important daily/ weekly commercial/ test fishery catch information and results of fish sampling to fisheries managers was performed in a timely fashion.

Sampling of the commercial fishery provides critical information required for in-season fisheries management and for post season fishery analyses and stock assessment.

7.0 Acknowledgements

Jared Dennis completed field operations for the Tahltan and Iskut First Nation under the direction of Cheri Frocklage (Tahltan Fisheries Co-ordinator) and Kerry Carlick (Tahltan Fisheries Program Manager).

Mathieu Ducharme, Shawn McFarland, Adam Brennan, and Mark McFarland completed field operations and project expediting for DFO under the direction of Johnny Sembsmoen and Jody Mackenzie-Grieve.

B.C. Yukon Air Service Ltd. and Tundra Helicopters Ltd. provided air support for the project.

The project would not have been successful without the participation of Stikine River commercial fishers, Great Glacier Salmon Ltd. and Stikine Salmon.

Appendix 1 - Budget Summary

Fisheries and Oceans Canada - PSC Project Budget Financial Report

Name of Project and PSC#:

Stikine River Canadian Commercial Fishery Sampling and Stock Assessment (I-16)

EXPENDITURES

Labour DFO Employee Salaries and Benefits							
Position	Expenditures (DFO Inkind + PSC)	DFO-Inkind	PSC funding (expenses)	Approved Budget (PSC Funding)	Total PSC Funded Expenditure	Variance	
Manager	Salary \$	-					
	Benefits \$	-					
Biologist	Salary \$	4,050.00	\$ 4,050.00				
	Benefits \$	1,093.50	\$ 1,093.50				
Technicians (EG-4 & EG-3)	Salary \$	27,075.00	\$ 27,075.00				
	Benefits \$	7,310.25	\$ 7,310.25				
Total Expended	\$ 38,628.76	\$ 38,628.76	\$ -	\$ -	\$ -	\$ -	\$ -

Subcontractors & Consultants							
Contract	Contract Amount Expended	Inkind	PSC funding (expenses)	Approved Budget	Total PSC Funded Expenditure	Variance	
Air charter	\$ 20,133.83		\$ 20,134	21,000			
Boat Charter	\$ 12,705.00		\$ 12,705	10,500			
TFN Technician	\$ 22,628.27		\$ 22,628	27,621			
Otolith Delivery	\$ 1,430.91		\$ 1,431	1,500			
	\$ -						
Total Expended	\$ 66,898.01	\$ -	\$ 66,898.01	\$ 80,621.00	\$ 66,898.01	\$ 3,722.99	
	\$ 39,528.75			Total \$ 60,621.00	\$ 56,898.01	\$ 3,722.99	

Site / Project Costs							
Item	Amount Expended	Inkind	PSC funding (expenses)	Approved Budget	Total PSC Funded Expenditure	Variance	
Travel	\$ 3,127.10		\$ 3,127	4,800			
Small Tools & Equipment	\$ 467.00		\$ 467	1,500			
Site Supplies & Materials	\$ 4,470.80		\$ 4,471	4,400			
Equipment Rental	\$ -			-			
Work & Safety Gear	\$ 660.32		\$ 660	800			
Repairs & Maintenance	\$ 3,099.68		\$ 3,100	4,000			
Permits	\$ 6,681.94		\$ 6,682	7,000			
Other costs	\$ 2,966.92		\$ 2,967	3,000			
Total Expended	\$ 21,493.76	\$ -	\$ 21,493.76	\$ 26,600.00	\$ 21,493.76	\$ 4,006.24	
	\$ -			\$ 25,500.00	\$ 21,493.76	\$ 4,006.24	

Training Costs							
Item	Amount Expended	Inkind	PSC funding (expenses)	Approved Budget	Total PSC Funded Expenditure	Variance	
safety and health training	\$ 1,200.00	\$ 1,200.00					
	\$ -						
Total Expended	\$ 1,200.00	\$ 1,200.00	\$ -	\$ -	\$ -	\$ -	
	\$ 1,200.00			\$ -	\$ -	\$ -	

Fisheries and Oceans Canada - PSC Project Budget Financial Report

Name of Project and PSC#:

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Overhead / Indirect Costs						
Item	Amount Expended	InKind	PSC funding (expenses)	Approved Budget	Total PSC Funded Expenditure	Variance
Office space; including utilities, etc.	\$ -					
Insurance	\$ -					
Office supplies	\$ 300.00	300				
Telephone & long Distance	\$ 382.00		382	1,360		
Photocopies & printing	\$ -					
Indirect/overhead costs	\$ 800.00	800				
Administration and financial management	\$ -					
(If the PSC contribution to indirect costs exceeds 30% of the total PSC grant, submission of back-up documentation justifying the expense is required.)						
Total Expended	\$ 1,482.00	\$ 1,100.00	\$ 382.00	\$ 1,360.00	\$ 382.00	\$ 978.00
	\$ 1,100.00			\$ 1,360.00	\$ 382.00	\$ 978.00

Capital Costs / Assets (Value > \$250.00)						
Item	Amount Expended	InKind	PSC funding (expenses)	Approved Budget	Total PSC Funded Expenditure	Variance
	\$ -					
	\$ -					
	\$ -					
	\$ -					
Total Expended	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	\$ -			\$ -	\$ -	\$ -

Financial Report

Categories	DFO InKind	PSC funding (expenses)	Approved Budget (PSC Grant)	Project Expenditures (PSC\$)	Variance
Labour	\$ 39,628.75		\$ 60,621.00	\$ 58,898.01	\$ 3,722.99
Site / Project Costs	\$ -		\$ 25,500.00	\$ 21,493.76	\$ 4,006.24
Training	\$ 1,200.00		\$ -	\$ -	\$ -
Overhead / Indirect Costs	\$ 1,100.00		\$ 1,360.00	\$ 382.00	\$ 978.00
Capital Costs / Assets	\$ -		\$ -	\$ -	\$ -
TOTAL			\$ 87,481.00	\$ 78,773.77	\$ 8,707.23

PSC Project Funding Grant Advance Amount Received	\$ (78,733.00)	(funds rec enter as negative)
PSC Project Funding Grant Amount Remaining to be Paid		(positive refundable to PSC)
Difference Between Grant Amount and Project Expenditures	\$ (40.77)	

Fisheries and Oceans Canada - PSC Project Budget Financial Report

Name of Project and PSC#:

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Stikine River Canadian Commercial Fishery Sampling and Stock Assessment (I-16)

Justification if Variance

90% of award to DFO was advanced; overspent by approx \$41

Project Manager Name

Jody Mackenzie-Grieve

Project Manager Signature

MackenzieGrieve, Jody
Digitally signed by MackenzieGrieve, Jody
Date: 2020.03.31 08:04:42 -0700

Date

31-Mar-20

DFO Responsibility Center Manager Name

Bill Waugh

DFO Responsibility Center Manager Signature

Waugh, William
Digitally signed by Waugh, William
Date: 2020.03.31
16:33:19 -0700

Date

31-Mar-20