

DAILY SCIENCE LOG BOOK

1 of 2

MISSION
NUMBER

IOS 2017-52
SOG 2017-04

DATE:

From: 20-JUNE-2017 To: 4-JULY-2017

VESSEL:

SEA CREST

PROJECT(S):

SOG Juv. Salmon project -
NEVILLE

Water Properties Group
Fisheries and Oceans Canada
Institute of Ocean Sciences
Ocean Sciences Division
North Saanich, BC, Canada

WaterProperties.ca

**** The following 3 pages are VERY IMPORTANT as they document equipment and settings used on board ****

These pages are to be completed by the CTD Technician setting up the equipment, the Watch Leader on board, and the Chief Scientist **MUST** verify that all relevant sections are completed prior to leaving the vessel. *Any mid-cruise changes to be noted by watch leader in the notes.*

Data logging computer: _____

Data acquisition program: _____

CTD deck unit make: _____ model: _____ serial number: _____

Primary CTD

Make: Seabird model: 25 serial number: 2543784-0404

Primary temperature serial number: 054843

Primary conductivity serial number: 04178

Secondary temperature serial number: _____

Secondary conductivity serial number: _____

Transmissometer: _____ Model: _____ s/n: _____

Transmissometer: _____ Model: _____ s/n: _____

Fluorometer: Model _____ Cable gain: FLRTD s/n: 4185 P, S or NO pump?

Fluorometer: Model _____ Cable gain: _____ s/n: _____ P, S or NO pump?

Oxygen sensor: _____ Model: 43 s/n: 431176 P, S or NO pump?

PAR sensor: _____ Model: _____ s/n: _____ Surface PAR? Y / N

Other sensors: pt Sensor s/n: 190852 P, S or NO pump?

Other sensors: _____ s/n: _____ P, S or NO pump?

Other sensors: _____ s/n: _____ P, S or NO pump?

Other sensors: _____ s/n: _____ P, S or NO pump?

Secondary CTD

Make: _____ model: _____ serial number: _____

Primary temperature serial number: _____

Primary conductivity serial number: _____

Secondary temperature serial number: _____

Secondary conductivity serial number: _____

Transmissometer: _____ Model: _____ s/n: _____

Transmissometer: _____ Model: _____ s/n: _____

Fluorometer: Model _____ Cable gain: _____ s/n: _____ P, S or NO pump?

Fluorometer: Model _____ Cable gain: _____ s/n: _____ P, S or NO pump?

Oxygen sensor: _____ Model: _____ s/n: _____ P, S or NO pump?

PAR sensor: _____ Model: _____ s/n: _____ Surface PAR? Y / N

Other sensors: _____ s/n: _____ P, S or NO pump?

Other sensors: _____ s/n: _____ P, S or NO pump?

Other sensors: _____ s/n: _____ P, S or NO pump?

Other sensors: _____ s/n: _____ P, S or NO pump?

CTD calibration bottle location (height above CTD in metres): _____

This also includes the bottle location above the CTD on non-rosette casts (e.g., W.E. Ricker)

DAILY SCIENCE LOG

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Month JUNE				Year 2017		Vessel Sea Crest				Cruise ID IOS 2017-52 SOG 2017-04					
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
001	1	20	04:10	BE	SET		49° 15.460	123° 49.110	402		-			☐	
002	↓		04:52		CTD		49° 15.000	123° 47.300	408	250	-		YJ	☐	
003	2		13:25		SET		49° 47.200	124° 40.200	160		-			☐	
004			14:25		CTD		49° 43.368	124° 41.925	318	250	-		YJ	☐	
005	↓		14:35		NET		49° 43.432	124° 42.122	325	↓	-		↓	☐	FM ST 41680 EN 44340
006	3		15:37		SET		49° 41.160	124° 39.140	272		-			☐	
007	4		17:00		↓		49° 37.420	124° 43.200	127		-			☐	
008	5		17:25		↓		49° 35.880	124° 37.680	85		-			☐	
009			19:41		CTD		49° 37.518	124° 48.155	89	80	-		YJ	☐	
010	↓		19:50		NET		49° 37.666	124° 48.293	87	↓	-		↓	☐	FM ST 44348 45432
011	6		20:35		SET		49° 39.583	124° 46.773	109		-			☐	
012	7		22:15		↓		49° 43.039	124° 47.418	173		-			☐	
013	8	↓	23:38		↓		49° 46.319	124° 44.695	355		-			☐	
014		21	00:43		CTD		49° 48.059	124° 44.318	233	220	-		YJ	☐	
015	A		01:20		NET		49° 47.953	124° 43.967	221	210	-		↓	☐	1ST ATTEMPT FAILED REDONE FM 49610-4985
016	↓ B		01:41		↓		49° 47.892	124° 43.849	220	50	-		↓	☐	FM 4935-49818
017	9		13:15		SET		49° 48.012	124° 33.276	222		-			☐	
018			14:24		CTD		49° 46.056	124° 30.937	311	250	-		YJ	☐	
019	↓	↓	15:02	↓	NET		49° 45.061	124° 28.150	306	↓	-		↓	☐	1ST ATTEMPT FAILED REDONE 53120-56615

Event Type:

BOT = Bottle cast (no CTD)
CTD = Standalone CTD
ROS = CTD in Rosette
SET = Fish Set

LOOP = Sea Water Loop

MOR = Mooring
NET = Plankton Net Haul
DRF = Drifter
=

Bottle Firing Method:

US = Up / Stop (default)
UN = Up / No stop
DN = Down / No stop

Notes:

Time Code:

BE = Beginning Time of Cast
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MR = Messenger Release Time
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CTD Transmissometer and Fluorometer to be cleaned before each cast -- do not use Ammonia products

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Month JUNE				Year 2017		Vessel Sea Crest			Cruise ID 2017-52		SOG2017-04				
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
							Latitude	Longitude							
020	10	21	15:53	BE	SET		49°46.214	124°31.592	297		-			☐ ☐	
021	11		17:15				49°45.895	124°28.177	324		-			☐ ☐	
022	12		19:00				49°45.062	124°20.368	115		-			☐ ☐	
023	13		20:30				49°40.326	124°16.326	361		-			☐ ☐	
024	14		22:00		↓		49°37.608	124°14.319	331		-			☐ ☐	
025	↓		23:00		CTD		49°36.146	124°10.258	310	250	-		YJ	☐ ☐	CAPT. OPERATES WINCH NO ONE IN BRIDGE
026	↓	↓	23:25		NET		49°35.395	124°08.409	308	↓	-		↓	☐ ☐	SHIP DRIFT 308 → 240.M. NET HIT BTM NO SAMPLE
027	15	22	08:50		SET		49°38.048	124°10.099	225		-			☐ ☐	SWITCHING TO PORTABLE GPS on 23RD
028	16		13:15		↓		49°23.007	123°49.462	724	250	-			☐ ☐	
029	↓		14:23		CTD		49°23.643	123°52.954	297	250	-		YJ	☐ ☐	
030	↓		14:38		NET		49°23.554	123°52.948	291	↓	-		↓	☐ ☐	FM 59505-63330
031	17		15:10		SET		49°24.188	123°53.299	234		-			☐ ☐	
032	18		16:55				49°26.534	123°53.375	206		-			☐ ☐	
033	19	↓	18:05				49°25.704	123°48.681	228		-			☐ ☐	HYDRAULIC PROB
034	20	23	13:15		↓		49°13.141	123°44.761	307		-			☐ ☐	
035	↓		14:35		CTD		49°14.668	123°41.246	391	250	-		YJ	☐ ☐	
036	↓		14:48		NET		49°14.447	123°40.670	391	↓	-		↓	☐ ☐	FM 63510-66152
037	21		15:30		SET		49°14.754	123°39.591	376		-			☐ ☐	
038	22	↓	17:12	↓	↓		49°16.258	123°34.223	322		-			☐ ☐	

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039	23	23	19:00	BE	SET		49°16.327	123°31.599	338		-			☐ ☐	
040	24	↓	20:04				49°15.711	123°28.240	263		-			☐ ☐	
041	25	↓	23:20				49°32.744	123°16.143	137		-			☐ ☐	
042	26	24	00:20		↓		49°29.936	123°17.347	238		-			☐ ☐	
043	↓	↓	01:17		CTD		49°28.187	123°17.382	246	230	-		YJ	☐ ☐	
044	↓	↓	01:34	↓	NET		49°28.096	123°17.350	247	230	-		↓	☐ ☐	FM 66158-68715
← END OF DAY →							°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	
045	SET 27	24	13:16	BE	SET		49°37.015	124°06.654	192		-			☐ ☐	
046	↓	24	14:19	BE	CTD		49°38.999	124°05.710	276	250	-			☐ ☐	
047	↓	24	14:41	BE	NET		49°33.895	124°05.596	271	250	-			☐ ☐	FM ST 68715 EN 71185
			:				°	°			-			☐ ☐	
048	SET 28	24	15:10	BE	SET		49°33.009	124°04.931	250		-			☐ ☐	
			:				°	°			-			☐ ☐	
049	SET 29	24	16:20	BE	SET		49°28.732	124°03.407	231		-			☐ ☐	
			:				°	°			-			☐ ☐	
050	SET 30	24	17:35	BE	SET		49°26.245	124°01.872	393		-			☐ ☐	
051	↓	24	18:34	BE	CTD		49°23.449	124°02.62	296	250	-			☐ ☐	
052	↓	24	18:55	BE	NET		49°23.377	124°02.46	298	250	-			☐ ☐	FM ST 71185 EN 73980

Event Type:

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DRF = Drifter
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UN = Up / No stop
DN = Down / No stop

Time Code:

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Notes:

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Month <u>JUNE</u>			Year <u>2017</u>			Vessel <u>SEA CREST</u>			Cruise ID <u>2017-52; SOG 2017-04</u>						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
053	SET 31	24	19:40	BE	SET		49°24.82	124°05.265	353		-			☐ ☐	
			:				°	°			-			☐ ☐	
054	SET 32	24	21:05	BE	SET		49°23.254	124°09.451	291		-			☐ ☐	
			:				°	°			-			☐ ☐	
055	SET 33	24	22:20	BE	SET		49°20.623	124°14.062	287		-			☐ ☐	
			:				°	°			-			☐ ☐	
056	SET 34	24	23:40	BE	SET		49°24.585	124°17.030	336		-			☐ ☐	
057		25	00:31	BE	CTD		49°36.528	124°20.009	324	250	-			☐ ☐	
058	A	25	01:06	BE	NET		49°26.528	124°20.080	324	250	-			☐ ☐	FMLST 73980 EN 79385
059	↓ B	25	01:29	BE	NET		49°26.575	124°19.992	320	50	-			☐ ☐	FM-ST 79385 EN 80800
←	END OF DAY →						°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	
060	SET 35	25	13:10	BE	SET		49°27.272	124°20.9	274		-			☐ ☐	
			:				°	°			-			☐ ☐	
061	SET 36	25	14:22	BE	SET		49°24.989	124°25.242	349		-			☐ ☐	
			:				°	°			-			☐ ☐	
062	SET 37	25	15:40	BE	SET		49°23.275	124°29.281	98		-			☐ ☐	
			:				°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	

Event Type:

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 DRF = Drifter
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Bottle Firing Method:

US = Up / Stop (default)
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 DN = Down / No stop

Notes:

Time Code:

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CTD Transmissometer and Fluorometer to be cleaned before each cast -- do not use Ammonia products

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Month JUNE			Year 2017			Vessel SEA CREST			Cruise ID 2017-52; SOG 2017-04						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
063	SET 38	25	16:53	BE	SET		49°25.571	124°35.095	105		-			☐ ☐	
064		25	17:15	BE	CTD		49°27.189	124°37.381	114	100	-			☐ ☐	
065	↓	25	17:25	BE	NET		49°27.270	124°37.413	123	110	-			☐ ☐	FM-ST 80800 EN 81030
			:				°	°			-			☐ ☐	
066	SET 39	25	18:50	BE	SET		49°28.080	124°36.618	164		-			☐ ☐	
			:				°	°			-			☐ ☐	
067	SET 40	25	20:10	BE	SET		49°30.277	124°31.008	165		-			☐ ☐	
			:				°	°			-			☐ ☐	
068	SET 41	25	21:50	BE	SET		49°33.242	124°24.251	144		-			☐ ☐	
			:				°	°			-			☐ ☐	
069	SET 42	25	22:50	BE	SET		49°35.066	124°25.111	338		-			☐ ☐	
			:				°	°			-			☐ ☐	
070	SET 43	26	00:05	BE	SET		49°38.288	124°31.750	294		-			☐ ☐	
071		26	01:48	BE	CTD		49°43.666	124°40.723	356	250	-			☐ ☐	
072	↓	26	02:19	BE	NET		49°43.642	124°40.465	356	250	-			☐ ☐	* Peter Chondler. Station 12
← END OF DAY →			:				°	°			-			☐ ☐	FM-ST 81030 EN 81040
			:				°	°			-			☐ ☐	FIRST ATTEMPT FAILED Re-Done
			:				°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	

Event Type:

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 DRF = Drifter
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Bottle Firing Method:

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Month <u>JUNE</u>			Year <u>2017</u>			Vessel <u>SEA CREST</u>			Cruise ID <u>2017-52; SOG 2017-04</u>						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
							Latitude	Longitude							
073	SET 44	26	13:05	BE	SET		49°58.88	124°50.76	246		-			☐ ☐	
074		26	14:00	BE	CTD		50°00.581	124°52.851	271	250	-			☐ ☐	
075	↓	26	14:23	BE	NET		50°00.566	124°52.652	276	250	-			☐ ☐	FM-ST 86040 EN 89980
			:				°	°			-			☐ ☐	
076	SET 45	26	15:00	BE	SET		50°02.386	124°53.883	357		-			☐ ☐	
			:				°	°			-			☐ ☐	
077	SET 46	26	16:12	BE	SET		50°06.884	124°47.058	456		-			☐ ☐	
			:				°	°			-			☐ ☐	
078	SET 47	26	17:11	BE	SET		50°09.184	124°44.023	553		-			☐ ☐	
079		26	18:04	BE	CTD		50°11.344	124°44.895	430	250	-			☐ ☐	
080	↓	26	18:21	BE	NET		50°11.437	124°45.011	429	250	-			☐ ☐	
			:				°	°			-			☐ ☐	RBR MOVED TOWARDS GREEN MESH OF NET
081	SET 48	26	19:57	BE	SET		50°17.937	124°49.936	505		-			☐ ☐	
			:				°	°			-			☐ ☐	
082	SET 49	26	20:51	BE	SET		50°18.064	124°51.417	436		-			☐ ☐	
083		26	21:43	BE	CTD		50°17.873	124°47.060	442	250	-			☐ ☐	
084	↓	26	22:10	BE	NET		50°17.999	124°47.467	415	250	-			☐ ☐	1st Attempt failed NOT RE-done -
			:				°	°			-			☐ ☐	FM-ST 92765 EN 95150
085	SET 50	26	23:40	BE	SET		50°19.884	124°58.953	329		-			☐ ☐	

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Month <u>JUNE</u>				Year <u>2017</u>			Vessel <u>SEACREST</u>			Cruise ID <u>2017-52 ; SOG-2017-04</u>					
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
086	SET 51	27	00:35	BE	SET		50°18.247	125°56.658	511		-			☐ ☐	
087		27	01:29	BE	CTD		50°15.294	124°59.888	496	250	-			☐ ☐	
088	↓	27	01:52	BE	NET		50°15.284	124°59.764	493	250	-			☐ ☐	FM-ST 95150 EN 98075
← END OF DAY →							°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	
089	SET 52	27	13:11	BE	SET		50°08.851	125°04.264	340		-			☐ ☐	
			:				°	°			-			☐ ☐	
090	SET 53	27	14:16	BE	SET		50°05.852	125°08.830	190		-			☐ ☐	
091		27	15:26	BE	CTD		50°02.629	125°07.261	258	245	-			☐ ☐	
092	↓	27	15:44	BE	NET		50°02.417	125°07.019	258	245	-			☐ ☐	
			:				°	°			-			☐ ☐	
093	SET 54	27	16:10	BE	SET		50°02.11	125°06.802	258		-			☐ ☐	
			:				°	°			-			☐ ☐	
094	SET 55	27	18:15	BE	SET		49°55.215	125°05.653	129		-			☐ ☐	
095		27	19:14	BE	CTD		49°56.884	125°04.265	286	250	-			☐ ☐	
096	↓	27	19:26	BE	NET		49°56.680	125°04.393	284	250	-			☐ ☐	FM-ST 98075 EN 102260
			:				°	°			-			☐ ☐	
097	SET 56	27	19:58	BE	SET		49°55.951	125°00.801	249		-			☐ ☐	
			:				°	°			-			☐ ☐	

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BO = Bottom Time of Cast
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CTD Transmissometer and Fluorometer to be cleaned before each cast -- do not use Ammonia products

DE = Deployment Time
MR = Messenger Release Time
RE = Recover Mooring Time

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Month JUNE				Year 2017			Vessel SEA CREST			Cruise ID 2017-52; SOG 2017-04					
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Tms/FI Cleaned	Comments
							Latitude	Longitude							
098	SET 57	27	21:10	BE	SET		49°51.046	124°56.523	180		-			☐ ☐	
			:				°	°			-			☐ ☐	
099	SET 58	27	22:20	BE	SET		49°59.309	125°01.399	125		-			☐ ☐	
100	↓	27	23:16	BE	CTD		50°00.280	125°05.477	256	245	-			☐ ☐	
101	↓	27	23:31	BE	NET		50°00.160	125°05.401	255	245	-			☐ ☐	FM-ST 01850 EN 17125*
			:				°	°			-			☐ ☐	
102	SET 59	28	00:25	BE	SET		50°02.126	125°07.002	253		-			☐ ☐	END OF DAY
103	60		13:25		↓		49°54.727	125°07.046	68		-			☐ ☐	
104	↓		14:20		CTD		49°53.432	125°04.583	114	100	-		YJ	☐ ☐	
105	↓		14:30		NET		49°53.492	125°04.565	120	110	-		↓	☐ ☐	FM-ST 17215 EN 18965
106	61		15:00		SET		49°53.207	125°03.675	114		-			☐ ☐	
107	62		16:25		↓		49°50.356	124°59.993	118		-			☐ ☐	
108	63		17:36		↓		49°49.068	124°50.025	140		-			☐ ☐	
109	↓		18:32		CTD		49°50.382	124°32.793	331	250	-		YJ	☐ ☐	
110	↓		18:44		NET		49°50.275	124°32.742	340	↓	-		↓	☐ ☐	FM-ST 18965 EN 21440
111	64		19:20		SET		49°51.881	124°54.156	158		-			☐ ☐	
112	65		20:50		↓		49°53.065	124°52.201	256		-			☐ ☐	
113	66		22:10		↓		49°50.787	124°49.639	223		-			☐ ☐	
114	67	↓	23:25	↓	↓		49°49.036	124°43.976	182		-			☐ ☐	

Event Type:

BOT = Bottle cast (no CTD)
CTD = Standalone CTD
ROS = CTD in Rosette
SET = Fish Set

LOOP = Sea Water Loop

MOR = Mooring
NET = Plankton Net Haul
DRF = Drifter

Bottle Firing Method:

US = Up / Stop (default)
UN = Up / No stop
DN = Down / No stop

Time Code:

BE = Beginning Time of Cast
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CTD Transmissometer and Fluorometer to be cleaned before each cast -- do not use Ammonia products

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Month JUNE				Year 2017			Vessel Sea Crest			Cruise ID 2017-52		SOG 2017-04			
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
							Latitude	Longitude							
115	67	29	00:52	BE	CTD		49° 43.762	124° 32.706	350	250	-		YJ	☐	Petar Chandler Site 12 2nd Sampling
116	A		01:07		NET		49° 43.824	124° 32.757	350	↓	-		↓	☐	FM-ST 21445 EN 23720
117	↓ B		01:23		↓		49° 43.916	124° 32.804	352	50	-			☐	FM-ST 23720 EN 24070
118	68		13:15		SET		49° 24.826	123° 48.318	70		-			☐	
119	↓		14:24		CTD		49° 24.268	123° 44.879	160	150	-		YJ	☐	
120	↓		14:37		NET		49° 24.349	123° 45.025	159	↓	-		↓	☐	FM-ST 24070 EN 25065
121	69		15:10		SET		49° 23.340	123° 41.147	168		-			☐	
122	70		16:35		↓		49° 22.806	123° 36.670	172		-			☐	
123	71		17:50		↓		49° 20.241	123° 35.373	132		-			☐	
124	↓		19:05		CTD		49° 19.102	123° 37.634	277	250	-		YJ	☐	PAUSED @ 220UP 3SEC
125	↓		19:22		NET		49° 19.640	123° 37.631	280	↓	-		↓	☐	FM-ST 25065 EN 27022
126	72		19:48		SET		49° 18.395	123° 38.953	244		-			☐	
127	73		21:08		↓		49° 15.283	123° 43.673	392		-			☐	
128	74		22:15		↓		49° 13.069	123° 45.463	276		-			☐	
129	75	↓	23:25		↓		49° 11.555	123° 41.680	244		-			☐	
130	↓	30	00:26		CTD		49° 11.323	123° 37.530	361	250	-		YJ	☐	
131	↓		00:41		NET		49° 11.499	123° 37.648	375	↓	-		↓	☐	FM-ST 27022 EN 29720
132	76		13:15		SET		49° 05.876	123° 46.071	58		-			☐	
133	↓	↓	13:53	↓	CTD		49° 04.427	123° 44.333	56	50	-		YJ	☐	

CTD Transmissometer and Fluorometer to be cleaned before each cast -- do not use Ammonia products

Event Type: BOT = Bottle cast (no CTD) CTD = Standalone CTD ROS = CTD in Rosette SET = Fish Set

LOOP = Sea Water Loop MOR = Mooring NET = Plankton Net Haul DRF = Drifter

Bottle Firing Method: US = Up / Stop (default) UN = Up / No stop DN = Down / No stop

Time Code: BE = Beginning Time of Cast BO = Bottom Time of Cast EN = End Time of Cast

CTD Transmissometer and Fluorometer to be cleaned before each cast -- do not use Ammonia products

DE = Deployment Time MR = Messenger Release Time RE = Recover Mooring Time

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Month <u>JUNE - JULY</u>			Year <u>2017</u>			Vessel <u>SEA CREST</u>			Cruise ID <u>2017-52 SOG2017-04</u>						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
134	76	30	14:00	BE	NET		49°04.444	123°44.323	57	50	-		YJ	☐	FM-ST 29720 EN 30045
135	77		14:35		SET		49°01.581	123°43.749	61		-			☐	
136	78		15:45				48°59.861	123°43.588	70		-			☐	
137	79		18:42		↓		48°44.907	123°36.099	55		-			☐	
138			21:52		CTD		48°44.863	123°35.564	54	50	-		YJ	☐	
139	↓		22:03		NET		48°44.744	123°35.485	59	↓	-		↓	☐	
140	80		22:30		SET		48°44.216	123°33.185	129		-			☐	
141	81	↓	23:30		↓		48°43.225	123°31.814	77		-			☐	
142		1	00:07		CTD		48°42.448	123°30.408	73	65	-		YJ	☐	
143	↓		00:17		NET		48°42.468	123°30.551	↓	↓	-		↓	☐	FM-ST 30610 EN 30990
144	82		14:05		SET		48°49.824	123°07.942	183		-			☐	
145			15:05		CTD		48°51.904	123°09.407	146	140	-		YJ	☐	
146	↓		15:18		NET		48°51.947	123°09.331	145	↓	-		↓	☐	FM-ST 31010 EN 31905
147	83		16:20		SET		48°55.728	123°18.314	182		-			☐	
148	84		17:25				48°57.617	123°22.852	214		-			☐	
149	85		18:40				48°59.234	123°28.099	158		-			☐	
150	86		20:15		↓		49°03.791	123°33.852	168		-			☐	
151			21:12		CTD		49°06.226	123°36.121	208	195	-		YJ	☐	
152	↓	↓	21:24	↓	NET		49°06.370	123°36.271	203	↓	-		↓	☐	FM-ST 31910 EN 33750

Event Type:

BOT = Bottle cast (no CTD)
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SET = Fish Set

LOOP = Sea Water Loop

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Bottle Firing Method:

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Time Code:

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Notes:

DAILY SCIENCE LOG BOOK

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NUMBER

2017-52
SOG 2017-04

DATE:

From: 20 JUNE 2017

To: 4 JULY 2017

VESSEL:

SEA CREST

PROJECT(S):

SOG JUV. Salmon Project

Neville

Water Properties Group
Fisheries and Oceans Canada
Institute of Ocean Sciences
Ocean Sciences Division
North Saanich, BC, Canada

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DAILY SCIENCE LOG

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Month <u>JULY</u>				Year <u>2017</u>			Vessel <u>SEA CREST</u>			Cruise ID <u>2017-52</u> <u>SOG2017-04</u>					
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Depth	Max Pressure	Sample Serial Numbers ^{FM}	# of Bottles	Watch Keepers	Tms/FI Cleaned	Comments
153	87	1	21:50	BE	SET		49°06.537	123°34.456	252		-			□□	
154	88	↓	23:00		↑		49°09.020	123°33.780	355		-			□□	
155	89	2	00:05		↓		49°07.198	123°29.416	349		-			□□	
156'			01:00		CTD		49°09.097	123°29.031	320	250	-		YJ	□□	
157	↓		01:14		NET		49°09.259	123°29.173	326	250	33750-36266		↓	□□	
158	90		14:45		SET		49°13.139	123°18.338	108		-			□□	
159'			15:43		CTD		49°11.006	123°19.062	129	120	-		DC	□□	
160	↓		15:54		NET		49°11.036	123°19.171	132	120	36266-37525		↓	□□	
161	91		16:20		SET		49°09.220	123°19.388	129		-			□□	
162	92		18:50		↓		49°01.180	123°15.501	106		-			□□	
163'			19:55		CTD		49°02.813	123°19.528	176	165	-		DC	□□	
164	↓	↓	20:07		NET		49°03.010	123°19.747	176	165	37525-38408		↓	□□	
165	93	3	14:45		SET		47°59.681	122°39.015	73		-			□□	
166'	↓		15:22		CTD		48°00.984	122°38.522	105	90	-		DC	□□	
167	94		17:36		SET		47°47.375	122°25.059	214		-			□□	
168	95		18:35		SET		47°42.254	122°25.512	200		-			□□	
169	96		20:05		SET		47°33.361	122°25.515	205		-			□□	
170'	↓		20:44		CTD		47°32.037	122°24.854	188	180	-		DC	□□	
171	97	↓	21:25	↓	SET		47°28.742	122°23.785	185		-			□□	

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Month July				Year 2017			Vessel Sea Crest			Cruise ID 2017-52 SOG 2017-04					
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
172	98	3	22:30	BE	SET		47°25.932	122°22.373	178		-			☐ ☐	
173	99	↓	23:48		↓		47°21.697	122°25.251	170		-			☐ ☐	
174	100	4	00:50		↓		47°20.896	122°22.594	176		-			☐ ☐	
175	↓		01:25		CTD		47°20.244	122°24.055	160	150	-		DC	☐ ☐	
176	101		13:07		SET		47°20.795	122°32.244	52		-			☐ ☐	
177	↓		13:52		CTD		47°22.043	122°31.990	89	80	-		DC	☐ ☐	
178	102		14:26		SET		°	°	64		-			☐ ☐	
179	103		15:18		↓		47°28.980	122°30.421	55		-			☐ ☐	
180	↓	↓	15:59	✓	CTD		47°30.150	122°29.454	100	90	-		DC	☐ ☐	
			:				°	°			-			☐ ☐	
== END OF SURVEY ==							°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	

Event Type:

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