

Water Properties Group Sampling Log Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2014-01 Station: Haro 59 Event #: Ship: Tully UTC Date (dd mmm yyyy): 11 Oct 2014

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments	
			Target Pressure	Confirmed Pressure	DIC	Oxy	Nut-fr	Sal	pH	BSi	Nd					
1	1	1	Bot-10	✓ 218	x	x	x		x							
2	5	2	200	✓ 200	xx	x	x		x							
3		3	175	✓ 175	x	x	x		xxx							
4		4	150	✓ 151	x	x	x		x							
5		5	125	✓ 125	x	xx	x		x							
6		6	100	✓ 101	x	x	x		x							
7		7	80	✓ 80	xx	x	xx		x							
8		8	60	✓ 60	x	x	x		x							
9		9	50	✓ 50	x	x	x		x							
10		10	40	✓ 41	x	x	x		x							
11		11	30	✓ 31	x	x	x		x							
12		12	20	✓ 20	x	x	x		x							
13		13	10	✓ 10	xx	x	x		xxx							
14		14	5	✓ 5	x	xx	x		x							
15		15	0	✓ 1.6	x	x	x		x							
16	2	16	Bot-10	✓ 218						x						
17	3	17	Bot-10	✓ 218						x						
18	4	18	Bot-10	✓ 218							x					
19		19	Mid	✓ 100						x						
20		20	Mid	✓ 100						x						
21		21	Mid	✓ 100							x					
22		22	0	✓ 1.7						x						
23		23	0	✓ 1.7						x						
24		24	0	✓ 1.7						x						

Profile type: (ROS) TRM X-Niskin other?
Watchkeeper(s): 24 112

Bottom Depth: 232 m
Transmisso Cleaned: Y / N

Time		UTC	Local
Start		0646	2246
Bottom		0650	2250
End		0708	2308

Positional Information
Lat: 48 ° 36.990 N
Lon: 123 ° 14.89 W

Bottom
Lat: 48 ° 37.00 N
Lon: 123 ° 14.91 W

End
Lat: 48 ° 37.11 N
Lon: 123 ° 14.98 W

Extra comments:
Debby and Roger
OUT-OF-ORDER
1-12-21

1 16 17 18 2-6 19 20 21 7-15 22 23 24

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2014-01

Station: JF2

Event #: 3

Ship: Tully

UTC Date (dd/mm/yyyy): 11/1/14

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials		Comments									
			Target Pressure	Confirmed Pressure	Bsi	Nd										
1		25	Bot-10	175	X											
2		26	Bot-10	175	X											
3		27	Bot-10	175		X										
4		28	Bot-10	175		X										
5		29	Inter 1	125	X											
6		30	Inter 1	125	X											
7		31	Inter 2	100	X											
8		32	Inter 2	100	X											
9		33	Inter 3	80	X											
10		34	Inter 3	80	X											
11		35	Inter 3	110		X										
12		36	Inter 3	110		X										
13		37	Subs	25	X											
14		38	Subs	25	X											
15		39	5	0		X										
16		40	5	0		X										
17		41	0	0	X											
18		42	0	0	X											
19																
20																
21																
22																
23																
24																

Version: 25 Nov 2011

Transmissometer to be cleaned before each cast, do not use Ammonia products

http://www.pac.dfo-mpo.gc.ca/sci/osap/projects/waterproperties/

Profile type: ☒ ROS/TRM ☐ X-Niskin ☐ other?
Watchkeeper(s): H.V.

Bottom Depth: 187 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1300	0500
Bottom	1304	
End	1317	

Positional Information
Start
Lat: 48° 0' 18.02" N
Lon: 123° 0' 59.92" W

Bottom
Lat: 48° 0' 18.01" N
Lon: 123° 0' 59.92" W

End
Lat: 48° 0' 18.00" N
Lon: 123° 0' 59.93" W

Extra comments:
Roger 123456 1112
7, 8, 9, 10, 13, 14
15, 16, 17, 18

②

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

11-2-14

Watchkeeper(s): H.M.

Transmisso Cleaned: Y /

Start	.1347	054
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End	1407	
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Lat: 40° 17.99

Len: 123 * 59.97

Lat: 48.080

Lon: 123 ° 59 ' 16 "

4000

on: 123.59.96

Debbby

<http://www.pac.dfo-mpo.gc.ca/sci/osap/projects/watermonoties/>

Water Properties Group Sampling Log Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: - 2014-01 Station: P1 Event #: 7 Ship: Tully UTC Date (dd/mm/yyyy): 11 Feb 2014

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC	DIC	Oxy	pH	Bsi	Nd		

1		56	Bot-10	✓	125	x				xx	xx	xxx					
2		57	30 / Max	✓	30	x		xx	xx	x	x						
3		58	5	✓	5	x	x	xx	xx	x	x	x					
4		59	Bot-10	✓	125								x				
5		60	Bot-10	✓	125								x				
6		61	Mid	✓	60								x				
7		62	Mid	✓	60								x				
8		63	0	✓	2								x				
9		64	0	✓	2								x				
10		65	Bot-10	✓	125								x				
11		66	Bot-10	✓	125								x				
12		67	Inter 2	✓	100								x				
13		68	Inter 3	✓	100								x				
14		69	Inter 2	✓	40								x				
15		70	Inter 2	✓	70								x				
16		71	Inter 1	✓	40								x				
17		72	Inter 1	✓	40								x				
18		73	Subs	✓	15								x				
19		74	Subs	✓	15								x				
20		75	0	✓	2								x				
21		76	0	✓	2								x				
22																	
23																	
24																	

Profile type: ROS TRM X-Niskin other?
Watchkeeper(s): MY

Bottom Depth: 138 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2119	1319
Bottom	2123	1323
End	2140	1340

Positional Information
Lat: 48 ° 34.52 N
Lon: 125 ° 30.34 W

Bottom
Lat: 48 ° 34.53 N
Lon: 125 ° 30.31 W

End
Lat: 48 ° 34.62 N
Lon: 125 ° 30.21 W

Extra comments:
Out of order
1-4-5-10-11-12-13-14-15-16-17-18-19-20-21
18-19-20-21-22-23-24

Water Properties Group Sampling Log Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2014-01 Station: P2 Event #: 9 Ship: Tully UTC Date (dd/mm/yyyy): 12 Feb 2012

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials						Comments					
			Target Pressure	Confirmed Pressure	DMS	DMSP	DMSP	Nut-Fr	Chl	HPLC	Prot					

Profile type:	ROS	TRM	X-Niskin	other?
Watchkeeper(s):	DY			

Bottom Depth:	115	m
Transmisso Cleaned:	Y / N	

Time	UTC	Local
Start	0004	1604
Bottom	0007	1607
End	0023	1623

Positional Information

Lat:	48° 36.07	N
Lon:	126° 0.01	W

Bottom

Lat:	48° 36.11	N
Lon:	125° 59.97	W

End

Lat:	48° 36.15	N
Lon:	125° 59.79	W

Extra comments:

DMS cast; out-of-order

1		77	100	✓	100	x	x	x	xx	x										
2		78	75	✓	45	x			x	x										
3		79	50	✓	50	x			x	x										
4		80	40	✓	40	x			x	x										
5		81	30	✓	30	x			x	x										
6		82	25	✓	25	x			x	xx										
7		83	20	✓	20	xx	xx	xx	x	x										
8		84	15	✓	15	x			x	x										
9		85	10	✓	10	x			x	x										
10		86	5	✓	5	x	x	x	x	x										
11		87	0	✓	2	x	x	x	x	x										
12		88	30 / M*10	✓	30					xx	xx									
13		89	15 / Max	✓	15					xx	xx									
14		90	5	✓	5					xx	xx									
15																				
16																				
17																				
18																				
19																				
20																				
21																				
22																				
23																				
24																				

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID:

2014-01

Station:

P2

Event #:

11

Ship:

Tully

UTC Date (dd/mm/yyyy):

12 Feb 2014

Cruise ID:		Station:		Event #:		Ship:		Comments										
2014-01		P2																
Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials													
			Target Pressure	Confirmed Pressure	Oxy	Nut-F	Nut-C	Sal	DIC	pH	PAW14	Gels						
			✓	Pressure	24 m					KS GS	GC							

1	1	91	Bot-10	✓ 103	x x	x			x	x	x										
2	2	92	100	✓ 100	x	x			x	x	x	x									
3	3	93	75	✓ 74	x	x			x x	x											
4	4	94	75	✓ 74	x	x			x	x	x	x									
5	5	95	50	✓ 50	x	x			x	x x x	x	x	x								
6	6	96	25	✓ 25	x	x x			x	x	x	x	x								
7	7	97	10	✓ 10	x	x			x	x	x	x	x								
8	8	98	5	✓ 5	x	x		x	x	x	x	x	x								
9																					
10																					
11																					
12																					
13																					
14																					
15																					
16																					
17																					
18																					
19																					
20																					
21																					
22																					
23																					
24																					

Profile type: ROS TRM X-Niskin other?
Matchkeeper(s):

Bottom Depth: 115 m
Transmisso Cleaned: 91 N

Time UTC Local
Start 0059 1659
Bottom 0103 1703
End 0113 1713

Positional Information
Lat: 48° 36.21 N
Lon: 125° 59.79 W

Bottom
Lat: 48° 36.22 N
Lon: 125° 59.82 W

End
Lat: 48° 36.20 N
Lon: 125° 59.73 W

Extra comments:
Deep cast

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

UTC Date (dd|mmm|yyy): 12 Feb 2014

Watchkeeper(s): Ty

Transmisso Cleaned: $(Y) / N$

Start	0259	1859
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Bottom	0313	1913
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End	0340	1940
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Lat: 48° 37.5' N

Lon: 126° 19.9' W

Lat: 48° 24.55' N

Lon: 126° 17.92 W

Cal.	78	27101	N
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Encl: 100-1117 W

Out of order

<http://www.pac.dfo-mpo.gc.ca/sci/osap/projects/waterproperties/>

Water Properties Group Sampling Log Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2014-01 Station: P4 Event #: 13 Ship: Tully UTC Date (dd mmm yyyy): 12 Feb 2014

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	UBC										

Profile type:	ROS	TRM	X-Niskin	other?
Watchkeeper(s):	24			

Bottom Depth:	1313	m
Transmisso Cleaned:	✓ N	

Time		UTC	Local
Start		0533	2133
Bottom		0554	2154
End		0620	2220

Positional Information

Lat:	48 ° 39.05	N
Lon:	126 ° 39.94	W

Bottom

Lat:	48 ° 39.05	N
Lon:	126 ° 39.77	W

End

Lat:	48 ° 39.13	N
Lon:	126 ° 39.46	W

1	1	123	Bot-10	✓	1303											
2	2	124	Bot-10	✓	1303	x										
3	3	125	Bot-10	✓	1303											
4	4	126	Bot-10	✓	1303											
5	5	127	1000	✓	1002											
6	6	128	1000	✓		x										
7	7	129	1000	✓												
8	8	130	1000	✓												
9	9	131	500	✓	500											
10	10	132	500	✓		x										
11	11	133	500	✓												
12	12	134	500	✓												
13	13	135	10	✓	10											
14	14	136	10	✓		x										
15	15	137	10	✓												
16	16	138	10	✓												
17																
18																
19																
20																
21																
22																
23																
24																

Extra comments:

UBC

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2014-01 Station: P4 Event #: 14 Ship: Tully UTC Date (dd|mm|yyyy): 12|Feb|2014

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	Cesium										

1	1	139	300	✓	300	X									850# 225128
2	2	140	300	✓		X									"
3	3	141	300	✓		X									"
4	4	142	300	✓		X									"
5	5	143	300	✓		X									"
6	6	144	300	✓		X									"
7	7	145	200	✓	203	X									225129
8	8	146	200	✓		X									"
9	9	147	200	✓		X									"
10	10	148	200	✓		X									"
11	11	149	200	✓		X									"
12	12	150	200	✓		X									"
13	13	151	150	✓	150	X									225130
14	14	152	150	✓		X									"
15	15	153	150	✓		X									"
16	16	154	150	✓		X									"
17	17	155	150	✓		X									"
18	18	156	150	✓		X									"
19	19	157	100	✓	100	X									225131
20	20	158	100	✓		X									"
21	21	159	100	✓		X									"
22	22	160	100	✓		X									"
23	23	161	100	✓		X									"
24	24	162	100	✓		X									"

Profile type: ROS TRM X-Niskin other?
Watchkeeper(s): DY

Bottom Depth: 1322 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0708	2308
Bottom	0716	2316
End	0733	2333

Positional Information
Lat: 48° 39.03 N
Lon: 126° 40.01 W

Bottom
Lat: 48° 39.04 N
Lon: 126° 39.92 W

End
Lat: 48° 39.08 N
Lon: 126° 39.87 W

Extra comments:
Cesium #1

Water Properties Group Sampling Log Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2014-01 Station: P4 Event #: 16 Ship: Tully UTC Date (dd mmm/yyyy): 12 | 2 | 14

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?

Watchkeeper(s): H.M.

Bottom Depth: 1331 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	0915	0115
Bottom	0922	
End	0946	

Positional Information

Lat: 48 ° 38 . 99 N

Lon: 126 ° 40 . 25 W

Bottom

Lat: 48 ° 35 . 97 N

Lon: 126 ° 40 . 37 W

End

Lat: 48 ° 38 . 94 N

Lon: 126 ° 40 . 56 W

Extra comments:

Cesium #2 + plastics

OUT-OF-ORDER

1... 8 - 13 - 14 - 15 - 16 - 17 - 18 - 9 - 10 - 11 - 12 - 19 ... 24

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials						Comments									
			Target Pressure	Confirmed Pressure	Cesium			plastics												
1		163	300	☒				X												
2		164	250	☒				X												
3		165	200	☒				X												
4		166	150	☒				X												
5		167	125	☒				X												
6		168	100	☒				X												
7		169	75	☒				X												
8		170	50	☒				X												
9		171	25	☒				X												
10		172	10	☒				X												
11		173	5	☒				X												
12		174	0	☒				X												
13		175	50	☒		X														
14		176	50	☒		X														
15		177	50	☒		X														
16		178	50	☒		X														
17		179	50	☒		X														
18		180	50	☒		X														
19		181	0	☒		X														
20		182	0	☒		X														
21		183	0	☒		X														
22		184	0	☒		X														
23		185	0	☒		X														
24		186	0	☒		X														

Sampling Log

2014-01

Station:

P4

Event #:

17

Ships:

Tully

UTC Date (dd mmm yyyy): 17 03 17

Profile type:

ROS	TRM	X-Niskin	other?

Watchkeeper(s): K.S.

Bottom Depth: 1327 m

Transmisso Cleaned: ~~Y~~ / N

Time	UTC	Local
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Start	0955	0155
-------	------	------

Bottom	1109	0309
--------	------	------

End	1144	0599
-----	------	------

Positional Information

Lat: 48° 38' 44"

Lon: 126° 40' 56"

▶

81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

126 • 40 46

▶

14: 48.38 79

126	40	37
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Extra comments:

TM PUMPING

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2014-01 - 2013-17 - Station: P4 Event #: 18 - Ship: Tully UTC Date (dd/mm/yyyy): 12/2/14

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	OXY	Nut-F	Nut-C	Sal	DIC	pH	UBC	PAW	Gels		
					HM/UC	HA	HA	HM	CS/KE	GC	HL/SL	NE	RE		

Profile type:	(ROS) TRM	X-Niskin	other?
Watchkeeper(s):	H.M.		

Bottom Depth:	1321	m
Transmisso Cleaned:	(Y) / N	

Time	UTC	Local
Start	1203	0403
Bottom	1228	
End	1311	

Positional Information

Lat:	48	°	38.90	N
Lon:	126	°	39.08	W

Bottom

Lat:	48	°	38.03	N
Lon:	126	°	39.91	W

End

Lat:	48	°	38.86	N
Lon:	126	°	39.86	W

Extra comments:
Deep cast

1		191	Bot-10	✓	1328	X	X	X		X	X	X	X					
2		192	1250	✓		X	X	X		X	X	X	X					
3		193	1250	✓		X	X	X		X	X	X	X					
4		194	1000	✓		X	X	X		X	X	X	X					
5		195	800	✓		X	X	X		X	X	X	X					
6		196	600	✓		X	X	X		X	X	X	X					
7		197	400	✓		X	X	X		X	X	X	X					
8		198	300	✓		X	X	X		X	X	X	X					
9		199	250	✓		X	X	X		X	X	X	X					
10		200	200	✓		X	X	X		X	X	X	X					
11		201	150	✓		X	X	X		X	X	X	X					
12		202	125	✓		X	X	X		X	X	X	X					
13		203	100	✓		X	X	X		X	X	X	X					
14		204	75	✓		X	X	X		X	X	X	X					
15		205	50	✓		X	X	X		X	X	X	X					
16		206	25	✓		X	X	X		X	X	X	X					
17		207	10	✓		X	X	X		X	X	X	X					
18		208	5	✓		X	X	X		X	X	X	X					
19		209		✓		X	X	X		X	X	X	X					
20																		
21																		
22																		
23																		
24																		

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

I/TC Date (dd mmm yyyy): 12 / 2 / 14

Profile type:

X-Niskin	other?

五

Bottom Depth: 1335 m

Transmisso Cleaned: Y / I N

Time	UTC	Local
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Start	1426	0626
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End	1453
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Lat: 48° 39' 03" N

Loc. 126. 39.94 W

Lat: 48° 39' 00" N

Lon: 126.39.97 W

Lat: 48° 39.00 N

Lon: 126 ° 39.94 W

DMS cast; out-of-order.

1... 7-8-15-9-10-11-16-12
13-17-14

<http://www.pac.dfo-mpo.gc.ca/sci/osap/projects/waterproperties>

Water Properties Group Sampling Log Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2014-01 Station: P5 Event #: 20 Ship: Tully UTC Date (dd|mm|yyyy): 12 | FEB | 2014

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials					Comments
			Target Pressure	Confirmed Pressure	Nut-F	Sal	chl	HPLC		
1	1	229	(30) Max	/ 28.7	x		x x	x x		
2	2	230	5	/	x	x	x x	x x		
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										

Profile type:

ROS

 TRM X-Niskin other?

Watchkeeper(s): MR

Bottom Depth: 2092 m

Transmisso Cleaned: (Y) / N

Time		UTC	Local
Start		1736	
Bottom		1813	1013
End		1858	

Positional Information

Start

Lat: 48° 41.50 N

Lon: 127° 09.92 W

Bottom

Lat: 48° 41.48 N

Lon: 127° 09.96 W

End

Lat: 48° 41.51 N

Lon: 41° 10.00 W

Extra comments:

Water Properties Group Sampling Log Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2014-01 Station: P6 Event #: 21 Ship: Tully UTC Date (dd mmm/yyyy): 12 Feb 2014

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials				Comments
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC	

Profile type: ROS TRM X-Niskin other?
Watchkeeper(s): 24

Bottom Depth: 2548 m
Transmisso Cleaned: 6/1 N

Time	UTC	Local
Start	2130	1330
Bottom	2209	1409
End	2245	1445

Positional Information

Lat: 48 ° 44.60 N
Lon: 127 ° 40.04 W

Bottom

Lat: 48 ° 44.64 N
Lon: 127 ° 40.46 W

End

Lat: 48 ° 44.74 N
Lon: 127 ° 40.72 W

1	1	231	30 Max	20	x		x x	x x											
2	2	232	5		x	x	x x	x x											
3																			
4																			
5																			
6																			
7																			
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19																			
20																			
21																			
22																			
23																			
24																			

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2014-01 Station: P8 Event #: 25 Ship: Tully UTC Date (dd/mm/yyyy): 13 Feb 2014

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials							Comments	
			Target Pressure	Confirmed Pressure	Oxy	Sal	Nut Fr	Nut C	pH	chl	HPLC		
1		257	2000	✓ 2000	x x	x x	x	x				x	x
2		258	1500	✓ 1500	x	x	x	x				x	x
3		259	1250	✓ 1246	x	x	x x	x x				x	
4		260	1000	✓ 1002	x	x x	x	x				x	x
5		261	800	✓ 800	x	x	x	x				x	x
6		262	600	✓ 604	x		x	x				x	x
7		263	400	✓ 396	x		x	x				x	x
8		264	300	✓ 300	x		x					x	x
9		265	250	✓ 252	x x		x					x	
10		266	200	✓ 198	x		x					x	x
11		267	175	✓ 175	x		x					x	
12		268	150	✓ 150	x		x x					x	..
13		269	125	✓ 125	x		x					x	
14		270	100	✓ 100	x		x					x	x
15		271	75	✓ 75	x		x					x	
16		272	50	✓ 50	x		x					x	x
17		273	25	✓ 25	x x		x					x	x
18		274	10	✓ 10	x		x					x	x
19		275	5	✓ 5	x	x	x					x	x
20		276	50	✓ 50									
21		277	20Max	✓ 20									
22		278	5	✓ 5									
23													
24													

Profile type: ☒ ROS ☐ TRM ☐ X-Niskin ☐ other?

Watchkeeper(s): TY

Bottom Depth: 2522 m

Transmisso Cleaned: 91 N

Time	UTC	Local
Start	0616	2216
Bottom	0649	2249
End	0750	2350

Positional Information

Lat: 48° 48.92 N

Lon: 128° 40.07 W

Bottom

Lat: 48° 48.45 N

Lon: 128° 40.28 W

End

Lat: 48° 47.52 N

Lon: 128° 40.45 W

Extra comments:

Firing out of order

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2014-01

Station: P10

Event #: 26

Ship:

Tully

UTC Date (dd/mm/yyyy): 13/02/14

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials					Comments										
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC	Cs											
1	1	281	200	✓					X											
2	2	282	200	✓					X											
3	3	283	200	✓					X											
4	4	284	200	✓					X											
5	5	285	200	✓					X											
6	6	286	200	✓					X											
7	7	287	150	✓					X											
8	8	288	150	✓					X											
9	9	289	150	✓					X											
10	10	290	150	✓					X											
11	11	291	150	✓					X											
12	12	292	150	✓					X											
13	13	293	50	✓					X											
14	14	294	50	✓					X											
15	15	295	50	✓					X											
16	16	296	50	✓					X											
17	17	297	50	✓					X											
18	18	298	50	✓					X											
19	19	299	50 / Max	✓		X		X X	X X											
20	20	300	5	✓		X	X	X X	X X											
21																				
22																				
23																				
24																				

Profile type: ROS TRM X-Niskin other?

Watchkeeper(s): H.M.

Bottom Depth: 2648 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1907	1107
Bottom	1948	
End	2031	1231

Positional Information

Lat: 48° 53.78 N

Lon: 129° 40.13 W

Bottom

Lat: 48° 53.90 N

Lon: 129° 40.22 W

End

Lat: 48° 54.19 N

Lon: 129° 40.82 W

Extra comments:

Rosette & Cesium

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID:

2014-01

Station:

P12

Event #:

28

Ship:

Tully

UTC Date (dd/mm/yyyy):

14 Feb 2014

Niskin #

Firing #

Sample #

Rosette Operation

Target Pressure

Confirmed

Pressure

Samples Taken / Sampler's Initials

DMS

DMSP

DMSP

Nut-F

Chl

HPLC

Comments

Profile type:

RO9 TRM X-Niskin other?

Watchkeeper(s):

Bottom Depth:

Transmisso Cleaned:

Time

Start

Bottom

End

Positional Information

Lat:

Lon:

Bottom

Lat:

Lon:

End

Lat:

Lon:

Extra comments:

DMS cast, out-of-order.

1 ... 6 - 15 - 7 - 8 - 9 - 10 - 16 - 11 - 12
13 - 17 - 14

Version: 25 Nov 2011

Transmissometer to be cleaned before each cast, do not use Ammonia products

http://www.pac.dfo-mpo.gc.ca/sci/sasap/projects/waterproperties/

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2014-01 Station: P14 - Event #: 36 Ship: Tully - UTC Date (dd mmm/yyyy): 14 | 2 | 14

Profile type:

ROS

TRM

X-Niskin

other?

Watchkeeper(s): H.n.

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials				Comments
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC	

1	1	320	50 / Max	✓	x		x x	x x											
2	2	321	5		x	x	x x	x x											
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
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14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Bottom Depth: 2716 m

Transmisso Cleaned: (X) / N

Time		UTC	Local
Start		1418	0618
Bottom		1456	
End		1536	

Positional Information

Lat: 49 ° 07.38 N

Lon: 132 ° 39.97 W

Bottom

Lat: 49 ° 07.35 N

Lon: 132 ° 39.97 W

End

Lat: 49 ° 07.27 N

Lon: 132 ° 39.93 W

Extra comments:

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

UTC Date (dd mmm yyyy): 14 / FEB / 2014

Comments

Watchkeeper(s):

Watchkeeper(s): HJR

313 m

Q1

Local

1230

33

14

Positional Information

7

W

1

A

1

1

Extra comments:

22 Niskins at 2000 m for AML,

not in CHE file

Water Properties Group Sampling Log Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2014-01 Station: P16 Event #: 32 Ship: Tully UTC Date (dd mmm/yyyy): 12 Feb 2014

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials						Comments	
			Target Pressure	Confirmed Pressure	DMS	DMSF	DMSF	Nut-F	Chl	HPLC		
1		324	300	✓ 300	x			x			Vent leading	
2		325	200	✓ 200	x	x	x	x				
3		326	175	✓ 175	x	x	x	x				
4		327	100	✓ 100	x	x	x	x				
5		328	75	✓ 75	x			x				
6		329	50	✓ 50	x			x				
7		330	40	✓ 39	x			x				
8		331	30	✓ 30	x			x				
9		332	25	✓ 24	x			x				
10		333	20	✓ 20	x x	x x	x x	x				
11		334	15	✓ 15	x			x				
12		335	10	✓ 10	x			x				
13		336	5	✓ 5	x	x	x	x				
14		337	0	✓ 2	x	x	x	x				
15		338	50	✓ 50					x x	x x		
16		339	20	✓ 17					x x	x x		
17		340	5	✓ 5					x x	x x		
18		341	300	✓							x	
19		342	300	✓							x	
20		343	300	✓							x	
21		344	300	✓							x	
22		345	300	✓							x	
23		346	300	✓							x	
24												

Profile type:
ROS TRM X-Niskin other?

Watchkeeper(s): DY

Bottom Depth: 3235.2 m

Transmisso Cleaned: (Y) N

Time	UTC	Local
Start	0327	1927
Bottom	0334	1934
End	0354	1954

Positional Information

Lat: 48 ° 17.03 N

Lon: 124 ° 59.88 W

Bottom

Lat: 49 ° 16.98 N

Lon: 124 ° 59.70 W

End

Lat: 49 ° 16.89 N

Lon: 124 ° 59.34 W

Extra comments:

DMS + Cs cast; out-of-order.

1-18 ... 23 - 2 ... 6 - 15 - 7 - 8 - 9 -

10 - 16 - 11 - 12 - 13 - 17 - 14

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2014-01 Station: P20

Event #: 35

Ship: Tully

UTC Date (dd/mm/yyyy): 17 Feb 2014

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments	
			Target Pressure	Confirmed Pressure	OXY	Sal	Nut-F	Nut-C	DIC	pH	PAW	Gels	UBC			

1		371	Bot-10	✓	4023	x		x	x	x	x	(x)	x			
2		372	3500	✓		x	xx	x	x	xx	x					
3		373	3500	✓		x	x	x	x	x						
4		374	3000	✓		x	xx	x	x	x	x	(x)	x			
5		375	2500	✓		x	x	x	x	xxx	x					
6		376	2000	✓		xx	xx	x	x	x	x	(x)	x			
7		377	1500	✓		x	x	xx	x	x	x	(x)	x			
8		378	1250	✓		x	x	x	x	x	x		x			
9		379	1000	✓		x	xx	x	x	x	x	(x)	x			
10		380	800	✓		x		x	x	x	x	(x)	x			
11		381	600	✓		x		x	x	x	x	(x)	x			
12		382	400	✓		x		x	x	x	x	(x)	x			
13		383	300	✓		xx		x	x	x	x	(x)	x			
14		384	250	✓		x		x	x	xxx	x					
15		385	200	✓		x		x	x	x	x	(x)	x			
16		386	175	✓		xx		x	x	x	x					
17		387	150	✓		x		x	x	x	x	x	x			
18		388	125	✓		x		x	x	x	x					
19		389	100	✓		x		x	x	x	x	(x)	x			
20		390	75	✓		xx		x	x	x	x					
21		391	50	✓		x		xx	x	x	x	(x)	x			
22		392	25	✓		x		x	x	x	x	x	x			
23		393	10	✓		x		x	x	x	x	x	x			
24		394	5	✓		x	x	x	x	x	x	(x)	x			

Profile type: ROS TRM X-Niskin other?

Watchkeeper(s):

Bottom Depth: 3945 m

Transmisso Cleaned: Y / N

Time UTC Local

Start 0534 2134

Bottom 0645 2245

End 0816

Positional Information

Lat: 49.34.08 N

Lon: 138.39.95 W

Bottom

Lat: 49.33.85 N

Lon: 138.40.24 W

End

Lat: 49.33.95 N

Lon: 138.40.48 W

Extra comments:

Deep cast

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2014-01 Station: P20 Event #: 38 Ship: Tully UTC Date (dd|mm|yyyy): 17 | 02 | 14

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials							Comments
			Target Pressure	Confirmed Pressure	DMS	DMS <i>t</i>	DMS <i>P</i>	DMS <i>P</i>	Nu-F	Chl	HP <i>LC</i>	

1		398	300	✓		x			x										
2		399	200	✓		x	x	x	x										
3		400	175	✓		x	x	x	x										
4		401	100	✓		x	x	x	x			x							
5		402	75	✓		x			x			x							
6		403	50	✓		x			xx			x							
7		404	40	✓		x			x			xx							
8		405	30	✓		x			x			x							
9		406	25	✓		x			x			x							
10		407	20	✓		xx	xx	xx	x			x							
11		408	15	✓		x			x			x							
12		409	10	✓		x			x			x							
13		410	5	✓		x	x	x	x			x							
14		411	0			x	x	x	x			x							
15		412	50	✓								xx	xx						
16		413	20	✓								xx	xx						
17		414	5	✓								xx	xx						
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type:	ROS	TRM	X-Niskin	other?
Watchkeeper(s):	H.r.1			

Bottom Depth:	3930	m
Transmisso Cleaned:	(Y)	N

Time	UTC	Local
Start	0954	0154
Bottom	1000	
End	1019	0219

Positional Information

Lat: 49 . 33 . 54 N

Lon: 138 . 40 28 W

▼

Lat: 49 . 33 56 N

Lon: 138 . 40 20 W

▼

Lat: 49 . 33 , 65 N

Lon: 138 . 40 . 03 W

Extra comments:

DMS cast; out-of-order.

1... 6 - 15 - 7 - 8 - 9 -

10 - 16 - 11 - 12 - 13 - 17 - 14

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2014-01

Station: P21

Event #: 39

Ship: Tully

UTC Date (dd mmm yyyy): 17 1 2 14

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials					Comments
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC	Cs	

1		415	150	✓						X									
2		416	150	✓						X									
3		417	150	✓						X									
4		418	150	✓						X									
5		419	150	✓						X									
6		420	150	✓						X									
7		421	100	✓						X									
8		422	100	✓						X									
9		423	100	✓						X									
10		424	100	✓						X									
11		425	100	✓						X									
12		426	100	✓						X									
13		427	50	✓						X									
14		428	50	✓						X									
15		429	50	✓						X									
16		430	50	✓						X									
17		431	50	✓						X									
18		432	50	✓						X									
19		433	(50) Max	✓		X		X X	X X										
20		434	5	✓		X	X	X X	X X										
21																			
22																			
23																			
24																			

Profile type: ROS/TRM X-Niskin other?

Watchkeeper(s): H.M

Bottom Depth: 3939 m

Transmisso Cleaned: (Y) N

Time	UTC	Local
Start	1609	0809
Bottom	1647	
End	1727	

Positional Information

Lat: 49 ° 38 . 09 N

Lon: 139 ° 40 . 06 W

Bottom

Lat: 49 ° 38 . 08 N

Lon: 139 ° 40 . 12 W

End

Lat: 49 ° 38 . 22 N

Lon: 139 ° 40 . 17 W

Extra comments:

Rosette & Cesium

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

UTC Date (dd mmm yyyy): 11 6 17

ROS	TRM	X-Niskin	other?

Watchkeeper(s): H. M.

Bottom Depth: 4260 m

Transmisso Cleaned: Y /

Time	UTC	Local
0000	0000	0000
0100	0100	0100
0200	0200	0200
0300	0300	0300
0400	0400	0400
0500	0500	0500
0600	0600	0600
0700	0700	0700
0800	0800	0800
0900	0900	0900
1000	1000	1000
1100	1100	1100
1200	1200	1200
1300	1300	1300
1400	1400	1400
1500	1500	1500
1600	1600	1600
1700	1700	1700
1800	1800	1800
1900	1900	1900
2000	2000	2000
2100	2100	2100
2200	2200	2200
2300	2300	2300
2400	0000	0000

Start	1534	0734
-------	------	------

Bottom	1537	
--------	------	--

End	1544	
-----	------	--

Positional Information

Lat: 49° 59' 97"

174. 59.93

▶

Lat: 49° 59' 12"

Lon: 144.59.97

▲

Lat: 49.59.87

144 - 59.95

Extra comments:

Aram's cast

CTD to 150m please!

<http://www.pac.dfo-mpo.gc.ca/sci/osap/projects/waterproperties/>

Water Properties Group Sampling Log Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2014-01 Station: P26 Event #: 43 Ship: Tully UTC Date (dd mmm yyyy): 19 | 2 | 14

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	OXY	Sal	Nut-F	Nut-C	DIC	Alk	pH	PAW	Nut 250	UBC	

1	1	490	Bot-10	✓	4316	x		xx	x	x	x	x	x		x		x		
2	2	491	4000	✓		xx	xx	xx	x	x	x	x	x	x		x			
3	3	492	3500	✓		x	x	xx	x	xx	x	x	x	x				x	
4	4	493	3000	✓		x	xx	xx	x	x	x	x	x	x	x				over short depth
5	5	494	2500	✓		x	x	xx	x	x	x	xxx	x	x			x		
6	6	495	2000	✓		x	xx	xx	x	x	x	x	x	x	x				
7	7	496	1500	✓		x		xx	x	x	x	x	x	x	x				
8	8	497	1250	✓		xx		xx	x	x	x	x	x	x	x				
9	9	498	1000	✓		x	xx	xx	x	x	x	x	x	x	x				
10	10	499	800	✓		x		xxx	xx	x	x	x	x	x		x	x		
11	11	500	600	✓		x		xx	x	x	x	x	x	x		x	x		
12	12	501	400	✓		x		xx	x	x	x	x	x	x		x	x		
13	13	502	300	✓		x		xx		x	x	x	x	x		x	x		
14	14	503	250	✓		xx		xx		x	x	x	x	x					
15	15	504	200	✓		x		xx		x	x	x	x	x		x	x		
16	16	505	175	✓		x		xx		x	x	x	x	x					
17	17	506	150	✓		x		xx		x	x	x	x	x		x	x		
18	18	507	125	✓		xx		xxx		x	x	x	x	x					
19	19	508	100	✓		x		xx		x	x	x	x	x		x	x		
20	20	509	75	✓		x		xx		x	x	xxx	x	x					
21	21	510	50	✓		x		xx		x	x	x	x	x		x	x		
22	22	511	25	✓		x		xx		x	x	x	x	x		x	x		
23	23	512	10	✓		x		xx		x	x	x	x	x					
24	24	513	5			x	x	xx		x	x	x	x	x		x	x		

Profile type: (ROS TRM X-Niskin other?)
Watchkeeper(s): H.A./DY

Bottom Depth: 4226 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1926	1128
Bottom	2145	1245
End	2215	1415

Positional Information

Start
Lat: 49 ° 59 . 99 N
Lon: 144 ° 59 . 96 W

Bottom
Lat: 49 ° 59 . 98 N
Lon: 144 ° 59 . 99 W

End
Lat: 49 ° 59 . 97 N
Lon: 145 ° 0 . 03 W

Extra comments:
Deep cast

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2014-01 Station: P26 Event #: 45 Ship: Tully UTC Date (dd|mm|yyyy): 19 | 02 | 2014

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials					Comments
			Target Pressure	Confirmed ✓ Pressure	Fe non-fill	Fe filtered	Nut	Sal		

71	4	486	150		x	x	x	x		
122	3	487	100		x	x	x			
103	2	488	75		x x	x x	x x			
62	1	489	50		x	x	x			Red paint on BTI RUBED the ship
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										

Profile type: ROS TRM X-Niskin other?
Watchkeeper(s): K.S

Bottom Depth: 4225 m
Transmisso Cleaned: Y / N

Time UTC Local
Start 23:25 15:25
Bottom 23:55 15:55
End 00:20 16:20

Positional Information
Lat: 49 ° 59.98 N
Lon: 124 ° 59.53 W

Bottom
Lat: 50 ° 00.00 N
Lon: 125 ° 00.18 W

End
Lat: 50 ° 00.03 N
Lon: 124 ° 59.82 W

Extra comments:
TM Shallow go-flos

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2014-01 Station: P26 Event #: 46 Ship: Tully UTC Date (dd mmm/yyyy): 20 Feb 2014

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials						Comments			
			Target Pressure	Confirmed Pressure	DMS	DMS ^P	DMS ^P	Nut-F	Chl	HPLC	Phyto	Cs	Cu	Notes

1		518	300	✓		x			x						Leaking Vent
2		519	200	✓		x	x	x	x						
3		520	175	✓		x	x	x	x						
4		521	100	✓		x	x	x	x						
5		522	75	✓		x			x				✓		
6		523	50	✓	SD	x			x	x			x		
7		524	40	✓		x			x						
8		525	30	✓		x			x				x		
9		526	25	✓		x			x				x		
10		527	20	✓		x	x	x	x				x		
11		528	15	✓		x			x				x		
12		529	10	✓		x			x						
13		530	5	✓		x	x	x	x						
14		531	0	✓		x	x	x	x						
15		532	50	✓	SD				x	x					
16		533	20	✓					x	x					
17		534	5	✓					x	x	x	x			
18		535	300	✓								x			
19		536	300	✓								x			
20		537	300	✓								x			
21		538	300	✓								x			
22		539	300	✓								x			
23		540	300	✓								x			
24															

Profile type: ROS TRM X-Niskin other?

Watchkeeper(s): JY

Bottom Depth: 4225 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0018	1618
Bottom	0025	1625
End	0044	1644

Positional Information

Lat: 50 ° 0.05 N

Lon: 144 ° 59.90 W

Bottom

Lat: 50 ° 0.05 N

Lon: 144 ° 59.88 W

End

Lat: 50 ° 0.03 N

Lon: 144 ° 59.81 W

Extra comments:

DMS + Cs cast; out-of-order.

1; 18-23; 2-6; 15; 7-10;

16; 11-13; 17; 14

Water Properties Group Sampling Log Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2014-01 Station: P26 Event #: 48 Ship: Tully UTC Date (dd mmm yyyy): 20 Feb 2014

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials							Comments
			Target Pressure	Confirmed Pressure	Cesium							

1	1	541	200	✓	X							
2	2	542	200	✓	X							
3	3	543	200	✓	X							
4	4	544	200	✓	X							
5	5	545	200	✓	X							
6	6	546	200	✓	X							
7	7	547	150	✓	X							
8	8	548	150	✓	X							
9	9	549	150	✓	X							
10	10	550	150	✓	X							
11	11	551	150	✓	X							
12	12	552	150	✓	X							
13	13	553	100	✓	X							
14	14	554	100	✓	X							
15	15	555	100	✓	X							
16	16	556	100	✓	X							
17	17	557	100	✓	X							
18	18	558	100	✓	X							
19	19	559	50	✓	X							
20	20	560	50	✓	X							
21	21	561	50	✓	X							
22	22	562	50	✓	X							
23	23	563	50	✓	X							
24	24	564	50	✓	X							

Profile type:

ROS

TRM

X-Niskin

other?

Watchkeeper(s): MR

Bottom Depth: 4225 m

Transmisso Cleaned:

Y

N

Time

UTC

Local

Start

0228

1828

Bottom

0233

End

0241

Positional Information

Lat: 50.00.00

N

Lon: 144.59.93

W

Start

▼

Lat: 50.00.00

N

Lon: 144.59.92

W

Bottom

▼

Lat: 49.59.99

N

Lon: 144.59.90

W

End

Extra comments:

Cesium

Water Properties Group Sampling Log Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2014-01 Station: P26 Event #: 49 Ship: Tully UTC Date (dd|mm|yyyy): 20 | Feb | 2014

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials				Comments			
			Target Pressure	Confirmed Pressure	UBC	Cr						

1		435	2000	✓								
2		436	2000	✓	x							
3		437	2000	✓								
4		438	2000	✓								
5		439	1000	✓								
6		440	1000	✓	x							
7		441	1000	✓								
8		442	1000	✓								
9		443	500	✓								
10		444	500	✓	x							
11		445	500	✓								
12		446	500	✓								
13		447	10	✓								
14		448	10	✓	x							
15		449	10	✓								
16		450	10	✓								
17		451	2000	✓		x						
18		452	1500	✓		x						
19		453	1000	✓		x						
20		454	750	✓		x						
21		455	500	✓		x						
22		456	300	✓		x						
23		457	100	✓		x						
24		458	50	✓		x						

Profile type: (ROS) TRM X Niskin other?

Watchkeeper(s): ME

Bottom Depth: 4225 m

Transmisso Cleaned: (Y) 1 N

Time	UTC	Local
Start	03:5	19:15
Bottom	03:48	19:48
End	04:27	20:27

Positional Information

Lat: 49 ° 59.96 N

Lon: 144 ° 59 87 W

Bottom

Lat: 49 ° 59.88 N

Lon: 144 ° 59.99 W

End

Lat: 49 ° 59.78 N

Lon: 144 ° 59.78 W

Extra comments:

UBC + Cr cast; OUT-OF-ORDER

1-4; 17-19; 5-8; 20-21; 9-12;

22-24; 13-16

Water Properties Group Sampling Log Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2014-01 Station: P23 Event #: 56 Ship: Tully UTC Date (dd mmm yyyy): 20 2 14

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials					Comments
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HP/LC	Nut-C	

1	2	565	50		x		xx	xx											
2	3	566	5		x	x	xx	xx											
3	1	567	600	✓	x				x										
4	4	568	5			x													
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type: ~~ROS~~ TRM X-Niskin other?

Watchkeeper(s): H.A.

Bottom Depth: 4125 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1553	0753
Bottom	1612	
End	1633	

Positional Information

Start

Lat: 49 ° 49. 96 N

Lon: 141 ° 39. 93 W

Bottom

Lat: 49 ° 45. 84 N

Lon: 141 ° 40. 00 W

End

Lat: 49 ° 45. 73 N

Lon: 141 ° 39. 95 W

Extra comments:

OUT-OF-ORDER

3, 1, 2, 4

Water Properties Group Sampling Log Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2014-01 Station: P22 Event #: 59 Ship: Tully UTC Date (dd mm yyyy): 20 Feb 2014

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials						Comments
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC			

1	1	569	50	✓		X		X X	X X	
2	2	570	5	✓		X		X X	X X	
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										

Profile type: ROS TRM X-Niskin other?

Watchkeeper(s): DY

Bottom Depth: 4129 m

Transmisso Cleaned: Y / N

Time		UTC	Local
Start		2022	1222
Bottom		2041	1241
End		2101	1301

Positional Information

Start

Lat: 49.42.02 N

Lon: 140.39.99 W

Bottom

Lat: 49.42.19 N

Lon: 140.39.91 W

End

Lat: 49.42.34 N

Lon: 140.39.89 W

Extra comments:

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2014-01 Station: P19 Event #: 65 Ship: Tully UTC Date (dd|mm|yyyy): 21|2|14

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials				Comments
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC	

1	1	571	50	✓	x		xx	xx											
2	2	572	5	✓	x	x	xx	xx											
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type:

ROS

 TRM

X

 Niskin

other?

Watchkeeper(s): 11.1.

Bottom Depth: 3909 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0830	0030
Bottom	0848	
End	0908	

Positional Information

Start

Lat: 49 ° 30 , 09 N

Lon: 137 ° 39 , 94 W

Bottom

Lat: 49 ° 30 , 18 N

Lon: 137 ° 39 , 09 W

End

Lat: 49 ° 30.38 N

Lon: 137 ° 39.81 W

Extra comments:

Water Properties Group Sampling Log Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2014-01 Station: P18 Event #: 67 Ship: Tully UTC Date (dd|mm|yyyy): 21 | 2 | 14

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials					Comments
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC	Nico	

1	1	573	50	✓		x		x x	x x										
2	2	574	5	✓		x	x	x x	x x										
3		575	900	✓						x									
4		576	900	✓						x									
5		577	600	✓						x									
6		578	600	✓						x									
7		579	300	✓						x									
8		580	300	✓						x									
9		581	100	✓						x									
10		582	100	✓						x									
11		583	60	✓						x									
12		584	60	✓						x									
13		585	40	✓						x									
14		586	40	✓						x									
15		587	20	✓						x									
16		588	20	✓						x									
17		589	0	✓						x									
18		590	0	✓						x									
19																			
20																			
21																			
22																			
23																			
24																			

Profile type: ☒ ROS ☒ TRM ☐ X-Niskin ☐ other?

Watchkeeper(s): H.M.

Bottom Depth: 3817 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1306	0506
Bottom	1324	
End	1351	

Positional Information

Lat: 49 ° 26.35 N

Lon: 136 ° 40.39 W

Bottom

Lat: 49 ° 26.54 N

Lon: 136 ° 40.30 W

End

Lat: 49 ° 26.78 N

Lon: 136 ° 40.17 W

Extra comments:

OUT-OF-ORDER

3 - 14; 1; 15 - 16; 2; 17 - 18

12 13

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2014-01 Station: P17 Event #: 69 Ship: Tully UTC Date (dd mmm yyyy): 21 2 14

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Samplers Initials				Comments															
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HP/LC																
1	1	591	50	✓	x		x x	x x																
2	2	592	5	✓	x	x	x x	x x																
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								
13																								
14																								
15																								
16																								
17																								
18																								
19																								
20																								
21																								
22																								
23																								
24																								

Profile type:
☒ ROS ☒ TRM ☐ X-Niskin ☐ other?

Watchkeeper(s): H.N.

Bottom Depth: 3633 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	1801	1001
Bottom	1820	
End	1840	

Positional Information

Start

Lat: 49 ° 21 . 04 N

Lon: 135 ° 39 . 97 W

Bottom

Lat: 49 ° 20 . 99 N

Lon: 135 ° 40 . 14 W

End

Lat: 49 ° 21 . 01 N

Lon: 135 ° 40 . 17 W

Extra comments:

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2014-01 Station: P12 Event #: 72 Ship: Tully UTC Date (dd/mm/yyyy): 22 | 2 | 14

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials				Comments
			Target Pressure	Confirmed Pressure	UBC	Cr			

1		595	2000	✓																
2		596	2000	✓		x														
3		597	2000	✓																
4		598	2000	✓																
5		599	1000	✓																
6		600	1000	✓		x														
7		601	1000	✓																
8		602	1000	✓																
9		603	500	✓																
10		604	500	✓		x														
11		605	500	✓																
12		606	500	✓																
13		607	10	✓																
14		608	10	✓		x														
15		609	10	✓																
16		610	10	✓																
17																				
18																				
19																				
20																				
21																				
22																				
23																				
24																				

Profile type: ☒ ROS ☐ TRM ☐ X-Niskin ☐ other?

Watchkeeper(s): H.M.

Bottom Depth: 3232 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1442	0642
Bottom	1516	
End	1554	

Positional Information

Start

Lat: 48 ° 58 . 11 N

Lon: 130 ° 39 . 93 W

Bottom

Lat: 48 ° 59 14 N

Lon: 130 ° 39 89 W

End

Lat: 48 ° 58 . 18 N

Lon: 130 ° 39 . 98 W

Extra comments:

UBC (Sam's) cast

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2014-01 Station: P12 Event #: 13 Ship: Tully UTC Date (dd/mm/yyyy): 22/02/14

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials		Comments															
			Target Pressure	Confirmed Pressure	Fe	Fe non-filt filtered																
1		611	35 m		xx	xx																
2		612	25 m		x	x																
3		613	10 m		x	x																
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						
17																						
18																						
19																						
20																						
21																						
22																						
23																						
24																						

Profile type: ROS TRM X-Niskin other?

Watchkeeper(s): KS.

Bottom Depth: 3230 m

Transmisso Cleaned: Y / N

Time UTC Local

Start16:058:05

Bottom16:158:15

End17:029:02

Positional Information

StartLat: 48 ° 58.09 N Lon: 130 ° 40.02 W

BottomLat: 48 ° 58.25 N Lon: 130 ° 39.95 W

EndLat: 48 ° 58.20 N Lon: 130 ° 39.91 W

Extra comments:

TIM PUMPING

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2014-01 Station: P12 Event #: 74 Ship: Tully UTC Date (dd mmm yyyy): 22 2 14

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments	
			Target Pressure	Confirmed Pressure														
1		637	1000	✓														
2		638	1000	✓														
3		639	1000	✓														
4		640	1000	✓														
5		641	600	✓														
6		642	600	✓														
7		643	600	✓														
8		644	600	✓														
9		645	300	✓														
10		646	300	✓														
11		647	300	✓														
12		648	300	✓														
13		649	100	✓														
14		650	100	✓														
15		651	80	✓														
16		652	80	✓														
17		653	60	✓														
18		654	60	✓														
19		655	40	✓														
20		656	40	✓														
21		657	20	✓														
22		658	20	✓														
23		659	0	✓														
24		660	0	✓														

Transmissometer to be cleaned before each cast, do not use Ammonia products

Version: 25 Nov 2011

Profile type: ☒ ROS ☐ TRM ☐ X-Niskin ☐ other?

Watchkeeper(s): H.M.

Bottom Depth: 3232 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1712	0912
Bottom	1729	
End	1755	

Positional Information

Lat: 48 ° 58.16 N
Lon: 130 ° 39.91 W

Start

Lat: 48 ° 58.16 N
Lon: 130 ° 39.94 W

Bottom

Lat: 48 ° 58.18 N
Lon: 130 ° 39.96 W

End

Extra comments:

Nico's cast

Water Properties Group Sampling Log Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2014-01 Station: P12 Event #: 75 Ship: Tully UTC Date (dd/mm/yyyy): 22/2/14

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments	
			Target Pressure	Confirmed Pressure	OXY	Sal	Nut-F	Nut-C	DIC	pH	PAW	Gels	DIC25d	UBC		

1		614	✓	3274	X		X	X	X	X	X		X	X						
2		615	✓		X	XX	X	X	XX	X		XX								
3		616	✓		XX	XX	X	X	X	X		X	X							
4		617	✓		X	X	XX	XX	XX	X	X		XX							
5		618	✓		X	XX	X	X	X	X	X		X	X	X					
6		619	✓		X	X	X	X	X	X	X		X	X	X					
7		620	✓		X	X	X	X	X	X	XXX	X		X	X					
8		621	✓		XX	XX	X	X	X	X	X	X	X	X	X					
9		622	✓		X	X	X	X	X	X	X	X	X	X	X					
10		623	✓		X	X	X	X	X	X	X	X	X	X	X	X				
11		624	✓		X	X	X	X	X	X	X	X	X	X	X	X				
12		625	✓		X	X	X	X	X	X	X	X	X	X	X	X				
13		626	✓		X	X	X	X		X	X		XX							
14		627	✓		X	X	X	X		X	XXX	X	X	X	X					
15		628	✓		X	X	X	X		X	X	X		X						
16		629	✓		XX	X	X	X		X	X	X	X	X	X	X				
17		630	✓		X	X	X	X		X	X	X		X						
18		631	✓		X	X	XX	XX		X	X	X	X	X	X	X				
19		632	✓		X	X	X	X		X	X	X		XX						
20		633	✓		XX	X	X	X		X	X	X	X	X	X	X				
21		634	✓		X	X	X	X		X	X	X	X	X	X	X				
22		635	✓		X	X	X	X		X	X	X	X	X	X	X				
23		636	✓		X	X	X	X		X	X	X	X	X	X	X				
24																				

Profile type: ☒ ROS ☐ TRM ☐ X-Niskin ☐ other?

Watchkeeper(s): H.M. / DY

Bottom Depth: 3230 m

Transmisso Cleaned: (Y) N

Time	UTC	Local
Start	1850	1050
Bottom	1948	1148
End	2058	1258

Positional Information

Start

Lat: 48 ° 58.20 N

Lon: 130 ° 40.00 W

Bottom

Lat: 48 ° 58.19 N

Lon: 130 ° 39.99 W

End

Lat: 48 ° 58.23 N

Lon: 130 ° 39.93 W

Extra comments:

Deep cast

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2014-01 Station: P11 Event #: 78 Ship: Tully UTC Date (dd/mm/yyyy): 23 Feb 2014

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials				Comments															
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC																
1	1	63 638	50	✓		x		xx	xx															
2	2	63 638	5	✓		x	x	xx	xx															
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								
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16																								
17																								
18																								
19																								
20																								
21																								
22																								
23																								
24																								

Profile type: ☒ ROS ☐ TRM ☒ X-Niskin ☐ other?
Watchkeeper(s): DY

Bottom Depth: 3235 m
Transmisso Cleaned: (P) 1 N

Time	UTC	Local
Start	0604	2204
Bottom	0616	2216
End	0629	2229

Positional Information
Start
Lat: 48° 55.99 N
Lon: 130° 10.01 W

Bottom
Lat: 48° 55.98 N
Lon: 130° 9.98 W

End
Lat: 48° 55.99 N
Lon: 130° 9.97 W

Extra comments:

