

Water Properties Group

Rosette Log

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

Cruise ID: 2010-19 Station: S1 Event #: 1 Ship: VECTOR UTC Date (dd|mmm|yyyy): 18 Apr 2010

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken								Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a	NH ₄				
1	0A	1408	1463	100	☒ 100	☒	☒	☒						* WRONG DEPTH PUT INTO PROGRAM
2	1	1248	1514	75	☒ 75	☒	☒							
3	2	471	5.217	50	☒ 50	☒	☒							
4	3	1314	6.148	30	☒ 30	☒	☒							
5	4	1330	6.281	20	☒ 20	☒	☒		☒	☒				
6	5	745	7.309	10	☒ 10	☒	☒		☒	☒				
7	6	1298	8.746	5	☒ 5	☒	☒							
8	7	1421	11.808	0	☒ 1	☒	☒		☒	☒				
9	0B	1488	1.641	100										
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): DT MH Favio

Bottom Depth: 185 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	20 46	13 46
Bottom	20 52	13 52
End	21 02	14 02

Positional Information

Start

Lat: 48° 39.146 N

Lon: 123° 30.156 W

Bottom

Lat: 48° 39.131 N

Lon: 123° 30.133 W

End

Lat: 48° 39.134 N

Lon: 123° 30.145 W

Oxygen Info For This Cast

Blank Value: 0.008 mL · L⁻¹

Std Value: 0.7127 mL · L⁻¹

*Date Run: 18.1.04.2010

Analyst: CS.

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

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

Cruise ID: 2010-19 Station: 59 Event #: 3 Ship: vector UTC Date (dd|mmm|yyyy): 19 | Apr | 2010

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken								Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a	NH ₄				
1	8	3180	4.969	Bot-5	☒ 227	☒	☒							
2	9	3201	5.285	200	☒ 202	☒	☒	☒						
3	10	3126	5.437	175	☒ 182	☒	☒							
4	11	2089	5.585	150	☒ 151	☒	☒							
5	12	3113	5.937	125	☒ 125	☒	☒							
6	13	2059	5.978	100	☒ 100	☒	☒							* ACTUALLY 12B
7	14	3190	6.082	75	☒ 75	☒	☒							
8	15	3067	6.142	50	☒ 50	☒	☒							
9	16	3019	6.203	30	☒ 30	☒	☒							
10	17	3017	6.205	20	☒ 20	☒	☒		☒	☒				
11	18	2085	6.217	10	☒ 10	☒	☒		☒	☒				
12	19	2061	6.206	5	☒ 5	☒	☒							
13	20	2047	6.234	0	☒ 1.2	☒	☒		☒	☒				
14	12B	3199	5.990	100										* ACTUALLY 13
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

12B *
125m

13 *
100m

Watchkeeper(s): DT MH TV

Bottom Depth: 231 m

Transmisso Cleaned: ☒ Y / ☐ N

Time ↙ UTC Local 19th

Start 130 18 30

Bottom 1:40 18 40

End 1:58 18 58

Positional Information

Start Lat: 48° 37.871 N
Lon: 123° 14.654 W

Bottom Lat: 48° 37.930 N
Lon: 123° 14.734 W

End Lat: 48° 38.302 N
Lon: 123° 15.017 W

Oxygen Info For This Cast

Blank Value: 0.005 mL · L⁻¹

Std Value: 0.7127 mL · L⁻¹

*Date Run: 18 | 04 | 2010

Analyst: CS

* Oxygen blanks and standards should be run daily, if possible

→ RAN SAMPLE 13 AS 12B + 12B AS 13 - oops!

Water Properties Group

Rosette Log

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

Cruise ID: 2010-19

Station: 102

Event #: 007

Ship: vector

UTC Date (dd|mmm|yyyy): 19 | APR | 2010

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken								Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a	NH ₄ HPLC				
1	21	3007	2.132	bottom-5	✓ 252	✓	✓							
2	22	2069	2.133	250	✓ 250	✓	✓							
3	23	1464	2.251	200	✓ 200	✓	✓	✓						
4	24	3191	3.255	175	✓ 175	✓	✓							
5	25	3166	3.518	150	✓ 150	✓	✓							
* 6	26A	1478	3.994	125	✓ 124	✓✓	✓							26B O ₂ FLASK: 2064 VALUE: 3.996
7	27	3009	4.539	100	✓ 100	✓	✓							
8	28	1497	5.570	75	✓ 75	✓	✓							
9	29	3038	5.797	50	✓ 50	✓	✓							
10	30	3204	6.434	30	✓ 30	✓	✓✓							
11	31	3174	6.469	20	✓ 20	✓	✓		✓✓	✓✓				
12	32	2051	6.473	10	✓ 10	✓	✓		✓✓	✓✓				
13	33	3203	6.611	5	✓ 5	✓	✓							
14	34	3040	6.625	surface	✓ 5	✓	✓		✓✓	✓✓				
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): SR

Bottom Depth: 257 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1238	0538
Bottom	1242	0542
End	1259	0559

Positional Information

Start

Lat: 48 ° 30.00 N

Lon: 124 ° 44.08 W

Bottom

Lat: 48 ° 30.04 N

Lon: 124 ° 44.12 W

End

Lat: 48 ° 30.05 N

Lon: 124 ° 44.10 W

Oxygen Info For This Cast

Blank Value: 0.005 mL · L⁻¹

Std Value: 0.7127 mL · L⁻¹

*Date Run: 18 | DEC | 2010

Analyst: CS

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

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

Cruise ID: 2010-19 Station: 75 Event #: 10 Ship: Vector UTC Date (dd|mmm|yyyy): 19 | APR | 2010

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken										Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a	NH ₄						
1	35	1392	2.339	B-5	☒ 221	↓	↓									
2	36	1313	2.341	200	☒ 199	↓	↓	X								
3	37	1307	2.661	175	☒ 175	↓	↓									
4	38	1401	3.017	150	☒ 150	↓	↓									
5	39A	1330	3.724	125	☒ 125	XX	↓							39B	FLUX: 745 VALUE: 3.725	
6	40	1298	4.388	100	☒ 101	↓	↓									
7	41	1421	4.899	75	☒ 74	↓	↓									
8	42	1488	5.174	50	☒ 50	↓	↓									
9	43	1241	5.338	30	☒ 30	↓	XX									
10	44	94	5.592	20	☒ 20	↓	↓		XX	XX						
11	45	3033	6.183	10	☒ 10	↓	↓		XX	XX						
12	46	1395	6.377	5	☒ 5	↓	↓									
13	47	1318	6.444	Surf	☒	↓	↓		XX	XX						
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): SR

Bottom Depth: 227 m

Transmisso Cleaned: ☒ Y / ☐ N

	UTC	Local
Start	1521	0821
Bottom	1530	0830
End	1547	0847

Positional Information
 Lat: 48 ° 28.27 N
 Lon: 124 ° 32.94 W

Start

▼
 Lat: 48 ° 28.16 N
 Lon: 124 ° 32.93 W

Bottom

▼
 Lat: 48 ° 28.20 N
 Lon: 124 ° 32.82 W

End

Oxygen Info For This Cast
 Blank Value: 0.005 mL · L⁻¹
 Std Value: 0.7127 mL · L⁻¹
 *Date Run: 18 | 04 | 2010
 Analyst: CS

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

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

Cruise ID: 2010-19 Station: 72 Event #: 13 Ship: Vector UTC Date (dd|mmm|yyyy): 19 | Apr | 2010

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken								Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a	NO ₃ ⁻	NO ₂ ⁻	PH ₇₀	PH ₇₀	
1	48	3180	2.611	B-5	✓ 184	x	x							0.018 mL this added in 1st titration. Must add to total
2	49	3201	2.620	175	✓ 175	x	x	x						
3	50	3126	2.747	150	✓ 150	x	x							
4	51	2085	2.996	125	✓ 125	xx	x							broken stopper = lost sample
5	52	3113	3.719	100	✓ 100	x	x							when in sample, maybe chetogon
6	53	3199	4.423	75	✓ 75	x	x							
7	54	3190	4.946	50	✓ 50	x	x							
8	55	3067	5.261	30	✓ 30	x	xx							
9	56	3019	5.659	20	✓ 20	x	x		xx	xx				
10	57	3047	6.247	10	✓ 10	x	x		xx	xx				
11	58	2059	6.367	5	✓ 5	x	x							
12	59	2061	6.391	0	✓ 1	x	x		xx	xx	xxx			
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): DT, MH, JV

Bottom Depth: 188 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	20:03	13:03
Bottom	20:07	13:07
End	20:20	13:20

Positional Information

Start

Lat: 48° 18.547 N

Lon: 124° 4.177 W

Bottom

Lat: 48° 18.550 N

Lon: 124° 4.272 W

End

Lat: 48° 18.637 N

Lon: 124° 4.676 W

Oxygen Info For This Cast

Blank Value: 0.005 mL · L⁻¹

Std Value: 0.7127 mL · L⁻¹

*Date Run: 18 | 4 | 10

Analyst: DT, MH, JV

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

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

Cruise ID: 2010-19

Station: 69

Event #: 16

Ship: vector

UTC Date (dd|mmm|yyyy): 19 | APR | 2010

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken												Comments
		Flask Serial #	Value mL • L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a	NH ₄								
1	60	1392	2.912	B-5	☒	169	☒	☒										
2	61	1313	3.020	150	☒	154	☒	☒										
3	62	1307	3.743	125	☒	125	☒	☒										
4	63	1401	4.198	100	☒	100	☒	☒										sample is .006 mL thio too high
5	64	1330	4.718	75	☒	75	☒	☒										
6	65	745	5.285	50	☒	50	☒	☒										
7	66	1298	5.350	40	☒	40	☒	☒										
8	67	1421	5.523	30	☒	30	☒	☒										
9	68	1488	5.692	20	☒	20	☒	☒	☒	☒	☒							
10	69	94	5.997	10	☒	10	☒	☒	☒	☒	☒							
11	70	3033	6.061	5	☒	5	☒	☒										
12	71	1395	6.229	0	☒	1	☒	☒	☒	☒	☒							
13																		
14	68	1247	5.689															
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Watchkeeper(s): DT/MH/TV

Bottom Depth: 178 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	23:08	16:08
Bottom	23:13	16:13
End	23:27	16:27

Positional Information

Start

Lat: 48° 15.660 N

Lon: 123° 43.264 W

Bottom

Lat: 48° 15.722 N

Lon: 123° 43.319 W

End

Lat: 48° 15.906 N

Lon: 123° 43.214 W

Oxygen Info For This Cast

Blank Value: 0.005 mL • L⁻¹

Std Value: 0.7127 mL • L⁻¹

*Date Run: 1814110

Analyst: 41 CS

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

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

Cruise ID: 2010-19 Station: ADCP Event #: 19 Ship: Vector UTC Date (dd|mmm|yyyy): 20 | APR | 2010

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken											Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a	NH ₄ HPLC							
1	72	3016	4.012	bat-5	✓ 114	✓	✓										large wire angle
2	73A	3097	4.099	100	✓ 102	xx	✓	x									→ hard to hold depth.
3	74	3100	4.416	75	✓ 75	✓	✓										
4	75	3196	4.851	50	✓ 50	✓	✓										
5	76	2025	4.836	30	✓ 30	✓	✓										
6	77	1312	4.784	20	✓ 20	✓	xx		xx	xx							
7	78	3157	5.173	10	✓ 10	✓	✓		xx	xx							
8	79	3024	5.953	5	✓ 5	✓	✓										
9	80	3206	6.123	surface	✓ 1	✓	✓		xx	xx							
10																	
2 11	73B	2014	4.111														gave this wrong sample and depth in AutoOKY
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): DT MH TV

Bottom Depth: 118 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	2:27	19:27
Bottom	2:33	19:33
End	2:43	19:43

Positional Information

Start

Lat: 48 ° 13.896 N

Lon: 123 ° 17.995 W

Bottom

Lat: 48 ° 13.720 N

Lon: 123 ° 17.753 W

End

Lat: 48 ° 13.597 N

Lon: 123 ° 17.566 W

Oxygen Info For This Cast

Blank Value: 0.005 mL · L⁻¹

Std Value: 0.7127 mL · L⁻¹

*Date Run: 1814110 local

Analyst: CS

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

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

Cruise ID: 2010-19

Station: 65

Event #: 23

Ship: Vector

UTC Date (dd|mmm|yyyy): 20 | APR | 2010

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken								Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a	MP HPLC				
1	81	2061	4.330	B-5	☒ 121	☒	☒							
2	82A	2049	4.618	100	☒ 100	☒	☒	☒						
3	83A	3007	5.426	75	☒ 75	☒	☒							
4	84	3113	5.452	50	☒ 50	☒	☒							
5	85	3126	5.854	30	☒ 30	☒	☒							
6	86	3190	6.082	20	☒ 19	☒	☒		☒	☒				
7	87	3201	6.174	10	☒ 10	☒	☒		☒	☒				
8	88	3199	6.175	5	☒ 5	☒	☒							
9	89	3180	6.225	0	☒ 3	☒	☒		☒	☒				
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): SR

Bottom Depth: 127 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start		
Bottom	0726	0026
End	0737	0037

Positional Information

Start
 Lat: 48 ° 15. N
 Lon: 123 ° 9. W

Bottom
 Lat: 48 ° 15.92 N
 Lon: 123 ° 9.81 W

End
 Lat: 48 ° 15.92 N
 Lon: 123 ° 9.78 W

Oxygen Info For This Cast

Blank Value: 2005 mL · L⁻¹

Std Value: 07127 mL · L⁻¹

*Date Run: 18 | 04 | 2010

Analyst: CS.

* Oxygen blanks and standards should be run daily, if possible

NOTE: IN ADDITION → 82A is just 82, 82B is 83B → Duplicate with sample 83
 ↳ 75m depth

Water Properties Group

Rosette Log

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

Cruise ID: 2010-19

Station: 62

Event #: 26

Ship: Vector

UTC Date (dd|mmm|yyyy): 20 | APR | 2010

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken										Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a	NH ₄						
1	90	3196	4.638	B-5	☒ 142	↓	↓									
2	91	2025	4.649	125	☒ 124	↓	↓									
3	92A	9014	4.837	100	☒ 100	XX		X								92B Flask: 3016 Value: 4.846
4	93	3161	5.203	75	☒ 76	↓	↓									
5	94	3100	5.566	50	☒ 49	↓	↓									
6	95	3206	5.876	30	☒ 30	↓	↓									
7	96	3024	5.931	20	☒ 20	↓	XX		✓✓	✓✓						
8	97	3157	6.088	10	☒ 10	↓	↓		✓✓	✓✓						
9	98	1312	6.088	5	☒ 5	↓	↓									
10	99	2012	6.071	0	☒ Surf	↓	↓		XX	XX						
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): SR

Bottom Depth: 149 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	1019	0319
Bottom	1025	0325
End	1037	0337

Positional Information
 Lat: 48 ° 22.79 N
 Lon: 123 ° 2.65 W

▼
 Lat: 48 ° 22.83 N
 Lon: 123 ° 2.60 W

▼
 Lat: 48 ° 22.80 N
 Lon: 123 ° 2.60 W

Oxygen Info For This Cast
 Blank Value: 0.005 mL · L⁻¹
 Std Value: 0.7127 mL · L⁻¹
 *Date Run: 18 | 04 | 2010
 Analyst: DS

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

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

Cruise ID: 2010-19 Station: 56 Event #: 32 Ship: VECTOR UTC Date (dd|mmm|yyyy): 20 | APR | 2010

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken										Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a	NH ₄						
1	100	1247	5.628	BTM-5	☒ 210	☒	☒									
2	101	94	5.604	200	☒ 200	☒	☒									
3	102	1307	5.679	175	☒ 175	☒	☒									
4	103	1392	5.825	150	☒ 149	☒	☒									
5	104	745	5.849	125	☒ 125	☒	☒									reanalysis sample, Alaska depth of #103
6	105	1397	6.045	100	☒ 100	☒	☒	☒								
7	106			75	☒ 75	☒	☒									niskin did not fire
8	107	1298	6.301	50	☒ 49	☒	☒									
9	108	1421	6.354	30	☒ 31	☒	☒									
10	109	1313	6.359	20	☒ 21	☒	☒	☒	☒	☒						
11	110	1330	6.473	10	☒ 10	☒	☒	☒	☒	☒						
12	111	3033	6.587	5	☒ 5	☒	☒									
13	112	1318	6.812	0	☒ surf	☒	☒	☒	☒	☒						
14																
15	105	1488	6.024	100												duplicate
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): SR

Bottom Depth: 219 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	1728	1028
Bottom	1735	1035
End	1753	1053

Positional Information

Start Lat: 48 ° 46.23 N
Lon: 123 ° 1.53 W

Start

Bottom

Lat: 48 ° 46.26 N
Lon: 123 ° 1.48 W

End

Lat: 48 ° 46.27 N
Lon: 123 ° 1.49 W

Oxygen Info For This Cast

Blank Value: 0.005 mL · L⁻¹
Std Value: 0.7127 mL · L⁻¹
*Date Run: 18 | 04 | 2010
Analyst: DT

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

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

Cruise ID: 2010-19 Station: 46 Event #: 40 Ship: Vector UTC Date (dd|mmm|yyyy): 20 | APR | 2010

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken										Comments
		Flask Serial #	Value mL • L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a	NH ₄						
1	113	94	3.651	B-5	☒ 184											
2	114	1247	4.853	150	☒ 150			x								
3	115	1307	5.679	125	☒ 125											beautiful endpoint, but Autooxy missed it!
4	116	1392	5.782	100	☒ 100	xx										
5	117	1395	5.516	75	☒ 75											
6	118	3033	5.970	50	☒ 50											
7	119	1421	7.185	30	☒ 30											
8	120	1298	7.500	20	☒ 20		xx		xx	xx						
9	121	1397	8.564	10	☒ 10				xx	xx						
10	122	1313	9.102	5	☒ 5											
11	123	1488	10.268	0	☒ 1				xx	xxx						
12																
4#	116	745	5.780		☒ 100											
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): DT MH TV

Bottom Depth: 189 m

Transmisso Cleaned: (Y) N

Time	UTC	Local
Start	23:13	16:13
Bottom	23:17	16:17
End	23:29	16:29

Positional Information

Start

Lat: 48° 51.323 N

Lon: 123° 10.849 W

Bottom

Lat: 48° 51.298 N

Lon: 123° 10.892 W

End

Lat: 48° 51.146 N

Lon: 123° 11.208 W

Oxygen Info For This Cast

Blank Value: 0.005 mL • L⁻¹

Std Value: 0.7127 mL • L⁻¹

*Date Run: 18 | Apr | 2010 local

Analyst: DT

*Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

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

Cruise ID: 2010-19

Station: 42

Event #: 42 (yup!)

Ship: VECTOR

UTC Date (dd|mmm|yyyy): 21 | APR | 2010

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken										Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a	DPH	HPLC					
1	124	1307	2.534	bottom-5	✓	318										
2	125	1392	2.528	300	✓	300										
3	126	94	2.678	250	✓	250										
4	127	1397	3.329	200	✓	200										
5	128	1247	4.267	175	✓	175										
6	129	745	5.347	150	✓	150										
7	130	1298	5.513	125	✓	125										
8	131	1395	5.860	100	✓	100	xx									
9	132	3033	5.808	75	✓	75										
10	133	1421	5.448	50	✓	50	xx									
11	134	1313	5.675	30	✓	30										
12	135	1330	5.874	20	✓	20			xx	xx						
13	136	1318	6.667	10	✓	10			xx	xx						
14	137	1300	9.217	5	✓	5										
15	138	1338	9.466	surface	✓	1			xx	xx						bottle is leaking
16																
17	131	1488	5.739			100										dupl. cate
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): DT MH TV

Bottom Depth: 322 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	2:06	20:06
Bottom	2:13	20:13
End	2:30	20:30

Positional Information

Start Lat: 49° 1.861 N

Lon: 123° 26.502 W

Bottom Lat: 49° 1.836 N

Lon: 123° 26.549 W

End Lat: 49° 1.817 N

Lon: 123° 26.564 W

Oxygen Info For This Cast

Blank Value: 0.005 mL · L⁻¹

Std Value: 0.7127 mL · L⁻¹

*Date Run: 16 Apr 2010

Analyst: DT

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

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

Cruise ID: 2010-19

Station: 39

Event #: 46

Ship: VECTOR

UTC Date (dd|mmm|yyyy): 21 | APR | 2010

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken								Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a	PH	TEMP	COND	RES	
1	139	94	2.551	bottom-5	369									
2	140	945	2.667	350	351			x						
3	141	1247	2.939	300	300									
4	142	1299	3.161	250	250									
5	143	1300	3.561	200	200									
6	144	1301	4.161	175	175									
7	145	1408	4.745	150	150									
8	146	1318	5.131	125	124									
9	147A	1230	5.640	100	100	xx								147B Flux: 1338 VALUE 5.662
10	148	1342	5.020	75	75									
11	149	1395	5.237	50	50		xx							
12	150	1347	5.687	30	29									
13	151	1421	5.973	20	20				xx	xx				
14	152	1488	8.015	10	10				xx	xx				
15	153	3033	8.854	5	5									
16	154	708	9.117	surface	1				xx	xx				
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): DT MH TV

Bottom Depth: 376 m

Transmisso Cleaned: ☒ / N

Time	UTC	Local
Start	6:24	23:24
Bottom	6:30	23:30
End	6:50	23:50

Positional Information

Start
Lat: 49° 9.826 N
Lon: 123° 32.941 W

Bottom
Lat: 49° 9.818 N
Lon: 123° 32.993 W

End
Lat: 49° 9.770 N
Lon: 123° 33.031 W

Oxygen Info For This Cast

Blank Value: 0.025 mL · L⁻¹

Std Value: 0.7127 mL · L⁻¹

*Date Run: 18 | MAY | 2010

Analyst: CS

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

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

Cruise ID: 2010-19 Station: 27 Event #: 49 Ship: VECTOC UTC Date (dd|mmm|yyyy): 21 | APR | 2010

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken										Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	NH ₄						
1	155	2061	2.504	80m-5	✓ 340											
2	156	2049	2.610	300	✓ 300											
3	157	2065	2.828	250	✓ 250											
4	158	3067	3.165	200	✓ 200											
5	159	3113	3.571	175	✓ 175											
6	160	3126	4.201	150	✓ 150											
7	161	3190	4.793	125	✓ 125											
8	162	3201	5.189	100	✓ 100	✓✓									162.0 FLASK 3199 VALUE 5.179	
9	163	3180	5.041	75	✓ 75											
10	164	2059	5.283	50	✓ 50		✓✓	✓								
11	165	3019	5.770	30	✓ 30											
12	166	3047	6.043	20	✓ 20				✓✓	✓✓						
13	167	2047	7.535	10	✓ 10				✓✓	✓✓						
14	168	2068	7.527	5	✓ 5											
15	169	3151	7.554	0	✓ 1				✓✓	✓✓						
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): 15 SR TG

Bottom Depth: 347 m

Transmissio Cleaned: Y / N

Time	UTC	Local
Start	10:35	08:35
Bottom	12:47	08:47
End	11:07	09:07

Positional Information

Start Lat: 49 ° 12.086 N
Lon: 123 ° 47.994 W

Bottom Lat: 49 ° 19.116 N
Lon: 123 ° 48.053 W

End Lat: 49 ° 19.085 N
Lon: 123 ° 47.920 W

Oxygen Info For This Cast

Blank Value: 0.005 mL · L⁻¹
Std Value: 0.7127 mL · L⁻¹
*Date Run: 18 | 04 | 2010
Analyst: CD

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

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

Cruise ID: 2010-19 Station: 2 Event #: 53 Ship: VECTOR UTC Date (dd|mmm|yyyy): 21 | APR | 2010

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken										Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a	NH ₄						
1	170	94	2.714	80m-5	✓ 260											
2	171	745	2.896	250	✓ 250											
3	172	1247	3.464	200	✓ 200											
4	173	1298	3.921	175	✓ 175			✓								
5	174	1300	4.526	150	✓ 150											
6	175	1307	4.844	125	✓ 125											
7	176A	1408	4.942	100	✓ 100	✓									176B	FLASK 1318 VALUE 4.980
8	177	1330	4.881	75	✓ 75											
9	178	1338	5.007	50	✓ 50											
10	179	1392	6.312	30	✓ 30				✓	✓						
11	180	1395	7.511	20	✓ 21				✓	✓						
12	181	1397	7.889	10	✓ 10				✓	✓						
13	182	1421	8.167	5	✓ 5				✓	✓						
14	183	1488	8.851	5												
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): CS SE TB

Bottom Depth: 280 m

Transmisso Cleaned: ☒ Y / ☐ N

	UTC	Local
Time		
Start	15:45	03:45
Bottom	15:51	
End	16:07	

Positional Information

Start Lat: 49 ° 24.079 N
Lon: 124 ° 09.370 W

Bottom Lat: 49 ° 24.121 N
Lon: 124 ° 09.363 W

End Lat: 49 ° 24.126 N
Lon: 124 ° 09.364 W

Oxygen Info For This Cast

Blank Value: 0.05 mL · L⁻¹
Std Value: 0.7127 mL · L⁻¹
*Date Run: 18 | APR | 200
Analyst: CS

* Oxygen blanks and standards should be run daily, if possible

* WRONG DEPTH PUT IN FOR 176A → 100M NOT 125M

Water Properties Group

Rosette Log

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

Cruise ID: 2010-19

Station: 3

Event #: 56

Ship: VECTOR

UTC Date (dd|mmm|yyyy): 21 | APR | 2010

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken										Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a	NH ₄						
1	184	3196	2.674	Btm-5	✓ 315											
2	185	2025	2.671	300	✓ 300											
3	186	2014	3.027	250	✓ 250											
4	187	3016	3.503	200	✓ 200											
5	188	3104	3.959	175	✓ 174			✓								
6	189	3100	4.365	150	✓ 149											
7	190	3206	4.673	125	✓ 124											
8	191	3024	5.022	100	✓ 100	✓										
9	192	1312	4.753	75	✓ 75											
10	193	2092	5.068	50	✓ 50		✓									
11	194	2063	6.292	30	✓ 30				✓	✓						
12	195	3142	6.372	20	✓ 20											
13	196	1128	6.553	10	✓ 10				✓	✓						
14	197	3193	6.617	5	✓ 5				✓	✓						
15	198	3119	6.680	sfu					✓	✓						
16																
8	191	3157	5.028		100											duplicate
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s):
DT TV CS/MH

Bottom Depth: 320 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1948	12:48
Bottom	1955	12:55
End	20:15	13:15

Positional Information		
Start	Lat: 49 ° 26.624	N
	Lon: 124 ° 20.195	W
Bottom	Lat: 49 ° 26.620	N
	Lon: 124 ° 20.177	W

End	Lat: 49 ° 26.634	N
	Lon: 124 ° 20.116	W

Oxygen Info For This Cast	
Blank Value:	<u>0.005</u> mL · L ⁻¹
Std Value:	<u>0.7127</u> mL · L ⁻¹
*Date Run:	<u>18 APR 2010</u>
Analyst:	<u>CS DT</u>

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

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

Cruise ID: 2010-19 Station: 6 Event #: 58 Ship: VECTOR UTC Date (dd|mmm|yyyy): 21 | APR | 2010

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken								Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a	NH ₄ HPLC				
1	199	1395	3.604	Bot-5	✓ 188									
2	200	1392	3.881	175	✓ 175			x						
3	201	1397	4.064	150	✓ 150									
4	202	1338	4.446	125	✓ 125									
5	203	1318	4.619	100	✓ 100	xx								
6	204	1408	4.573	75	✓ 75									
7	205	1307	5.068	50	✓ 50		xx							
8	206	1300	5.828	30	✓ 30									
9	207	1298	6.138	20	✓ 20				xx	xx				
10	208	1247	7.770	10	✓ 10				xx	xx				
11	209	745	8.034	5	✓ 5									
12	210	94	7.975	0	✓ 1.3				xx	xx				
13														
14	203	1330	4.622											
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s):
DT MH TV

Bottom Depth: 192 m

Transmissio Cleaned: Y / N

	Time	UTC	Local
Start		21:53	14:53
Bottom		21:57	14:57
End		22:08	15:08

Positional Information

Start
Lat: 49° 30.598 N
Lon: 124° 27.796 W

Bottom
Lat: 49° 30.601 N
Lon: 124° 27.786 W

End
Lat: 49° 30.608 N
Lon: 124° 27.772 W

Oxygen Info For This Cast

Blank Value: 0.500 mL · L⁻¹

Std Value: 0.7127 mL · L⁻¹

*Date Run: 21 APR 2010

Analyst: DT

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

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

Cruise ID: 2010-19 Station: 9 Event #: 61 Ship: VECTOR UTC Date (dd|mmm|yyyy): 22 | APR | 2010

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken								Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a	NH₄ HPLC				
1	211	2061	lost sample	bottom-5	✓	163								bad titration because of large bubble
2	212	2049	3.620	150	✓	150		X						
3	213	2085	4.128	125	✓	125								
4	214	3067	4.483	100	✓	100	xx							
5	215	3126	4.886	75	✓	75								
6	216	3190	5.453	50	✓	50	xx							
7	217	3201	6.127	30	✓	30								
8	218	3199	7.506	20	✓	20			xx	xx				- double titration nothing in logbook MN
9	219	3180	8.209	10	✓	10			xx	xx				
10	220	2059	8.321	5	✓	5								
11	221	3019	8.387	surface	✓	1.5			xx	xx				
12														
13	214	3113	4.475											
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s):
DT MH TV

Bottom Depth: 168 m

Transmissio Cleaned: (Y) 1 N

Time	UTC	Local
Start	00:42	17:42
Bottom	00:46	17:46
End	00:57	17:57

Positional Information

Start

Lat: 49° 35.507 N

Lon: 124° 38.321 W

Bottom

Lat: 49° 35.506 N

Lon: 124° 38.299 W

End

Lat: 49° 35.504 N

Lon: 124° 38.262 W

Oxygen Info For This Cast

Blank Value: 0.500 mL · L⁻¹

Std Value: 0.7127 mL · L⁻¹

*Date Run: 21 | APR | 2010

Analyst: DT

*Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

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

Cruise ID: 2010-19

Station: 12

Event #: 64

Ship: VECTOR

UTC Date (dd|mmm|yyyy): 22 | APR | 2010

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken								Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a	NH ₄ HPLC				
1	222	1300	2.720	bottom-5	✓ 350	1	1							
2	223	1330	2.987	300	✓ 300			x						
3	224	94	3.143	250	✓ 250									
4	225	1298	3.522	200	✓ 200									
5	226	1395	3.728	175	✓ 174									
6	227	1392	3.960	150	✓ 150									
7	228	1307	4.270	125	✓ 125									
8	229	1408	4.289	100	✓ 100	xx								
9	230	1338	4.375	75	✓ 72									
10	231	1397	4.899	50	✓ 51		xx							
11	232	1247	5.344	30	✓ ~30									depth uncertain
12	233	1318	5.926	20	✓ 21				xx	xx				
13	234	1421	6.371	10	✓ 11				xx	xx				bottle leaked
14	235	1488	7.608	5	✓ 6									
15	236	3033	8.185	sm/cu	✓ 0.8				xx	xx				bottle leaked
16														
8		745	4.270		100									duplicate
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): DT MH TV

Bottom Depth: 354 m

Transmissio Cleaned: Y / N

Time	UTC	Local
Start	2:53	19:53
Bottom	2:59	19:59
End	3:15	20:15

Positional Information

Start
Lat: 49° 43.614 N
Lon: 124° 40.786 W

Bottom
Lat: 49° 43.607 N
Lon: 124° 40.787 W

End
Lat: 49° 43.571 N
Lon: 124° 40.733 W

Oxygen Info For This Cast

Blank Value: 0.005 mL · L⁻¹

Std Value: 0.7127 mL · L⁻¹

*Date Run: 21 APR 2010 local

Analyst: DT

*Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

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

Cruise ID: 2010-19

Station: 16

Event #: 67

Ship: Vector

UTC Date (dd|mmm|yyyy): 22 | APR | 2010

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken								Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	NH ₄				
1	237	1128	3.386	bottom-5	✓ 153									
2	238	2014	3.396	125	✓ 125			X						
3	239	3157	3.628	100	✓ 100	XX								FAIL 1312 VALUE 3.660
4	240	30116	4.163	75	✓ 75									
5	241	3092	4.778	50	✓ 50		XX							241B Error
6	242	3106	5.465	30	✓ 30									
7	243	3193	5.638	20	✓ 20				XX	XX				
8	244	2025	6.043	10	✓ 10				XX	XX				
9	245	3196	6.164	5	✓ 5									
10	246	3104	7.062	surf	✓ 1				XX	XX				
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s):
CS SR TG

Bottom Depth: 158 m

Transmisso Cleaned: (Y) / N

	UTC	Local
Start	0822	0122
Bottom	0825	0125
End	0838	0138

Positional Information

Start
Lat: 49 ° 57.69 N
Lon: 125 ° 8.76 W

Bottom
Lat: 49 ° 57.72 N
Lon: 125 ° 8.78 W

End
Lat: 49 ° 57.69 N
Lon: 125 ° 8.81 W

Oxygen Info For This Cast

Blank Value: 0.005 mL · L⁻¹

Std Value: 0.7127 mL · L⁻¹

*Date Run: 08 APR 2010

Analyst: CS

* Oxygen blanks and standards should be run daily, if possible

* 239B entered as 240 @ 75m *
@ 100m

* 249 → Titration started by computer → added 0.102 mL then crashed, completed titration as 249B → need to be combined

Water Properties Group

Rosette Log

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

Cruise ID: 2010-19 Station: 14 Event #: 69 Ship: VECTOR UTC Date (dd|mmm|yyyy): 22 | APR | 2010

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken								Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a	PH	TEMP	COND	RES	
1	247	94	2830	Btm-5	✓ 306									* RAN WRONG INFO
2	248	745	2.388	250	✓ 250									
3	249	1247	2437	200	✓ 200									* Added 0.102 mL
4	250	1298	3876	175	✓ 174									
5	251	1300	3.787	150	✓ 149									
6	252	1301	3840	125	✓ 124			✓						
7	253	1318	4.161	100	✓ 99	✓✓								
8	254	1330	4.185	75	✓ 74		✓							
9	255	1338	4.540	50	✓ 49		✓✓							
10	256	1392	5.227	30	✓ 29									
11	257	1395	6.113	20	✓ 19			✓✓	✓✓					
12	258	1397	1859	10	✓ 9			✓✓	✓✓					
13	259	1408	8.178	5	✓ 4									
14	260	1421	8.126	SPC	✓ 1				✓✓	✓✓				
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): TG SL CS

Bottom Depth: 315 m

Transmissio Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	11:39	
Bottom	11:44	
End	12:14	

Positional Information

Start Lat: 49 ° 53.014 N
Lon: 124 ° 59.59 W

Bottom Lat: 49 ° 52.95 N
Lon: 124 ° 59.64 W

End Lat: 49 ° 59.81 N
Lon: 124 ° 59.584 W

Oxygen Info For This Cast

Blank Value: 0.008 mL · L⁻¹

Std Value: 0.7127 mL · L⁻¹

*Date Run: 18 | APR | 2010

Analyst: CS

* Oxygen blanks and standards should be run daily, if possible

SAMPLE 247 RAN AS 246 w/ WRONG FLASK # & DEPTH.