

Water Properties Group

Rosette Log

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

Cruise ID: 2009-43

Station: SS

Event #: 1

Ship: Vector

UTC Date (dd|mmm|yyyy): 07|06|2009

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	1	700	1.97871	100	☒									
2	2	1174	2.47413	25	☒			x						
3	3	621	4.14141	50	☒									
4	4	622	4.70356	40	☒		vu							
5	5	1338	4.72674	30	☒									
6	6	1487	4.81725	20	☒				vv	vv				
7	7	1368	5.2058	10	☒				vv	vv				
8	8	639	7.53263	5	☒									
9	9	657	8.77935	surf	☒				vv	N				
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): HT BT

Bottom Depth: 100 m

Transmisso Cleaned: (Y) N

Time	UTC	Local
Start	2345	
Bottom	2347	
End	2357	

Positional Information

Start

Lat: 48 ° 49 40.7 N

Lon: 123 ° 29 99.2 W

Bottom

Lat: 48 ° 37 40.0 N

Lon: 123 ° 29 99.0 W

End

Lat: 48 ° 39 42.6 N

Lon: 123 ° 29 97.7 W

Oxygen Info For This Cast

Blank Value: 0.003333 mL · L⁻¹

Std Value: 0.726333 mL · L⁻¹

*Date Run: 18.06.09

Analyst: Mbl

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

* ERROR ON LABELS - Unread
2009-43 put in ink

Water Properties Group

Rosette Log

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

Cruise ID: 2009-43 Station: 16 Event #: 7 Ship: Vesder UTC Date (dd|mmm|yyyy): 18 | Jun | 2009

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	10	668	3.74440	80T	✓	146										
2	11	745	3.67841	125	✓			*								
3	12	1126	3.65312	100	✓											
4	13	1128	3.53734	75	✓											
5	14	1134	3.43742	50	✓											
6	15	1306	3.55114	40	✓		✓✓									
7	16	1317	3.79098	36	✓											
8	17	1335	4.56082	20	✓				✓✓	✓✓						
9	18	1459	6.23960	10	✓				✓✓	✓✓						
10	19	1464	6.40136	5	✓				✓✓	✓✓						
11	20	1473	6.40585	surf	✓	↓	↓		✓✓	✓✓						
12	21															
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): WOT

Bottom Depth: 152 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1358	
Bottom	1401	
End	1413	

Positional Information

Start

Lat: 49 ° 57 769 N

Lon: 125 ° 88 00 W

Bottom

Lat: 49 ° 57 794 N

Lon: 125 ° 88 894 W

End

Lat: 49 ° 57 830 N

Lon: 125 ° 9 160 W

Oxygen Info For This Cast

Blank Value: .003 mL · L⁻¹

Std Value: .72633 mL · L⁻¹

*Date Run: 1816109

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: 2009-43 Station: 14 Event #: 10 Ship: Ventura UTC Date (dd|mmm|yyyy): 18 Jun 2009

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 ⁺	PH ₂ O					
1	21	700	3.70307	BOT	☒ 306											
2	22	1174	3.68889	300	☒			✓								
3	23	621	3.88543	250	☒											
4	24	622	3.86202	200	☒											
5	25	1333	3.92735	175	☒											
6	26	1487	3.84834	150	☒											
7	27	657	3.51230	125	☒											
8	28	639	3.36069	100	☒											
9	29	1368	3.42570	75	☒											
10	30	620	3.76195	50	☒											
11	31	1301	3.67831	40	☒		✓									
12	32	611	3.80731	30	☒											
13	33	715	4.45410	20	☒				✓	✓						
14	34	1105	5.78690	10	☒				✓	✓						
15	35	1465	6.59551	5	☒											
16	36	638	6.4839	5guy		✓	✓		✓	✓	✓					
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): MT2

Bottom Depth: 313 m

Transmissio Cleaned: Y / N

Time	UTC	Local
Start	1711	
Bottom	1718	
End	1736	

Positional Information

Start

Lat: 49 ° 52 931 N

Lon: 124 ° 59 670 W

Bottom

Lat: 49 ° 52 871 N

Lon: 124 ° 59 762 W

End

Lat: 49 ° 52 835 N

Lon: 125 ° 00 005 W

Oxygen Info For This Cast

Blank Value: 0.003 mL · L⁻¹

Std Value: 0.72633 mL · L⁻¹

*Date Run: 18 Jun 09

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: 2009-43 Station: 12 Event #: 14 Ship: Vectra UTC Date (dd|mmm|yyyy): 18 | Jun | 2009

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 -HPLC						
1	37	1411	3.45034	30T	☒	349										
2	38	1320	3.44700	350	☒	349										
3	39	1400	3.84791	300	☒											
4	40	1175	3.88158	250	☒											
5	41	1409	3.93707	200	☒											
6	42	2020	3.89789	175	☒											
7	43	1123	3.87420	150	☒											
8	44	1406	4.03066	125	☒											
9	45	1322	3.85793	100	☒											
10	46	1209	3.84872	75	☒											
11	47	1146	3.89951	50	☒											
12	48	1373	4.10123	40	☒											
13	49	631	4.54212	30	☒											
14	50	1414	4.86445	20	☒											
15	51	1397	6.61402	10	☒											
16	52	1106	6.75326	5	☒											
17	53	1384	6.74773	surf	☒											
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): DT

Bottom Depth: 355 m

Transmisso Cleaned: ☒ N

Time	UTC	Local
Start	2118	
Bottom	2126	
End	2145	

Positional Information

Start

Lat: 49 ° 43.600 N

Lon: 124 ° 40.895 W

Bottom

Lat: 49 ° 43.644 N

Lon: 124 ° 40.910 W

End

Lat: 49 ° 43.703 N

Lon: 124 ° 40.944 W

Oxygen Info For This Cast

Blank Value: 0.003 mL · L⁻¹

Std Value: 0.72633 mL · L⁻¹

*Date Run: 18 Jun 2009

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: 2609-43 Station: 9 Event #: 16 Ship: Vector UTC Date (dd|mmm|yyyy): 18 | Jan | 2009

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	54	668	3.68337	DOT	☒ 168											
2	55	745	3.79441	150	☒											
3	56	1126	3.43585	125	☒		☒									
4	57	1128	3.64609	100	☒											
5	58	1134	3.54150	75	☒											
6	59	1306	3.91248	50	☒											
7	60	1317	4.20808	40	☒											
8	61	1335	4.16151	30	☒											
9	62	1459	4.52511	20	☒				☒	☒						
10	63	1464	5.47386	10	☒				☒	☒						
11	64	1473	6.91229	5	☒											
12	65	1476	6.72675	surf	☒	☒	☒		☒	☒						
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): in 10+

Bottom Depth: 168 m
Transmisso Cleaned: ☒ / N

Time	UTC	Local
Start	2329	
Bottom	2332	
End	2344	

Positional Information
Start
Lat: 49 ° 39 491 N
Lon: 124 ° 38 399 W

Bottom
Lat: 49 ° 35 470 N
Lon: 124 ° 38 298 W

End
Lat: 49 ° 35 502 N
Lon: 124 ° 38 248 W

Oxygen Info For This Cast
Blank Value: 0.063333 mL • L⁻¹
Std Value: 0.726333 mL • L⁻¹
*Date Run: 19.106109
Analyst: _____

* 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: 2009-43

Station: 6

Event #: 18

Ship: Vector

UTC Date (dd|mmm|yyyy): 19 | June | 2009

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	66	611	3.95804	807	☒ 190											
2	67	620	3.96979	175	☒											
3	68	621	4.01342	150	☒											
4	69	622	4.33088	125	☒		✓✓									
5	70	638	4.20523	100	☒											
6	71	639	3.72321	75	☒	✓✓										Flask: 657, DO: 3.69978
7	72	700	4.00422	50	☒											
8	73	715	4.21982	40	☒											
9	74	1105	4.21798	30	☒											
10	75	1174	4.92152	20	☒				xx	xx						
11	76	1301	6.78338	10					✓✓	xx						
12	77	1333	7.00744	5												
13	78	1368	6.97746	Scup		✓	✓		xx	✓✓						
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): SR M#

Bottom Depth: 195 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0144	
Bottom	0147	
End	0201	

Positional Information

Start

Lat: 49 ° 30.653 N

Lon: 124 ° 27.787 W

Bottom

Lat: 49 ° 30.689 N

Lon: 124 ° 27.870 W

End

Lat: 49 ° 30.722 N

Lon: 124 ° 27.876 W

Oxygen Info For This Cast

Blank Value: 0.00333 mL · L⁻¹

Std Value: 0.726333 mL · L⁻¹

*Date Run: 19 | 06 | 09

Analyst: Wcl

* 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: 2009-43

Station: 3

Event #: 21

Ship: Vector

UTC Date (dd|mmm|yyyy): 19 June 2009

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	79	1106	3.74913	Bot	☒	315								
2	80	1397	3.77648	300	☒									
3	81	631	3.75648	250	☒									
4	82	1373	3.93096	200	☒									
5	83	1406	4.25507	175	☒									
6	84	1209	4.27732	150	☒									
7	85	1123	4.37053	125	☒									
8	86	1322	4.07000	100	☒									
9	87	1384	3.95347	75	☒									
10	88	1411	3.90472	50	☒									
11	89	2020	4.03944	40	☒									
12	90	1409	4.18592	30	☒									
13	91	1414	4.60701	20	☒									
14	92	1400	6.91271	10	☒									
15	93	1146	7.82089	5										wrong flask #, 1175
16	94	1175	6.52474	500										wrong flask #, 1146
17														
18														
19														
20														
21														
22														
23														
24														

*Data combined with event #23

Watchkeeper(s): SR MH

Bottom Depth: 319 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	0509	
Bottom	0516	
End	0537	

Positional Information

Start
Lat: 49 ° 26.747 N
Lon: 124 ° 20.238 W

Bottom
Lat: 49 ° 26.747 N
Lon: 124 ° 20.238 W

End
Lat: 49 ° 26.934 N
Lon: 124 ° 20.293 W

Oxygen Info For This Cast

Blank Value: 0.03333 mL · L⁻¹

Std Value: 0.726333 mL · L⁻¹

*Date Run: 19 June 09

Analyst: Mel

*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: 2009-43 Station: 2 Event #: 23 Ship: Vector UTC Date (dd|mmm|yyyy): 19 | June | 2009

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	95	3204	3.81496	B-5	✓ 275											
2	96	3174	3.87587	200	✓			X								
3	97	3191	4.32039	175	✓											
4	98	1421	4.35818	150	✓											
5	99	3069	4.30144	125	✓		2									
6	100	3007	4.19978	100	✓	2										
7	101	3119	4.10205	75	✓											
8	102	3104	3.92535	50	✓											
9	103	3061	4.02565	40	✓											
10	104	3142	4.22277	30	✓											
11	105	3107	4.83267	20	✓				2	2						
12	106	3200	6.40671	10	✓				2	2						
13	107	3086	6.74592	5	✓											
14	108	2060	7.43725	Surf	✓	↓	↓		2	2						
15																
16	100b	3207	4.18573	100	✓											
17																
18																
19																
20																
21																
22																
23																
24																

OXY →
DUPL.

*Event# not changed in Oxy data
- combined with Event #21

Watchkeeper(s):
SR M H

Bottom Depth: 280 m
Transmisso Cleaned: Y / (N)

Time	UTC	Local
Start	0717	
Bottom	0723	
End	0737	

Positional Information
Start
Lat: 49 ° 24.106 N
Lon: 124 ° 9.275 W

Bottom
Lat: 49 ° 24.109 N
Lon: 124 ° 9.248 W

End
Lat: 49 ° 24.115 N
Lon: 124 ° 9.169 W

Oxygen Info For This Cast
Blank Value: 0.003 mL · L⁻¹
Std Value: 0.72633 mL · L⁻¹
*Date Run: 19.6.09
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: 2009-43

Station: 27

Event #: 27

Ship: Vector

UTC Date (dd|mmm|yyyy): 19 | June | 2009

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	HPK					
1	109	1301	4.05638	B-5	✓ 338											Did not enter correct bottom z in Oz file until 2nd bottle (#110)
2	110	639	4.08573	300	✓			X								
3	111	700	4.11640	250	✓											
4	112	1105	4.24911	200	✓											
5	113	1321	4.17091	175	✓											
6	114	611	4.26552	150	✓		2									
7	115	1333	4.24844	125	✓											
8	116	715	4.15125	100	✓	2										
9	117	638	4.03163	75	✓											
10	118	621	3.98904	50	✓											
11	119	620	4.10638	40	✓											
12	120	1174	4.16527	30	✓											
13	121	1368	4.39276	20	✓				2	2						
14	122	1465	6.35512	10	✓				2	2						
15	123	1487	7.06391	5	✓											
16	124	712	6.76017	SWRF		↓	↓		2	2						
17																
18	116b	657	4.02787	100	✓											
19																
20																
21																
22																
23																
24																

Oxy
Dupl. →

Watchkeeper(s):
SR + MH

Bottom Depth: 342 m

Transmissio Cleaned: (Y) / N

	UTC	Local
Start	1124	
Bottom	1131	
End	1150	

Positional Information

Start
Lat: 49 ° 19.133 N
Lon: 123 ° 47.976 W

Bottom
Lat: 49 ° 19.153 N
Lon: 123 ° 48.010 W

End
Lat: 49 ° 19.208 N
Lon: 123 ° 47.978 W

Oxygen Info For This Cast

Blank Value: 0.003 mL · L⁻¹

Std Value: 0.72633 mL · L⁻¹

*Date Run: 19 | 6 | 09

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: 2009-43

Station: 39

Event #: 30

Ship: Vector

UTC Date (dd|mmm|yyyy): 19 | Jun | 2009

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	PRYTD					
1	125	1384	4.04982	801	☒ 313											
2	126	2020	4.10433	350	☒											
3	127	631	4.19294	300	☒											
4	128	1209	4.10936	250	☒											
5	129	1322	4.30924	200	☒											
6	130	1414	4.34456	175	☒											
7	131	1411	4.39317	150	☒											
8	132	1123	4.45811	125	☒											
9	133	1397	4.25332	100	☒											
10	134	1146	4.08031	75	☒											
11	135	1400	4.32855	50	☒											
12	136	1175	4.46895	40	☒											
13	137	1409	4.99763	30	☒											
14	138	1406	5.71659	20	☒				✓	✓						
15	139	1373	6.24435	10	☒				✓	✓						
16	140	1106	6.59767	5	☒											
17	141	1320	6.93790	244		✓	✓		✓	✓	✓					
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): JOH

Bottom Depth: 390 m

Transmisso Cleaned: ☒ N

Time	UTC	Local
Start	1417	
Bottom	1424	
End	1444	

Positional Information

Start

Lat: 49 ° 9 800 N

Lon: 123 ° 32 930 W

Bottom

Lat: 49 ° 9 856 N

Lon: 123 ° 32 905 W

End

Lat: 49 ° 10 040 N

Lon: 123 ° 32 898 W

Oxygen Info For This Cast

Blank Value: 0.003 mL · L⁻¹

Std Value: 0.72633 mL · L⁻¹

*Date Run: 19 16 109

Analyst: DT

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

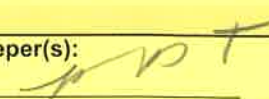
Water Properties Group

Rosette Log

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

Cruise ID: 2009-43 Station: 42 Event #: 34 Ship: Vector UTC Date (dd|mmm|yyyy): 19 | Jun | 2009

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	142	1464	3.99819	800	☒	315										
2	143	1473	4.03039	300	☒											
3	144	1306	4.14350	250	☒											
4	145	1126	4.13110	200	☒											
5	146	1128	4.19588	175	☒											4.19588=02
6	147	1317	4.23665	150	☒											
7	148	668	4.42188	125	☒											
8	149	1335	4.12039	100	☒											
9	150	1134	3.85374	75	☒											
10	151	1459	4.14876	50	☒											
11	152	1476	4.18439	40	☒											
12	153	1477	4.42794	30	☒											
13	154	1498	4.74102	20	☒											
14	155	1478	5.27491	10	☒											
15	156	1481	6.76591	5	☒											
16	157	1483	6.74874	surf												
17																
oxy Du PL → 18	145b	745	4.11800	200	☒											
19																
20																
21																
22																
23																
24																

Watchkeeper(s): 

Bottom Depth: 320 m
Transmisso Cleaned: ☒ N

Time	UTC	Local
Start	1808	
Bottom	1814	
End	1832	

Positional Information
Start
Lat: 49 ° 1.760 N
Lon: 123 ° 26.225 W

Bottom
Lat: 49 ° 1.760 N
Lon: 123 ° 26.291 W

End
Lat: 49 ° 1.693 N
Lon: 123 ° 26.474 W

Oxygen Info For This Cast
Blank Value: _____ mL · L⁻¹
Std Value: _____ mL · L⁻¹
*Date Run: ____|____|____
Analyst: _____

* 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: 2009-43

Station: 46

Event #: 36

Ship: Vectra

UTC Date (dd|mmm|yyyy): 19 | Jan | 2009

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	158	611	4.26552	BOT	☒	173										
2	159	620	4.34391	150	☒											
3	160	621	4.45225	125	☒											
4	161	638	4.57038	100	☒											
5	162	639	4.67408	75	☒											
6	163	657	4.12712	50	☒											
7	164	700	4.06654	40	☒											
8	165	712	4.16312	30	☒											
9	166	715	4.24267	20	☒											
10	167	1105	4.90905	10	☒											
11	168	1174	5.40980	5	☒											
12	169	1301	5.80414	surf	☒											
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): DT

Bottom Depth: 178 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2045	
Bottom	2040	
End	2100	

Positional Information

Start Lat: 48° 51.391 N
Lon: 123° 10.823 W

Start

Bottom Lat: 48° 51.391 N
Lon: 123° 10.848 W

Bottom

End Lat: 48° 51.468 N
Lon: 123° 10.898 W

End

Oxygen Info For This Cast

Blank Value: 0.003 mL · L⁻¹
Std Value: 0.72633 mL · L⁻¹
*Date Run: 19.1.6.09
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: 2009-43 Station: 56 Event #: 43 Ship: Vector UTC Date (dd|mmm|yyyy): 20 | June | 2009

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	668	3.68337	80T	☒ 204											
2	171	745	3.63568	200	☒											
3	172	1126	3.61174	175	☒											
4	173	1128	3.68234	150	☒		✓									
5	174	1134	4.03876	125	☒											
6	175	1306	4.33306	100	☒											
7	176	1317	4.41232	75	☒	✓	✓									
8	177	1459	4.99107	50	☒											
9	178	1464	5.06358	40	☒											
10	179	1473	5.00107	30	☒											
11	180	1476	4.97402	20	☒				✓	✓						
12	181	1477	4.93011	10					✓	✓						
13	182	1478	5.00128	5												
14	183	1481	5.01166	200T		✓	✓		✓	✓						
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Duplicate entered wrong in computer #177 should be 176

Watchkeeper(s): SR MH

Bottom Depth: 209 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	01 09	
Bottom	01 13	
End	01 27	

Positional Information

Start Lat: 48 ° 46.411 N
Lon: 123 ° 1.594 W

Start

Bottom Lat: 48 ° 46.391 N
Lon: 123 ° 1.661 W

Bottom

End Lat: 48 ° 46.360 N
Lon: 123 ° 1.727 W

End

Oxygen Info For This Cast

Blank Value: 0.003333 mL · L⁻¹
Std Value: 0.726333 mL · L⁻¹
*Date Run: 20 | 06 | 09
Analyst: Wlel

* 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: 2009-43 Station: 59 Event #: 46 Ship: Vector UTC Date (dd|mmm|yyyy): 20 | June | 2009

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						
197	1	184	611	3.18632	201	✓	231									
198	2	185	620	3.48284	200	✓										
199	3	186	621	4.02561	175	✓										
200	4	187	638	4.11544	150	✓										
201	5	188	657	4.43799	125	✓										
202	6	189	639	4.43636	100	✓										
203	7	190	1374	4.69474	75	✓										
204	8	191	715	5.05408	50	✓										
205	9	192	712	5.28222	40	✓										
206	10	193	1105	5.29505	30	✓										
207	11	194	1174	5.32641	20	✓										
208	12	195	1301	5.29593	10	✓										
209	13	196	1321	5.32352	5											
210	14	197	1333	5.32469	5m											
	15															
	16															
	17															
	18															
	19															
	20															
	21															
	22															
	23															
	24															

Watchkeeper(s): SR + MH

Bottom Depth: 236 m
Transmisso Cleaned: ☒ Y / ☐ N

	Time	UTC	Local
Start		0330	
Bottom		0335	
End		0354	

Positional Information
Start
Lat: 48° 037.792 N
Lon: 123° 014.495 W

Bottom
Lat: 48° 037.806 N
Lon: 123° 014.401 W

End
Lat: 48° 037.882 N
Lon: 123° 014.225 W

Oxygen Info For This Cast
Blank Value: 0.003333 mL · L⁻¹
Std Value: 0.726333 mL · L⁻¹
*Date Run: 20 | 06 | 09
Analyst: Mel

* 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: 2009-43 Station: 65 Event #: 57 Ship: Vector UTC Date (dd|mmm|yyyy): 20 | Jun | 2009

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 L ⁻¹						
1	209	1247	2.62177	80T	☒ 120											
2	210	1373	2.68032	106	☒											
3	211	1123	3.44795	75	☒											
4	212	1175	3.74305	50	☒											
5	213	1146	4.13018	40	☒											
6	214	1322	4.52514	30	☒											
7	215	1400	5.27287	20	☒				uv	uv						→ total water depth corrected at bottle 5
8	216	1384	5.77215	10	☒				uv	uv						bad end point?
9	217	631	5.92717	5	☒											
10	218	1209	5.95699	Surf					uv	uv						
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): PPTBottom Depth: 128 mTransmisso Cleaned: ☒ N

Time	UTC	Local
Start	2039	
Bottom	2041	
End	2050	

Positional Information

Start

Lat: 48 ° 15.905 N

Lon: 123 ° 9.745 W

Bottom

Lat: 48 ° 15.925 N

Lon: 123 ° 9.722 W

End

Lat: 49 ° 15.925 N

Lon: 123 ° 9.578 W

Oxygen Info For This Cast

Blank Value: 0.003 mL · L⁻¹

Std Value: 0.72633 mL · L⁻¹

*Date Run: 20 | 6 | 09

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: 2009-43Station: ADCPEvent #: 61Ship: LeclonUTC Date (dd|mmm|yyyy): 20 | Jun | 2009

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						
218	1	219	620	2.21202	30T ✓	118										
219	2	220	1301	2.15367	100 ✓			✓								
220	3	221	712	2.21078	75 ✓		✓✓									
221	4	222	621	2.62379	50 ✓	✓✓										flask: 638 Do: 3.00800
222	5	223	1374	3.04227	40 ✓											
223	6	224	1333	3.20788	30 ✓											
224	7	225	639	3.46766	20 ✓				✓	✓						bubble in oxy flask
225	8	226	715	3.73983	10 ✓				✓	✓						
226	9	227	611	5.92352	5 ✓											
227	10	228	657	6.22492	20T ✓	✓			✓	✓						bubble in oxy flask
	11	229														
	12															
	13															
	14															
	15															
	16															
	17															
	18															
	19															
	20															
	21															
	22															
	23															
	24															

Watchkeeper(s): YN b.Bottom Depth: 122 mTransmisso Cleaned: Y T N

5m. bubble in flask

Time	UTC	Local
Start	23 31	
Bottom	23 33	
End	23 42	

Positional Information

Start
Lat: 48 ° 14 032 N
Lon: 123 ° 17 897 WBottom
Lat: 48 ° 14.030 N
Lon: 123 ° 17.868 WEnd
Lat: 48 ° 14 014 N
Lon: 123 ° 17 858 W

Oxygen Info For This Cast

Blank Value: 0.003333 mL · L⁻¹Std Value: 0.726333 mL · L⁻¹*Date Run: 21 | 06 | 09Analyst: WIC

* 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: 2009-43

Station: 69

Event #: 64

Ship: Vector

UTC Date (dd|mmm|yyyy): 21 | June | 2009

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	229	1209	1.67990	80T	☒ 174											
2	230	1400	1.67089	150	☒			✓								
3	231	1146	1.68633	125	☒											
4	232	1175	1.98648	100	☒											
5	233	1384	2.42385	75	☒		✓									
6	234	1123	3.97347	50	☒											
7	235	1322	4.54448	40	☒											
8	236	1247	4.64659	30	☒											
9	237	1373	4.75884	20	☒				✓	✓						
10	238	631	5.36267	10	☒				✓	✓						
11	239	1106	5.44868	5	☒				✓	✓						
12	240	1397	5.47782	surf	☒	✓	✓		✓	✓						
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): SR M/H

Bottom Depth: 179 m

Transmisso Cleaned: ☒ Y / N

	UTC	Local
Start	0245	
Bottom	0249	
End	0300	

Positional Information

Start
 Lat: 48 ° 15.628 N
 Lon: 123 ° 43.335 W

Bottom
 Lat: 48 ° 15.628 N
 Lon: 123 ° 43.335 W

End
 Lat: 48 ° 15.619 N
 Lon: 123 ° 43.657 W

Oxygen Info For This Cast

Blank Value: 0.00333 mL · L⁻¹

Std Value: 0.726333 mL · L⁻¹

*Date Run: 21.06.09

Analyst: mei

* 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: 2009-43 Station: 72 Event #: 67 Ship: Vector UTC Date (dd|mmm|yyyy): 21 | June | 2009

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	241	712	1.63299	8-5	✓	183										
2	242	611	1.63685	175	✓											
3	243	639	1.63723	150	✓											
4	244	621	1.80708	125	✓											
5	245	657	2.22337	100	✓											
6	246	1374	3.05997	75	✓											
7	247	1301	4.28569	50	✓											
8	248	1333	4.52791	40	✓											
9	249	638	4.86969	30	✓											
10	250	620	6.14920	20	✓											
11	251	715	6.19690	10	✓											
12	252	1321	6.21418	5	✓											
13	253	1105	6.19158	SURF	✓											? bad endpoint?
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): SM + MH

Bottom Depth: 188 m

Transmisso Cleaned: ☒ Y / ☐ N

	UTC	Local
Start	0550	
Bottom	0554	
End	0609	

Positional Information

Start
 Lat: 48 ° 18.588 N
 Lon: 124 ° 4.074 W

Bottom
 Lat: 48 ° 18.587 N
 Lon: 124 ° 4.105 W

End
 Lat: 48 ° 18.596 N
 Lon: 124 ° 4.190 W

Oxygen Info For This Cast

Blank Value: 0.003 mL • L⁻¹
 Std Value: 0.72633 mL • L⁻¹
 *Date Run: 21 Jun 09
 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: 2009-43

Station: 75

Event #: 70

Ship: Vector

UTC Date (dd|mmm|yyyy): 21 | Jun | 2009

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	254	1421	1.60262	B-5	☒ 220									
2	255	2060	1.60645	200	☒									
3	256	3507	1.61570	175	☒									
4	257	3061	1.65955	150	☒									
5	258	3069	2.07506	125	☒									
6	259	3104	2.71200	100	☒									
7	260	3107	3.20216	75	☒									
8	261	3119	3.26974	50	☒									
9	262	3207	3.63565	40	☒									
10	263	3142	3.70988	30	☒									
11	264	3174	3.96007	20	☒									
12	265	3191	6.93795	10	☒									
13	266	3204	6.58513	5	☒									
14	267	3200	6.86117	Surf	☒									
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): SR + MIT

Bottom Depth: 225 m

Transmisso Cleaned: ☒ Y ☐ N

	UTC	Local
Start	0943	
Bottom	0947	
End		

Positional Information

Start

Lat: 48 ° 28.224 N

Lon: 124 ° 32.030 W

Bottom

Lat: 48 ° 28.224 N

Lon: 124 ° 32.030 W

End

Lat: 48 ° 28.224 N

Lon: 124 ° 32.030 W

Oxygen Info For This Cast

Blank Value: 0.003 mL · L⁻¹

Std Value: 0.72633 mL · L⁻¹

*Date Run: 21 Jun 09

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: 2009-43

Station: 102

Event #: 73

Ship: Vector

UTC Date (dd|mmm|yyyy): 21 | June | 2009

268
269
270
271
272
273
274
275
276
277
278
279
280
281

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	268	1373	1.54711	B-5	☒ 250											
2	268	631	1.57996	200	☒											
3	268	1322	1.68924	175	☒											
4	269	1384	2.02034	150	☒											
5	270	1247	2.09355	125	☒											
6	271	1175	2.63480	100	☒											
7	272	1106	2.95322	75	☒											
8	273	1123	3.68935	50	☒											
9	274	1146	3.66884	40	☒											
10	275	1397	3.58220	30	☒											
11	276	1408	5.43686	20	☒				~	~						
12	277	1209	4.41054	10	☒				~	~						
13	278	1406	7.14360	5	☒				~	~						
14	279	1409	7.32613	surf	☒				~	~						
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): DNB

Bottom Depth: 255 m

Transmisso Cleaned: ☒ / N

Time	UTC	Local
Start	1215	
Bottom	1221	
End	1238	

Positional Information

Start

Lat: 48 ° 30.047 N

Lon: 124 ° 44.077 W

Bottom

Lat: 48 ° 30.112 N

Lon: 124 ° 44.459 W

End

Lat: 48 ° 30.295 N

Lon: 124 ° 45.404 W

Oxygen Info For This Cast

Blank Value: 0.003 mL · L⁻¹

Std Value: 0.72633 mL · L⁻¹

*Date Run: 21 June 09

Analyst: DT

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