

Rosette 1: 23 bottle

CRUISE NO:

95-30

UTC DATE:

95.9.29

VESSEL: John P. Tully

STATION NO:

LBP7

HYDRO No.:

85

NISK. No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION		THERMOMETER 1		THERMOMETER 2	
					Trip Depth (db)	- Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
23	1	1232	15.6	0		CTD Sal.		31.952		hydro cast done after
22	2	1233	15.6	10				31.952		CTD and P. temp not cast
21	3	1234	10.8	25				31.964		start time 04:59
20	4	1235	9.6	50				32.444		messenger time 05:21
19	5	1236	8.6	75				32.781		wire angle 5°
18	6	1237	8.4	100				33.096		
17	7	1238	7.8	150				33.735		
16	8	1239	7.4	250				33.915		
15	9	1240	7.4	350				33.966		
14	10	1241	7.4	500				34.063		
13										Oxygen Standardization
12										
11										$V_2 = .712$.714
10										.714
9										.716 .714
8										
7										
6										$V_3 = .006$
5										$V_4 = .008$.004
4										$V_5 = .004$
3										
2										
1										

ENTERED BY:

CHECKED BY:

Bottom Depth:

Cast No: 85 down

86 up

LOC

UTC

Begin:

03/2

Bottom:

End:

BEGIN POSITION (GPS)

LAT: 49 52.43

LONG: 128 11.19

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

Comments

Rosette 1: 23 bottle

CRUISE NO: 95-30
STATION NO: LJ10

UTC DATE: 29/9/95
HYDRO No.: 88

VESSEL: John P. Tully

NISK No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION		THERMOMETER 1		THERMOMETER 2	
					Trip Depth (db)	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
23										
22										
21										
20										
19										
18										
17										
16										
15										
14										
13	13	1045	16.0	0	0		31.946	- .25		
12	12	1040	15.9	10	9.69		31.939	9.3		
11	11	1039	14.6	25	24		32.126	23.8		
10	10	1036	10.1	50	49		32.413	49.1		
9	9	1033	9.4	75	74.86		32.619	73.6		
8	8	1032	8.6	100	101		33.044	100.4		
7	7	1031	8.0	150	151		33.730	149.9		
6	6	1028	7.6	250	250		33.887	250.0		
5	5	1027	6.3	350	351		33.922	351.2		
4	4	1020	5.5	500	501		34.048	499.2		
3	3	1010	3.9	1500	1499		34.497	1499.4		
2	2	1008	3.3	2000	2002		34.574	2002.3		
1	1	1004	3.5	2000	2002		34.574	2001.5		

ENTERED BY:

CHECKED BY:

Bottom Depth: 2487

Cast No: 87 down
88 up

	LOC	UTC
Begin:		2316
Bottom:		0001
End:		0047

BEGIN POSITION (GPS)

LAT: 4911.43

LONG: 12754.66

BOTTOM POSITION (GPS)

LAT: 4911.32

LONG: 12754.94

END POSITION (GPS)

LAT:

LONG:

Comments

Rosette 1: 23 bottle

CRUISE NO:

9530

UTC DATE: 950930

VESSEL: John P. Tully

STATION NO:

L506

HYDRO No.: 95

NISK. No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION		THERMOMETER 1		THERMOMETER 2	
					Trip Depth (db)	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
23										
22										
21										
20										
19										
18										
17										
16										
15										
14										
13										
12										
11										
10	43	1241	15.6	0	17	✓	31.943			
9	42	1240	15.3	10	12.4	✓	31.912			
8	41	1239	11.7	25	24.8	✓	32.427			
7	40	1238	9.7	50	52.5	✓	32.527			
6	39	1237	9.1	75	75.4	✓	32.739			
5	38	1236	8.9	100	99.9	✓	33.105			
4	37	1235	8.2	150	151.0	✓	33.724			
3	36	1234	6.9	250	250.1	✓	33.904			
2	35	1233	7.3	350	350.9	✓	33.942			
1	34	1232	6.1	500	502.1	✓	34.035			

ENTERED BY:

CHECKED BY:

Bottom Depth: 991

Cast No: 94
95

	LOC	UTC
Begin:		0732
Bottom:		0743
End:		0804

BEGIN POSITION (GPS)

LAT: 4928.10

LONG: 12728.59

BOTTOM POSITION (GPS)

LAT: 4928.14

LONG: 12728.53

END POSITION (GPS)

LAT:

LONG:

OK

Comments

Rosette 1: 23 bottle

CRUISE NO: 9530
STATION NO: L504

UTC DATE: 950930
HYDRO No.: 98

VESSEL: John P. Tully

NISK No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION		THERMOMETER 1		THERMOMETER 2	
					Trip Depth (db)	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
23										
22										
21										
20										
19										
18										
17										
16										
15										
14										
13										
12										
11										
10										
9	50	1248	15.8	0	-1.5		31.950			
8	49	1247	15.4	10	11.6		31.955			
7	WRONG DEPTH			15	13.2					
6	48	1246	12.6	25	25.2		32.341			
5	Chlor. MAX ONLY			40	40.4					
4	47	1245	10.9	50	49.5		32.542			
3	46	1244	9.9	75	75.8		32.696			
2	45	1243	9.5	100	100.6		33.440			
1	44	1242	8.1	150	151.4		33.791			

ENTERED BY:

CHECKED BY:

Bottom Depth: 160

Cast No: 97
98

	LOC	UTC
Begin:		1023
Bottom:		1026
End:		1041

BEGIN POSITION (GPS)

LAT: 49 35.42

LONG: 127 16.56

BOTTOM POSITION (GPS)

LAT: 49 35.41

LONG: 127 16.57

END POSITION (GPS)

LAT:

LONG:

Comments

CRUISE NO: 9530
STATION NO: C-U

UTC DATE: Sep 30, 95
HYDRO No.: 102

VESSEL: John P. Tully

ENTERED BY:
CHECKED BY:

Bottom Depth:
Cast No: 101
102 m

	LOC	UTC
Begin:		1757
Bottom:		1807
End:		1835

BEGIN POSITION (GPS)
LAT: 49 39.08
LONG: 127 39.12

BOTTOM POSITION (GPS)
LAT: 49 39.07
LONG: 127 39.43

END POSITION (GPS)
LAT: 49 38.51
LONG: 127 39.41

Comments
Rosette 517.

NISK. No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION			THERMOMETER 1		THERMOMETER 2	
					Trip Depth (db)	Trip Temp.	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
# 102	1	51	1232	6.8	500	499.7		34.075			
	2	52	1233	6.6	350	351.8		33.918			
	3	53	1234	7.7	250	251.1		33.907			
	4	54	1235	8.0	150	150.9		33.676			
	5	55	1236	8.7	100	101.8		33.233			
	6	56	1237	8.8	75	74.4		32.769			
	7	57	1238	10.1	50	50.2		32.422			
	8	58	1239	14.8	25	24.8		32.004			
	9	59	1240	15.5	10	15.7		32.002			
	10	60	1241	15.7	0	1.2		31.987			
# 103	1			200				49 38.83	1910	95-30-9	
	2	61	715	8.5	200	200.2		33.857	127 38.16		
			flask	1100	entered as flask 715 not in data base.						

VESSEL: John P. Tully

[illegible][illegible]

VESSEL: John P. Tully

[illegible]

ENTERED BY:
CHECKED BY:

Bottom Depth:	56
Cast No:	109
	110

	LOC	UTC
Begin:		0047
Bottom:		0049
End:		0055

BEGIN POSITION (GPS)
LAT: 49 32.23
LONG: 126 47.24

BOTTOM POSITION (GPS)
LAT: 49 32.20
LONG: 126 47.18

END POSITION (GPS)
LAT:
LONG:

[illegible]

VESSEL: John P. Tully

ENTERED BY:
CHECKED BY:

Bottom Depth:	130
Cast No:	113 down
	114 up

	LOC	UTC
Begin:		
Bottom:		0259
End:		

BEGIN POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)	
LAT:	49 24.89
LONG:	126 58.87

END POSITION (GPS)
LAT:
LONG:

[illegible][illegible]

VESSEL: John P. Tully

[illegible]

ENTERED BY:
CHECKED BY:

Bottom Depth:
Cast No: 116 down
117 up

	LOC	UTC
Begin:		0458
Bottom:		0509
End:		0539

BEGIN POSITION (GPS)	
LAT:	4917.53
LONG:	1271048

BOTTOM POSITION (GPS)	
LAT:	49 17.59
LONG:	127 10.4

END POSITION (GPS)
LAT:
LONG:

[illegible]

Rosette 1: 23 bottle

CRUISE NO:

STATION NO:

UTC DATE:

HYDRO No.:

VESSEL: John P. Tully

[illegible]

ENTERED BY:

CHECKED BY:

Bottom Depth: 1400

Cast No: 120 down
121 up from 500.

	LOC	UTC
Begin:		0840
Bottom:	500	0924
End:		0944

BEGIN POSITION (GPS)

LAT:	49	09	587
LONG:	127	22	303

BOTTOM POSITION (GPS)

LAT: 49 09.59

LONG: 127 22.31

END POSITION (GPS)

LAT: 49 09.61

LONG: 127 22.18

Comments

Rosette 1: 23 bottle

CRUISE NO: 9530
STATION NO: L409

UTC DATE: 95-10-1
HYDRO No.: 123

VESSEL: John P. Tully

NISK. No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION		THERMOMETER 1		THERMOMETER 2	
					Trip Depth (db)	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
23										
22										
21										
20										
19										
18										
17										
16										
15										
14										
13										
12										
11										
10	106	1148	15.5	0		✓	31.965			
9	105	1146	15.5	10	9.4	✓	31.964			
8	104	1145	15.3	25	24.9	✓	31.915			
7	103	1144	9.9	50	49.0	✓	32.389			
6	102	1143	9.0	75	75.3	✓	32.559			
5	101	1142	8.5	100	100.1	✓	32.923			
4	100	1141	8.5	150	149.3	X✓	33.654			
3	99	1140	7.3	250	249.9	✓	33.900			
2	98	1139	6.5	350	349.0	✓	33.972			
1	97	1138	5.6	500	500.2	✓	34.091			

ENTERED BY:

CHECKED BY:

Bottom Depth:

Cast No: 122
103

	LOC	UTC
Begin:		1034
Bottom:		1106
End:		1148

BEGIN POSITION (GPS)

LAT: 49 05.59

LONG: 127 28.69

BOTTOM POSITION (GPS)

LAT: 49 05.46

LONG: 127 28.52

END POSITION (GPS)

LAT:

LONG:

Comments

Draw water on 8 & 9 open.

Rosette 1: 23 bottle

CRUISE NO: 9530
STATION NO: LH10

UTC DATE: 95.10.1
HYDRO No.: 125

VESSEL: John P. Tully

NISK No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION		THERMOMETER 1		THERMOMETER 2	
					Trip Depth (db)	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
23										
22										
21										
20										
19										
18										
17										
16										
15										
14										
13										
12	118	1161	16.1	0	.8	✓ 2 tries	31.962			
11	117	1160	16.1	10	9.8	✓ took 2 tries	31.964			
10	116	1158	15.2	25	25.2	✓ max @ 25m	32.058			
9	115	1157	9.9	50	51.2	✓	32.475			
8	114	1156	9.5	75	74.1	✓	32.605			
7	113	1155	8.8	100	101.7	✓	33.073			
6	112	1154	8.6	150	149.7	✓	33.716			
5	111	1153	7.7	250	249.8	✓	33.878			
4	110	1152	6.7	350	348.2	✓	33.941			
3	109	1151	5.6	500	498.1	✓	34.054			
2	108	1150	3.5	2000	1997.3	✓	34.575			
1	107	1149	3.2	2000	1999.5	✓	34.574			

ENTERED BY:
CHECKED BY:

Bottom Depth: 2368
Cast No: 124
125

LOC	UTC
Begin:	1257
Bottom:	1330
End:	1416

BEGIN POSITION (GPS)
LAT: 49 00.50
LONG: 127 36.51

BOTTOM POSITION (GPS)
LAT: 49 00.46
LONG: 127 36.21

END POSITION (GPS)
LAT:
LONG:

Comments
20m above bottom

Rosette 1: 23 bottle

CRUISE NO:

9530

UTC DATE:

95.10.2

VESSEL: John P. Tully

STATION NO:

STN 0

HYDRO No.:

127.

NISK. No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION		THERMOMETER 1		THERMOMETER 2	
					Trip Depth (db)	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
						CTD				
23	141			200	✓212.4	33.892				
22	140	1040	8.2	200	✓211.4	33.869				
21	139	1039	8.0	200	✓201.2	33.842				
20	138			300	✓294.4	33.910				
19	137			300	✓294.8	33.910				
18	136	1036	7.9	300	✓296.5	33.909				
17	135	1033	7.2	300	✓300.9	33.917				
16	134			500	✓489.3	34.036				
15	133			500	✓490.6	34.036				
14	132	1032	6.4	500	✓494.0	34.045				
13	131	1031	6.2	500	✓496.4	34.042				
12	130			1000	✓994.9	34.374				
11	129			1000	✓994.3	34.372				
10	128	1028	5.4	1000	✓994.8	34.372				
9	127	1027	5.9	1000	✓996.9	34.372				
8	126			1500	✓1483.1					
7	125			1500	✓1485.9					
6	124	1020	5.1	1500	✓1485.5	34.496				
5	123	1010	4.7	1500	✓1496.3	34.497				
4	122			1900	✓1907.8					
3	121			1900	✓1907.0					
2	120	1008	4.3	1900	✓1905.8	34.573				
1	119	1004	4.4	1900	✓1897.3	34.571				

ENTERED BY:

CHECKED BY:

Bottom Depth:

Cast No: 126
127

LOC

UTC

Begin: 0232

Bottom: 0306

End: 0353

BEGIN POSITION (GPS)

LAT: 49°06.87

LONG: 127°44.29

BOTTOM POSITION (GPS)

LAT: 49°07.13

LONG: 127°44.73

END POSITION (GPS)

LAT:

LONG:

Comments

Rosette 6 2006.

Rosette 1: 23 bottle

CRUISE NO:

9530

UTC DATE:

2 Oct 95

VESSEL: John P. Tully

STATION NO:

SEDO

HYDRO No.:

129

NISK No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION		THERMOMETER 1		THERMOMETER 2	
					Trip Depth (db)	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
23						by salinity				
22										
21										
20										
19										
18	159			✓ 100		100				
17	158			✓ 100		100				
16	157			✓ 100		100	99.6	32.940		
15	156			✓ 100	99	✓ 100	99.8	32.943		
1054 14	155	O ₂ P ₂ O ₅	10.3	✓ 100	100	✓ 100	100.0	32.962		
13	154			✓ 100	101	✓ 105	121.8	33.424		
12	153			✓ 125	122	✓ 125	121.4	33.418		
1052 11	152	O ₂ + P ₂ O ₅	10.2	✓ 125	123	✓ 125	121.8	33.446		
10	151			✓ 125	124	✓ 125 No current	123.8	33.506		
9	150	~		✓ 150	150	✓ 150				
1047 ✓ 8	149	O ₂ + P ₂ O ₅	9.9	✓ 150	150	✓ 150	149.7	33.689		
✓ 7	148	ISO		✓ 150	150	✓ 150	150.4	33.689		
6	147	ISO		150 250	253	✓ 150	148.2	33.676		
1045 ✓ 5	146	ISO + O ₂	9.3	✓ 250	251	✓ 250	251.6	33.883		
✓ 4	145	ISO		✓ 250	252	✓ 250	251.8	33.888		
✓ 3	144	ISO		✓ 250	249	✓ 250	252.5	33.887		
✓ 2	143	P ₂ O ₅ + N ₂ O ₄		250 1500		250	250.3	33.885		
1045 ✓ 1	142	ISO		1900		1900	1898.5	34.574		

ENTERED BY:

CHECKED BY:

Bottom Depth: 2504.

Cast No: 128 down

129 up

LOC UTC

Begin: 1406

Bottom: 1437

End: 1521

BEGIN POSITION (GPS)

LAT: 49 07.51

LONG: 127 45.21

BOTTOM POSITION (GPS)

LAT: 49 07.67

LONG: 127 45.52

END POSITION (GPS)

LAT: 49 08.15

LONG: 127 45.89

Comments

18 bottles fired

Rosette 1: 23 bottle

CRUISE NO:

UTC DATE: 2 OCT 1995

VESSEL: John P. Tully

STATION NO: SE-7 0HYDRO No.: 131

NISK No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION Trip Trip Depth (db) Confirmed		THERMOMETER 1 SERIAL Temp (oC)		THERMOMETER 2 SERIAL Temp (oC)	
23						Bottle			CTD	
22										
21	182			50		32.5185	50			
20	181			50		32.5200	50	n		
19	180	1027	11.1	50		✓ 32.5198	50	-	32.520	
18	179			50		✓ 32.6155	75			
17	178			50	49	✓ 32.6141	75	-		
16	177	1020	10.2	75		✓ 32.6176	75	-	32.594	
15	176			75	75	✓ 33.8766	200			
14	175			75		✓ 33.8771	200			
13	174			200		✓ 33.8738	200	-		
12	173	1010	9.5	200	200	✓ 33.8778	200	-	33.859	
11	172			200	*	✓ 33.9196	300	↑		
10	171			300		✓ 33.9195	300			
9	170			300	300	✓ 33.9190	300	-		
8	169	1008	9.1	300		✓ 33.9150	300	-	33.901	
7	168			300	*	✓ 34.0769	500	# Replicate Error 500		
6	167			500		✓ 34.0765	500			
5	166	1028	7.7	500		✓ 34.0719	500	-		
4	165	1004	7.8	500	500	✓ 34.0762	500	-	34.060	
3	164			500	*	✓ 34.5138	1500	*		
2	163			1500	1500	✓ 34.5141	1500			
1	162			1500		✓ 34.5100	1500			
							TRIPPED			
							SAL. CHK			

ENTERED BY:
CHECKED BY:

Bottom Depth:	251
Cast No:	130 / 131

	LOC	UTC
Begin:		2018
Bottom:		2041
End:		2117

BEGIN POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)	
LAT:	49 06 533
LONG:	127 44 026

END POSITION (GPS)	
LAT:	
LONG:	

Comments	

NET/CO₂

10.02.95
1445

Rosette 1: 23 bottle

CRUISE NO:

9530

UTC DATE:

2 Oct 95

VESSEL: John P. Tully

STATION NO:

SEDO 4

HYDRO No.:

123

[illegible]

ENTERED BY:

CHECKED BY:

Bottom Depth: 2509

Cast No: 32

133

LOC

UTC

Begin: 2307

Bottom: 2309

End: 2324

BEGIN POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT: 49 06.48

LONG: 1274413

END POSITION (GPS)

LAT:

LONG:

Comments

VESSEL: John P. Tully

[illegible]

ENTERED BY:

CHECKED BY:

Bottom Depth: 2066

Cast No: 10

	LOC	UTC
Begin:		
Bottom:		0308
End:		

BEGIN POSITION (GPS)
LAT: / / .
LONG: / / .

BOTTOM POSITION (GPS)	
LAT:	4855.60
LONG:	12713.08

END POSITION (GPS)
LAT:
LONG:

[illegible]

VESSEL: John P. Tully

[illegible]

ENTERED BY:
CHECKED BY:

Bottom Depth:

Cast No: 100

	LOC	UTC
Begin:		0607
Bottom:		0632
End:		

BEGIN POSITION (GPS)
LAT: //
LONG:

BOTTOM POSITION (GPS)
LAT: 4903.90
LONG: 127 00.48

END POSITION (GPS)
LAT:
LONG:

[illegible]

Rosette 1: 23 bottle

CRUISE NO:

9530

UTC DATE:

Oct 3 95

STATION NO:

2604

HYDRO No.:

14/

VESSEL: John P. Tully

[illegible]

ENTERED BY:

CHECKED BY:

Bottom Depth: 142

Cast No: 140 down
141 up

LOC	UTC
0000	0000
0001	0001
0002	0002
0003	0003
0004	0004
0005	0005
0006	0006
0007	0007
0008	0008
0009	0009
0010	0010
0011	0011
0012	0012
0013	0013
0014	0014
0015	0015
0016	0016
0017	0017
0018	0018
0019	0019
0020	0020
0021	0021
0022	0022
0023	0023
0024	0024
0025	0025
0026	0026
0027	0027
0028	0028
0029	0029
0030	0030
0031	0031
0032	0032
0033	0033
0034	0034
0035	0035
0036	0036
0037	0037
0038	0038
0039	0039
0040	0040
0041	0041
0042	0042
0043	0043
0044	0044
0045	0045
0046	0046
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0048	0048
0049	0049
0050	0050
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0052	0052
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0054	0054
0055	0055
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0057	0057
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0059	0059
0060	0060
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0062	0062
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0065	0065
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0067	0067
0068	0068
0069	0069
0070	0070
0071	0071
0072	0072
0073	0073
0074	0074
0075	0075
0076	0076
0077	0077
0078	0078
0079	0079
0080	0080
0081	0081
0082	0082
0083	0083
0084	0084
0085	0085
0086	0086
0087	0087
0088	0088
0089	0089
0090	0090
0091	0091
0092	0092
0093	0093
0094	0094
0095	0095
0096	0096
0097	0097
0098	0098
0099	0099

Begin:

Bottom: 0849

End:

BEGIN POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT: 491133

LONG: 126 49.2

END POSITION (GPS)

LAT:

LONG:

Comments

Rosette 1: 23 bottle

CRUISE NO: 9530
STATION NO: LG02

UTC DATE: Oct 3/95
HYDRO No.: 146

VESSEL: John P. Tully

NISK. No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION		THERMOMETER 1		THERMOMETER 2	
					Trip Depth (db)	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
23										
22										
21										
20										
19										
18										
17										
16										
15										
14										
13										
12										
11										
10										
9										
8										
7										
6	227	1141			2.0					
5	226	1140	15.1		0	✓ 2.0	31.889			
4	225	1139	15.1		10	✓ 11.0	31.886			
3	224	1138	14.9		25	✓ 24.0	31.883			
2	223	1092	10.0		50	✓ 52.3	32.426			
1	222	1090	8.8		73	✓ 72.6	32.769			

ENTERED BY:

CHECKED BY:

Bottom Depth: 105

Cast No: 143 down
146 up

LOC	UTC
Begin:	
Bottom:	1101
End:	1114

BEGIN POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT: 49 18.57

LONG: 126 38.05

END POSITION (GPS)

LAT:

LONG:

Comments

5 bottles tripped

Rosette 1: 23 bottle

CRUISE NO:

9530

UTC DATE:

02 10 95.

STATION NO:

LC01

HYDRO No.:

148

VESSEL: John P. Tully

NISK. No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION		THERMOMETER 1		THERMOMETER 2	
					Trip Depth (db)	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
23										
22										
21										
20										
19										
18										
17										
16										
15										
14										
13										
12										
11										
10										
9										
8										
7										
6										
5										
4	230	1144	14.8	0	.05	/	31.834			
3	229	1143	14.8	10	9.4	/	31.830			
2	228	1142	13.8	25	25.7	/	31.880			
1	227	1141	11.8	40	42.2	/	31.967			

ENTERED BY:

CHECKED BY:

Bottom Depth: 55

Cast No: 147 down
148 up

	LOC	UTC
Begin:		1204
Bottom:		1206
End:		

BEGIN POSITION (GPS)

LAT: 49 20.56
LONG: 126 35.10

BOTTOM POSITION (GPS)

LAT: 49 20.50
LONG: 126 35.07

END POSITION (GPS)

LAT:

LONG:

Comments

ENTERED BY:
CHECKED BY:

[illegible]

Bottom Depth:	1
Cast No:	150 down
	15.1 up

	LOC	UTC
Begin:		0000
Bottom:		0323
End:		

BEGIN POSITION (GPS)
LAT: //
LONG:

BOTTOM POSITION (GPS)	
LAT:	48 58.29
LONG:	125 46.83

END POSITION (GPS)
LAT:
LONG:

[illegible]

VESSEL: John P. Tully

ENTERED BY: *ILover*

CHECKED BY:

Bottom Depth:	613
Cast No:	

LOC	UTC
Begin:	2033
Bottom:	2044
End:	2107

BEGIN POSITION (GPS)
LAT: 48 31 49.3
LONG: 126 12 6.9

BOTTOM POSITION (GPS)
LAT: 48 31 44 S
LONG: 126 12 61 W

END POSITION (GPS)
LAT: 48 31 420
LONG: 126 12 696

[illegible][illegible]

VESSEL: John P. Tully

[illegible]

ENTERED BY:

CHECKED BY:

Bottom Depth: 236

Cast No: 166

LOC	UTC
-----	-----

Begin: 2001/07

Bottom: 0447'

End:

BEGIN POSITION (GPS)

LAT: 00 00 00

LONG:

BOTTOM POSITION (GPS)

LAT: 48 26.14

LONG: 124.29.79

END POSITION (GPS)

LAT: _____

LONG:

Comments

[illegible]

VESSEL: John P. Tully

[illegible]

ENTERED BY:
CHECKED BY:

Bottom Depth:	189
Cast No:	10170

	LOC	UTC
Begin:		2007/1
Bottom:		08/8
End:		

BEGIN POSITION (GPS)	
LAT:	
LONG:	

BOTTOM POSITION (GPS)	
LAT:	48 17.74
LONG:	123 59.98

END POSITION (GPS)
LAT: 48 17.744 N
LONG: 123 59.667 W

Comments

171

[illegible]

VESSEL: John P. Tully

ENTERED BY:

CHECKED BY:

Bottom Depth: 172

Cast No: 172

123

LOC

UTC

Begin:

Bottom:

End:

BEGIN POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT: 48 13.94

LONG: 123.30.07

END POSITION (GPS)

LAT:

LONG:

Comments