

Sheet # 1

PRISM Oxygen Titration Log sheet

Samples run: 12

#	GMT date/time	Cast	Bottle #	Oxygen bottle #	End point	Remarks
1	1/9/12	2	1	496	659.57	
2		2	7	497	653.34	
3		2	10	498	2.36	Bad sample
4		2	22	499	1202.51	
5	1/9/12	3	1	503	665.88	
6		3	7	502	623.29	
7		3	12	501	994.93	
8		3	21	500	1180.90	
9	1/9/12	4	1	507	452.77	
10		4	3	506	570.33	
11		4	7	505	944.17	
12		4	20	504	1221.44	
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22						
23						
24						

Standard	GMT date/time	EP	Blank	EP 1	EP 2	EP1-EP2
1 (508)	1/9/12	610.51	1 (509)	82.5	69.75	12.75
2 (509)	"	614.61	2 (508)	81.96	64.64	17.32
3 (508)	"	606.78	3 (508)	82.25	74.50	7.75
1			1			
2			2			
3			3			

Sheet # 2

PRISM Oxygen Titration Log sheet

Samples run: 12

2012

#	GMT date/time	Cast	Bottle #	Oxygen bottle #	End point	Remarks
1	1/11 00:45	5	19	510	893.16	
2	1/11 00:50	5	9	511	640.26	
3	1/11 :	5	5	512	956.08	
4	1/11 :	5	1	513	1003.49	some air bubbles
5	1/11 :	6	21	514	1277.19	some air bubbles
6	1/11 :	6	10	515	1013.10	
7	1/11 :	6	5	516	977.70	
8	1/11 :	6	1	517	917.58	
9	1/11 :	7	22	496	1302.50	
10	1/11 :	7	14	497	1227.89	
11	1/11 :	7	7	498	992.71	
12	1/11 02:20	7	2	499	1002.11	
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14						
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16						
17						
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19						
20						
21						
22						
23						
24						

2012

Standard (O2 bottle)	GMT date/time	End Point (EP) μ L	Blank (O2 bottle)	EP 1	EP 2	EP1-EP2
1(507)	1/11 00:00	618.13	1()			
2(507)	1/11 00:15	605.32	2()			
3(507)	1/11 00:30	608.91	3()			
1()			1()			
2()			2()			
3()			3()			

Sheet # 3

PRISM Oxygen Titration Log sheet

Samples run: 12

#	GMT date/time	Cast	Bottle #	Oxygen bottle #	End point	Remarks
1	1/14/12	8	22	496	1226.17	
2		8	11	497	1054.70	
3		8	3	498	1015.24	
4		8	1	499	982.58	
5		9	1	500	991.84	
6		9	9	501	990.38	
7		9	16	502	1123.99	
8		9	20	503	1247.94	
9		10	22	504	1221.98	
10		10	16	505	1167.89	
11		10	7	506	1018.83	
12		10	1	507	973.31	
13						
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19						
20						
21						
22						
23						
24						

Standard (O2 bottle)	GMT date/time	End Point (EP)	Blank (O2 bottle)	EP 1	EP 2	EP1-EP2
1 (511)	1/14/12 4:08	634.56	1 ()			
2 (511)	1/14/12 4:40	623.97	2 ()			
3 (511)	1/14/12 4:56	623.04	3 ()			
1 ()			1 ()			
2 ()			2 ()			
3 ()			3 ()			

Sheet # 4

PRISM Oxygen Titration Log sheet

Samples run: 8

#	GMT date/time	Cast	Bottle #	Oxygen bottle #	End point	Remarks
1	1/17/2012	11	21	508	1373.46	
2		11	16	509	1246.37	
3		11	9	510	1008.76	
4		11	1	511	965.46	
5	1/17/2012	20	1	496	922.20	
6		20	3	497	1017.25	
7		20	8	498	1026.47	
8		20	20	499	1195.65	→ Cast & bottle # is the same
9						
10						
11						
12						
13						
14						
15						
16						
17						
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19						
20						
21						
22						
23						
24						

Standard	GMT date/time	EP	Blank	EP 1	EP 2	EP1-EP2
1	01:05 1/17	621.61	1			
2	01:30 1/17	619.32	2			
3	01:45 1/17	620.90	3			
1			1			
2			2			
3			3			

Sheet # 5

NBP1201 Oxygen Titration Logsheet

Sample run 8

#	GMT date/time	Cast	Bottle #	Oxygen bottle #	End point	Remarks
1	1/17/2012	25	21	503	1221.49	stn. 24
2			1	500	979.99	
3			7	501	960.90	
4			10	502	943.88	
5	1/18/2012	30	22	506	—	} titrator went crazy!
6			13	507	—	
7			6	508	1022.85	burette didn't
8			1	509	1000.45	draw this sulfate
9						properly.
10						
11						Problem is fixed
12						now!
13						stn. 25
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						

Standard	GMT date/time	EP μ L	Blank	EP 1	EP 2	EP1-EP2
1	1/20 02:00	618.81	1			
2	"	616.58	2			
3	"	614.22	3			
1			1			
2			2			
3			3			

Sheet # 6

PRISM Oxygen Titration Log sheet

Samples run: 12

#	GMT date/time	Cast	Bottle #	Oxygen bottle #	End point	Remarks
1	1/19/12	37	22	496	1265.78	
2	"	37	10	497	1067.19	
3	"	37	5	498	1018.38	
4	"	37	1	499	992.50	
5	1/21/12	44	21	506	1259.82	
6	"	44	14	507	1225.78	
7	"	44	3	508	979.81	
8	"	44	1	509	981.31	
9	1/22/12	51	1	500	1012.79	
10	"	51	4	501	1003.96	
11	"	51	10	502	1099.69	
12	"	51	18	503	1264.13	
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17						
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19						
20						
21						
22						
23						
24						

Standard (O2 bottle)	GMT date/time	End Point (EP)	Blank (O2 bottle)	EP 1	EP 2	EP1-EP2
1 (510)	1/23/12 3:10	632.25	1 ()			
2 (504)	"	628.33	2 ()			
3 (505)	"	626.47	3 ()			
1 ()			1 ()			
2 ()			2 ()			
3 ()			3 ()			

Sheet # 7

PRISM Oxygen Titration Log sheet

Samples run: 12

#	GMT date/time	Cast	Bottle #	Oxygen bottle #	End point	Remarks
1	1/24/2012	60	1	500	1004	titrator malfunction
2	"	60	6	501	-	
3	"	60	12	502	1362.08	
4	"	60	21	503	1421.31	
5	1/24/2012	64	22	496	1551.03	
6	"	64	7	497	1060.31	
7	"	64	5	498	1046.66	
8	"	64	1	499	1015.37	
9	1/26/12	73	21	501	1249.94	
10	"	73	1	504	999.93	
11	"	73	6	505	1076.88	
12	"	73	13	506	1176.06	
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						

Standard (O2 bottle)	GMT date/time	End Point (EP)	Blank (O2 bottle)	EP 1	EP 2	EP1-EP2
1 (511)	1/27 0345	625.82	1 ()			
2 (510)	"	609.54	2 ()			
3 (509)		627.30	3 ()			
1 (508)		628.51	1 ()			
2 (511)	1/27 1822	628.03	2 ()			
3 ()			3 ()			

Sheet # 8

PRISM Oxygen Titration Log sheet

Samples run: 16

#	GMT date/time	Cast	Bottle #	Oxygen bottle #	End point	Remarks
1	1/28/2012	84	1	504	954.28 ✓	
2	"	84	4	505	998.58 ✓	
3	"	84	8	506	908.64 ✓	
4	"	84	22	507	971.05 ✓	
5	"	85	2	496	-	bad data
6	"	85	5	497	917.58 ✓	
7	"	85	10	498	958.19 ✓	
8	"	85	21	499	1148.86 ✓	
9						
10	1/29/2012	86	1	500	946.68 ✓	
11	1/29/2012	86	4	501	907.28 ✓	
12	"	86	9	502	920.56 ✓	
13	"	86	21	503	1157.19 ✓	
14						
15						
16	"	87	21	511	1120.58 ✓	
17	"	87	6	510	939.01 ✓	
18	"	87	3	509	863.07 ✓	
19	"	87	1	508	858.73 ✓	
20						
21						
22						
23						
24						

Standard (O2 bottle)	GMT date/time	End Point (EP)	Blank (O2 bottle)	EP 1	EP 2	EP1-EP2
1 (513)	1/29 5:44	617.60	1 ()			
2 (514)		616.73	2 ()			
3 (515)		621.41	3 ()			
1 ()			1 ()			
2 ()			2 ()			
3 ()			3 ()			

Sheet # 9

PRISM Oxygen Titration Log sheet

Samples run: 28

#	GMT date/time	Cast	Bottle #	Oxygen bottle #	End point	Remarks
1	1/29/12	88	1	500	873.00	
2	"	88	4	502	839.96	
3	"	88	11	503	903.65	
4	"	88	21	505	1127.62	
5	1/29/12	89	1	496	898.29	
6	"	89	3	497	905.05	
7	"	89	5	498	843.69	
8	"	89	22	499	1152.24	
9	1/29/12	90	1	508	970.22	
10	"	90	4	509	1013.52	
11	"	90	6	510	967.04	
12	"	90	22	511	1171.06	
13	1/29/12	91	1	516	859.45	
14	"	91	5	517	1191.00	
15	"	91	9	518	761.03	
16	"	91	22	519	1128.37	
17	1/29/12	92	1	501	949.79	
18	"	92	5	504	866.97	
19	"	92	13	506	1140.29	
20	"	92	21	507	1129.65	
21	1/30/12	93	1	512	936.73	
22	"	93	5	513	906.20	
23	"	93	11	514	1165.96	
24	"	93	21	515	1146.18	

Standard (O2 bottle)	GMT date/time	End Point (EP)	Blank (O2 bottle)	EP 1	EP 2	EP1-EP2
1 (421)	1/30/12	646.6	1 ()			
2 (422)	"	704.7	2 ()			
3 (420)	"	616.85	3 ()			
1 (421)	"	724.0	1 ()			
2 (421)	"	611.96	2 ()			
3 (420)	"	617.05	3 ()			

Sheet # 9 (cont)

PRISM Oxygen Titration Log sheet

Samples run: _____

#	GMT date/time	Cast	Bottle #	Oxygen bottle #	End point	Remarks
1	1/30/12	94	1	412	923.98	
2	"	"	3	413	774.5	
3	"	"	7	414	978.78	
4	"	"	21	415	1233.98	
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						

Standard (O2 bottle)	GMT date/time	End Point (EP)	Blank (O2 bottle)	EP 1	EP 2	EP1-EP2
1 ()			1 ()			
2 ()			2 ()			
3 ()			3 ()			
1 ()			1 ()			
2 ()			2 ()			
3 ()			3 ()			

Sheet # 10

05-06 Phase 1 Sampling Logsheet

Please leave gray areas blank for calculations

#	GMT date	Cast	Bottle #	Oxygen bottle #	Salinity Bottle #	Remarks	Endpoint
1	1/31/12	95	1	412			997.51
2	"	"	3	413			982.45
3	"	"	9	414			1010.24
4	"	"	21	415			1157.25
5							
6	1/31/12	96	1	496			912.77
7	"	"	3	497			1038.51
8	"	"	7	498			1009.71
9	"		22	499			1213.40
10							
11	1/31/12	97	1	504			739.69
12	"	"	4	505			1005.91
13	"	"	7	506			1018.99
14	"	"	22	507			743.37
15							
16							
17							
18							
19							
20							
21							
Standard		Endpoint	Blank	Endpoint 1	Endpoint 2	E2-E1	
509		625.82	✓				
519		612.72					
509		633.74	✓				
515		632.49	✓				

2/1/12
0047-

Samples Run: 12

sheet # 11

05-06 Phase 1 Sampling Logsheet

Please leave gray areas blank for calculations

#	GMT date	Cast	Bottle #	Oxygen bottle #	Salinity Bottle #	Remarks	Endpoint
1	2/1/12	98	1	504			1136.13
2	"	"	6	505			1229.67
3	"	"	15	506			1496.50
4	"	"	21	507			1221.85
5	"	99	1	496			996.57
6	"	"	5	497			1203.21
7	"	"	12	498			1064.18
8	"	"	22	499			1198.44
9	"	100	1	414			1021.03
10	"	"	6	415			1226.95
11	"	"	13	417			1385.70
12	"	"	22	418			1225.56
13	"	101	1	512			1001.95
14	"	"	8	513			1048.99
15	"	"	13	514			1202.34
16	"	"	22	515			1200.45
17	"	102	1	419			1531.50
18	"	"	5	420			1066.00
19	"	"	12	421			1190.52
20	"	"	22	422			1001.95
21							
Standard		Endpoint	Blank	Endpoint 1	Endpoint 2	E2-E1	
413		620.14					
423		620.58					
412		612.79					

2/2
7/25

Samples Run:

36 (see second page)

sheet 11 (cont)

05-06 Phase 1 Sampling Logsheet

Please leave gray areas blank for calculations

#	GMT date	Cast	Bottle #	Oxygen bottle #	Salinity Bottle #	Remarks	Endpoint
1	2/2/12	103	1	500			1023.23
2	"	103	5	501			1012.10
3	"	"	13	502			1131.82
4	"	"	21	503			1112.91
5	2/2/12	104	2	508			1142.54
6		"	4	509			1100.02
7		"	9	510			1130.85
8		"	21	511			1323.02
9	2/2/12	105	1	516			997.71
10	2/2/12	105	5	517			1022.02
11	"		11	518			1019.29
12	"		21	519			1260.35
13		106	1	496			973.67
14		"	5	497			931.65
15		"	11	498			998.66
16		"	21	499			1238.36
17							
18							
19							
20							
21							
Standard		Endpoint	Blank	Endpoint 1	Endpoint 2	E2-E1	

Samples Run:

36

Sheet # 12

05-06 Phase 1 Sampling Logsheet

Please leave gray areas blank for calculations

#	GMT date	Cast	Bottle #	Oxygen bottle #	Salinity Bottle #	Remarks	Endpoint
1	2/2/12	109	1	412			1003.00
2	"	107	5	413			1062.85
3	"	107	11	414			1025.31
4	"	107	22	415			1227.03
5	"	108	1	512			1030.07
6	"	"	6	513			925.44
7	"	"	11	514			1061.03
8	"	"	22	515			1245.11
9	"	109	1	418			915.43
10	"	"	5	419			1129.00
11	"	"	12	420			1229.51
12	"	"	22	421			1535.02
13	"	110	1	516			1117.55
14	"	"	7	517			1063.78
15	"	"	12	518			1003.67
16	"	"	22	519			1316.28
17	2/3/12	111	1	504			917.27
18	"	"	7	505			1007.07
19	"	"	15	506			1158.53
20	"	"	21	507			1175.28
21	"	"	"	"			"
Standard		Endpoint		Blank	Endpoint 1	Endpoint 2	E2-E1
503(1)		621.63					
508(2)		622.21					
509(3)		620.48					

Samples Run: 20

Sheet # 13

PRISM Oxygen Titration Log sheet

Samples run: 12

#	GMT date/time	Cast	Bottle #	Oxygen bottle #	End point	Remarks
1	2/3/2012	112	1	496	1040.66	
2	"	"	7	423	1004.83	
3	"	"	14	512	1230.68	
4	"	"	21	499	1225.80	
5	"	113	2	516	923.10	
6	"	"	4	517	910.28	
7	"	"	11	518	1079.02	
8	"	"	22	519	1227.18	
9	"	114	1	412	993.99	
10	"	"	5	413	1052.46	
11	"	"	9	414	1001.48	
12	"	"	22	415	1212.21	
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						

Standard (O2 bottle)	GMT date/time	End Point (EP)	Blank (O2 bottle)	EP 1	EP 2	EP1-EP2
1(497)	2/4/2012	613.51	1()			
2(498)	"	617.84	2()			
3(518)	"	631.62	3()			
1(513)	"	609.17	1()			
2()			2()			
3()			3()			

Sheet # 14

PRISM Oxygen Titration Log sheet

Samples run: 16

#	GMT date/time	Cast	Bottle #	Oxygen bottle #	End point	Remarks
1	2/4/2011	115	1	500	1023.81	
2	"	"	4	501	1080.14	
3	"	"	15	502	1184.54	
4	"	"	21	503	1388.43	
5	"	116	1	419	993.03	
6	"	"	5	420	1093.80	
7	"	"	8	421	1012.52	
8	"	"	22	422	1255.76	
9	"	117	1	508	986.51	
10	"	"	4	509	1039.02	
11	"	"	8	510	1028.21	
12	"	"	22	511	1250.56	
13	2/5	118	1	513	966.79	
14	"	"	4	514	1049.69	
15	"	"	9	515	1050.45	
16	"	"	21	516	1383.42	
17						
18						
19						
20						
21						
22						
23						
24						

Standard (O2 bottle)	GMT date/time	End Point (EP)	Blank (O2 bottle)	EP 1	EP 2	EP1-EP2
1(415)	2/5/2012	723.40	1()			
2(417)	"	761.22	2()			
3(519)	"	643.65	3()			
1(518)	"	660.43	1()			
2(519)	"	750.30	2()			
3(417)	"	636.00	3()			
4(512)	"	617.51				

05-06 Phase 1 Sampling Logsheet

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Remarks

#	GMT date	Cast	Bottle #	Oxygen bottle #	Salinity Bottle #	Remarks	Endpoint
1	1/9/12	2	1	496		659.51	
2	"	2	7	497		653.34	
3	"	2	10	498	bad sample	2.36 X	✓
4	"	2	22	499		1202.51	
5	1/9/12	3	1	503		665.88	
6	"	3	7	502		623.29	
7	"	3	12	501		994.93	
8	"	3	21	500		1180.90	
9	1/9/12	4	1	507		452.77	
10	"	4	3	506		510.33	
11	"	4	7	505		944.17	
12	"	4	20	504		1221.44 μ M	
13							
14							
15							
16							
17							
18							
19							
20							
21							
Standard		Endpoint		Blank	Endpoint 1	Endpoint 2	E2-E1
1		610.51		1	82.50		
2		614.61					
3		606.78					

Samples Run:

MP

O₂ can m/e

509

509

31k(1) 509

81.96
64.64
17.32

509	82.5	69.75	= 12.75
508	81.96	64.64	= 17.32
508	82.25	74.50	= 7.75

82.50
69.75
12.75
17.32