Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

06201

Last Updated: January 2017

IOS

Cruise and Analysis Information		Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2018-39	1			199	371	9.0	4.301		1					
Event:	62	2			200	2090	9.1	4.562		2					
Station:	LC01	3			201	3054	9.2	5.069	⇒ Redrawing A	3	201	2088	9.3	5.066	☺
Event Date (Local):	11 May 2018	4			~~202~~	~~3076~~	~~9.2~~		accidentally discarded sample	4					
Analysis Date (Local):	11 May 2018	5			203	3075	9.2	5.309		5					
Analyst:	Tamara	6			204	3127	10.4	7.213		6					
Stdization Date (Local):	11 May 2018	7			205	3100	11.0	7.705		7					
KIO_3 N:	0.0123057	8								8					
Standard Titer:	0.4924399	9								9					
Blank Titer:	0.0004369	10								10					
THIO N:	0.249971	11								11					
Sample Flask Water Seal?	(Yes) / No	12								12					
		13								13					
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	$MnCl_2$	14								14					
	NaI/NaOH None	15								15					
	H_2SO_4	16								16					
	KIO_3	17								17					
	THIO	18								18					
Notes:		19								19					
		20								20					
		21								21					
		22								22					
		23								23					
		24								24					

202
Oxy
LC01
~~20~~
2018-39
Bot 4

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

199	200	201	201	203	204	205
Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy
LC01	LC01	LC01	LC01	LC01	LC01	LC01
~~75~~	~~50~~	~~20~~	~~20~~	~~10~~	~~5~~	~~5~~
2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39
Bot 1	Bot 2	Bot 3	Bot 3	Bot 5	Bot 6	Bot 7

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

BENDER

06501

Last Updated: January 2017

IOS

Cruise and Analysis Information		Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2018-39	1			206	3180	9.1	5.643	had to restart this sample - burette was	1	not	dispensing			
Event:	65	2			207	4229.2		4.988		2					
Station:	LD02	3			208	3018	9.3	5.676	=)	3	208	3200	9.3	5.673	:)
Event Date (Local):	11 May 18	4			209	3170	9.8	7.294		4					
Analysis Date (Local):	12 May 18	5			210	462	12.0	7.163		5					
Analyst:	Tamara	6								6					
Stdization Date (Local):	11 May 18	7								7					
KIO_3 N:	0.0123057	8								8					
Standard Titer:	0.4924399	9								9					
Blank Titer:	0.0004369	10								10					
THIO N:	0.249971	11								11					
Sample Flask Water Seal?	(Yes)	12								12					
	No	13								13					
Reagent Change?	$MnCl_2$	14								14					
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	NaI/NaOH	15								15					
	H_2SO_4 none	16								16					
	KIO_3	17								17					
	THIO	18								18					
Notes:		19								19					
		20								20					
		21								21					
		22								22					
		23								23					
		24								24					

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

206	207	208 A	208 B	209	210
Oxy	Oxy	Oxy	Oxy	Oxy	Oxy
LD02	LD02	LD02	LD02	LD02	LD02
bot-10	30	20	20	10	5
2018-39	2018-39	2018-39	2018-39	2018-39	2018-39
Bot 1	Bot 2	Bot 3	Bot 3	Bot 4	Bot 5

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

BENDER

06701

Last Updated: January 2017

IOS

Cruise and Analysis Information		Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2018-39	1			211 A	3081	9.0	4.563	→	1	211 B	435	9.0	4.559	
Event:	67	2			212	2049	9.2	5.157		2					
Station:	LD04	3			213	3078	9.5	6.196		3					
Event Date (Local):	11.05.18	4			214	3085	11.4	7.119		4					
Analysis Date (Local):	12 May 18	5			215	3080	12.1	7.036		5					
Analyst:	Tamara	6								6					
Stdization Date (Local):	11 May 18	7								7					
KIO_3 N:	0.0123057	8								8					
Standard Titer:	0.4924399	9								9					
Blank Titer:	0.0004369	10								10					
THIO N:	0.249971	11								11					
Sample Flask Water Seal?	(Yes) / No	12								12					
		13								13					
Reagent Change?	$MnCl_2$	14								14					
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	NaI/NaOH	15								15					
	H_2SO_4 none	16								16					
	KIO_3	17								17					
	THIO	18								18					
Notes:		19								19					
		20								20					
		21								21					
		22								22					
		23								23					
		24								24					

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

211A	211B	212	213	214	215
Oxy	Oxy	Oxy	Oxy	Oxy	Oxy
LD04	LD04	LD04	LD04	LD04	LD04
Bot-10	Bot-10	30 m	20 m	10 m	5 m
2018-39	2018-39	2018-39	2018-39	2018-39	2018-39
Bot 1	Bot 1	Bot 2	Bot 3	Bot 4	Bot 5

06801

Dissolved Oxygen Analysis Log Sheet

BENDER

Institute of Ocean Sciences
Water Properties Group

Last Updated: January 2017

IOS

Cruise and Analysis Information	
Cruise Number:	2018-39
Event:	68
Station:	LG01
Event Date (Local):	May 12/2018
Analysis Date (Local):	12 May 18
Analyst:	Tamara
Stdization Date (Local):	11 May 18
KIO_3 N:	0.012-3057
Standard Titer:	0.4924399
Blank Titer:	0.0004369
THIO N:	0.249971
Sample Flask Water Seal?	(Yes) / No
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	$MnCl_2$ / NaI/NaOH none / H_2SO_4 / KIO_3 / THIO
Notes:	

Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments
1	✓	✓	216	2086	9.1	4.137	
2	✓	✓	217A	4137	9.5	5.502	⇒
3	✓	✓	218	2087	9.5	5.726	
4	✓	✓	219	2095	9.8	5.838	
5	✓	✓	220	425	11.7	6.619	
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							

Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
1					
2	217B2095		9.5	X	water seal evaporated ↓ nope - it was a broken flask & a very slow leak
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

217B
Oxy
LG01
xx
2018-39
Bot 2

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

216	217A	218	219	220
Oxy	Oxy	Oxy	Oxy	Oxy
LG01	LG01	LG01	LG01	LG01
bot-10	xx	20 m	10 m	5 m
2018-39	2018-39	2018-39	2018-39	2018-39
Bot 1	Bot 2	Bot 3	Bot 4	Bot 5

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

whale order of analysis - box ~ out of order 07001

Last Updated: January 2017

IOS

Cruise and Analysis Information	
Cruise Number:	2018-39
Event:	70
Station:	LG02
Event Date (Local):	May 12/2018
Analysis Date (Local):	12May18
Analyst:	Tamara
Stdization Date (Local):	11 May 18
KIO_3 N:	0.012 3057
Standard Titer:	0.4924399
Blank Titer:	0.0004369
THIO N:	0.249971
Sample Flask Water Seal?	(Yes) / No
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	$MnCl_2$ / NaI/NaOH / H_2SO_4 / KIO_3 / THIO — none
Notes:	

Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments
1	✓	✓	221	2020	8.3	2.237	(1)
2	✓	✓	222A	3145	8.5	2.707	=> (3)
3	✓	✓	223	1442	9.1	4.613	(2)
4	✓	✓	224	3106	9.4	5.622	
5	✓	✓	225	2036	9.5	5.943	
6	✓	✓	226	3052	10.3	6.304	
7	✓	✓	227	3089	10.9	6.530	
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							

Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
1					
2	222B	2092	8.6	2.707	(4) ☺ ☺
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

221
Oxy
LG02
bot-10
2018-39
Bot 1

223
Oxy
LG02
50
2018-39
Bot 3

A 222
Oxy
LG02
75
2018-39
Bot 2

B 222
Oxy
LG02
75
2018-39
Bot 2

224
Oxy
LG02
30
2018-39
Bot 4

225
Oxy
LG02
20
2018-39
Bot 5

226
Oxy
LG02
10
2018-39
Bot 6

227
Oxy
LG02
5
2018-39
Bot 7

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Bender 07301

Last Updated: January 2017

IOS

Cruise and Analysis Information		Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2018-39	1	✓	✓	230	2063	7.8	2.200		1					
Event:	73	2	✓	✓	231	575	8.0	2.470		2					
Station:	LG04	3	x	✓	232	3086	8.2	2.696	Leaky vent	3					
Event Date (Local):	May 12/2018	4	✓	✓	233	3142	8.4	2.741		4					
Analysis Date (Local):	12May18	5	✓	✓	234	3121	8.9	4.045		5					
Analyst:	Tamara	6	✓	✓	235A	2094	9.5	6.194	=>	6	235B	456	9.5	6.191	☺
Stdization Date (Local):	11May18	7	✓	✓	236	3079	9.8	6.659		7					
KIO_3 N:	0.0123057	8	✓	✓	237	439	11.7	6.860		8					
Standard Titer:	0.4924399	9	✓	✓	238	3088	11.8	6.855		9					
Blank Titer:	0.0004369	10								10					
THIO N:	0.249971	11								11					
Sample Flask Water Seal?	(Yes) / No	12								12					
Reagent Change?	$MnCl_2$	13								13					
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	NaI/NaOH	14								14					
	H_2SO_4 none	15								15					
	KIO_3	16								16					
	THIO	17								17					
		18								18					
Notes:	Glenn + Robin	19								19					
		20								20					
		21								21					
		22								22					
		23								23					
		24								24					

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

230	231	232	233	234	235 A	235 B	236	237	238
Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy
LG04	LG04	LG04	LG04	LG04	LG04	LG04	LG04	LG04	LG04
Bot-10	125	100	75	50	30	30	20	10	5
2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39
Bot 1	Bot 2	Bot 3	Bot 4	Bot 5	Bot 6	Bot 6	Bot 7	Bot 8	Bot 9

2091
586

07501

Dissolved Oxygen Analysis Log Sheet

Whale

Last Updated: January 2017

Institute of Ocean Sciences
Water Properties Group

IOS

Cruise and Analysis Information		Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2018-39	1			239	3135	5.8	0.208		1					
Event:	75	2			240	3074	6.0	0.263		2					
Station:	LG06	3			241A	3055	6.5	0.724	=> stirred A before adding acid	3	241B	3094	6.7	0.671	
Event Date (Local):	May 12/2018	4			242	3065	6.6	1.143		4					
Analysis Date (Local):	12 May 18	5			243	3101	7.1	1.627		5					
Analyst:	Tamara	6			244	3147	7.3	2.047		6					
Stdization Date (Local):	11 May 18	7			245	458	7.7	2.999		7					
KIO_3 N:	0.0123057	8			246	3103	7.8	3.222		8					
Standard Titer:	0.4924399	9			247	3098	8.7	3.425		9					
Blank Titer:	0.0004369	10			248	1312	8.4	3.477		10					
THIO N:	0.24971	11			249	3133	8.8	3.180	Leaky top cap	11					
Sample Flask Water Seal?	(Yes) / No	12			250	371	9.0	4.073		12					
		13			251	2090	9.4	5.992		13					
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	$MnCl_2$ None	14			252A	3054	9.9	6.762	=>	14	252B	2088	9.8	6.760	☺
	NaI/NaOH	15			253	3076	10.1	7.019		15					
	H_2SO_4	16			254	3075	11.1	6.816	Leaky bottom cap.	16					
	KIO_3	17			255	3127	11.3	6.806		17					
	THIO	18								18					
Notes: Draw: Glenn C.		19								19					
		20								20					
Pickle: Robyn Sahota		21								21					
		22								22					
		23								23					
		24								24					

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

239
Oxy
LG06
bot-10
2018-39
Bot 1

240
Oxy
LG06
750
2018-39
Bot 2

241A
Oxy
LG06
500
2018-39
Bot 3

241B
Oxy
LG06
500
2018-39
Bot 3

242
Oxy
LG06
400
2018-39
Bot 4

243
Oxy
LG06
300
2018-39
Bot 5

244
Oxy
LG06
250
2018-39
Bot 6

245
Oxy
LG06
200
2018-39
Bot 7

246
Oxy
LG06
175
2018-39
Bot 8

247
Oxy
LG06
150
2018-39
Bot 9

248
Oxy
LG06
125
2018-39
Bot 10

249
Oxy
LG06
100
2018-39
Bot 11

250
Oxy
LG06
75
2018-39
Bot 12

251
Oxy
LG06
50
2018-39
Bot 13

252A
Oxy
LG06
30
2018-39
Bot 14

252B
Oxy
LG06
30
2018-39
Bot 14

253
Oxy
LG06
20
2018-39
Bot 15

254
Oxy
LG06
10
2018-39
Bot 16

255
Oxy
LG06
5
2018-39
Bot 17

0104 1208 3100

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Turtle 07201

Last Updated: January 2017

IOS

Cruise and Analysis Information		Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2018-39	1			257	1023	7.1	2.608		1					
Event:	72	2			258	3044	8.9	3.319		2					
Station:	LG07	3			259A	3019	9.4	6.737	⇒	3	259B	429	9.4	6.742	
Event Date (Local):	May 12/2018	4			260	3120	10.2	6.935		4					
Analysis Date (Local):	12 May 18	5			261	3037	11.3	6.864		5					
Analyst:	Tamara	6			262	3000	11.3	6.880		6					
Stdization Date (Local):	11 May 18	7								7					
KIO_3 N:	0.0123057	8								8					
Standard Titer:	0.4924399	9								9					
Blank Titer:	0.0004369	10								10					
THIO N:	0.249971	11								11					
Sample Flask Water Seal?	(Yes) / No	12								12					
		13								13					
Reagent Change?	$MnCl_2$	14								14					
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	NaI/NaOH	15								15					
	H_2SO_4 None	16								16					
	KIO_3	17								17					
	THIO	18								18					
Notes: To go with DICs for Debby Ianson and Matt Miller		19								19					
		20								20					
		21								21					
		22								22					
		23								23					
		24								24					

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

Draw = Glenn C. Pickle = Robyn Sahota.

257	258	A 259	B 259	260	261	262
Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy
LG07	LG07	LG07	LG07	LG07	LG07	LG07
250	100	50	50	20	10	C Max
2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39
Bot 1	Bot 2	Bot 3	Bot 3	Bot 4	Bot 5	Bot 6

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Bender 088801

Last Updated: January 2017

IOS

Cruise and Analysis Information		Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2018-39	1			277	3180	4.2	1.291		1					
Event:	88	2			278A	1422	4.6	0.612	⇒	2	278B	3018	4.8	0.638	stirred before adding acid sorry!
Station:	LBP7	3			279	3200	4.9	0.337		3					
Event Date (Local):	May 13/2018	4			280	3170	5.3	0.242		4					
Analysis Date (Local):	13May18	5			281	462	5.8	0.261		5					
Analyst:	Tamara	6			282	3081	6.2	0.667		6					
Stdization Date (Local):	May18	7			283	435	6.5	1.085		7					
KIO_3 N:	0.0123057	8			284	2049	6.8	1.665		8					
Standard Titer:	0.4924399	9			285	3078	7.2	2.006		9					
Blank Titer:	0.0004369	10			286A	3085	7.3	3.284	⇒	10	286B	3080	7.4	3.290	
THIO N:	0.249971	11			287	2086	7.7	3.589	Leaky top spigot	11					
Sample Flask Water Seal?	(Yes) / No	12			288	437	7.8	3.674		12					
		13			289	2087	8.1	3.560		13					
Reagent Change?	$MnCl_2$	14			290	2095	8.2	3.994		14					
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	NaI/NaOH	15			291	425	8.5	4.403	not quite sure what happened there -	15	hopefully	overtitration		fixes	everything
	H_2SO_4 none	16			292	2063	8.7	6.242		16					
	KIO_3	17			293	575	~~10.5~~	←	8.9°C 6.245	17					
	THIO	18			294A	3086	10.5	6.780	⇒	18	294B	3142	10.5	6.783	☺ ☺
Notes: Glenn = Draw		19			295	3121	10.8	6.768		19					
		20			296	2094	10.8	6.795		20					
Robyn Sahota = Pickle		21							Leaky bottom cap.	21					
		22								22					
		23								23					
		24								24					

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

277
Oxy
LBP7
2000
2018-39
Bot 1

278A
Oxy
LBP7
1500
2018-39
Bot 2

278B
Oxy
LBP7
1500
2018-39
Bot 2

279
Oxy
LBP7
1250
2018-39
Bot 3

280
Oxy
LBP7
1000
2018-39
Bot 4

281
Oxy
LBP7
750
2018-39
Bot 5

282
Oxy
LBP7
500
2018-39
Bot 6

283
Oxy
LBP7
400
2018-39
Bot 7

284
Oxy
LBP7
300
2018-39
Bot 8

285
Oxy
LBP7
250
2018-39
Bot 9

286A
Oxy
LBP7
200
2018-39
Bot 10

286B
Oxy
LBP7
200
2018-39
Bot 10

287
Oxy
LBP7
175
2018-39
Bot 11

288
Oxy
LBP7
150
2018-39
Bot 12

289
Oxy
LBP7
125
2018-39
Bot 13

290
Oxy
LBP7
100
2018-39
Bot 14

291
Oxy
LBP7
75
2018-39
Bot 15

292
Oxy
LBP7
50
2018-39
Bot 16

293
Oxy
LBP7
30
2018-39
Bot 17

294A
Oxy
LBP7
20
2018-39
Bot 18

294B
Oxy
LBP7
20
2018-39
Bot 18

295
Oxy
LBP7
10
2018-39
Bot 19

296
Oxy
LBP7
5
2018-39
Bot 20

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Whale 09101

Last Updated: January 2017

IOS

Cruise and Analysis Information	
Cruise Number:	2018-39
Event:	91
Station:	LBP5
Event Date (Local):	May 13/2018
Analysis Date (Local):	13 May 18
Analyst:	Tamara
Stdization Date (Local):	11 May 18
KIO_3 N:	0.0123057
Standard Titer:	0.4924399
Blank Titer:	0.0004369
THIO N:	0.249971
Sample Flask Water Seal?	(Yes) / No
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	$MnCl_2$ / NaI/NaOH / H_2SO_4 / KIO_3 / THIO

H_2SO_4: None

Notes:

Tamara: Draw

Nina: Pickle

Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments
1			298	2020	5.3	0.401	
2			299	3145	~~5.0~~	0.451	Redrawing → 5.5°
3			300	2092	5.5	0.312	
4			301	1442	5.8	0.338	
5			302	3106	6.3	0.760	
6			303A	3036	6.4	1.022	⇒
7			304	3089	6.9	1.547	
8			305	3135	6.9	1.966	
9			306	3074	7.3	2.313	
10			307	3055	7.3	2.641	Bottom cap ~~sticks a little~~ sticking a little
11		X	308	3094	7.6	2.816	Leaking quite a bit
12			309	3065	7.7	3.450	
13			310	3101	8.0	3.273	
14			311	3147	8.2	3.497	
15			312	458	8.8	4.735	
16			313A	3103	9.2	5.945	⇒
~~17~~			~~314~~	~~1312~~			~~1312 is sample A from Bottle 16~~
18			315	3133	9.3	5.953	
19			316	371	9.9	6.382	
20							
21							
22							
23							
24							

Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
1					
2					
3					
4					
5					
6	303B	3052	6.5	1.025	☺
7					
8					
9					
10					
11					
12					
13					
14					
15					
16	313B	3098	9.2	5.955	
17					SPIGOT LEFT OPEN
18					
19					
20					
21					
22					
23					
24					

Bot 17 2018-39 20 LBP5 Oxy 314

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

298
Oxy
LBP5
bot-10
2018-39
Bot 1

299
Oxy
LBP5
1250
2018-39
Bot 2

300
Oxy
LBP5
1000
2018-39
Bot 3

301
Oxy
LBP5
750
2018-39
Bot 4

302
Oxy
LBP5
500
2018-39
Bot 5

303A
Oxy
LBP5
400
2018-39
Bot 6

303B
Oxy
LBP5
400
2018-39
Bot 6

304
Oxy
LBP5
300
2018-39
Bot 7

305
Oxy
LBP5
250
2018-39
Bot 8

306
Oxy
LBP5
200
2018-39
Bot 9

307
Oxy
LBP5
175
2018-39
Bot 10

308
Oxy
LBP5
150
2018-39
Bot 11

309
Oxy
LBP5
125
2018-39
Bot 12

310
Oxy
LBP5
100
2018-39
Bot 13

311
Oxy
LBP5
75
2018-39
Bot 14

312
Oxy
LBP5
50
2018-39
Bot 15

313A
Oxy
LBP5
30
2018-39
Bot 16

313B
Oxy
LBP5
30
2018-39
Bot 16

315
Oxy
LBP5
10
2018-39
Bot 18

316
Oxy
LBP5
5
2018-39
Bot 19

Dissolved Oxygen Analysis Log Sheet

Swordfish 09401

Last Updated: January 2017

IOS

Institute of Ocean Sciences
Water Properties Group

Cruise and Analysis Information	
Cruise Number:	2018-39
Event:	94
Station:	LBP3
Event Date (Local):	13-05-2018
Analysis Date (Local):	14May18
Analyst:	Tamara
Stdization Date (Local):	14May18
KIO_3 N:	0.0123057
Standard Titer:	0.492322
Blank Titer:	0.0004156
THIO N:	0.249951
Sample Flask Water Seal?	(Yes) / No
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	($MnCl_2$) / NaI/NaOH / H_2SO_4 / KIO_3 / THIO
Notes:	

Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments
1			317	3131	7.1	1.974	
2			318	3199	7.1	2.012	
3			319	557	7.3	2.140	
4			320	438	7.4	2.446	
5			321	547	7.7	2.467	
6			322	1402	9.1	2.971	
7			323	339	9.3	5.553	
8			324	3155	9.7	5.860	
9			325	3091	10.8	6.738	
10			326A	3109	12.0	7.037	
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							

Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
1					
2					
3					
4					
5					
6					
7					
8					
9					
10	326B	3118	12.0	7.039	☺
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

317	318	319	320	321	322	323	324	325	326A	326B
Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy
LBP3	LBP3	LBP3	LBP3	LBP3	LBP3	LBP3	LBP3	LBP3	LBP3	LBP3
bot-10	150	125	100	75	50	30	20	10	5	5
2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39
Bot 1	Bot 2	Bot 3	Bot 4	Bot 5	Bot 6	Bot 7	Bot 8	Bot 9	Bot 10	Bot 10

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

turtle 11001 + * 11002 for samples 347 x 348 (accidentally closed on samples windows)

Last Updated: January 2017

Cruise and Analysis Information		Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments (on 11001)
Cruise Number:	2018-39	1			329	1023	3.4	1.385		1					
Event:	110	2			330	3044	3.8	0.680		2					
Station:	CS00	3			331	3019	4.2	0.384		3					
Event Date (Local):	May 15/2018	4			332	429	4.6	0.257		4					
Analysis Date (Local):	14 May 18	5			333A	3120	5A	0.269	=>	5	333B	3037	5.5	0.263	
Analyst:	Tamara	6			334	3000	5.8	0.625		6					
Stdization Date (Local):	14 May 18	7			335	1457	6.0	~~1.680~~	0.977	7					
KIO_3 N:	0.0123057	8			336	304	6.4	1.680		8					
Standard Titer:	0.492322	9			337	1401	6.6	2.098		9					
Blank Titer:	0.00042322	10			338	1418	7.1	2.709		10					
THIO N:	0.0004156 0.249457	11			339	650	7.5	3.126		11					
Sample Flask Water Seal?	(Yes) / No	12			340A	3090	7.5	3.357	=>	12	340B	3143	7.6	3.358	☺
Reagent Change?	$MnCl_2$	13			341	2035	7.8	4.065		13					
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	NaI/NaOH	14			342	1019	7.8	4.918		14					
	H_2SO_4 None	15			343	1470	8.0	5.877		15					
	KIO_3	16			344	2099	8.5	6.606		16					
	THIO	17			345	3084	8.8	6.737		17					
		18			346A	3048	9.6	6.909	=> Small bubble in reagent	18	346B	2069	9.7	6.925	
Notes:		19			347	3068	10.8	6.932	* see note above	19					
Tamara = Draw		20			348	3070	10.9	6.944	*	20					
Nina = Pickle		21								21					
		22								22					
		23								23					
		24								24					

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

329	330	331	332	333A	333B	334	335	336	337	338	339	340A	340B
Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy
CS00	CS00	CS00	CS00	CS00	CS00	CS00	CS00	CS00	CS00	CS00	CS00	CS00	CS00
2000	1500	1250	1000	750	750	500	400	300	250	200	175	150	150
2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39
Bot 1	Bot 2	Bot 3	Bot 4	Bot 5	Bot 5	Bot 6	Bot 7	Bot 8	Bot 9	Bot 10	Bot 11	Bot 12	Bot 12

341	342	343	344	345	346A	346B	347	348
Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy
CS00	CS00	CS00	CS00	CS00	CS00	CS00	CS00	CS00
125	100	75	50	30	20	20	10	5
2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39
Bot 13	Bot 14	Bot 15	Bot 16	Bot 17	Bot 18	Bot 18	Bot 19	Bot 20

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

BENDER 11401

Last Updated: January 2017

IOS

Cruise and Analysis Information	
Cruise Number:	2018-39
Event:	114
Station:	CS02
Event Date (Local):	14-05-18
Analysis Date (Local):	14 May 18
Analyst:	Tamara
Stdization Date (Local):	14 May 18
KIO_3 N:	0.012 3057
Standard Titer:	0.492322
Blank Titer:	0.00042322
THIO N:	~~0.00~~ 0.249951
Sample Flask Water Seal?	(Yes) / No
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	$MnCl_2$ / NaI/NaOH / H_2SO_4 none / KIO_3 / THIO
Notes:	

Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments
1			352	3180	3.8	1.176	
2			353	1422	4.2	0.543	
3			354	3018	4.5	0.366	
4			355	3200	4.9	0.254	
5			356A	3170	5.6	0.276	=)
6			357	3081	6.0	0.896	
7			358	435	6.2	1.471	
8			359	2049	6.4	2.280	
9			360	3078	6.8	2.778	
10			361	3085	7.3		bottom endcap dripping
11			~~362~~	~~3080~~			NISKIN SPLIT IN HALF!
12			363A	2086	7.9	3.489	=)
13			364	~~2087~~	8.1	4.023	
14			365	2095	8.1	5.448	bottom endcap dripping
15			366	425	8.3	6.591	
16			367	2063	8.7	6.957	endcap bottom dripping
17			368	575	9.0	6.935	
18			369	3086	10.6	7.047	
19			370	3142	10.7	7.087	
20			371	3121	10.7	7.091	
21							
22							
23							
24							

Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
1					
2					
3					
4					
5	356B	462	5.7	0.272	
6					
7					
8					
9					
10					
11	~~362~~				
12	363B	437	8.0	3.492	
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

362
Oxy
CS02
175
2018-39
Bot 11

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

352	353	354	355	356 A	356 B	357	358	359	360	361	363 A	363 B	364
Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy
CS02	CS02	CS02	CS02	CS02	CS02	CS02	CS02	CS02	CS02	CS02	CS02	CS02	CS02
bot-10	1500	1250	1000	750	750	500	400	300	250	200	150	150	125
2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39
Bot 1	Bot 2	Bot 3	Bot 4	Bot 5	Bot 5	Bot 6	Bot 7	Bot 8	Bot 9	Bot 10	Bot 12	Bot 12	Bot 13

365	366	367	368	369	370	371
Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy
CS02	CS02	CS02	CS02	CS02	CS02	CS02
100	75	50	30	20	10	5
2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39
Bot 14	Bot 15	Bot 16	Bot 17	Bot 18	Bot 19	Bot 20

Dissolved Oxygen Analysis Log Sheet

11801

Last Updated: January 2017

Institute of Ocean Sciences
Water Properties Group

IOS

Cruise and Analysis Information	
Cruise Number:	2018-39
Event:	118
Station:	CS04
Event Date (Local):	15May18
Analysis Date (Local):	15May18
Analyst:	Tamara
Stdization Date (Local):	14May18
KIO_3 N:	0.0123057
Standard Titer:	0.492322
Blank Titer:	0.00042322
THIO N:	0.249951
Sample Flask Water Seal?	(Yes) / No
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	$MnCl_2$ / NaI/NaOH / H_2SO_4 none / KIO_3 / THIO
Notes:	Sperm whale

Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments
1			373	2020	7.8	3.897	
2			374	3145	8.1	4.273	
3			375	2092	8.7	5.817	
4			376A	1442	9.3	6.504	⇒
5			377	3036	9.7	6.796	
6			378	3052	10.3	7.180	
7			379	3089	10.4	7.177	
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							

Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
1					
2					
3					
4	376B	3106	9.3	6.504	☺ ☺
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

373	374	375	376A	376B	377	378	379
Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy
CS04	CS04	CS04	CS04	CS04	CS04	CS04	CS04
bot=10	75	50	30	30	20	10	5
2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39
Bot 1	Bot 2	Bot 3	Bot 4	Bot 4	Bot 5	Bot 6	Bot 7

12901

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Turtle

Last Updated: January 2017

IOS

Cruise and Analysis Information	
Cruise Number:	2018-39
Event:	129
Station:	CS06
Event Date (Local):	15 May/2018
Analysis Date (Local):	15 May 18
Analyst:	Tamara
Standization Date (Local):	15 May 18
KIO_3 N:	0.0123057
Standard Titer:	0.492322
Blank Titer:	0.00042322
THIO N:	0.249951
Sample Flask Water Seal?	(Yes) / No
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	$MnCl_2$ / NaI/NaOH / H_2SO_4 None / KIO_3 / THIO
Notes:	

Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments
1	✓	✓	380	1023	8.7	5.337	
2	✓	✓	381A	3044	8.7	5.343	⇒
3	✓	✓	382	429	9.1	5.955	
4	✓	✓	383	3120	9.3	6.622	
5	✓	✓	384	3037	10.7	7.999	
6	✓	✓	385	3000	10.8	8.023	
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							

Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
1					
2	381B	3019	8.7	5.352	
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

380	381A	381B	382	383	384	385
Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy
CS06	CS06	CS06	CS06	CS06	CS06	CS06
bot-10	50	50	30	20	10	5
2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39
Bot 1	Bot 2	Bot 2	Bot 3	Bot 4	Bot 5	Bot 6

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Turtle

13501

Last Updated: January 2017

IOS

Cruise and Analysis Information	
Cruise Number:	2018-39
Event:	135
Station:	CS09
Event Date (Local):	~~13~~ 15 May/2018
Analysis Date (Local):	15 May 18
Analyst:	Tamara
Stdization Date (Local):	~~13~~ 15 May 18
KIO_3 N:	0.0123057
Standard Titer:	0.492322
Blank Titer:	0.00042322
THIO N:	0.249951
Sample Flask Water Seal?	(Yes) / No
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	$MnCl_2$ / NaI/NaOH / H_2SO_4 none / KIO_3 / THIO

Notes:

TAMARA = Draw
Nina = Pickle

Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments
1			387	1457	7.4	2.087	
2			388	3014	7.4	2.087	
3			389	1401	7.5	2.124	Top vent a little loose
4			390	1418	7.5	2.260	
5			391	650	8.1	3.520	
6			392	3090	8.5	5.697	
7			393A	3143	8.8	6.483	⇒
8			394	1019	9.2	6.567	titrated wrong!
9			395	1470	9.7	6.866	
10			396	2099	11.0	7.250	
11			397	3084	11.6	7.682	Top cap not seated.
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							

Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
1					
2					
3					
4					
5					
6					
7	393B	2035	8.8	6.484	☺
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

387	388	389	390	391	392	393A	393B	394	395	396	397
Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy
CS09	CS09	CS09	CS09	CS09	CS09	CS09	CS09	CS09	CS09	CS09	CS09
bot-10	175	150	125	100	75	50	50	30	20	10	5
2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39
Bot 1	Bot 2	Bot 3	Bot 4	Bot 5	Bot 6	Bot 7	Bot 7	Bot 8	Bot 9	Bot 10	Bot 11

15401 + 15402 (samples 417, 418, 419 only)

Dissolved Oxygen Analysis Log Sheet

Robo-man

Institute of Ocean Sciences
Water Properties Group

accidentally closed ~~stop~~ analysis of 15401

Last Updated: January 2017

IOS

Cruise and Analysis Information	
Cruise Number:	2018-39
Event:	154
Station:	IS1
Event Date (Local):	16 May 18
Analysis Date (Local):	16 May 18
Analyst:	Tamara
Stdization Date (Local):	14 May 18
KIO_3 N:	0.0123057
Standard Titer:	0.492322
Blank Titer:	0.00042322
THIO N:	0.249951
Sample Flask Water Seal?	(Yes) / No
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	$MnCl_2$ / NaI/NaOH / H_2SO_4 none / KIO_3 / THIO
Notes:	Bender

Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments
1			408	3180	8.6	5.416	
2			409	1422	8.8	5.650	
3			410	3018	8~~8~~	5.649	
4			411a	3200	8.7	~~16~~ 5.634	
5			412	462	8.8	5.720	
6			413	3081	8.9	5.804	
7			414	435	9.0	5.964	
8			415	2049	9.0	6.106	
9			416a	3078	9.1	6.380	
10			417	3080	9.3	6.635	
11			418	2086	9.3	6.655	top end cap not sealed
12			419	437	8.7	5.576	
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							

box file = 15402

Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
1					
2					
3		-			
4	411b	3170	8.7	5.635	☺
5					
6					
7					
8					
9	416b	3085	9.1	6.412	
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

408	409	410	411 A	411 B	412	413	414	415	416 A	416 B	417	418	419
Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	JS	JS
JS	JS	JS	JS	JS	JS	JS	JS	JS	JS	JS	JS	Oxy	Oxy
b-10	200	150	100	100	75	50	30	20	10	10	5	2018-39	2018-39
2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	On	Bot 12
Bot 1	Bot 2	Bot 3	Bot 4	Bot 4	Bot 5	Bot 6	Bot 7	Bot 8	Bot 9	Bot 9	Bot 10	Bot 11	

15601 & 15602

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Last Updated: January 2017

IOS

Cruise and Analysis Information	
Cruise Number:	2018-39
Event:	156
Station:	16
Event Date (Local):	16 May 18
Analysis Date (Local):	16 May 18
Analyst:	Tamara
Stdization Date (Local):	14 May 18
KIO_3 N:	0.0123057
Standard Titer:	0.492322
Blank Titer:	0.00042322
THIO N:	0.249951
Sample Flask Water Seal?	(Yes) / No
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	$MnCl_2$ / NaI/NaOH (None) / H_2SO_4 / KIO_3 / THIO
Notes:	Bender

Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments
1			420	2058	9.0	3.869	15601
2			421	2095	9.0	3.924	
3			422A	425	9.1	3.936	
4			423	575	9.1	4.037	
5			424	3086	9.3	4.148	
6			425	3142	9.4	4.357	stirred for a few minutes (while 3 flushed lines) before titrating
7			426	3121	9.6	4.598	
8			427	2094	9.7	4.683	
9			428	456	10.0	4.966	15602 - had to flush burette - bubble in line
10			429	3079	10.1	4.968	
11			430	439	10.1	5.020	
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							

Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
1					
2					
3	422B	2063	9.1	3.931	
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

420	421	422A	422B	423	424	425	426	427	428	429
Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy
16	16	16	16	16	16	16	16	16	16	16
b-10	200	150	150	100	75	50	30	20	10	5
2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39
Bot 1	Bot 2	Bot 3	Bot 3	Bot 4	Bot 5	Bot 6	Bot 7	Bot 8	Bot 9	Bot 10

16401

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Sperm Whale.

Last Updated: January 2017

IOS

Cruise and Analysis Information		Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2018-39	1	✓	✓	~~4344~~	~~2020~~	15.9		=>	1	4348	3145	15.9	6.969	Flask 2020 broke :(
Event:	164	2	✓	✓	435	2092	10.5	5.324		2					
Station:	12	3	✓	✓	436	1442	12.3	6.993	critter in flask	3					
Event Date (Local):	17 May 2018	4	✓	✓	437	3106	9.7	3.058		4					
Analysis Date (Local):	17 May 18	5								5					
Analyst:	Tamara	6								6					
Stdization Date (Local):	17 May 18	7								7					
KIO_3 N:	0.012305 7	8								8					
Standard Titer:	0.4924202	9								9					
Blank Titer:	0.0005009	10								10					
THIO N:	0.249851	11								11					
Sample Flask Water Seal?	(Yes) / No	12								12					
Reagent Change?	$MnCl_2$	13								13					
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	NaI/NaOH none	14								14					
	H_2SO_4	15								15					
	KIO_3	16								16					
	THIO	17								17					
		18								18					
Notes:		19								19					
		20								20					
		21								21					
		22								22					
		23								23					
		24								24					

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

434	435	436	437
Oxy	Oxy	Oxy	Oxy
12	12	12	12
0	20	10	Bot-10
2018-39	2018-39	2018-39	2018-39
Bot 1	Bot 2	Bot 3	Bot 4

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

· Whale 17301

Last Updated: January 2017

IOS

Cruise and Analysis Information		Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2018-39	1			447	3036	9.8	2.349	448 analyzed bfore 447	1					
Event:	173	2			448	3052	9.5	2.953		2					
Station:	22	3			449	3089	9.1	4.005		3					
Event Date (Local):	17 May/2018	4			450A	3135	8.9	4.229	⇒	4	450B	3074	9.0	4.230	☺
Analysis Date (Local):	17 May 18	5			451	3055	9.0	4.088		5					
Analyst:	Tamara	6			452	3094	9.2	3.933		6					
Stdization Date (Local):	17 May 18	7			453	3065	9.3	4.139		7					
KIO_3 N:	0.0123057	8			454	3101	9.7	5.333		8					
Standard Titer:	0.4924202	9			455	3147	12.8	8.573		9					
Blank Titer:	0.0005009	10		•	456	458	14.1	8.699		10					
THIO N:	0.249851	11			457	3103	16.5	8.216		11					
Sample Flask Water Seal?	(Yes) / No	12								12					
		13								13					
Reagent Change?	$MnCl_2$ none	14								14					
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	NaI/NaOH	15								15					
	H_2SO_4	16								16					
	KIO_3	17								17					
	THIO	18								18					
Notes:		19								19					
		20								20					
		21								21					
		22								22					
		23								23					
		24								24					

Sperm whale

Draw = Tamara

Pickle = Nina

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

448	447	449	450A	450B	451	452	453	454	455	456	457
Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy
22	22	22	22	22	22	22	22	22	22	22	22
200	bot-5	100	75	75	50	40	30	20	10	5	0
2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39
Bot 2	Bot 1	Bot 3	Bot 4	Bot 4	Bot 5	Bot 6	Bot 7	Bot 8	Bot 9	Bot 10	Bot 11

OXY LOG

17601

Water Properties Group

Cruise ID: 2018-39 **Station:** GE01 **Event #:** 176 **Ship:** Laurier **UTC Date (dd mmm yyyy):** ___ ___ ___

Niskin #	Niskin V	Integrity S	Sample ID	Flask ID	Draw Temp	Oxy 1 ml/l		Sample ID	Flask ID	Draw Temp	Oxy 2 ml/l
1			461	3145	9.4	2.837					
2			462	2092	9.1	4.407					
3			463	1442	8.8	4.561					
4			464	3106	9.0	4.106					
5			465	3036	9.1	4.481					
6			466A	3052	9.1	4.686	⇒	466B	3089	9.1	4.688
7			467	3135	9.3	5.200					
8			468	3074	10.0 ~~10.0~~	6.432	redraw ⟶ 10.0				
9			469	3055	11.9	7.787					
10			470	3094	12.9	7.859	slow drip bottom end cap				
11			471	3098	14.0	7.668	top end cap not seated spigot running				
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											

Whale

Event : 176

Event date local 17May18

Analysis date local 17May18

Analyst Tamara

Stdization date local 17May18

KIO_3 N 0.0123057

Standard Titer 0.4924202

Blank Titer 0.0005009

THIO N 0.249851

Sample flask water seal ✓

Reagent change? none

Notes:
ran out of oxy log sheets - didn't have any blank ones. How do you like Marie's homemade one? ☺

Version: 25 Nov 2011

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

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

461	462	463	464	465	466A	466B	467	468	469	470	471
Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy
GEO1	GEO1	GEO1	GEO1	GEO1	GEO1	GEO1	GEO1	GEO1	GEO1	GEO1	GEO1
b-10	200 m	100 m	75 m	50 m	40 m	40 m	30 m	20 m	10 m	5 m	0 m
2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39	2018-39
Bot 1	Bot 2	Bot 3	Bot 4	Bot 5	Bot 6	Bot 6	Bot 7	Bot 8	Bot 9	Bot 10	Bot 11