

Nessie

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

00101



Cruise and Analysis Information							OXY-1						OXY-2															
Cruise Number:	Event:	Station:	Event Date (Local):	Analysis Date (Local):	Analyst:	Stdization Date (Local):	KIO ₃ N:	Standard Titer:	Blank Titer:	THIO N:	Sample Flask Water Seal?	Reagent Change?	Notes:	Nisk ID	Nisk Int V 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		
														2016-07		ST	15 June 2016	16 June 2016	SP	16 June 2016	0.0118195	0.5059353	0.0005957	0.234117	(Yes) No	MnCl ₂ NaI/NaOH H ₂ SO ₄ KIO ₃ THIO		1
														2			2				2							
														3			3				3							
														4	✓	✓	4	456	10.3	4.463	→	4	4	471	10.4	4.471		
														5			5				5							
														6			6				6							
														7			7				7							
														8	✓	✓	8	1406	12.6	6.293	knissed bract first time!	8						
														9	✓	✓	9	306	13.8	7.070	volume = 146.343	9						
														10							10							
														11							11							
														12							12							
														13							13							
														14							14							
														15							15							
														16							16							
														17							17							
														18							18							
														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.

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Institute of Ocean Sciences
Water Properties Group

Last Updated: July 2015



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Cruise and Analysis Information							Nisk ID	Nisk Int V 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: 2016-07	1			10	712	8.5	3.282							1					
Event: 4	2			11	3073	8.4	3.233							2					
Station: 59	3			12	3078	8.5	3.326							3					
Event Date (Local): 15 June 2016	4			13	3050	8.5	3.367					bubble in flask		4					
Analysis Date (Local): 16 June 2016	5			14	1055	8.6	3.380					(396)		5					
Analyst: SM	6			15A	2089	8.8	3.662					→		6	15B	2089	8.8	3.618	yuck! 3.618
Stdization Date (Local): 16 June 2016	7			16	439	8.8	3.760							7					
KIO ₃ N: 0.0113185	8			17	2065	9.5	4.286							8					
Standard Titer: 0.5059353	9			18	2060	10.1	4.896							9					
Blank Titer: 0.0005957	10			19	3081	10.4	5.142							10					
THIO N: 0.234117	11			20A	505	10.5	5.204					→		11	20B	2068	10.5	5.217	
Sample Flask Yes	12			21	2055	10.5	5.293							12					
Water Seal? (No)	13			22	3137	10.7	5.431							13					
Reagent Change? MnCl ₂	14			23	1407	10.9	5.643							14					
(Please circle reagent that was changed prior to sampling and standardization)	15			24	3124	11.1	5.787							15					
NOTE NEW BATCH IN LOG BOOK	16													16					
	17													17					
	18													18					
	19													19					
Notes:	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.

Box 4

00801

Dissolved Oxygen Analysis Log Sheet

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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:	2016-07						1	✓	✓	26	1300	7.2	2.094		1						
Event:	8						2	✓	✓	27	1301	7.2	2.197		2						
Station:	102						3	✓	✓	28 ^A	1302	7.3	2.156	→	3	28 ^B	1306	7.4	2.146		
Event Date (Local):	16 June 2016						4	✓	✓	29	1309	7.3	2.241		4						
Analysis Date (Local):	16 June 2016						5	✓	✓	30	1311	7.7	2.353		5						
Analyst:	SM						6	✓	✓	31	1312	7.7		oops, distracted and forgot acid.	6						
Standardization Date (Local):	16 June 2016						7	✓	✓	32	1313	8.1	3.114		7						
KIO ₃ N:	0.0118139						8	✓	✓	33	1314	8.5	3.424	spigot too loose	8						
Standard Titer:	0.5059359						9	✓	✓	34	1315	8.8	3.711		9						
Blank Titer:	0.0005957						10	✓	✓	35 ^A	1317	9.3	4.298	→	10	36 ^B	1318	9.4	4.300	nice!	
THIO N:	0.234117						11	✓	✓	36	1319	9.9	4.764	spigot too tight	11						
Sample Flask Water Seal?	Yes						12	✓	✓	37	1321	11.1	5.667		12						
	No						13	✓	✓	38	1322	11.3	5.783		13						
Reagent Change?	MnCl ₂						14	✓	✓	39	1326	11.3	5.785		14						
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH						15								15						
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄						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.

BOX #2

Dissolved Oxygen Analysis Log Sheet

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Cruise and Analysis Information							OXY-1 Comments	Cruise and Analysis Information							OXY-2 Comments
Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)		Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments		
Cruise Number: 2016-07	1	✓	✓	41	1201	7.6		1							
Event: 11	2	✓	✓	42	1202	7.3	2.216	2							
Station: 75	3	✓	✓	43	1204	7.4	2.382	3							
Event Date (Local): 16 June 2016	4			44	1206	7.4	2.430 →	4	44	1209	7.5	2.428			
Analysis Date (Local): 17 June 2016	5			45	1212	7.7	2.822	5							
Analyst: TF	6	✓	✓	46	1213	8.0	3.034	6							
Stdization Date (Local): 16 June 2016	7	✓	✓	47	1216	8.3	3.560	7							
KIO ₃ N: 0.0118189	8	✓	✓	48	1218	8.9	3.688	8							
Standard Titer: 0.5059358	9	✓	✓	49	1219	9.2	4.227	9							
Blank Titer: 0.005957	10	✓	✓	50	1214	9.3	4.177 (1214?)	10							
THIO N: 0.234117	11	✓	✓	51	1225	9.3	4.188 →	11	51	1228	9.3	4.189	B analyzed before A		
Sample Flask (Yes) Water Seal? No	12	✓	✓	52	1231	9.6	4.421	12							
Reagent Change? MnCl ₂	13	✓	✓	53	1233	10.8	5.496	13							
(Please circle reagent that was changed prior to sampling and standardization)	14	✓	✓	54	1238	11.2	5.665	14							
NOTE NEW BATCH IN LOG BOOK	15							15							
	16							16							
	17							17							
	18							18							
Notes:	19							19							
	20							20							
	21							21							
	22							22							
	23							23							
	24							24							

not reading box file!
suspect b/c didn't use 01101 in 01/01

leak in thio line sample aborted
end point meaning less

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.

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Box 7

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reading box file! ☺

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:	2016-07	1			56	860	7.3	2.182		1					
Event:	16	2			57	861	7.2	2.185		2					
Station:	72	3			58	862	7.1	2.177		3					
Event Date (Local):	Jun. 16, 2016	4			59	863	7.1	2.162		4					
Analysis Date (Local):	17 June 2016	5			60	864	7.2	2.266	dupl. erratic curve - bubbles running around in flask	5	60B	865	7.2	2.257	
Analyst:	TF	6			61	866	7.9	2.858		6					
Stdization Date (Local):	16 June 2016	7			62	867	8.7	3.814		7					
KIO ₃ N:	0.0118189	8			63	868	9.0	3.911	cleaned waterbath after this sample	8					
Standard Titer:	0.5059358	9			64	869	9.4	4.230		9					
Blank Titer:	0.0005957	10			65	870	9.9	4.641	dupl.	10	65B	871	9.9	4.638	
THIO N:	0.234117	11			66	872	10.6	5.304		11					
Sample Flask Water Seal?	(Yes) No	12			67	873	11.3	5.797		12					
		13			68	874	11.5	5.870		13					
Reagent Change?	MnCl ₂	14								14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15								15					
	H ₂ SO ₄	16								16					
NOTE NEW BATCH IN LOG BOOK	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.

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Box 7

01901

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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:	2016-07						1			70	876	7.1	2.225		1					
Event:	19						2			71					2					
Station:	69						3			72					3					
Event Date (Local):	Jun. 16, 2016						4								4					
Analysis Date (Local):	17 June 2016						5								5					
Analyst:	TF						6			75	877	8.1	3.092	dupl. →	6	75B	878	8.1	3.092	☺
Standardization Date (Local):	16 June 2016						7								7					
KIO ₃ N:	0.0118189						8								8					
Standard Titer:	0.5059358						9								9					
Blank Titer:	0.0005957						10								10					
THIO N:	0.234117						11								11					
Sample Flask Water Seal?	(Yes) No						12			81	879	11.4	5.96		12					
Reagent Change?	MnCl ₂						13								13					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH						14								14					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄						15								15					
	KIO ₃						16								16					
	THIO						17								17					
Notes:							18								18					
							19								19					
							20								20					
							21								21					
							22								22					
							23								23					
							24								24					

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Box Diho

02301

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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:	2016-07	1			83	3079	7.5	2.591		1					
Event:	23	2			84	456	7.6	2.658		2					
Station:	adcp	3			85	471	7.8	2.828		3					
Event Date (Local):	June 16, 16	4			86	1406	8.7	3.603		4					
Analysis Date (Local):	17 June 2016	5			87	3005	9.0	3.867 →		5	87B	196	9.0	3.871	
Analyst:	TF	6			88	712	9.1	4.018		6					
Stdization Date (Local):	16 June 2016	7			89	3073	9.6	4.319		7					
KIO ₃ N:	0.0118189	8			90	3078	10.5	5.272		8					
Standard Titer:	0.5059358	9			91	3050	11.0	6.138		9					
Blank Titer:	0.00059358	10			92	1055	11.1	6.236		10					
THIO N:	0.234117	11								11					
Sample Flask	Yes	12								12					
Water Seal?	No	13								13					
Reagent Change?	MnCl ₂	14								14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15								15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	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.

BOX #4

Dissolved Oxygen Analysis Log Sheet

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Cruise and Analysis Information		Nisk ID	Nisk Int V 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:	2016-07	1	✓✓	105	1300	10.3	4.939		1					
Event:	31	2		106	1301	10.6	5.351		2					
Station:	63	3	✓✓	107	1302	10.8	5.727		3	107	1306	10.8	5.726	
Event Date (Local):	17 June 2016	4	✓✓	108	1309	10.7	5.720		4					
Analysis Date (Local):	17 June 2016	5							5					
Analyst:	TF	6							6					
Stdization Date (Local):	16 June 2016	7							7					
KIO ₃ N:	0.0118189	8							8					
Standard Titer:	0.5059358	9							9					
Blank Titer:	0.0005957	10							10					
THIO N:	0.234117	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)	NaI/NaOH	14							14					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15							15					
	KIO ₃	16							16					
	THIO	17							17					
Notes:		18							18					
		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.

Dissolved Oxygen Analysis Log Sheet

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Box 4

03201

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:	2016-07	1	✓	✓	110	1312	7.7	2.662							1					
Event:	32	2	✓	✓	111	1313	7.8	2.726							2					
Station:	62	3	✓	✓	112	1314	7.9	2.867							3					
Event Date (Local):	17 June 2016	4	✓	✓	113	1316	8.4	3.354							4					
Analysis Date (Local):	17 June 2016	5	✓	✓	114	1317	9.3	4.120					→		5		1318	9.3	4.119	
Analyst:	TF	6	✓	✓	115	1319	9.9	4.280							6					
Stdization Date (Local):	16 June 2016	7	✓	✓	116	1321	9.9	4.732					please check endpoint		7					
KIO ₃ N:	0.0118189	8	✓	✓	117	1322	10.9	5.335							8					
Standard Titer:	0.5059358	9	✓	✓	118	1326							→ bot 9 didn't trip		9		1327			no sample
Blank Titer:	0.0005957	10	✓	✓	119	1328	10.5	5.400							10					
THIO N:	0.234117	11	✓	✓	120	1330	10.5	5.423							11					
Sample Flask	(Yes)	12													12					
Water Seal?	No	13													13					
Reagent Change?	MnCl ₂	14													14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15													15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	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.

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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: 2016-07	1	✓	✓	122	3079	8.2	3.275								1					
Event: 37	2	✓	✓	123	456	8.7	3.285								2					
Station: 56	3			124	471	8.3	3.327								3					
Event Date (Local): 17 June 2016	4	✓	✓	125	1406	8.7	3.357								4					
Analysis Date (Local): 17 June 2016	5	✓	✓	126	3005	8.9	3.559								5					
Analyst: SW	6	✓	✓	127	196	9.3	3.912								6					
Stdization Date (Local): 16 June 2016	7	✓	✓	128	712	9.5	4.000								7					
KIO ₃ N: .0113189	8	✓	✓	129	3073	9.9	4.345	→							8	129	3078	9.9	4.342	
Standard Titer: .5059353	9	✓	✓	130	3050	10.0	4.462								9					
Blank Titer: .0005957	10	✓	✓	131	1055	10.0	4.530								10					
THIO N: .234117	11	✓	✓	132	396	10.1	4.559								11					
Sample Flask Water Seal? ☒ Yes ☐ No	12	✓	✓	133	2089	10.2	4.661	→							12	133	439	10.3	4.668	
Reagent Change? MnCl ₂	13	✓	✓	134	2065	10.3	4.681								13					
(Please circle reagent that was changed prior to sampling and standardization)	14	✓	✓	135	2060	10.5	4.772								14					
NOTE NEW BATCH IN LOG BOOK	15														15					
	16														16					
	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.

Box 4

04601



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:	2016-07	1			137	1300	9.3	3.619		1					
Event:	46	2			138	1301	9.3	3.746		2					
Station:	46	3			139	1302	9.4	3.845		3					
Event Date (Local):	Jun. 17, 16	4			140	1306	9.8	4.152	dupl. →	4	1408	1309	9.8	4.151	yes!
Analysis Date (Local):	17 June 2016	5			141	1311	9.7	4.254		5					
Analyst:	SN	6			142	1312	9.8	4.351		6					
Stdization Date (Local):	16 June 2016	7			143	1313	9.7	4.222		7					
KIO ₃ N:	0118139	8			144	1314	9.7	4.225		8					
Standard Titer:	.5059358	9			145	1316	10.4	4.549		9					
Blank Titer:	.0005957	10			146	1317	10.7	4.844	dupl. →	10	1468	1318	10.7	4.843	yes!
THIO N:	.234117	11			147	1319	14.2	7.231		11					
Sample Flask Water Seal?	Yes No	12			148	1321	15.8	8.008		12					
Reagent Change?	MnCl ₂	13								13					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14								14					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15								15					
	KIO ₃	16								16					
	THIO	17								17					
Notes:		18								18					
		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.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

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Box 4 'Messy'

05101

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:	2016-07						1			150	3079	9.5	3.544		1						
Event:	51						2			151	456	9.5	3.426		2						
Station:	42						3			152	471	9.7	2.822		3						
Event Date (Local):	June 17, 16						4			153	1406	9.6	3.539		4						
Analysis Date (Local):	18 June 16						5			154	3005	9.6	3.760		5						
Analyst:	TF						6			155	196	9.5	3.941	dupl →	6	155b	712	9.5	3.941	☺	
Stdization Date (Local):	18 June 16						7			156	3073	9.7	4.144		7						
KIO ₃ N:	0.0118189						8			157	3078	9.3	4.450		8						
Standard Titer:	0.5056014						9			158	3050	9.3	4.372		9						
Blank Titer:	0.0006181						10			159	1055	9.4	4.194		10						
THIO N:	0.234191						11			160	396	9.6	4.185		11						
Sample Flask Water Seal?	Yes						12			161	2089	9.8	4.231	dupl →	12	161B	439	9.8	4.242	☹	
	No						13			162	2065	10.0	4.346		13						
Reagent Change?	MnCl ₂						14			163	2060	11.2	5.314		14						
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH						15			164	3081	13.9	6.821		15						
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄						16			165	505	15.9	7.360		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.

Dissolved Oxygen Analysis Log Sheet

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box 4

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:	2016-07						1			167	1300	9.8	3.276		1					
Event:	58						2			168					2					
Station:	39						3			169	1301	9.8	2.787		3					
Event Date (Local):	18 June 16						4			170	1302	9.8	2.805		4					
Analysis Date (Local):	18 June 16						5			171	1306	9.9	2.794		5					
Analyst:	TF						6			172A	1309	9.7	3.231	dupl →	6	172B	1311	9.8	3.232	
Stdization Date (Local):	18 June 16						7			173	1312	9.6	3.545		7					small bubble in sample before adding acid
KIO ₃ N:	0.0118189						8			174	1313	9.6	3.873		8					
Standard Titer:	0.5056014						9			175	1314	9.6	4.012		9					
Blank Titer:	0.0006181						10			176	1316	9.5	4.389		10					
THIO N:	0.234191						11								11					
Sample Flask Water Seal?	Yes						12			178	1317	9.3	4.385		12					
	No						13			179	1318	9.6	4.095		13					
Reagent Change?	MnCl ₂						14								14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH						15			181A	1319	9.9	4.227	dupl →	15	181B	1321	9.9	4.217	☹
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄						16			182	1322	10.3	4.469		16					
	KIO ₃						17	✓	✓	183	1326	10.7	4.708		17					
	THIO						18								18					
Notes:							19	✓	✓	185	1327	12.0	7.142		19					
							20	✓	✓	186	1328	16.1	16.895		20					
							21	✓	✓	187	1330	17.0	16.707		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.

Dissolved Oxygen Analysis Log Sheet

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Water Properties Group

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Box 2

06401

Cruise and Analysis Information		Nisk ID	Nisk Int V 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: 2016-07		1	✓✓	189	1201	9.6	2.785		1					
Event: 64		2	✓✓	190	1202	9.6	2.912		2					
Station: 27		3	✓✓	191	1204	9.6	2.855		3					
Event Date (Local): 18 June 2016		4	✓✓	192	1206	9.5	3.220	bubble in sample - I think EP is OK?	4					
Analysis Date (Local): 18 June 2016		5	✓✓	193	1209	9.5	3.235	→	5	193	1212	9.6	3.238	
Analyst: TF/SL		6	✓✓	194	1213	9.3	3.695	re-drawn (raindrop)	6					
Stdization Date (Local): 18 June 2016		7	✓✓	195	1216	9.4	4.053		7					
KIO ₃ N: 0.0118189		8	✓✓	196	1218	9.3	4.199		8					
Standard Titer: 0.5056014		9	✓✓	197	1219	9.3	4.405		9					
Blank Titer: 0.0006181		10	✓✓	198	1224	9.3	4.153	→	10	198	1225	9.3	4.147	
THIO N: 0.234191		11	✓✓	199	1228	9.4	4.114		11					
Sample Flask Water Seal? (Yes) No		12	✓✓	200	1231	9.7	4.206		12					
		13	✓✓	201	1233	9.9	4.306		13					
Reagent Change? MnCl ₂		14	✓✓	202	1238	11.4	5.483		14					
(Please circle reagent that was changed prior to sampling and standardization)		15	✓✓	203	1241	15.0	6.830		15					
		16	✓✓	204	1244	16.9	6.614		16					
NOTE NEW BATCH IN LOG BOOK		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.

LOCH NESS

Dissolved Oxygen Analysis Log Sheet

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07201

Cruise and Analysis Information		Nisk ID	Nisk Int V 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: 2016-07		1		206	3079	9.7	2.251		1					
Event: 72		2		207	456	9.7	2.344		2					
Station: 2		3		208	471	9.6	3.017		3					
Event Date (Local): June 18, 2016		4		209	1406	9.5	3.235	→	4	209B	3005	9.6	3.225	
Analysis Date (Local): 18 June 2016		5		210	196	9.5	3.642		5					
Analyst: SL		6		211	712	9.4	3.754		6					
Stdization Date (Local): 18 June 2016		7		212	3073	9.3	4.141		7					
KIO ₃ N: , 0118189		8		213	3078	9.2	4.256		8					
Standard Titer: , 5056014		9		214	3050	9.5	4.054	→	9	214B	1055	9.5	4.044	
Blank Titer: , 0006181		10		215	396	9.9	4.215		10					
THIO N: , 234191		11		216	2089	10.2	4.319		11					
Sample Flask Water Seal? ☒ Yes ☐ No		12		217	439	10.7	4.760		12					
Reagent Change? MnCl ₂		13		218	2065	14.0	6.922		13					
(Please circle reagent that was changed prior to sampling and standardization)		14		219	2060	16.5	6.809		14					
NOTE NEW BATCH IN LOG BOOK		15		220	3081	17.2	6.910		15					
		16							16					
		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.

Dissolved Oxygen Analysis Log Sheet

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Nessy

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: 2016-07		1			241	3074	10.8	4.313		1					
Event: 78		2			242	456	10.7	4.350		2					
Station: BS11		3			243	471	10.8	4.204		3					
Event Date (Local): Jun. 18, 16		4			244	1406	11.1	4.462	dupl →	4	2448	3078	11.1	4.450	
Analysis Date (Local): 18 Jun 2016		5			245	196	11.6	4.861		5					
Analyst: sn		6			246	712	12.7	5.442		6					
Stdization Date (Local): 18 Jun 2016		7			247	3073	14.3	6.187		7					
KIO ₃ N: .0118139		8			248	3078	15.5	6.635		8					
Standard Titer: .5056014		9								9					
Blank Titer: .0006181		10								10					
THIO N: .234191		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)		15								15					
NOTE NEW BATCH IN LOG BOOK		16								16					
		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.

08201

Dissolved Oxygen Analysis Log Sheet

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Cruise and Analysis Information		Nisk ID	Nisk Int V 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: 2016-07		1		250	3050	9.7	2.898		1					
Event: 82		2		251	1055	9.6	2.971		2					
Station: 6		3		252	396	9.5	3.476		3					
Event Date (Local): Jun. 18, 16		4		253	2089	9.5	3.653	dupl. →	4	253	439	9.5	3.646	
Analysis Date (Local): 18 Jun 2016		5		254	2065	9.3	4.134		5					
Analyst: <i>sn</i>		6		255	2060	9.3	4.182		6					
Stdization Date (Local): 18 Jun 2016		7		256	3081	10.1	4.223		7					
KIO ₃ N: .0118181		8		257	505	10.5	4.354		8					
Standard Titer: .5056014		9		258	2068	10.7	4.474	dupl. →	9	258	2055	10.7	4.490	
Blank Titer: .0006181		10		259	3137	11.1	4.723		10					
THIO N: .234191		11		260	1407	12.7	6.849		11					
Sample Flask Water Seal? <i>Yes</i>		12		261	3124	15.7	7.041		12					
		13		262	1223	16.3	6.777		13					
Reagent Change? MnCl ₂		14							14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15							15					
	H ₂ SO ₄	16							16					
NOTE NEW BATCH IN LOG BOOK	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.

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Box 2

08501

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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:	2016-07					1			264	1201	9.7	2.539		1						
Event:	85					2			265	1202	9.5	3.001		2						
Station:	9					3			266	1204	9.5	3.325		3						
Event Date (Local):	18 June 2016					4			267	1206	9.3	4.000	dupl →	4	267	1209	9.4	3.992		
Analysis Date (Local):	19 June 2016					5			268	1212	9.2	4.092		5						
Analyst:	TF					6			269	1213	10.3	4.212		6						
Stdization Date (Local):	18 June 2016					7			270	1216	10.6	4.372		7						
KIO ₃ N:	0.0118189					8			271	1218	10.8	4.486		8						
Standard Titer:	0.5056014					9			272	1219	11.2	4.772		9						
Blank Titer:	0.0006181					10			273	1224	13.7	7.249	dupl →	10	273	1225	13.7	7.254		
THIO N:	0.234191					11			274	1228	15.5	7.180		11						
Sample Flask Water Seal?	(Yes) No					12			275	1231	16.7	6.641		12						
Reagent Change?	MnCl ₂					13								13						
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH					14								14						
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄					15								15						
	KIO ₃					16								16						
	THIO					17								17						
Notes:						18								18						
						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.

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Cruise and Analysis Information							OXY-1					OXY-2				
	Nisk ID	Nisk Int V 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: 2016-07	1		277	3079	9.9	2.146		1								
Event: 88	2	✓✓	278	456	9.8	2.619		2								
Station: 12	3	✓✓	279	471	9.7	2.994		3								
Event Date (Local): 19 June 2016	4	✓✓	280	1406	9.7	3.256		4								
Analysis Date (Local): 19 June 2016	5	✓✓	281	3005	9.6	3.426		5								
Analyst: TF	6	✓✓	282	196	9.5	3.670		6								
Stdization Date (Local): 19 June 2016	7	✓✓	283	712	9.5	3.815		7								
KIO ₃ N: 0.0118189	8	✓✓	284A	3073	9.4	3.771	→	8	284B	3078	9.5	3.773				
Standard Titer: 0.5055126	9	✓✓	285	3050	9.4	4.049		9								
Blank Titer: 0.0004486	10	✓✓	286	1055	10.3	4.200		10								
THIO N: 0.234163	11	✓✓	287	396	10.4	4.292	slight leak on bottom O-ring	11								
Sample Flask Water Seal? Yes	12	✓✓	288	2089	10.6	4.451		12								
No	13	✓✓	289	439	11.3	4.889		13								
Reagent Change? MnCl ₂	14	✓✓	290A	2065	14.9	6.835	⇒	14	290B	2060	14.9	6.854	⊘			
(Please circle reagent that was changed prior to sampling and standardization)	15	✓✓	291	3081	16.7		bubbles during titration + forgot	15					to write down [O ₂]			
NOTE NEW BATCH IN LOG BOOK	16	✓✓	292	505	17.0	6.434		16					data file 08802 - hi f			
	17							17					wrong bottle after sat			
	18							18					291			
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.

Dissolved Oxygen Analysis Log Sheet

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Box 4

09201

Cruise and Analysis Information		Nisk ID	Nisk Int V 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:	2016-07	1	✓✓	294	1300	9.9	2.567		1					
Event:	92	2	✓✓	295	1301	9.8	2.768		2					
Station:	14	3	✓✓	296	1302	9.7	3.080		3					
Event Date (Local):	19 June 2016	4	✓✓	297	1306	9.6	3.288		4					
Analysis Date (Local):	19 June 2016	5	✓✓	298	1309	9.5	3.525	9.5	5					
Analyst:	TF/SN	6	✓✓	299	1311	9.5	3.622		6					
Stdization Date (Local):	19 June 2016	7	✓✓	300	1312	9.4	3.674	→	7	300	1313	9.5	3.667	
KIO ₃ N:	0.0118189	8	✓✓	301	1314	9.5	3.806		8					
Standard Titer:	0.5055126	9	✓✓	302	1316	10.3	4.251		9					
Blank Titer:	0.0004486	10	✓✓	303	1317	10.6	4.424		10					
THIO N:	0.234163	11	✓✓	304	1318	10.9	4.592		11					
Sample Flask Water Seal?	(Yes) No	12	✓✓	305	1319	11.3	4.746		12					
Reagent Change?	MnCl ₂	13	✓✓	306	1321	12.3	5.282	→ Draw Sample B first.	13	306	1322	12.3	5.286	☺
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14	✓✓	307	1326	14.1	6.130		14					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15	✓✓	308	1327	14.5	6.229		15					
	KIO ₃	16							16					
	THIO	17							17					
Notes:		18							18					
		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.

Box #2

09501

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

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Cruise and Analysis Information							Nisk ID	Nisk Int V 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: 2016-07	1			308	1201	9.8	2.958							1						
Event: 95	2	✓	✓	309	1202	9.7	3.147							2						
Station: 16	3	✓	✓	310	1204	9.8	3.442	→						3	310	1206	9.8	3.443	3.5!	
Event Date (Local): 19 June 2016	4	✓	✓	311	1209	9.5	3.676							4						
Analysis Date (Local): 19 Jun 2016	5	✓	✓	312	1212	10.1	3.997							5						
Analyst: SM	6	✓	✓	313	1213	10.5	4.233							6						
Stdization Date (Local): 19 June 2016	7	✓	✓	314	1216	10.5	4.260							7						
KIO ₃ N: .0118185	8	✓	✓	315	1218	11.1	4.624							8						
Standard Titer: .5055126	9	✓	✓	316	1219	11.3	4.686	→						9	316	1224	11.3	4.692		
Blank Titer: .0004486	10	✓	✓	317	1225	12.0	5.070							10						
THIO N: .234163	11	✓	✓	318	1228	12.5	5.298							11						
Sample Flask Water Seal? ☒ Yes ☐ No	12			3										12						
	13													13						
Reagent Change? MnCl ₂	14													14						
(Please circle reagent that was changed prior to sampling and standardization)	15													15						
NOTE NEW BATCH IN LOG BOOK	16													16						
	17													17						
	18													18						
	19													19						
Notes:	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.

10001

Dissolved Oxygen Analysis Log Sheet

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Water Properties Group

Nessy

Last Updated: July 2015



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:	2016-07					1			320	3079	10.1	2.999		1						
Event:	100					2			321	456	10.0	3.074		2						
Station:	OKE					3			322	471	10.1	3.194		3						
Event Date (Local):	Jun. 19, 16					4			323	1406	11.0	4.371	dupl →	4	323b	3005	11.1	4.375	U	
Analysis Date (Local):	19 June 2016					5			324	196	12.0	5.045		5						
Analyst:	SL					6			325	712	12.5	5.313		6						
Stdization Date (Local):	19 June 2016					7			326	3073	12.8	5.417		7						
KIO ₃ N:	.0118185					8			327	3078	13.5	5.759	dupl →	8	327b	3050	13.5	5.777		
Standard Titer:	.5055126					9			328	1055	14.5	6.393		9						
Blank Titer:	.0004486					10			329	396	15.6	7.400		10						
THIO N:	.234163					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)	NaI/NaOH					15								15						
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄					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.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Loch Ness.

10701

Last Updated: July 2015



Cruise and Analysis Information		Nisk ID	Nisk Int V 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: 2016-07		1	✓✓	334	3079	9.5	3.049		1					
Event: 107		2	✓✓	335	456	9.5	2.848		2					
Station: 27		3	✓✓	336	471	9.5	2.957	dupl →	3	336	1406	9.5	2.957	😊
Event Date (Local): 20 June 2016		4	✓✓	337	3005	9.5	3.177		4					
Analysis Date (Local): 20 June 2016		5	✓✓	338	196	9.5	3.287		5					
Analyst: TF		6	✓✓	339	712	9.5	4.150		6					
Stdization Date (Local): 19 June 2016		7	✓✓	340	3073	16.1	6.501		7					
KIO ₃ N: 0.0118189		8							8					
Standard Titer: 0.5055126		9							9					
Blank Titer: 0.0004486		10							10					
THIO N: 0.234163		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)		14							14					
NOTE NEW BATCH IN LOG BOOK		15							15					
		16							16					
		17							17					
		18							18					
		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.