

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Bender



Last Updated: December 2019

Cruise and Analysis Information		Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments		Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2021-020	1		211	3057	8.5	6.682			1					
Event:	65	2		212	3049	8.6	6.674			2					
Station:	VAN6	3		213	505	8.6	6.719			3					
Event Date (Local):	09 APR 2021	4		214	3109	8.6	6.718			4					
Analysis Date (Local):	10 April 2021	5		215	3030	8.6	6.852			5					
Analyst:	KS	6		216	2047	8.7	6.996			6	216B	3072	8.7	6.999	
Stdization Date (Local):	10 April 2021	7		217	3032	8.7	7.175			7					
KIO ₃ N:	0.0120494	8		218	2027	8.7	7.269			8					
Standard Titer:	0.49954	9								9					
Blank Titer:	-0.06003	10		218	217	216A	216B	215	214	213	212	211			
THIO N:	0.24149	11		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY			
Sample Flask Water Seal?	Yes	12		VAN6	VAN6	VAN6	VAN6	VAN6	VAN6	VAN6	VAN6	VAN6			
	No	13		2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020			
Reagent Change?	MnCl ₂	14		0 m	5 m	10 m	10 m	20 m	30 m	40 m	50 m	Bot-5 m			
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		bot 8	bot 7	bot 6	bot 6	bot 5	bot 4	bot 3	bot 2	bot 1			
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16													
	KIO ₃	17													
	THIO	18													
Notes:		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.

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Cruise Number:	2021-020	1		220	3074	8.5	6.145		1					
Event:	66	2		221	2092	8.5	6.223		2					
Station:	VANS	3		222	3145	8.6	6.346		3					
Event Date (Local):	09 APR	4		223	3127	8.6	6.511		4					
Analysis Date (Local):	10 April 2021	5		224	2032	8.7	6.857	- must correct draw T	5					
Analyst:	KS	6		225	930	8.7	6.892	- must correct draw T	6	225B	1409	8.7	6.895	- correct the draw T
Stdization Date (Local):	9 April 2021	7							7					
KIO ₃ N:	0.0120494	8							8					
Standard Titer:	0.49954	9		225A	225B		224	223	222	221	220			
Blank Titer:	-0.00003	10		OXY	OXY		OXY	OXY	OXY	OXY	OXY			
THIO N:	0.24149	11		VAN5	VAN5		VAN5	VAN5	VAN5	VAN5	VAN5			
Sample Flask Water Seal?	Yes	12		2021-020	2021-020		2021-020	2021-020	2021-020	2021-020	2021-020			
	No	13		0 m	0 m		5 m	10 m	20 m	30 m	Bot-5 m			
Reagent Change?	MnCl ₂	14		bot 6	bot 6		bot 5	bot 4	bot 3	bot 2	bot 1			
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15												
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16												
	KIO ₃	17												
	THIO	18												
Notes:		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.

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Cruise and Analysis Information							Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	7021-020	8	1	234A	2014	8.7	6.866	=>	1	234B	557	8.7	6.869						
Event:	67	7	2	233	339	8.6	6.813		2										
Station:	VAN4	6	3	232	658	8.6	6.580		3										
Event Date (Local):	9 April 2021	5	4	231	730	8.5	6.084		4										
Analysis Date (Local):	10 April 2021	4	5	230	3051	8.4	5.845		5										
Analyst:	KS	3	6	229	1035	8.4	5.711		6										
Stdization Date (Local):	9 April 2021	2	7	228	931	8.4	5.615		7										
KIO ₃ N:	0.0120494	1	8	227	3040	8.3	5.612		8										
Standard Titer:	0.49954		9						9										
Blank Titer:	-0.00003		10						10										
THIO N:	0.24149		11	234A	234B	233	232	231	230	229	228	227							
Sample Flask Water Seal?	☒ Yes ☐ No		12	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY							
			13	VAN4	VAN4	VAN4	VAN4	VAN4	VAN4	VAN4	VAN4	VAN4							
Reagent Change?	MnCl ₂		14	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020							
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH		15	0 m	0 m	5 m	10 m	20 m	30 m	40 m	50 m	Bot-5 m							
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄		16	bot 8	bot 8	bot 7	bot 6	bot 5	bot 4	bot 3	bot 2	bot 1							
	KIO ₃		17																
	THIO		18																
Notes:			19																
			20																
			21																
			22																
			23																
			24																

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Cruise and Analysis Information							Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2021-020	1		236	712	7.9	4.793							1					
Event:	72	2		237	1416	7.9	4.835							2					
Station:	VANI	3		238	2094	7.9	5.063							3					
Event Date (Local):	10 April 2021	4		239	3054	7.9	5.202							4					
Analysis Date (Local):	10 April 2021	5		240	2025	7.9	8.1	5.033						5					
Analyst:	KS	6		241	3036	8.1?	8.3?	5.359						6					
Stdization Date (Local):	9 April 2021	7		242	3173	8.3	6.499							7					
KIO ₃ N:	0.0120494	8		243	3116	8.2	7.381							8					
Standard Titer:	0.49954	9		244	3090	8.3	7.425							9					
Blank Titer:	-0.00003	10		245A	2016	8.4	7.420	=>						10	245B	2019	8.4	7.426	
THIO N:	0.24149	11												11					
Sample Flask Water Seal?	Yes	12		245A	245B	244	243	242	241	240	239	238	237	236					
	No	13		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY					
Reagent Change?	MnCl ₂	14		VAN1	VAN1	VAN1	VAN1	VAN1	VAN1	VAN1	VAN1	VAN1	VAN1	VAN1					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020					
	H ₂ SO ₄	16		0 m	0 m	5 m	10 m	20 m	30 m	40 m	50 m	75 m	100 m	Bot-5 m					
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17		bot 10	bot 10	bot 9	bot 8	bot 7	bot 6	bot 5	bot 4	bot 3	bot 2	bot 1					
	THIO	18																	
Notes:		19																	
		20																	
		21																	
		22																	
		23																	
		24																	

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Cruise Number: 2021-020	1		255	3040	9.2	2.533		1					
Event: 77	2		256	931	9.1	2.544		2					
Station: J11	3		257	1035	8.5	4.472		3					
Event Date (Local): 10 April 2021	4		258	3051	8.4	4.505		4					
Analysis Date (Local): 11 April 2021	5		259A	658	8.6	6.130 =>		5	259B	730	8.5	6.129	
Analyst: KS	6		260	339	8.8	7.340		6					
Stdization Date (Local): 9 April 2021	7		261	557	8.9	7.653	- 2 stir bars! Sample sat acidified	7					
KIO ₃ N: 0.0120491	8		262	2014	9.0	7.715	- Late EP. Sample over-titrated	8					
Standard Titer: 0.49954	9							9					
Blank Titer: -0.00003	10							10					
THIO N: 0.24149	11		262	261	260	259A	259B	258	257	256	255		
Sample Flask Water Seal? ☒ Yes ☐ No	12		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY		
	13		J1-1	J1-1	J1-1	J1-1	J1-1	J1-1	J1-1	J1-1	J1-1		
Reagent Change? MnCl ₂	14		2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020		
(Please circle reagent that was changed prior to sampling and standardization)	15		0 m	5 m	10 m	25 m	25 m	50 m	100 m	250 m	Bot-5 m		
NOTE NEW BATCH IN LOG BOOK	16		bot 8	bot 7	bot 6	bot 5	bot 5	bot 4	bot 3	bot 2	bot 1		
	17												
	18												
Notes:	19												
	20												
	21												
	22												
	23												
	24												

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Cruise Number:	2021-020						1		263A	3013	9.2	2.280	=>	1	263B	1418	9.2	2.274	-late EP. Sample over-titrated	
Event:	78						2		264	3067	9.2	2.360		2						
Station:	J13						3		265	3068	8.6	4.377		3						
Event Date (Local):	10 April 2021						4		266	2056	8.6	4.343		4						
Analysis Date (Local):	11 April 2021						5		267	3025	8.6	5.001		5						
Analyst:	KS						6		268	402	8.8	7.013		6						
Stdization Date (Local):	9 April 2021						7		269	3418	9.1	7.390		7						
KIO ₃ N:	0.0120494						8		270	1472	9.2	7.932		8						
Standard Titer:	0.49984						9							9						
Blank Titer:	-0.00003						10							10						
THIO N:	0.24149						11							11						
Sample Flask Water Seal?	Yes						12							12						
	No						13							13						
Reagent Change?	MnCl ₂						14		270	269	268	267	266	265	264	263A	263B			
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH						15		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY			
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄						16		J1-3	J1-3	J1-3	J1-3	J1-3	J1-3	J1-3	J1-3	J1-3			
	KIO ₃						17		2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020			
	THIO						18		0 m	5 m	10 m	25 m	50 m	100 m	250 m	Bot-5 m	Bot-5 m			
Notes:							19		bot 8	bot 7	bot 6	bot 5	bot 4	bot 3	bot 2	bot 1	bot 1			
							20													
							21													
							22													
							23													
							24													

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Cruise Number: 2021-020	1		271	1400	9.2	2.134		1					
Event: 79	2		272	3055	9.3	2.198		2					
Station: J15	3		273	1401	8.7	4.105		3					
Event Date (Local): 10 April 2021	4		274	528	8.7	4.042		4					
Analysis Date (Local): 11 April 2021	5		275	3031	8.7	4.779		5					
Analyst: KS	6		276A	437	8.9	6.622 =>		6	276B	1432	8.9	6.620	
Standardization Date (Local): 9 April 2021	7		277	3075	9.1	7.629		7					
KIO ₃ N: 0.0120474	8		278	1023	9.1	7.820		8					
Standard Titer: 0.49954	9							9					
Blank Titer: -0.00003	10							10					
THIO N: 0.24149	11							11					
Sample Flask Water Seal? ☒ Yes	12							12					
	13							13					
Reagent Change? MnCl ₂	14							14					
(Please circle reagent that was changed prior to sampling and standardization)	15							15					
	16							16					
	17							17					
	18							18					
Notes:	19		278	277	276A	276B	275	274	273	272	271		
	20		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY		
	21		J1-5	J1-5	J1-5	J1-5	J1-5	J1-5	J1-5	J1-5	J1-5		
	22		2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020		
	23		0 m	5 m	10 m	10 m	25 m	50 m	100 m	250 m	Bot-5 m		
	24		bot 8	bot 7	bot 6	bot 6	bot 5	bot 4	bot 3	bot 2	bot 1		

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Cruise and Analysis Information	Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 2021-020	1		279A	2027	9.1	2.483	⇒ large bubble under stopper!	1	279B	3032	9.1	2.074	
Event: 80	2		280	3000	8.2	2.139	→ Value suspect.	2					
Station: JI6	3		281	2019	8.6	4.135		3					
Event Date (Local): 10 April 2021	4		282	2043	8.8	4.270		4					
Analysis Date (Local): 11 April 2021	5		283	3100	8.8?	5.059		5					
Analyst: KS	6		284	3009	9.1	6.756		6					
Stdization Date (Local): 9 April 2021	7		285	371	9.1	7.277		7					
KIO ₃ N: 0.012494	8		286	2089	9.2	7.716		8					
Standard Titer: 0.49954	9							9					
Blank Titer: -0.00003	10							10					
THIO N: 0.24149	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)	15							15					
NaI/NaOH	16							16					
H ₂ SO ₄	17							17					
NOTE NEW BATCH IN LOG BOOK	18							18					
KIO ₃	19							19					
THIO	20							20					
Notes:	21							21					
	22							22					
	23							23					
	24												

Bottle integrity: First test the top vent (V) by o

286	285	284	283	282	281	280	279A	279B
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
JI-6	JI-6	JI-6	JI-6	JI-6	JI-6	JI-6	JI-6	JI-6
2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020
0 m	5 m	10 m	25 m	50 m	100 m	250 m	Bot-5 m	Bot-5 m
bot 8	bot 7	bot 6	bot 5	bot 4	bot 3	bot 2	bot 1	bot 1

in the comments column.

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Cruise and Analysis Information						Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments	
Cruise Number:	2021 - 020					1		287	1409	9.1	2.149		1						
Event:	81					2		288A	1429	9.0	2.089	=7	2	288B	930	9.1	2.086		
Station:	JI-7					3		289	3057	8.7	3.858		3						
Event Date (Local):	11 April 2021					4		290	3049	8.7	4.012		4						
Analysis Date (Local):	11 April 2021					5		291	505	8.8	4.717		5						
Analyst:	KS					6		292	3109	8.9	6.589	Runaway. Sample over-titrated.	6						
Stdization Date (Local):	9 April 2021					7		293	3030	8.9	7.240	Blip in curve @ endpt. Sample over-titrated as a result.	7						
KIO ₃ N:	0.0120494					8		294	3072	8.9	7.389		8						
Standard Titer:	0.49954					9							9						
Blank Titer:	-0.00003					10		294		293			292	291	290	289	288A	288B	287
THIO N:	0.241849					11		OXY		OXY			OXY	OXY	OXY	OXY	OXY	OXY	OXY
Sample Flask Water Seal?	Yes					12		JI-7		JI-7			JI-7	JI-7	JI-7	JI-7	JI-7	JI-7	JI-7
	No					13		2021-020		2021-020			2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020
Reagent Change?	MnCl ₂					14		0 m		5 m			10 m	25 m	50 m	100 m	250 m	250 m	Bot-5 m
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH					15		bot 8		bot 7			bot 6	bot 5	bot 4	bot 3	bot 2	bot 2	bot 1
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄					16													
	KIO ₃					17													
	THIO					18													
Notes:						19													
						20													
						21													
						22													
						23													
						24													

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Cruise and Analysis Information							Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2021-020	1		295	2068	9.2	2.137							1					
Event:	82	2		296	1055	9.2	2.278							2					
Station:	J14	3		297	3073	8.8	4.048							3					
Event Date (Local):	11 April 2021	4		298	3046	8.6	4.260							4					
Analysis Date (Local):	11 April 2021	5		299	471	8.7	5.478							5					
Analyst:	KS	6		300A	2092	8.9	6.724 =>							6	300B	3074	8.9	6.723	
Stdization Date (Local):	9 April 2021	7		301	3145	9.2	7.633	- late FP. Sample over-titrated						7					
KIO ₃ N:	0.0120494	8		302	3127	9.4	8.076							8					
Standard Titer:	0.49954	9												9					
Blank Titer:	-0.00003	10												10					
THIO N:	0.241 49	11												11					
Sample Flask Water Seal?	Yes	12												12					
	No	13		302	301	300A	300B	299	298					297	296	295			
Reagent Change?	MnCl ₂	14		OXY	OXY	OXY	OXY	OXY	OXY					OXY	OXY	OXY			
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		JI-4	JI-4	JI-4	JI-4	JI-4	JI-4					JI-4	JI-4	JI-4			
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		2021-020	2021-020	2021-020	2021-020	2021-020	2021-020					2021-020	2021-020	2021-020			
	KIO ₃	17		0 m	5 m	10 m	10 m	25 m	50 m					100 m	250 m	Bot-5 m			
	THIO	18		bot 8	bot 7	bot 6	bot 6	bot 5	bot 4					bot 3	bot 2	bot 1			
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

Shark



Last Updated: December 2019

Cruise and Analysis Information							Nis k ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nis k ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments								
Cruise Number:	2021-020						1		303	2094	9.1	2.335		1													
Event:	83						2		304A	2025	9.1	2.419 =>		2	304B	3054	9.1	2.415	- Runaway titration, Sample over-titrated.								
Station:	J12						3		305	3036	8.7	4.219		3													
Event Date (Local):	11 April 2021						4		306	3173	8.5	4.317		4													
Analysis Date (Local):	11 April 2021						5		307	3116	8.7	5.610		5													
Analyst:	KS						6		308	3090	8.8	7.002		6													
Stdization Date (Local):	9 April 2021						7		309	2015	8.9	7.402		7													
KIO ₃ N:	0.0120494						8		310	2016	8.9	7.590		8													
Standard Titer:	0.49954						9							9													
Blank Titer:	- 0.00003						10							10													
THIO N:	0.24149						11							11													
Sample Flask Water Seal?	Yes						12			310		309		308		307		306		305		304A		304B		303	
	No						13			OXY		OXY		OXY		OXY		OXY		OXY		OXY		OXY		OXY	
Reagent Change?	MnCl ₂						14			JI-2		JI-2		JI-2		JI-2		JI-2		JI-2		JI-2		JI-2		JI-2	
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH						15			2021-020		2021-020		2021-020		2021-020		2021-020		2021-020		2021-020		2021-020		2021-020	
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄						16			0 m		5 m		10 m		25 m		50 m		100 m		250 m		250 m		Bot-5 m	
	KIO ₃						17			bot 8		bot 7		bot 6		bot 5		bot 4		bot 3		bot 2		bot 2		bot 1	
	THIO						18																				
Notes:							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.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last Updated: December 2019

Loch Ness

Cruise and Analysis Information							OXY-1 Comments							OXY-2 Comments						
Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)		Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)									
1		311	3103	9.3	2.943		1													
2		312	3037	9.1	2.853		2													
3		313	1406	9.1	3.040		3													
4		314A	3005	9.0	3.318		4	314B	2049	9.0	3.315									
5		315	3158	8.9	3.516		5													
6		316	3133	8.8	3.788		6													
7		317	2065	8.7	4.015		7													
8		318	3142	8.8	3.953		8													
9		319	3079	8.9	4.054		9													
10		320	3131	8.7	4.975		10													
11		321	3048	8.7	5.903		11													
12		322	3041	8.7	5.919		12													
13		323	2007	8.6	7.206		13													
14		324	3029	8.7	8.217		14													
15		325	611	8.8	8.964		15													
16		326A	456	9.2	9.243		16	326B	2098	9.1	9.734									
17		326A	326B	325	324	323	322	321	320	319	318	317								
18		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY								
19		14	14	14	14	14	14	14	14	14	14	14								
20		2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020								
21		0 m	0 m	5 m	10 m	20 m	30 m	40 m	50 m	75 m	100 m	125 m								
22		bot 16	bot 16	bot 15	bot 14	bot 13	bot 12	bot 11	bot 10	bot 9	bot 8	bot 7								
23																				
24		316	315	314A	314B	313	312	311												
		OXY	OXY	OXY	OXY	OXY	OXY	OXY												
		14	14	14	14	14	14	14												
		2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020												
		150 m	175 m	200 m	200 m	250 m	300 m	Bot-5 m												
		bot 6	bot 5	bot 4	bot 4	bot 3	bot 2	bot 1												

Bottle integrity: First test the top vent (V) by of

the integrity check and explain this in the comments column.

Visibly full of phytoplankton

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Sword Fish



Last Updated: December 2019

Cruise and Analysis Information							Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments	
Cruise Number:	2021-021						1		327	3025	9.1	3.474	⇒	1	327B	1402	9.1	3.472		
Event:	92						2		328	2056	8.8	5.201		2						
Station:	16						3		329	3067	8.8	5.354		3						
Event Date (Local):	11 APR 2021						4		330	3068	8.8	5.468		4						
Analysis Date (Local):	12 April 2021						5		331	3013	8.8	5.486		5						
Analyst:	KS						6		332	3051	8.8	5.512	⇒	6	332B	1035	8.8	5.510		
Stdization Date (Local):	11 April 2021						7		333	730	8.8	5.529		7						
KIO ₃ N:	0.0120494						8		334	658	8.9	5.541		8						
Standard Titer:	0.49968						9		335	339	8.9	5.574		9						
Blank Titer:	0.00026						10		336	557	8.9	5.535		10						
THIO N:	0.24140						11		337	2014	8.9	5.553		11						
Sample Flask Water Seal?	(Yes) No						12		327A	327B	328	329	330	331	332A	332B	333	334	335	336
Reagent Change?	MnCl ₂						13		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH						14		16	16	16	16	16	16	16	16	16	16	16	16
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄						15		2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020
	KIO ₃						16		Bot-5 m	Bot-5 m	125 m	100 m	75 m	50 m	40 m	40 m	30 m	20 m	10 m	5 m
	THIO						17		bot 1	bot 1	bot 2	bot 3	bot 4	bot 5	bot 6	bot 6	bot 7	bot 8	bot 9	bot 10
Notes:							18													
							19		337											
							20		OXY											
							21		16											
							22		2021-020											
							23		0 m											
							24		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.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Loch Ness



Last Updated: December 2019

Cruise and Analysis Information							OXY-1 Comments							OXY-2 Comments						
Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)		Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)									
1		338	3133	9.2	2.622		1													
2		339	2065	9.0	2.914		2													
3		340A	3079	9.0	3.526	⇒	3	340B	3142	9.1	3.330									
4		341A	3048	8.6	3.867	⇒	4	340B	3131	8.6	3.869									
5		342	3078	8.7	4.053		5													
6		343	3101	8.7	4.032		6													
7		344	3044	8.6	4.253		7													
8		345	622	8.7	4.094		8													
9		346	3120	8.8	3.942		9													
10		347	3155	8.7	4.062		10													
11		348	3041	8.7	4.425		11													
12	Yes	349	2007	8.5	4.657		12													
13	No	350	3029	8.5	7.716		13													
14	MnCl ₂	351	611	8.6	8.060	-late EP due to a noisy curve.	14													
15	NaI/NaOH	352	2098	8.7	7.910	Sample over-titrated.	15													
16	H ₂ SO ₄	353	456	8.7	7.900		16													
17	KIO ₃	353	352	351	350	349	348	347	346	345	344	343	342							
18	THIO	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY							
19		12	12	12	12	12	12	12	12	12	12	12	12							
20		2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020							
21		0 m	5 m	10 m	20 m	30 m	40 m	50 m	75 m	100 m	125 m	150 m	175 m							
22		bot 16	bot 15	bot 14	bot 13	bot 12	bot 11	bot 10	bot 9	bot 8	bot 7	bot 6	bot 5							
23																				
24		341A	341B	340A	340B	339	338													
		OXY	OXY	OXY	OXY	OXY	OXY													
		12	12	12	12	12	12													
		2021-020	2021-020	2021-020	2021-020	2021-020	2021-020													
		200 m	200 m	250 m	250 m	300 m	Bot-5 m													
		bot 4	bot 4	bot 3	bot 3	bot 2	bot 1													

Bottle integrity: First test the top vent (V) by or

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

Bender



Last Updated: December 2019

Cruise and Analysis Information		Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2021-020	1		355	305	8.9	3.396	muffles-redraw → Late EP. No. x titration. Sample OT. OT better but seen much plankton in sample!	1					
Event:	98	2		356	309	8.9	3.641		2					
Station:	9	3		357	3030	8.8	3.914		3					
Event Date (Local):	12 April 2021	4		358	3072	8.8	3.961		4					
Analysis Date (Local):	12 April 2021	5		359	2047	8.8	4.280		5					
Analyst:	KS	6		360	3032	8.7	4.870		6					
Stdization Date (Local):	11 April 2021	7		361	2027	8.6	5.734		7					
KIO ₃ N:	0.0120494	8		362	3000	8.6	6.154		8					
Standard Titer:	0.49968	9		363	2019	8.6	8.539		9					
Blank Titer:	0.00026	10		364	2043	8.6	8.918		10					
THIO N:	0.24140	11		365A	3009	8.7	9.005		11					
Sample Flask Water Seal?	Yes	12		366A	2089	8.7	9.047		12	365B	3100	8.7	9.011	
	No	13							13	366B	371	8.7	9.042	
Reagent Change?	MnCl ₂	14							14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		366A	366B	365A	365B	364	363	362	361	360	359	358
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
	KIO ₃	17		9	9	9	9	9	9	9	9	9	9	9
	THIO	18		2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020
Notes:		19		0 m	0 m	5 m	5 m	10 m	20 m	30 m	40 m	50 m	75 m	100 m
		20		bot 12	bot 12	bot 11	bot 11	bot 10	bot 9	bot 8	bot 7	bot 6	bot 5	bot 4
		21												
		22		356	355									
		23		OXY	OXY									
		24		9	9									

Bottle integrity: First test the top vent (V) by or 2021-020 2021-020 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.

150 m Bot-5 m
bot 2 bot 1

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

SHARK



Last Updated: December 2019

Cruise and Analysis Information							Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments	
Cruise Number:	2021-020	1		367	458	8.9	3.675							1						
Event:	100	2		368	3010	8.7	3.997							2						
Station:	6	3		369	1408	8.4	4.612							3						
Event Date (Local):	12 April 2021	4		370	1422	8.3	4.379	Incorrect flask ID. Must correct						4						
Analysis Date (Local):	12 April 2021	5		371A	1416	8.8	3.939	→						5	371B	712	8.8	3.940		
Analyst:	KS	6		372	2094	8.8	4.059							6						
Stdization Date (Local):	11 April 2021	7		373	3054	8.7	4.847							7						
KIO ₃ N:	0.0120494	8		374	2025	8.6	5.164							8						
Standard Titer:	0.49968	9		375	3036	8.5	5.777							9						
Blank Titer:	0.00026	10		376	3173	8.6	8.201							10						
THIO N:	0.24140	11		377A	3090	8.7	8.927	→						11	377B	3116	8.7	8.931		
Sample Flask Water Seal?	Yes	12		378	2015	8.9	9.399							12						
	No	13		379	2016	8.9	9.416							13						
Reagent Change?	MnCl ₂	14		379		378	377A	377B	376	375	374	373	372	371A	371B					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		OXY		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		6		6	6	6	6	6	6	6	6	6	6					
	KIO ₃	17		2021-020		2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020					
	THIO	18		0 m		5 m	10 m	10 m	20 m	30 m	40 m	50 m	75 m	100 m	100 m					
Notes:		19		bot 13		bot 12	bot 11	bot 11	bot 10	bot 9	bot 8	bot 7	bot 6	bot 5	bot 5					
		20																		
		21		370		369	368	367						21						
		22		OXY		OXY	OXY	OXY						22						
		23		6		6	6	6						23						
		24		2021-020		2021-020	2021-020	2021-020						24						

Bottle integrity: First test the top vent (V) by op

125 m
bot 4

150 m
bot 3

175 m
bot 2

Bot-5 m
bot 1

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

BENDER



Last Updated: December 2019

Cruise and Analysis Information							Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments	
Cruise Number:	2021-020						1		380	930	9.3	2.483		1						
Event:	103						2		381	1429	9.2	2.517		2						
Station:	3						3		382	3057	9.3	2.656		3						
Event Date (Local):	April 12, 2021						4		383	3049	9.1	3.213		4						
Analysis Date (Local):	13 April 2021						5		384	505	8.8	3.722		5						
Analyst:	KS						6		385	3109	8.5	4.480		6						
Stdization Date (Local):	13 April 2021						7		386	3030	8.4	4.660		7						
KIO ₃ N:	0.0120494						8		387	3072	8.4	4.764		8						
Standard Titer:	0.49968 0.49922						9		388	2047	8.9	4.081		9						
Blank Titer:	0.00026						10		389	3032	8.8	4.192		10						
THIO N:	0.24440 0.24157						11		390A	3000	8.7	4.679	⇒	11	390B	2027	8.7	4.687		
Sample Flask Water Seal?	(Yes) No						12		391	2019	8.5	4.925		12						
Reagent Change?	MnCl ₂						13		392	2043	8.7	7.170		13						
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH						14		393A	3009	8.7	8.748	⇒	14	393B	3100	8.7	8.747		
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄						15		394	371	9.0	9.400		15						
	KIO ₃						16		395	2089	9.2	9.486		16						
	THIO						17		395	394	393A	393B	392	391	390A	390B	389	388	387	386
							18		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
							19		3	3	3	3	3	3	3	3	3	3	3	3
							20		2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020
							21		0 m	5 m	10 m	10 m	20 m	30 m	40 m	40 m	50 m	75 m	100 m	125 m
							22		bot 16	bot 15	bot 14	bot 14	bot 13	bot 12	bot 11	bot 11	bot 10	bot 9	bot 8	bot 7
							23													
							24		385	384	383	382	381	380						
									OXY	OXY	OXY	OXY	OXY	OXY						
									3	3	3	3	3	3						
									2021-020	2021-020	2021-020	2021-020	2021-020	2021-020						
									150 m	175 m	200 m	250 m	300 m	Bot-5 m						
									bot 6	bot 5	bot 4	bot 3	bot 2	bot 1						

Bottle integrity: First test the top vent (V) by op

imn 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

Sword Fish



Last Updated: December 2019

Cruise and Analysis Information							Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2021-020	1		396A	3067	9.3	2.449	→		1	396B	3068	9.3	2.450					
Event:	106	2		397	2056	9.2	2.620			2									
Station:	2	3		398	3025	9.1	3.122			3									
Event Date (Local):	12 April 2021	4		399	1402	8.7	4.090			4									
Analysis Date (Local):	13 April 2021	5		400	3118	8.6	4.303			5									
Analyst:	KS	6		401	1472	8.3	4.941			6									
Stdization Date (Local):	13 April 2021	7		402	3176	8.3	4.882			7									
KIO ₃ N:	0.0120494	8		403	3040	8.2	4.325			8									
Standard Titer:	0.47922	9		404	931	8.7	4.121			9									
Blank Titer:	0.00026	10		405	1035	8.6	4.371			10									
THIO N:	0.24157	11		406	3051	8.6	5.871			11									
Sample Flask Water Seal?	Yes	12		407	730	8.5	8.092			12									
	No	13		408	658	8.8	8.519	Sprigot open		13									
Reagent Change?	MnCl ₂	14		409	339	9.1	7.572			14									
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		410A	557	9.1	7.508	→		15	410B	2014	9.1	7.528	→				
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16	410A	410B	409	408	407	406	405	404	403	402	401	400					
	KIO ₃	17	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY					
	THIO	18	2	2	2	2	2	2	2	2	2	2	2	2					
Notes:		19	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020					
		20	0 m	0 m	5 m	10 m	20 m	30 m	40 m	50 m	75 m	100 m	125 m	150 m					
		21	bot 15	bot 15	bot 14	bot 13	bot 12	bot 11	bot 10	bot 9	bot 8	bot 7	bot 6	bot 5					
		22	399	398	397	396A	396B												
		23	OXY	OXY	OXY	OXY	OXY												
		24	2	2	2	2	2												
Bottle integrity: First test the top vent (V) by o			2021-020	2021-020	2021-020	2021-020	2021-020												
			175 m	200 m	250 m	Bot-5 m	Bot-5 m												
			bot 4	bot 3	bot 2	bot 1	bot 1												

appropriate column if either fails the integrity check and explain this in the comments column.

Loch Ness



a column if either fails the integrity check and explain this in the comments column.

Cruise and Analysis Information		Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments		
Cruise Number:	2021-020	1		415	3158	9.1	2.377		1							
Event:	113	2		416	3133	9.1	2.408		2							
Station:	39	3		417	2065	9.1	2.659		3							
Event Date (Local):	13 April 2021	4		418	3142	8.9	3.133		4							
Analysis Date (Local):	13 April 2021	5		419A	3131	9.7	3.601	→	5	419B	3079	8.7	3.567	???		
Analyst:	KS	6		420	3048	8.5	4.183		6							
Stdization Date (Local):	13 April 2021	7		421	3078	8.4	4.529		7							
KIO ₃ N:	0.0120494	8		422	3101	8.3	4.951		8							
Standard Titer:	13 April 2021	9		423	3044	8.3	4.846		9							
Blank Titer:	0.49922 0.00026	10		424	622	8.3	4.783		10							
THIO N:	0.24157	11		425	3120	8.6	4.783		11							
Sample Flask Water Seal?	Yes	12		426	3155	8.6	4.478		12							
	No	13		427	3041	8.5	5.047		13							
Reagent Change?	MnCl ₂	14		428A	3029	8.6	7.661	→	14	428B	2007	8.6	7.662			
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		429	611	9.0	7.246		15							
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		430	2098	9.1	7.242		16							
	KIO ₃	17		431	456	9.1	7.238		17							
	THIO															
Notes:				431	430	429	428A	428B	427	426	425	424	423	422	421	420
				OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
				39	39	39	39	39	39	39	39	39	39	39	39	39
				2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020
				0 m	5 m	10 m	20 m	20 m	30 m	40 m	50 m	75 m	100 m	125 m	150 m	175 m
				bot 17	bot 16	bot 15	bot 14	bot 14	bot 13	bot 12	bot 11	bot 10	bot 9	bot 8	bot 7	bot 6
				419A	419B	418	417	416	415	24						
				OXY	OXY	OXY	OXY	OXY	OXY							
				39	39	39	39	39	39							
				2021-020	2021-020	2021-020	2021-020	2021-020	2021-020							
				200 m	200 m	250 m	300 m	350 m	Bot-5 m							
				bot 5	bot 5	bot 4	bot 3	bot 2	bot 1							

Bottle integrity: First test the top vent (V) to ensure column integrity. 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

Sword fish



Last Updated: December 2019

Cruise and Analysis Information							Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2021-020	1		436	3013	9.3	2.543							1					
Event:	120	2		437	3068	9.2	2.735							2					
Station:	27	3		438	3067	9.0	3.148							3					
Event Date (Local):	13 April 2021	4		439A	3025	8.9	3.467	→						4	439B	2056	8.9	3.464	
Analysis Date (Local):	13 April 2021	5		440	1462	8.7	3.983							5					
Analyst:	KS	6		441	3118	8.6	4.170							6					
Stdization Date (Local):	13 April 2021	7		442A	3176	8.3	4.786	→						7	442B	1472	8.3	4.788	
KIO ₃ N:	0.0120494	8		443	3040	8.5	4.612							8					
Standard Titer:	0.49922	9		444	931	8.6	4.418							9					
Blank Titer:	0.00026	10		445	1035	8.6	4.393							10					
THIO N:	0.24157	11		446	3051	8.6	4.408	- Small bubble beneath stopper.						11					
Sample Flask Water Seal?	Yes	12		447	730	8.6	4.619							12					
	No	13		448	658	8.7	6.427							13					
Reagent Change?	MnCl ₂	14		449	339	9.3	7.550							14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		450	2014	9.4	7.599							15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		451	557	9.4	7.595							16					
	KIO ₃	17		451	450	449	448	447	446	445	444	443	442A	442B	441				
	THIO	18		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY				
Notes:		19		27	27	27	27	27	27	27	27	27	27	27	27				
		20		2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020	2021-020			
		21		0 m	5 m	10 m	20 m	30 m	40 m	50 m	75 m	100 m	125 m	125 m	150 m				
		22		bot 16	bot 15	bot 14	bot 13	bot 12	bot 11	bot 10	bot 9	bot 8	bot 7	bot 7	bot 6				
		23		440	439A	439B	438	437	436	23									
		24		OXY	OXY	OXY	OXY	OXY	OXY	24									
Bottle integrity: First test the top vent (V) by c																			
		27		27	27	27	27	27	27										
		2021-020		2021-020	2021-020	2021-020	2021-020	2021-020	2021-020										
		175 m		200 m	200 m	250 m	300 m	Bot-5 m											
		bot 5		bot 4	bot 4	bot 3	bot 2	bot 1											

urn if either fails the integrity check and explain this in the comments column.