

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



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:	2023-019	1		2	456	8.9	4.319			1					
Event:	3	2		3	170	9.0	4.606			2					
Station:	LB01	3		4A	570	9.4	5.388			3	4B	1119	9.4	5.395	
Event Date (Local):	2023-05-17	4		5	511	10.6	8.437		New flask 1114 → flask 3111 broken	4					
Analysis Date (Local):	17 May 2023	5							redrawn after Temp: 10.7	5					
Analyst:	KS	6							*POT 3111 AT THE BACK	6					
Stratization Date (Local):	17 May 2023	7							OF BOY, CHANGED BY	7					
KIO ₃ N:	0.0117933	8							FILE TEMPLATE ON	8					
Standard Titer:	0.47970	9							LABEL COMPUTER	9					
Blank Titer:	0.00049	10								10					
THIO N:	0.24593	11								11					
Sample Flask Water Seal?	Yes	12								12					
Reagent Change?	No	13								13					
(Please circle reagent that was changed prior to sampling and standardization)	MnCl₂	14								14					
NOTE NEW BATCH IN LOG BOOK	NaI/NaOH	15								15					
	H₂SO₄	16								16					
	KIO₃	17								17					
	THIO	18								18					
Notes:		19		2	3	4A	4B	5		19					
		20		OXY LB01	OXY LB01	OXY LB01	OXY LB01	OXY LB01		20					
		21		2023-019	2023-019	2023-019	2023-019	2023-019		21					
		22		Bot-10 m	20 m	10 m	10 m	5 m		22					
		23		bot 1	bot 2	bot 3	bot 3	bot 4		23					
Bruce Lee.xlsx		24								24					

SPOTTED FLASKS
DUE TO A BRACKEN ONE

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:	2023-019	1		7	21	8.9	4.197		1					
Event:	41	2		8	1126	9.3	5.131		2					
Station:	LB02	3		9A	1158	10.3	6.514		3	9B	712	10.0	6.511	
Event Date (Local):	2023-05-17	4		10	1123	10.7	8.280		4					
Analysis Date (Local):	17 May 2023	5		11	1141	11.5	9.506		5					
Analyst:	KS	6							6					
Stdization Date (Local):	17 May 2023	7							7					
KIO ₃ N:	0.0117933	8							8					
Standard Titer:	0.47970	9							9					
Blank Titer:	0.00049	10							10					
THIO N:	0.24593	11							11					
Sample Flask Water Seal?	Yes	12							12					
	No	13							13					
Reagent Change?	MnCl ₂	14	7		8		9A		14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15	OXY		OXY		OXY		15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16	LB02		LB02		LB02		16					
	KIO ₃	17	2023-019		2023-019		2023-019		17					
	THIO	18	Bot-10 m		30 m		20 m		18					
		19	bot 1		bot 2		bot 3		19					
		20							20					
		21							21					
		22							22					
		23							23					
		24							24					

Notes:

Bruce Lee.xlsx

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:	2023-019	1		13	2085	8.2	2.325		1					
Event:	6	2		14A	3010	8.7	3.764	Flask neck cracked. Pan sample	2	14B	1023	8.7	3.752	
Station:	LB04	3		15	1127	9.1	4.614	as it looked sealed.	3					
Event Date (Local):	2023-05-17	4		16	1136	9.5	5.449		4					
Analysis Date (Local):	17 May 2023	5		17	2097	10.1	6.984		5					
Analyst:	KS	6		18	3030	11.1	9.377		6					
Stdization Date (Local):	17 May 2023	7		19	967	11.7	10.561		7					
KIO ₃ N:	0.0117933	8							8					
Standard Titer:	0.47170	9							9					
Blank Titer:	0.00049	10							10					
THIO N:	0.24593	11							11					
Sample Flask Water Seal?	Yes	12							12					
Reagent Change?	No	13							13					
(Please circle reagent that was changed prior to sampling and standardization)	MMO ₄ NaOH H ₂ SO ₄ KIO ₃ THIO	14		13	14A	14B	15	16	17	18	19			
NOTE NEW BATCH IN LOG BOOK		15		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY			
		16		LB04	LB04	LB04	LB04	LB04	LB04	LB04	LB04			
		17		2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019			
		18		Bot-10 m	75 m	75 m	50 m	30 m	20 m	10 m	5 m			
		19		bot 1	bot 2	bot 2	bot 3	bot 4	bot 5	bot 6	bot 7			
Notes:		20												
		21												
		22												
		23												
		24												

Bruce Lee.xlsx

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:	2023-019	1		21	2040	8.1	2.159	Bottle 1 leaks from bottom cap	1					
Event:	10	2		22A	2014	8.3	2.329		2	22B	1464	8.3	2.326	
Station:	LB06	3		23	339	8.9	3.787		3					
Event Date (Local):	2023-05-17	4		24	2016	8.9	4.210		4					
Analysis Date (Local):	17 May 2023	5		25	1397	9.4	5.285		5					
Analyst:	KS	6		26	3019	9.7	6.213		6					
Stdization Date (Local):	17 May 2023	7		27	3158	11.0	8.858		7					
KIO ₃ N:	0.0117933	8		28	965	12.0	10.208	Piston reset mid-titration due to very high dissolved oxygen.	8					
Standard Titer:	0.49970	9							9					
Blank Titer:	0.00049	10							10					
THIO N:	0.24593	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: Bruce Lee.xlsx		18		21	22A	22B	23	24	25	26	27	28		
		19	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY		
		20	LB06	LB06	LB06	LB06	LB06	LB06	LB06	LB06	LB06	LB06		
		21	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019		
		22	Bot-10 m	100 m	100 m	75 m	50 m	30 m	20 m	10 m	5 m	bot 8		
		23	bot 1	bot 2	bot 2	bot 3	bot 4	bot 5	bot 6	bot 7				
		24												
		25												

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:	2023-019	1	✓	30	2098	8.2	2.304	30 OXY B08 2023-019 Bot-10 m bot 1	1						
Event:	19	2							2						
Station:	B08	3							3						
Event Date (Local):	2023-05-17	4							4						
Analysis Date (Local):	18 May 2023	5							5						
Analyst:	KS	6							6						
Stdization Date (Local):	17 May 2023	7						7							
KIO ₃ N:	0.011933	8						8							
Standard Titer:	0.47970	9						9							
Blank Titer:	0.00049	10						10							
THIO N:	0.24593	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							
		18						18							
		19						19							
		20						20							
		21						21							
		22						22							
		23						23							
		24						24							

Notes:

Chicken & Egg.xlsx

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:	2023-019	1		31	3114	8.1	1.775	Bottom cap leaked	1					
Event:	03	2		32	904	8.1	1.778		2					
Station:	LB08	3		33A	973	8.1	1.864		3	33B	196	8.1	1.862	
Event Date (Local):	2023-05-17	4							4					
Analysis Date (Local):	18 May 2023	5		35	1346	8.5	3.587 2.564		5					
Analyst:	KS	6		36	3005	8.7	3.587	Spigot was open → Analyzed as sample ID 35 Flask 3346 draw T = B.5	6					
Stdization Date (Local):	17 May 2023	7		37	118	9.2	4.697		7					
KIO ₃ N:	0.0117933	8							8					
Standard Titer:	0.47976	9		39	169	10.1	6.620		9					
Blank Titer:	0.00049	10		40	3050	10.2	7.041		10					
THIO N:	0.24593	11							11					
Sample Flask Water Seal?	☒ Yes ☐ No	12		42	3044	10.9	8.436		12					
Reagent Change?	MnCl ₂	13							13					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14		44	941	13.1	9.891		14					
NOTE NEW BATCH IN LOG BOOK		15		31	32		33A		37	OXY LB08	39	40	42	44
		16		OXY LB08	OXY LB08		OXY LB08		OXY LB08	OXY LB08	OXY LB08	OXY LB08	OXY LB08	OXY LB08
		17		2023-019	2023-019	2023-019	2023-019		2023-019	2023-019	2023-019	2023-019	2023-019	2023-019
		18		Bot-5 m	Bot-10 m	125 m	125 m		50 m	30 m	20 m	10 m	5 m	
		19		bot 1	bot 2	bot 3	bot 3		bot 7	bot 9	bot 10	bot 12	bot 14	
Notes:		20												
Chicken & Egg.xlsx		21							21					
		22							22					
		23							23					
		24							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:	2023-019	1		47	111	8.0	1.763			1						
Event:	25	2		48	953	8.1	1.831			2						
Station:	LB09	3		49	976	8.7	2.843			3						
Event Date (Local):	2023-05-17	4		50	547	9.2	4.490			4						
Analysis Date (Local):	18 May 2023	5		51	3040	9.5	5.696			5						
Analyst:	KS	6		52	1416	9.3	5.283	Precipitate quite fluffy.		6						
Stdization Date (Local):	17 May 2023	7		53A	971	10.0	6.545			7	53B	658	10.0	6.575		
KIO ₃ N:	0.011933	8		54	168	12.4	8.269			8						
Standard Titer:	0.47970	9		55	943	14.0	7.775			9						
Blank Titer:	0.00049	10								10						
THIO N:	0.24593	11								11						
Sample Flask Water Seal?	Yes No	12	47	OXY	48	OXY	49	OXY	50	OXY	51	OXY	52	OXY	53A	OXY
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization)	MnCl ₂	13		LB09		LB09		LB09		LB09		LB09		LB09		55
NOTE NEW BATCH IN LOG BOOK	NaI/NaOH	14		2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019
	H ₂ SO ₄	15		Bot-10 m	125 m	100 m	75 m	50 m	30 m	20 m	20 m	20 m	10 m	5 m	5 m	5 m
	KIO ₃	16		bot 1	bot 2	bot 3	bot 4	bot 5	bot 6	bot 7	bot 7	bot 7	bot 8	bot 9	bot 9	bot 9
	THIO	17														
		18														
		19														
		20														
		21														
		22														
		23														
		24														

Notes:

No water seals

Chicken & Egg.xlsx

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:	2023-019		1		57	1316	7.9	1.664		1							
Event:	27		2		58	974	8.1	1.995		2							
Station:	LB11		3		59	2015	8.4	2.199		3							
Event Date (Local):	2023-05-17		4		60	3072	8.4	2.476		4							
Analysis Date (Local):	18 May 2023		5		61	994	8.8	2.768		5							
Analyst:	KS		6		62	970	9.0	3.282		6							
Stdization Date (Local):	17 May 2023		7		63A	140	9.4	5.379		7	63B	131	9.4	5.087			
KIO ₃ N:	0.0117933		8		64	1330	10.0	7.067		8							
Standard Titer:	0.47970		9		65	908	10.5	6.988		9							
Blank Titer:	0.00049		10		66	105	11.5	6.646		10							
THIO N:	0.24593		11		67	932	14.5	5.560		11							
Sample Flask Water Seal?	☒ Yes ☐ No		12							12							
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization)	MnCl ₂ NaI/NaOH H ₂ SO ₄ KIO ₃ THIO		13							13							
NOTE NEW BATCH IN LOG BOOK			14	57	OXY	58	OXY	59	60	61	62	63A	OXY	64	65	66	67
			15		LB11	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019
			16		Bot-10 m	175 m	150 m	125 m	100 m	75 m	50 m	50 m	30 m	20 m	10 m	5 m	bot 11
			17		bot 1	bot 2	bot 3	bot 4	bot 5	bot 6	bot 7	bot 7	bot 8	bot 9	bot 10	bot 11	bot 11
			18														
			19														
			20														
			21														
			22														
			23														
			24														

Notes:

Moose.xlsx

No water seals
precipitate not uniform
not adequately mixed.

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.

mixed. Use data with caution

**Institute of Ocean Sciences
Water Properties Group**

Bottle integrity: First test the top vent (V) by opening the lower spigot (S)

↳ Use data with caution.



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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 Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2023-019	1		89	130	5.5	0.320						
Event:	31	2		90A	923	5.8	0.208			90B	3032	0.215	
Station:	LB14	3		91	913	6.1	0.245						
Event Date (Local):	2023-05-18	4		92	126	6.7	0.831						
Analysis Date (Local):	18 May 2023	5		93	1402	7.1	1.102						
Analyst:	KS	6		94	3096	7.5	1.475						
Stdization Date (Local):	17 May 2023	7		95	3109	7.8	1.685						
KIO ₃ N:	0.0117933	8		96	151	8.1	1.813						
Standard Titer:	0.47970	9		97	154	8.2	2.078						
Blank Titer:	0.00049	10		98	129	8.3	2.384						
THIO N:	0.24593	11		99A	575	8.5	2.569			99B	171	2.545	
Sample Flask Water Seal?	Yes	12		100	903	8.7	2.781						
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	13		101	20	8.7	2.933	-- Selected over filtration button by mistake. OT'd sample and ran again.					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	14		102	1192	8.8	3.557						
	KIO ₃	15		103	114	8.9	4.236						
	THIO	16											
		17		105	959	9.2	4.655						
		18											
		19		107	109	11.5	8.401						
		20											
		21		109	3033	14.9	6.785						
		22											
		23											
		24											

Notes:

Snail.xlsx
labels on reverse.

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.

89	OXY	LB14	2023-019	Bot-10 m	bot 1
90A	OXY	LB14	2023-019	1000 m	bot 2
90B	OXY	LB14	2023-019	1000 m	bot 2
91	OXY	LB14	2023-019	750 m	bot 3
92	OXY	LB14	2023-019	500 m	bot 4
93	OXY	LB14	2023-019	400 m	bot 5
94	OXY	LB14	2023-019	300 m	bot 6
95	OXY	LB14	2023-019	250 m	bot 7
96	OXY	LB14	2023-019	200 m	bot 8
97	OXY	LB14	2023-019	175 m	bot 9
98	OXY	LB14	2023-019	150 m	bot 10
99A	OXY	LB14	2023-019	125 m	bot 11
99B	OXY	LB14	2023-019	125 m	bot 11
100	OXY	LB14	2023-019	100 m	bot 12
101	OXY	LB14	2023-019	75 m	bot 13
102	OXY	LB14	2023-019	50 m	bot 14
103	OXY	LB14	2023-019	30 m	bot 15
105	OXY	LB14	2023-019	20 m	bot 17
107	OXY	LB14	2023-019	10 m	bot 19
109	OXY	LB14	2023-019	5 m	bot 21



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Cruise and Analysis Information		Nisk ID	Nisk Int V	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:	2023-019	1		114	456	5.6	0.602		1					
Event:	37	2		115	170	5.7	0.342		2					
Station:	LC11	3		116	570	6.0	0.237		3					
Event Date (Local):	2023-05-18	4		117A	1119	6.3	0.267		4	117B	1114	6.5	0.264	
Analysis Date (Local):	18 May 2023	5		118	21	6.9	0.774		5					
Analyst:	KS	6		119	1126	-99	-99	-Niskin did not close.	6					
Stdization Date (Local):	17 May 2023	7		120	1158	7.7	1.627		7					
KIO ₃ N:	0.0117933	8		121	712	8.1	1.948		8					
Standard Titer:	0.47970	9		122	1123	8.3	2.105		9					
Blank Titer:	0.00049	10		123A	1141	8.5	2.338		10	123B	3194	8.6	2.344	
THIO N:	0.24593	11		124	2085	8.6	2.554		11					
Sample Flask Water Seal?	Yes	12		125	1023	8.9	2.846		12					
	No	13		126	1127	9.2	3.421		13					
Reagent Change?	MnCl ₂	14		127	1136	9.2	4.972		14					
(Please circle reagent that was changed prior to sampling and standardization)	Na ₂ /NaOH	15		128	2097	9.4	5.668		15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		129	3030	9.6	5.665		16					
	KIO ₃	17		130	967	11.9	6.380		17					
	THIO	18		131A	2040	12.7	7.862		18	131B	2014	12.7	7.849	
Notes:		19		132	1464	14.6	7.158		19					
		20							20					
		21							21					
		22							22					
		23							23					
		24							24					

Bruce Lee.xlsx

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

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:	2023-019		1		133	130	6.8	0.513		1					
Event:	42		2		134	923	7.1	0.883		2					
Station:	LC09		3		135	3032	7.4	1.194		3					
Event Date (Local):	2023-05-18		4	X	136	913	7.7	1.595		4					
Analysis Date (Local):	19 May 2023		5		137A	126	7.9	1.817		5	137B	1402	8.1	1.818	
Analyst:	KS		6							6					
Stdization Date (Local):	19 May 2023		7		139	3096	8.2	2.064		7					
KIO ₃ N:	0.0117933		8		140	3109	8.5	2.362		8					
Standard Titer:	0.49239		9							9					
Blank Titer:	0.00050		10		142	151	8.7	2.562		10					
THIO N:	0.23960		11		143	154	8.8	2.683		11					
Sample Flask Water Seal?	Yes		12		144	129	9.1	3.290		12					
	No		13		145A	575	9.1	4.386		13	145B	171	9.1	4.382	
Reagent Change?	MnCl ₂		14		146	903	9.4	5.558		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		148	20	12.3	6.908		16					
	KIO ₃		17		149	1192	10.6	7.501		17					
	THIO	2021 MAY	18							18					
Notes:			19		151	114	12.9	8.376		19					
			20							20					
			21		153	959	14.6	7.449		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.

133	OXY	LC09	2023-019	Bot-10 m	bot 1
134	OXY	LC09	2023-019	500 m	bot 2
135	OXY	LC09	2023-019	400 m	bot 3
136	OXY	LC09	2023-019	300 m	bot 4
13/A	OXY	LC09	2023-019	250 m	bot 5
13/B	OXY	LC09	2023-019	250 m	bot 5
139	OXY	LC09	2023-019	200 m	bot 7
140	OXY	LC09	2023-019	175 m	bot 8
142	OXY	LC09	2023-019	150 m	bot 10
143	OXY	LC09	2023-019	125 m	bot 11
144	OXY	LC09	2023-019	100 m	bot 12
145A	OXY	LC09	2023-019	75 m	bot 13
145B	OXY	LC09	2023-019	75 m	bot 13
146	OXY	LC09	2023-019	50 m	bot 14
148	OXY	LC09	2023-019	30 m	bot 16
149	OXY	LC09	2023-019	20 m	bot 17
151	OXY	LC09	2023-019	10 m	bot 19
153	OXY	LC09	2023-019	5 m	bot 21

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



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:	2023-019	1		157	2098	7.8	1.757		1					
Event:	47	2		158	3114	7.9	1.812		2					
Station:	LC08	3		159	904	8.2	2.297		3					
Event Date (Local):	2023-05-19	4		160	973	8.6	2.835		4					
Analysis Date (Local):	19 May 2023	5		161	196	9.0	3.482		5					
Analyst:	KS	6							6					
Stdization Date (Local):	19 May 2023	7		162	1346	9.1	4.898		7					
KIO ₃ N:	0.0117933	8		163A	3005	9.2	6.618		8	163B	118	9.2	6.621	
Standard Titer:	0.49239	9		164	169	9.3	5.815		9					
Blank Titer:	0.00050	10		165	3050	9.2 9.7	5.763		10					
THIO N:	0.23960	11		166	3044	9.9	7.992		11					
Sample Flask Water Seal?	☒ Yes ☐ No	12							12					
		13		168	941	12.4			13					
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization)	MnCl ₂	14		157	158	158	159		163A	163B	163B	164	165	168
	NaI/NaOH	15		OXY	OXY	OXY	OXY		OXY	OXY	OXY	OXY	OXY	OXY
	H ₂ SO ₄	16		LC08	LC08	LC08	LC08		LC08	LC08	LC08	LC08	LC08	LC08
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17		2023-019	2023-019	2023-019	2023-019		2023-019	2023-019	2023-019	2023-019	2023-019	2023-019
	THIO	18		Bot-10 m	175 m	150 m	125 m		50 m	50 m	20 m	30 m	10 m	5 m
		19		bot 1	bot 2	bot 3	bot 4		bot 8	bot 8	bot 10	bot 9	bot 11	bot 13
Notes:		20												
		21												
		22												
		23												
		24												

Chicken & Egg.xlsx

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

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:	2023-019		1		169	953	8.4	7.630		1					
Event:	SO		2		170	976	8.9	3.905		2					
Station:	LC06		3		171A	547	9.3	6.547		3	171B	3040	9.3	6.549	
Event Date (Local):	2023-05-19		4		172	1416	9.3	5.467		4					
Analysis Date (Local):	19 May 2023		5		173	971	9.6	5.683		5					
Analyst:	KS		6							6					
Stratization Date (Local):	19 May 2023		7							7					
KIO ₃ N:	0.0117933		8		175	658	11.1	8.213		8					
Standard Titer:	0.49239		9							9					
Blank Titer:	0.00050		10		177	168	13.8	8.346		10					
THIO N:	0.23960		11							11					
Sample Flask Water Seal?	Yes		12		169	170		171A		175		177			
Reagent Change?	MnCl ₂		13		OXY	OXY		OXY		OXY		OXY			
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH		14		LC06	LC06		LC06		LC06		LC06			
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄		15		2023-019	2023-019		2023-019		2023-019		2023-019			
	KIO ₃		16		Bot-10 m	75 m		50 m		10 m		5 m			
	THIO		17		bot 1	bot 2		bot 3		bot 4		bot 5			
			18												
			19												
			20												
			21												
			22												
			23												
			24												

Notes:

Chicken & Egg.xlsx

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

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:	2023-019	1		179	1314	9.0	4.143		1						
Event:	S3	2		180	3034	9.0	4.176		2						
Station:	LC04	3							3						
Event Date (Local):	2023-05-19	4		182	912	9.0	4.365		4						
Analysis Date (Local):	19 May 2023	5		183	3074	9.1	4.613		5						
Analyst:	KS	6							6						
Stdization Date (Local):	19 May 2023	7							7						
KIO ₃ N:	0.0117933	8		185	1429	9.1	4.772		8						
Standard Titer:	0.49239	9		186	1487	9.2	5.250		9						
Blank Titer:	0.00050	10							10						
THIO N:	0.23960	11		188A	3133	9.5	5.673		11	188B	178	9.5	5.676		
Sample Flask Water Seal?	Yes	12		189	981	10.1	6.767		12						
	No	13							13						
Reagent Change?	MnCl ₂	14		191	1491	10.9	8.261		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		193	921	13.2	9.127		16						
	KIO ₃	17		179		180	182	183	185	186	188A	188B	189	191	193
	THIO	18		OXY		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
		19		LC04		LC04	LC04	LC04	LC04	LC04	LC04	LC04	LC04	LC04	LC04
		20		2023-019		2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019
		21		Bot-10 m		150 m	125 m	100 m	75 m	50 m	30 m	30 m	20 m	10 m	5 m
		22		bot 1		bot 2	bot 4	bot 5	bot 8	bot 9	bot 11	bot 11	bot 12	bot 14	bot 16
		23													
		24													

Notes:

Humming Bird.xlsx

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.

Last Updated: December 2019

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Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



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:	2023-019		1		209	2043	9.0	4.326		1					
Event:	57		2		210	142	9.1	4.628		2					
Station:	LC01		3		211A	1489	9.2	5.132		3	211B	902	9.3	5.129	
Event Date (Local):	2023-05-19		4		212	159	9.3	5.447		4					
Analysis Date (Local):	19 May 2023		5		213	3104	9.4	5.498		5					
Analyst:	KS		6							6					
Stdization Date (Local):	19 May 2023		7		214	997	10.2	6.891		7					
KIO ₃ N:	0.0117933		8		215	3099	13.1	7.184		8					
Standard Titer:	0.49239		9							9					
Blank Titer:	0.00050		10	209		210				214		215			
THIO N:	0.23960		11	OXY		OXY				OXY		OXY			
Sample Flask Water Seal?	☒ Yes		12	LC01		LC01				LC01		LC01			
Reagent Change?	MnCl ₂		13	2023-019		2023-019				2023-019		2023-019			
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH		14	Bot-10 m		75 m				10 m		5 m			
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄		15	bot 1		bot 2				bot 7		bot 8			
	KIO ₃		16							16					
	THIO		17							17					
			18							18					
			19							19					
			20							20					
			21							21					
			22							22					
			23							23					
			24							24					

Notes:

Humming Bird.xlsx

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

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:	2023-019	1		217	164	9.4	5.506		1					
Event:	58	2		218	435	9.7	6.427		2					
Station:	LD01	3		219A	1338	11.8	6.709		3	219B	3117	11.9	6.720	
Event Date (Local):	2023-05-19	4		220	968	14.3	7.069		4					
Analysis Date (Local):	19 May 2023	5							5					
Analyst:	KS	6							6					
Stdization Date (Local):	19 May 2023	7							7					
KIO ₃ N:	0.011933	8							8					
Standard Titer:	0.49239	9							9					
Blank Titer:	0.00050	10							10					
THIO N:	0.23960	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		217		218	219A		19					
		20		OXY		OXY	OXY		20					
		21		LD01		LD01	LD01		21					
		22		2023-019		2023-019	2023-019		22					
		23		Bot-10 m		20 m	10 m		23					
		24		bot 1		bot 2	bot 3		24					
Mermaid.xlsx														

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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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:	2023-019	1		222	157	9.6	5.398		1					
Event:	59	2		223	963	9.6	5.429		2					
Station:	LD02	3		224A	1465	11.5	7.228		3	224B	905	11.5	7.215	
Event Date (Local):	2023-05-19	4		225	3180	11.8	8.218		4					
Analysis Date (Local):	19 May 2023	5		226	1326	14.3	7.404		5					
Analyst:	KS	6						222 OXY LD02 2023-019 Bot-10 m bot 1	223 OXY LD02 2023-019 30 m bot 2	224A OXY LD02 2023-019 20 m bot 3	224B OXY LD02 2023-019 20 m bot 3	225 OXY LD02 2023-019 10 m bot 4	226 OXY LD02 2023-019 5 m bot 5	
Stratization Date (Local):	19 May 2023	7												
KIO ₃ N:	0.0117433	8												
Standard Titer:	0.49239	9												
Blank Titer:	0.00050	10												
THIO N:	0.23960	11												
Sample Flask Water Seal?	Yes	12												
	No	13												
Reagent Change?	MnO ₂	14												
(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												
		19												
		20												
		21												
		22												
		23												
		24												

Notes:

Mermaid.xlsx

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
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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:	2023-019	1		227A	146	9.3	5.285		1	227B	3108	9.4	5.285	
Event:	63	2		228	942	9.3	5.304		2					
Station:	LD04	3		229	3127	9.6	6.165		3					
Event Date (Local):	2023-05-19	4		230	3095	10.1	8.086		4					
Analysis Date (Local):	19-May-23	5		231	150	12.7	7.869		5					
Analyst:	KS	6							6					
Stratization Date (Local):	19-May-23	7		227A	227B	227B	228	229	230	231				
KIO ₃ N:	0.117933	8		OXY	OXY	OXY	OXY	OXY	OXY	OXY				
Standard Titer:	0.49239	9		LD04	LD04	LD04	LD04	LD04	LD04	LD04				
Blank Titer:	0.00050	10		2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019				
THIO N:	0.23960	11		Bot-10 m	Bot-10 m	Bot-10 m	30 m	20 m	10 m	5 m				
Sample Flask Water Seal?	Yes	12		bot 1	bot 1	bot 1	bot 2	bot 3	bot 4	bot 5				
Reagent Change?	MnCl ₂	13												
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14												
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15												
	KIO ₃	16												
	THIO	17												
		18												
		19												
		20												
		21												
		22												
		23												
		24												
Notes:														
Mermaid.xlsx														

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Dissolved Oxygen Analysis Log Sheet
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 Water Properties Group



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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:	2023-019		1		232	1035	8.5	2.487		1					
Event:	65		2		233	926	8.6	2.659		2					
Station:	LD06		3		234	138	9.1	3.998		3					
Event Date (Local):	2023-05-19		4		235	920	9.5	6.649		4					
Analysis Date (Local):	19 May 2023		5		236	999	9.5	5.960		5					
Analyst:	KS		6		237	3067	9.7	6.769		6					
Stdization Date (Local):	19 May 2023		7		238	143	11.7	7.995		7					
KIO ₃ N:	0.0117933		8		239A	125	14.5	7.096		8	239B	112	14.5	7.095	
Standard Titer:	0.49239		9							9					
Blank Titer:	0.00050		10							10					
THIO N:	0.23960		11		232	233	234	235	236	237	238	239A	239B		
Sample Flask Water Seal?	Yes		12		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY		
	No		13		LD06	LD06	LD06	LD06	LD06	LD06	LD06	LD06	LD06		
Reagent Change?	MnCl ₂		14		2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019		
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH		15		Bot-10 m	100 m	75 m	50 m	30 m	20 m	10 m	5 m	5 m		
NOTE NEW BATCH IN LOG BOOK			16		bot 1	bot 2	bot 3	bot 4	bot 5	bot 6	bot 7	bot 8	bot 8		
			17												
			18												
			19												
			20												
			21												
			22												
			23												
			24												

Notes:

Mermaid.xlsx

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Dissolved Oxygen Analysis Log Sheet

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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:	2023-019		1		240	1316	6.5	0.324		1					
Event:	56 67		2		241	974	6.5	0.347		2					
Station:	L008 1808		3		242A	2015	7.0	0.788		3	242B	3072	7.1	0.799	
Event Date (Local):	2023-05-19		4		243	994	7.2	1.048		4					
Analysis Date (Local):	19 May 2023		5		244	970	7.6	1.449		5					
Analyst:	KS		6		245	140	7.7	1.689		6					
Stdization Date (Local):	19 May 2023		7		246	131	8.1	1.942		7					
KIO ₃ N:	0.0117933		8		247	1330	8.2	2.158		8					
Standard Titer:	0.49230		9		248	908	8.6	2.801		9					
Blank Titer:	0.00050		10		249	105	8.8	3.041		10					
THIO N:	0.23960		11		250	932	8.9	3.401		11					
Sample Flask Water Seal?	☒ Yes ☐ No		12		251	173	9.1	4.051		12					
Reagent Change?			13		252	1485	9.2	6.024		13					
(Please circle reagent that was changed prior to sampling and standardization)			14		253A	1424	10.3	7.010		14	253B	174	10.3	7.015	
NOTE NEW BATCH IN LOG BOOK			15		254	148	11.5	7.136		15					
			16		255	101	14.0	6.930		16					
			17		256	964	14.3	6.824		17					
			18							18					
			19							19					
			20							20					
			21							21					
			22							22					
			23							23					
			24							24					

Notes: Sin 105 on the labels are incorrect.
Moose.xlsx Sin is in fact L008.

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.

stn LD08 not LB08

240	OXY	LB08	2023-019	Bot-10 m	bot 1
241	OXY	LB08	2023-019	750 m	bot 2
242A	OXY	LB08	2023-019	500 m	bot 3
242B	OXY	LB08	2023-019	500 m	bot 3
243	OXY	LB08	2023-019	400 m	bot 4
244	OXY	LB08	2023-019	300 m	bot 5
245	OXY	LB08	2023-019	250 m	bot 6
246	OXY	LB08	2023-019	200 m	bot 7
247	OXY	LB08	2023-019	175 m	bot 8
248	OXY	LB08	2023-019	150 m	bot 9
249	OXY	LB08	2023-019	125 m	bot 10
250	OXY	LB08	2023-019	100 m	bot 11
251	OXY	LB08	2023-019	75 m	bot 12
252	OXY	LB08	2023-019	50 m	bot 13
253A	OXY	LB08	2023-019	30 m	bot 14
253B	OXY	LB08	2023-019	30 m	bot 14
254	OXY	LB08	2023-019	20 m	bot 15
255	OXY	LB08	2023-019	10 m	bot 16
256	OXY	LB08	2023-019	5 m	bot 17



Dissolved Oxygen Analysis Log Sheet
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Water Properties Group

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:	2023-019		1		259	164	5.0	0.967		1					
Event:	71		2		260	435	5.2	0.649	-late endpoint. OT ✓	2					
Station:	LD11		3		261	1338	5.5	0.370		3					
Event Date (Local):	2023-05-19		4		262	3117	5.8	0.237		4					
Analysis Date (Local):	20 May 2023		5		263A	968	6.2	0.750		5	263B	157	6.3	0.249	
Analyst:	KS		6		264	963	6.7	0.744		6					
Stdization Date (Local):	19 May 2023		7		265	1465	7.1	1.107		7					
KIO ₃ N:	0.0117933		8		266	905	7.6	1.674		8					
Standard Titer:	0.49230		9		267	3180	7.8	1.981		9					
Blank Titer:	0.00050		10		268A	1326	8.2	2.294		10	268B	146	8.3	2.305	
THIO N:	0.23960		11		269	3108	8.4	2.465		11					
Sample Flask Water Seal?	Yes		12		270	942	8.7	2.677		12					
	No		13		271	3127	8.9	2.941		13					
Reagent Change?	MnCl ₂		14		272	3095	9.2	3.618		14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH		15		273	150	9.5	5.713		15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄		16		274	1035	9.6	6.604		16					
	KIO ₃		17		275	926	10.1	7.048		17					
	THIO		18		276	138	10.7	7.261		18					
Notes:			19		277	920	11.4	7.611		19					
			20		278A	999	12.0	7.495		20	278B	3067	12.0	7.499	
Mermaid.xlsx			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.

259	OXY	LD11	2023-019	Bot-10 m	bot 1
260	OXY	LD11	2023-019	1500 m	bot 2
261	OXY	LD11	2023-019	1250 m	bot 3
262	OXY	LD11	2023-019	1000 m	bot 4
263A	OXY	LD11	2023-019	750 m	bot 5
263B	OXY	LD11	2023-019	750 m	bot 5
264	OXY	LD11	2023-019	500 m	bot 6
265	OXY	LD11	2023-019	400 m	bot 7
266	OXY	LD11	2023-019	300 m	bot 8
267	OXY	LD11	2023-019	250 m	bot 9
268A	OXY	LD11	2023-019	200 m	bot 10
268B	OXY	LD11	2023-019	200 m	bot 10
269	OXY	LD11	2023-019	175 m	bot 11
270	OXY	LD11	2023-019	150 m	bot 12
271	OXY	LD11	2023-019	125 m	bot 13
272	OXY	LD11	2023-019	100 m	bot 14
273	OXY	LD11	2023-019	75 m	bot 15
274	OXY	LD11	2023-019	50 m	bot 16
275	OXY	LD11	2023-019	30 m	bot 17
276	OXY	LD11	2023-019	20 m	bot 18
277	OXY	LD11	2023-019	10 m	bot 19
278A	OXY	LD11	2023-019	5 m	bot 20
278B	OXY	LD11	2023-019	5 m	bot 20



Dissolved Oxygen Analysis Log Sheet
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Water Properties Group

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:	2023-019			1		291	130	6.1	0.012	Must recal. Low O₂ mode Entered incorrect VLO₃ N.	1						
Event:	80			2		292	923	6.3	0.016		2						
Station:	LG06			3		293A	3032	6.9	0.067		3	293B	913	7.1	0.068	Low O ₂ mode	
Event Date (Local):	2023-05-20			4		294	126	7.3	0.102		4						
Analysis Date (Local):	20 May 2023			5		295	1402	7.7	0.161		5						
Analyst:	KS			6		296	3096	8.0	0.182		6						
Standardization Date (Local):	20 May 2023			7		297	3109	8.4	0.214		7						
KIO ₃ N:	0.001933			8		298	151	8.5	0.232		8						
Standard Titer:	0.49239			9		299	154	8.7	0.255		9						
Blank Titer:	0.00050			10		300	129	9.0	2.897		10						
THIO N:	0.23960			11		301	575	9.2	3.122	11							
Sample Flask Water Seal?	Yes			12		302	171	9.3	3.838	12							
	No			13		303	903	9.4	6.419	13							
Reagent Change?	MnCl ₂			14		304A	20	10.4	6.973	14	304B	1192	10.5	6.974			
(Please circle reagent that was changed prior to sampling and standardization)	NaOH			15		305	114	11.3	6.972	15							
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	2101		16						16							
	KIO ₃	2302		17		307	959	13.7	6.623	17							
	THIO			18						18							
Notes:	KIO ₃ N = 0.0120872			19		309	109	13.9	6.592	19							
	std liter = 0.50452			20						20							
	blt liter = 0.00031			21						21							
Snail.xlsx	thio N = 0.2396057			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.

291	OXY	LG06	2023-019	30t-10 m	bot 1
292	OXY	LG06	2023-019	750 m	bot 2
293A	OXY	LG06	2023-019	500 m	bot 3
293B	OXY	LG06	2023-019	500 m	bot 3
294	OXY	LG06	2023-019	400 m	bot 4
295	OXY	LG06	2023-019	300 m	bot 5
296	OXY	LG06	2023-019	250 m	bot 6
297	OXY	LG06	2023-019	200 m	bot 7
298	OXY	LG06	2023-019	175 m	bot 8
299	OXY	LG06	2023-019	150 m	bot 9
300	OXY	LG06	2023-019	125 m	bot 10
301	OXY	LG06	2023-019	100 m	bot 11
302	OXY	LG06	2023-019	75 m	bot 12
303	OXY	LG06	2023-019	50 m	bot 13
304A	OXY	LG06	2023-019	30 m	bot 14
304B	OXY	LG06	2023-019	30 m	bot 14

305	OXY	LG06	2023-019	20 m	bot 15
307	OXY	LG06	2023-019	10 m	bot 17
309	OXY	LG06	2023-019	5 m	bot 19

Dissolved Oxygen Analysis Log Sheet

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 Water Properties Group

Bring new clipboard
 Steve broke this one.



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:	2023-019	1		314	2098	8.3	2.120		1					
Event:	gl	2		315	3114	8.3	2.139		2					
Station:	LG04	3		316	904	9.1	3.716		3					
Event Date (Local):	2023-05-20	4		317	973	9.2	5.300		4					
Analysis Date (Local):	20 May 2023	5		318	196	9.5	6.159		5					
Analyst:	KS	6		319A	1346	9.9	6.223		6	319B	3005	9.9	6.221	
Stratization Date (Local):	20 May 2023	7		320	118	10	7.259		7					
KIO ₃ N:	0.0120872	8							8					
Standard Titer:	0.50452	9		322	169	12.9	7.464		9					
Blank Titer:	0.00031	10							10					
THIO N:	0.23957	11		324	3050	13.5	7.364		11					
Sample Flask Water Seal?	Yes	12							12					
Reagent Change?	MnO ₂	13		314	315	316	317	318	319A	319B	320	322	324	
(Please circle reagent that was changed prior to sampling and standardization)	NaOH	14		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	
NOTE NEW BATCH IN LOG BOOK		15		LG04	LG04	LG04	LG04	LG04	LG04	LG04	LG04	LG04	LG04	
		16		2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	
		17		Bot-10 m	125 m	100 m	75 m	50 m	30 m	30 m	20 m	10 m	5 m	
		18		bot 1	bot 2	bot 3	bot 4	bot 5	bot 6	bot 6	bot 7	bot 9	bot 11	
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

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:	2023-019	1		326	941	8.9	3.398			1					
Event:	85	2		327A	111	9.0	3.919			2	327B	953	9.0	3.919	
Station:	LG02	3		328	976	9.4	6.701			3					
Event Date (Local):	2023-05-20	4								4					
Analysis Date (Local):	20 May 2023	5		330	547	10.2	7.065			5					
Analyst:	KS	6								6					
Stdization Date (Local):	20 May 2023	7								7					
KIO ₃ N:	0.0120872	8		333	3040	11.3	7.242			8					
Standard Titer:	0.50452	9		334	1416	12.8	7.521			9					
Blank Titer:	0.00031	10								10					
THIO N:	0.23957	11								11					
Sample Flask Water Seal?	Yes	12		337	971	12.9	7.449			12					
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization)	MnCl ₂	13		326		327A	327B	328	330	333	334	337			
	NaI/NaOH	14		OXY		OXY	OXY	OXY	OXY	OXY	OXY	OXY			
	H ₂ SO ₄	15		LG02		LG02	LG02	LG02	LG02	LG02	LG02	LG02			
	NOTE NEW BATCH IN LOG BOOK	16		2023-019		2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019			
		17		Bot-10 m		75 m	75 m	50 m	30 m	20 m	10 m	5 m			
		18		bot 1		bot 2	bot 2	bot 3	bot 5	bot 8	bot 9	bot 12			
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

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:	2023-019	1		342	168	9.3	5.121		1					
Event:	87	2		343A	943	9.3	5.231		2	343B	145	9.3	5.237	
Station:	LG01	3		343	986	9.4	5.268	344	3					
Event Date (Local):	2023-05-20	4							4					
Analysis Date (Local):	20 May 2023	5							5					
Analyst:	KS	6		346	1493	11.5	7.156	347	6					
Stdization Date (Local):	20 May 2023	7		347	3090	12.1	7.137	348	7					
KIO ₃ N:	0.0120872	8							8					
Standard Titer:	0.50452	9							9					
Blank Titer:	0.00031	10		342	343A		343B		10					
THIO N:	0.13957	11		OXY	OXY		OXY		11					
Sample Flask Water Seal?	Yes	12		LG01	LG01		LG01		12					
Reagent Change?	MnCl ₂	13		2023-019	2023-019		2023-019		13					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14		Bot-10 m	30 m		30 m		14					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15		bot 1	bot 2		bot 2		15					
	KIO ₃	16							16					
	THIO	17							17					
		18							18					
		19							19					
		20							20					
		21							21					
		22							22					
		23							23					
		24							24					

Notes:

Chicken & Egg.xlsx

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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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:	2023-019		1		359	130	5.1	1.383	low O ₂ mode	1					
Event:	92		2		360A	923	5.4	0.639		2	360B	3032	5.6	0.639	
Station:	LBP7		3		361	913	5.8	0.351		3					
Event Date (Local):	2023-05-21		4		362	126	5.9	0.222		4					
Analysis Date (Local):	21 May 2023		5		363	1402	6.3	0.244		5					
Analyst:	KS		6		364	3096	6.7	0.705		6					
Standardization Date (Local):	20 May 2023		7		365	3109	7.1	1.123		7					
KIO ₃ N:	0.0120		8		366	151	7.5	1.537		8					
Standard Titer:	0.50452		9		367	154	7.8	1.787		9					
Blank Titer:	0.00031		10		368A	129	7.9	2.569		10	368B	575	7.9	2.569	
THIO N:	0.23957		11		369	171	8.1	2.660		11					
Sample Flask Water Seal?	Yes		12		370	903	8.5	2.555		12					
	No		13		371	20	8.7	2.696	Messy curve. OT ✓	13					
Reagent Change?	MnO ₂		14		372	1192	8.9	3.056		14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH		15		373	114	9.2	3.657		15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄		16		374	959	8.9	6.107		16					
	KIO ₃		17		375	109	9.8	6.888		17					
	THIO		18		376A	3033	12.5	6.750	- F.P. late due to a runaway curve. OT ✓	18	376B	152	12.5	6.745	
Notes:			19							19					
			20		378	3080	13.0	6.664		20					
			21							21					
			22		380	1059	13.1	6.656		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.

359	OXY	LBP7	2023-019	2000 m	bot 1	360A	OXY	LBP7	2023-019	1500 m	bot 2	360B	OXY	LBP7	2023-019	1500 m	bot 2	361	OXY	LBP7	2023-019	1250 m	bot 3	362	OXY	LBP7	2023-019	1000 m	bot 4	363	OXY	LBP7	2023-019	750 m	bot 5	364	OXY	LBP7	2023-019	500 m	bot 6	365	OXY	LBP7	2023-019	400 m	bot 7	366	OXY	LBP7	2023-019	300 m	bot 8	367	OXY	LBP7	2023-019	250 m	bot 9	368A	OXY	LBP7	2023-019	200 m	bot 10	368B	OXY	LBP7	2023-019	200 m	bot 10	369	OXY	LBP7	2023-019	175 m	bot 11	370	OXY	LBP7	2023-019	150 m	bot 12	371	OXY	LBP7	2023-019	125 m	bot 13	372	OXY	LBP7	2023-019	100 m	bot 14
373	OXY	LBP7	2023-019	75 m	bot 15	374	OXY	LBP7	2023-019	50 m	bot 16	375	OXY	LBP7	2023-019	30 m	bot 17	376A	OXY	LBP7	2023-019	20 m	bot 18	376B	OXY	LBP7	2023-019	20 m	bot 18	378	OXY	LBP7	2023-019	10 m	bot 20	380	OXY	LBP7	2023-019	5 m	bot 22																																																						

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



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:	2023-019	1		383	164	5.7	0.382	- stair-step curve. OT ✓	1					} low O ₂ mode	
Event:	95	2		384	435	5.7	0.375		2						
Station:	LBP5	3		385	1338	5.9	0.269		3						
Event Date (Local):	2023-05-21	4		386	3117	6.3	0.335		4						
Analysis Date (Local):	21 May 2023	5		387	968	6.8	0.831		5						
Analyst:	KS	6		388A	157	7.0	1.066		6	388B	963	7.1	1.059		
Stdization Date (Local):	20 May 2023	7		389	1465	7.2	1.310		7						
KIO ₃ N:	0.0120872	8		390	905	7.4	1.708		8						
Standard Titer:	0.50452	9		391	3180	7.7	2.062		9						
Blank Titer:	0.00031	10		392	1326	7.8	2.266		10						
THIO N:	0.23957	11		393	146	7.9	2.343		11						
Sample Flask Water Seal?	Yes	12		394	3108	8.0	2.553		12						
	No	13		395	942	8.3	2.969		13						
Reagent Change?	MnO ₂	14		396	3127	8.7	3.430		14						
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		397A	3095	9.1	5.274	- Messy curve. Ambiguous F.P. OT ✓	15	397B	150	9.1	5.292		
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		398	1035	9.3	5.969		16						
	KIO ₃	17		399	926	9.5	6.015		17						
	THIO	18							18						
Notes:		19		401	138	11.6	6.683		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.

Mermaid.xlsx

383	OXY	LBP5	2023-019	Bot-10 m	bot 1
384	OXY	LBP5	2023-019	1250 m	bot 2
385	OXY	LBP5	2023-019	1000 m	bot 3
386	OXY	LBP5	2023-019	750 m	bot 4
387	OXY	LBP5	2023-019	500 m	bot 5
388A	OXY	LBP5	2023-019	400 m	bot 6
388B	OXY	LBP5	2023-019	400 m	bot 6
389	OXY	LBP5	2023-019	300 m	bot 7
390	OXY	LBP5	2023-019	250 m	bot 8
391	OXY	LBP5	2023-019	200 m	bot 9
392	OXY	LBP5	2023-019	175 m	bot 10
393	OXY	LBP5	2023-019	150 m	bot 11
394	OXY	LBP5	2023-019	125 m	bot 12
395	OXY	LBP5	2023-019	100 m	bot 13
396	OXY	LBP5	2023-019	75 m	bot 14
397A	OXY	LBP5	2023-019	50 m	bot 15

397B	OXY	LBP5	2023-019	50 m	bot 15
398	OXY	LBP5	2023-019	30 m	bot 16
399	OXY	LBP5	2023-019	20 m	bot 17
401	OXY	LBP5	2023-019	10 m	bot 19

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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.
Bottle integrity:

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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:	2023-019		1		422	2098	4.5	1.335		1					
Event:	108		2		423	3114	4.9	0.675		2					
Station:	CS00		3		424	904	5.4	0.355	- messy curve near endpoint.	3					
Event Date (Local):	2023-05-22		4		425	973	5.6	0.252	OT ✓	4					
Analysis Date (Local):	22 May 2023		5		426A	196	6.0	0.275	- late F.P. OT	5	426B	1346	6.1	0.283	
Analyst:	KS		6		427	3005	6.3	0.643		6					
Stdization Date (Local):	22 May 2023		7		428	118	6.8	0.957		7					
KIO ₃ N:	0.0126872		8		429	169	7.1	1.381		8					
Standard Titer:	0.50418		9		430	3050	7.3	1.692		9					
Blank Titer:	0.00027		10		431	3044	7.6	2.316		10					
THIO N:	0.22968		11		432	941	7.8	2.518		11					
Sample Flask Water Seal?	Yes		12		433A	111	7.9	2.782		12	433B	953	8.0	2.778	
	No		13		434	976	8.2	2.972		13					
Reagent Change?	MnCl ₂	2223 MIX	14		435	547	8.0	4.045		14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH		15		436	3040	8.3	5.240		15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄		16		437	1416	8.7	6.290		16					
	KIO ₃		17		438	971	9.4	6.758		17					
	THIO		18		438A	658	11.3	6.779	4391A	18	438B	168	11.4	6.781	439B
Notes:			19							19					
			20		439	943	11.5	6.783	441	20					
Chicken & Egg.xlsx			21							21					
			22		441	145	11.5	6.786	443	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.

422 OXY CS00 2023-019 2000 m bot 1	423 OXY CS00 2023-019 1500 m bot 2	424 OXY CS00 2023-019 1250 m bot 3	425 OXY CS00 2023-019 1000 m bot 4	426A OXY CS00 2023-019 750 m bot 5	426B OXY CS00 2023-019 750 m bot 5	427 OXY CS00 2023-019 500 m bot 6	428 OXY CS00 2023-019 400 m bot 7	429 OXY CS00 2023-019 300 m bot 8	430 OXY CS00 2023-019 250 m bot 9	431 OXY CS00 2023-019 200 m bot 10	432 OXY CS00 2023-019 175 m bot 11	433A OXY CS00 2023-019 150 m bot 12	433B OXY CS00 2023-019 150 m bot 12	434 OXY CS00 2023-019 125 m bot 13	435 OXY CS00 2023-019 100 m bot 14
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436 OXY CS00 2023-019 75 m bot 15	437 OXY CS00 2023-019 50 m bot 16	438 OXY CS00 2023-019 30 m bot 17	439A OXY CS00 2023-019 20 m bot 18	439B OXY CS00 2023-019 20 m bot 18	441 OXY CS00 2023-019 10 m bot 20	443 OXY CS00 2023-019 5 m bot 22
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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:	2023-019			1		444	1314	4.3	1.316	9444 } sample numbers were duplicated. 9445 }	1						
Event:	114			2		445	3034	4.9	0.555		2						
Station:	CS02			3		446	912	5.4	0.368		3						
Event Date (Local):	2023-05-22			4		447	3074	5.2	0.262		4						
Analysis Date (Local):	22 May 2023			5		448A	1429	6.1	0.286	- Runaway curve. OT ✓	5	448B	1487	6.2	0.277		
Analyst:	KS			6		449	3133	6.5	0.783		6						
Stdization Date (Local):	22 May 2023			7		450	178	6.8	1.038		7						
KIO ₃ N:	0.0120872			8		451	981	7.3	1.323		8						
Standard Titer:	0.50418			9		452	1491	7.5	1.461								
Blank Titer:	0.00027			10		453	921	7.5	2.172								
THIO N:	0.23968			11		454	3116	7.8	1.959								
Sample Flask Water Seal?	Yes			12		455	3126	7.9	2.261								
	No			13		456A	185	8.1	2.308			456B	3148	8.1	2.306		
Reagent Change?	MnCl ₂			14		457	122	8.3	2.561								
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH			15		458	915	8.4	2.901								
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄			16		459	569	8.8	5.246								
	KIO ₃			17													
	THIO			18		461	1425	9.1	6.068								
Notes:				19		462A	557	10.8	7.021			462B	188	10.8	7.023		
				20													
				21		464	2043	12.4	6.781								
				22													
				23	X	466	142	12.4	6.779	leaky bottle. Vent was a bit loose.							
				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.

444	OXY	CS02	2023-019	30t-10 m	bot 1
445	OXY	CS02	2023-019	1500 m	bot 2
446	OXY	CS02	2023-019	1250 m	bot 3
447	OXY	CS02	2023-019	1000 m	bot 4
448A	OXY	CS02	2023-019	750 m	bot 5
448B	OXY	CS02	2023-019	750 m	bot 5
449	OXY	CS02	2023-019	500 m	bot 6
450	OXY	CS02	2023-019	400 m	bot 7
451	OXY	CS02	2023-019	300 m	bot 8
452	OXY	CS02	2023-019	250 m	bot 9
453	OXY	CS02	2023-019	200 m	bot 10
454	OXY	CS02	2023-019	175 m	bot 11
455	OXY	CS02	2023-019	150 m	bot 12
456A	OXY	CS02	2023-019	125 m	bot 13
456B	OXY	CS02	2023-019	125 m	bot 13
457	OXY	CS02	2023-019	100 m	bot 14
458	OXY	CS02	2023-019	75 m	bot 15
459	OXY	CS02	2023-019	50 m	bot 16
461	OXY	CS02	2023-019	30 m	bot 18
462A	OXY	CS02	2023-019	20 m	bot 19
462B	OXY	CS02	2023-019	20 m	bot 19
464	OXY	CS02	2023-019	10 m	bot 21
466	OXY	CS02	2023-019	5 m	bot 23

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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:	2023-019	2	1		468	2098	8.3	2.858	2 fixed mistakenly. 1 and 2 were swapped.	1					
Event:	120	1	2		469	3114	8.4	3.162		2					
Station:	CS04		3		470	904	8.6	4.015		3					
Event Date (Local):	2023-05-22		4		471	973	9.3	6.326		4					
Analysis Date (Local):	23 May 2023		5		472A	196	10.7	6.788		5	472B	1346	10.7	6.788	
Analyst:	KS		6							6					
Stdization Date (Local):	22 May 2023		7		474	3005	11.1	7.105		7					
KIO ₃ N:	0.0120872		8		475	118	11.1	7.101		8					
Standard Titer:	0.56418		9							9					
Blank Titer:	0.00027		10		477	169	11.1	7.103		10					
THIO N:	0.23968		11							11					
Sample Flask Water Seal?	Yes		12	468	OXY	OXY	469	OXY	470	471	472A	472B	474	OXY	477
Reagent Change?	MnCl ₂		13	CS04	CS04	CS04	CS04	CS04	CS04	CS04	CS04	CS04	CS04	OXY	OXY
(Please circle reagent that was changed prior to sampling and standardization)	NaOH		14	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄		15	Bot-5 m	Bot-10 m	Bot-10 m	Bot-10 m	75 m	50 m	30 m	30 m	30 m	20 m	5 m	5 m
	KIO ₃		16	bot 2	bot 1	bot 1	bot 1	bot 3	bot 4	bot 5	bot 5	bot 5	bot 7	bot 8	bot 10
	THIO		17												
			18												
			19												
			20												
			21												
			22												
			23												
			24												

Notes:

Chicken & Egg.xlsx

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	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:	2023-019	1		481	130	8.5	4747	runaway curve. OT ✓	1					
Event:	130	2		482	923	8.6	4870		2					
Station:	CS06	3		483A	3032	8.6	4884		3	483B	913	8.6	4851	
Event Date (Local):	2023-05-23	4		484	126	9.4	4851		4					
Analysis Date (Local):	23 May 2023	5		485	1402	10.0	6126		5					
Analyst:	KS	6							6					
Stdization Date (Local):	22 May 2023	7		487	3096	11.7	6951	7.392	7					
KIO ₃ N:	0.0120872	8							8					
Standard Titer:	0.50418	9		489	3109	11.8	7292	7.395	9					
Blank Titer:	0.00027	10							10					
THIO N:	0.23968	11		481	482	483A	483B	484	485	487	489			
Sample Flask Water Seal?	Yes	12	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY			
	No	13	CS06	CS06	CS06	CS06	CS06	CS06	CS06	CS06	CS06			
Reagent Change?	MnCl ₂	14	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019			
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15	Bot-5 m	Bot-10 m	50 m	50 m	50 m	30 m	20 m	10 m	5 m			
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16	bot 1	bot 2	bot 3	bot 3	bot 3	bot 4	bot 5	bot 7	bot 9			
	KIO ₃	17												
	THIO	18												
		19												
		20												
		21												
		22												
		23												
		24												

Notes:

Snail.xlsx

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:	2023-019	1		493	1314	7.6	1.753		1															
Event:	136	2		494	3034	7.6	1.756		2															
Station:	CS09	3		495	912	7.6	1.756		3															
Event Date (Local):	2023-05-23	4		496	3074	7.7	1.987		4															
Analysis Date (Local):	23 May 2023	5							5															
Analyst:	KS	6		498	1429	8.0	3.117		6															
Stdization Date (Local):	22 May 2023	7		499	1487	8.5	5.211		7															
KIO ₃ N:	0.0120872	8							8															
Standard Titer:	0.50418	9		501	3133	8.7	6.042		9															
Blank Titer:	0.00027	10		502A	178	9.0	6.328		10	502B	981	9.1	6.326											
THIO N:	0.23968	11							11															
Sample Flask Water Seal?	Yes	12		504	1491	9.3	6.507		12															
	No	13		505	921	11.1	7.086		13															
Reagent Change?	MnO 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		508	3116	11.9	7.212		16															
	KIO ₃	17							17															
	THIO	18							18															
Notes:		19		511	3126	11.9	7.160		19															
Humming Bird.xlsx		20	493	OXY	494	OXY	495	OXY	498	OXY	501	OXY	502A	OXY	503A	OXY	504	OXY	505	OXY	508	OXY	511	OXY
		21		CS09		CS09		CS09		CS09		CS09		CS09		CS09		CS09		CS09		CS09		CS09
		22	2023-019	Bot-5 m	2023-019	Bot-10 m	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	
		23					175 m	100 m	125 m	150 m	75 m	50 m	50 m	30 m	20 m	10 m	5 m							
		24	bot 1		bot 2		bot 3	bot 4	bot 6	bot 7	bot 9	bot 10	bot 10	bot 12	bot 13	bot 16	bot 19							

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

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

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Water Properties Group



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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:	2023-019	1		520	1314	8.7	5.634		1						
Event:	150	2		521	3034	8.7	5.695		2						
Station:	JS01	3		522	912	8.8	5.748		3						
Event Date (Local):	2023-05-24	4		523A	3074	8.8	5.684		4	523B	1429	8.8	5.686		
Analysis Date (Local):	24 May 2023	5		524	1487	8.8	5.712		5						
Analyst:	KS	6		525A	3133	9.0	5.837		6	525B	178	9.0	5.840		
Stdization Date (Local):	22 May 2023	7		526	981	9.1	5.990		7						
KIO ₃ N:	0.0120872	8		527	1491	9.1	6.050		8						
Standard Titer:	0.50418	9							9						
Blank Titer:	0.00027	10		529A	921	9.2	6.082		10	529B	3116	9.2	6.081		
THIO N:	0.23968	11							11						
Sample Flask Water Seal?	Yes	12		531	3126	9.3	6.132		12						
	No	13							13						
Reagent Change?	MnCl ₂	14		533	185	9.3	6.153		14						
(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	520	OXY	521	522	523A	523B	524	525A	525B	526	527	529A	529B
	KIO ₃	17	JS01	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
	THIO	18	2023-019	JS01	JS01	JS01	JS01	JS01	JS01	JS01	JS01	JS01	JS01	JS01	JS01
		19	Bot-5 m	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019
		20	bot 1	bot 1	bot 2	bot 3	bot 4	bot 4	bot 5	bot 6	bot 6	bot 7	bot 8	bot 10	bot 10
		21	531	533											
		22	OXY	OXY											
		23	JS01	JS01											
		24	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019	2023-019
			5 m	0 m											
			bot 12	bot 14											

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