

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:	2024-004	1		1	130									1					
Event:	1	2		2	923									2					
Station:	SI	3		3	3032									3					
Event Date (Local):	10-04-24	4		4A	913									4	4B	126			
Analysis Date (Local):	April 10	5		5	1402									5					
Analyst:	De	6		6	3096									6					
Stdization Date (Local):	April 10/24	7		7	3109									7					
KIO ₃ N:	0.0123493	8		8	151									8					
Standard Titer:	0.4964	9		9	154	0.1	5.879							9					
Blank Titer:	0.0004162	10		10A	129	10.1	6.278							10	10B	575	10.1	6.248	
THIO N:	0.248987	11		11	171	10.3	7.298							11					
Sample Flask Water Seal?	☒ Yes ☐ No	12		12	903	10.7	9.090							12					
Reagent Change?	MnCl ₂	13												13					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14												14					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15												15					
	KIO ₃	16												16					
	THIO	17												17					
Notes:		18												18					
Flasks were dirty w stir-bars.		19												19					
Snail.xlsx		20		9	10A	10B								20					
		21		OXY	OXY	OXY	11							21					
		22		SI	SI	SI	OXY							22					
		23		2024-004	2024-004	2024-004	SI							23					
		24		20 m	10 m	10 m	2024-004							24					
				bot 9	bot 10	bot 10	5 m												
							bot 11												
							bot 12												

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

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Cruise Number: 2024-004	1		17	1314	9.4	5.243		1					
Event: 5	2		18	3034	9.4	5.387		2					
Station: 59	3		19	912	9.4	5.182		3					
Event Date (Local): 10-04-24	4		20	3074	9.5	5.304		4					
Analysis Date (Local): April 11/24	5		21A	1429	9.4	5.340	Flask 1487	5	21B	1487	9.4	5.332	analyzed B first
Analyst: DL	6		22	3133	9.5	5.393		6					
Stdization Date (Local): April 10	7		23	178	9.5	5.480		7					
KIO ₃ N: 0.0123493	8		24	981	9.5	5.505		8					
Standard Titer: 0.496424	9		25	1491	9.5	5.512		9					
Blank Titer: 0.0004162	10		26A	921	9.5	5.581		10	26B	3116	9.5	5.583	
THIO N: 0.245987	11		27	3126	9.5	5.621		11					
Sample Flask Water Seal? ☒ Yes	12		28	185	9.5	5.646		12					
☐ No	13		29	3148	9.6	5.802		13					
Reagent Change? MnCl ₂	14		30	122	9.7	5.728		14					
(Please circle reagent that was changed prior to sampling and standardization)	15							15					
NOTE NEW BATCH IN LOG BOOK	16							16					
	17							17					
	18							18					
	19							19					
Notes:	20							20					
	21							21					
Humming Bird.xlsx	22							22					

17	18	19	20	21B	21A	22	23	24	25	26A	26B	27	28	29	30
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004
bot-5 m	200 m	175 m	150 m	125 m	125 m	100 m	75 m	50 m	40 m	30 m	30 m	20 m	10 m	5 m	0 m
bot 1	bot 2	bot 3	bot 4	bot 5	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 11	bot 12	bot 13	bot 14	bot 15

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Cruise Number:	2024-004	1	✓✓	32A	2098	8.1	1.881		1	32B	3114	8.1	1.882	← Niskin 1
Event:	7	2	✓✓	33	904	8.5	2.555		2					
Station:	102	3	✓✓	34	973	8.6	2.731		3					
Event Date (Local):	11-04-24	4	✓✓	35	196	8.7	3.091		4					
Analysis Date (Local):	April 11, 24	5	✓✓	36	1346	8.8	3.435		5					
Analyst:	DL	6	✓✓	37	3005	9.3	5.001		6					
Stdization Date (Local):	April 10	7	✓✓	38	118	9.3	5.388		7					
KIO ₃ N:	0.0118937	8	✓✓	39	169	9.3	5.387		8					
Standard Titer:	0.496424	9	✓✓	40	3050	9.3	5.962		9					
Blank Titer:	0.0004162	10	✓✓	41A	3044	9.6	7.499		10	41B	941	9.6	7.508	
THIO N:	0.248987	11	✓✓	42	111	9.7	8.302		11					
Sample Flask Water Seal?	☒ Yes	12	✓✓	43	953			Niskin did not trip	12					
	☐ No	13	✓✓	44	976	9.7			13					
Reagent Change?	MnCl ₂	14							14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		44	547			Niskin did not trip	15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16							16					
	KIO ₃	17							17					
	THIO	18							18					
Notes:		19							19					
		20							20					
		21							21					
		22							22					

Chicken & Eqg.xlsx	33	34	35	36	37	38	39	40	41A	41B	42	44
	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
102	102	102	102	102	102	102	102	102	102	102	102	102
2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004
252 m	252 m	150 m	125 m	100 m	75 m	40 m	30 m	20 m	10 m	10 m	5 m	0 m
bot 1	bot 1	bot 2	bot 3	bot 4	bot 5	bot 6	bot 8	bot 9	bot 10	bot 10	bot 11	bot 13

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Cruise Number:	2024-004	1		45A	1316	8.2	2.202		1	48B	974	8.2	2.203	
Event:	10	2		46	2015	8.1	2.200		2					
Station:	75	3		47	3072	8.1	2.196		3					
Event Date (Local):	11-04-24	4		48	994	8.2	2.263		4					
Analysis Date (Local):	Apr. 12	5		49	970	8.4	2.512		5					
Analyst:	DL	6		50	140	9.0	3.563		6					
Stdization Date (Local):	Apr. 12	7		51	131	9.2	4.321		7					
KIO ₃ N:	0.0118937	8		52A	1330	9.4	5.065		8	55B	908	9.4	5.065	
Standard Titer:	0.4965675	9		53	105	9.5	5.350		9					
Blank Titer:	0.0002878	10		54	932	9.5	5.813		10					
THIO N:	0.23961	11		55	173	9.7	6.137		11					
Sample Flask Water Seal?	Yes	12		56	1485	9.8	6.656		12					
	No	13		57	1424	9.8	6.775		13					
Reagent Change?	MnCl ₂	14		58	174	9.8	6.771		14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15							15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16							16					
	KIO ₃	17							17					
	THIO	18							18					
Notes:		19							19					
		20							20					
		21							21					
		22							22					

Moose.xlsx

45A	45B	46	47	48	49	50	51	52A	52B	53	54	55	56	57	58
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75
2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004
bot-5 m	bot-5 m	200 m	175 m	150 m	125 m	100 m	75 m	50 m	50 m	40 m	30 m	20 m	10 m	5 m	0 m
bot 1	bot 1	bot 2	bot 3	bot 4	bot 5	bot 6	bot 7	bot 8	bot 8	bot 9	bot 10	bot 11	bot 12	bot 13	bot 14

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Cruise Number: 2024-004	1		59	1314	8.3	2.328		1					
Event: 15	2		60	3034	8.3	2.323		2					
Station: 72	3		61	912	8.3	2.356		3					
Event Date (Local): 11-04-24	4		62A	3074	8.4	2.426		4	62B	1429	8.4	2.424	
Analysis Date (Local): Apr 12/24	5		63	1487	8.9	3.182		5					
Analyst: DL	6		64A	3133	9.1	3.884		6	64B	178	9.1	4.017	
Stdization Date (Local): Apr 12	7		65	981	9.4	4.828		7					
KIO ₃ N: 0.0118937	8		66	1491	9.4	4.890		8					
Standard Titer: 0.4965675	9		67	921	9.5	4.995		9					
Blank Titer: 0.6002878	10		68	3116	9.5	5.126		10					
THIO N: 0.23961	11		69	3126	9.7	5.939		11					
Sample Flask Water Seal? ☒ Yes	12		70	185	9.8	6.419		12					
☐ No	13		71	3148	9.8	6.489		13					
Reagent Change? MnCl ₂	14							14					
(Please circle reagent that was changed prior to sampling and standardization)	15							15					
NOTE NEW BATCH IN LOG BOOK	16							16					
	17							17					
	18							18					
	19							19					
Notes:	20							20					
	21							21					
	22							22					

59	60	61	62A	62B	63	64A	64B	65	66	67	68	69	70	71
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
72	72	72	72	72	72	72	72	72	72	72	72	72	72	72
2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004
bot-5 m	175 m	150 m	125 m	125 m	100 m	75 m	75 m	50 m	40 m	30 m	20 m	10 m	5 m	0 m
bot 1	bot 2	bot 3	bot 4	bot 4	bot 5	bot 6	bot 6	bot 7	bot 8	bot 9	bot 10	bot 11	bot 12	bot 13

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Cruise Number:	2024-004						1		73	915				no sample	1					
Event:	18 1						2		74	569	8.5	2.586	2							
Station:	69						3		75	1425	8.5	2.574	3							
Event Date (Local):	11-04-24						4		76A	557	8.9	3.129	4		76B	188	8.8	3.137		
Analysis Date (Local):	April 12/24						5		77	2043	9.1	3.761		5						
Analyst:	de						6		78	142	9.2	4.137		6						
Stdization Date (Local):	April 12						7		79	1489	9.3	4.808		7						
KIO ₃ N:	0.0118937						8		80	902	9.4	4.948		8						
Standard Titer:	0.4965675						9		81	159	9.5	5.414		9						
Blank Titer:	0.0002878						10		82A	3104	9.6	6.145	Accidentally closed program	10	82B	997	9.6	6.140		
THIO N:	0.23961						11		83	3099	9.7	6.275		11						
Sample Flask Water Seal?	☒ Yes No						12		84	952	9.7	6.378		12						
Reagent Change?	MnCl ₂						13							13						
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH						14							14						
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄						15							15						
	KIO ₃						16							16						
	THIO						17							17						
Notes:							18							18						
							19							19						
							20							20						
Humming Bird.xlsx							21							21						
							22							22						
							23													

74	75	76A	76B	77	78	79	80	81	82A	82B	83	84
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
69	69	69	69	69	69	69	69	69	69	69	69	69
2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004
150 m	125 m	100 m	100 m	75 m	50 m	40 m	30 m	20 m	10 m	10 m	5 m	0 m
bot 1	bot 3	bot 4	bot 4	bot 5	bot 6	bot 7						

nents column.

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Cruise Number:	2024-004	1	/	85	101	8.9	3.423		1					
Event:	21	2		86	964	9.1	3.913		2					
Station:	adcp	3		87	458	9.2	4.457		3					
Event Date (Local):	11-04-24	4		88	3046	9.3	4.964		4					
Analysis Date (Local):	Apr 12/24	5		89	133	9.4	5.026		5					
Analyst:	PC	6		90A	914	9.4	5.058		6	90B	3134			
Stdization Date (Local):	Apr 12/24	7		91	1300	9.4	5.080	9.5 in comp.	7					
KIO ₃ N:	0.0118937	8		92	927	9.5	5.322		8					
Standard Titer:	0.4965675	9	/	93	107	9.5	5.369		9					
Blank Titer:	0.0002878	10	/	94	931	9.5	5.379		10					
THIO N:	0.23961	11							11					
Sample Flask Water Seal?	Yes	12							12					
	No	13							13					
Reagent Change?	MnCl ₂	14							14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15							15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16							16					
	KIO ₃	17							17					
	THIO	18							18					
Notes:		19							19					
	No dup.	20							20					
Moose.xlsx		21							21					
		22							22					
		23							23					
		24							24					

85
OXY
adcp
2024-004
bot-5 m
bot 1

86
OXY
adcp
2024-004
100 m
bot 2

87
OXY
adcp
2024-004
75 m
bot 3

88
OXY
adcp
2024-004
50 m
bot 4

89
OXY
adcp
2024-004
40 m
bot 5

90
OXY
adcp
2024-004
30 m
bot 6

91
OXY
adcp
2024-004
20 m
bot 7

92
OXY
adcp
2024-004
10 m
bot 8

93
OXY
adcp
2024-004
5 m
bot 9

94
OXY
adcp
2024-004
0 m
bot 10

egrity check and explain this in the comments column.

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Cruise Number:	2024-004	1	✓✓	96	1314	9.1	4.018		1					
Event:	25	2	✓✓	97	3034	9.2	4.239		2					
Station:	65	3	✓✓	98A	912	9.3	4.463		3	98B	3074	9.3	4.455	
Event Date (Local):	12-04-24	4	✓✓	99	1429	9.5	4.950		4					
Analysis Date (Local):	Apr. 12/24	5	✓✓	100	1487	9.5	4.983		5					
Analyst:	DL	6	✓✓	101	3133	9.6	5.179		6					
Stdization Date (Local):	Apr. 12	7	✓✓	102	178	9.6	5.364		7					
KIO ₃ N:	0.0118939	8	✓✓	103	981	9.7	5.687		8					
Standard Titer:	0.4965675	9	✓✓	104	1491	9.7	5.732		9					
Blank Titer:	0.0002878	10	✓✓	105	921	9.7	5.772		10					
THIO N:	0.23961	11							11					
Sample Flask Water Seal?	Yes	12							12					
	No	13							13					
Reagent Change?	MnCl ₂	14							14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15							15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16							16					
	KIO ₃	17							17					
	THIO	18							18					
Notes:		19							19					
		20							20					
		21							21					

96	97	98A	98B	99	100	101	102	103	104	105
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
65	65	65	65	65	65	65	65	65	65	65
2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004
bot-5 m	100 m	75 m	75 m	50 m	40 m	30 m	20 m	10 m	5 m	0 m
bot 1	bot 2	bot 3	bot 3	bot 4	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10

egrity check and explain this in the comments column.

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Cruise Number: 2024-004	1		110	1316	9.4	4.401		1					
Event: 29	2		111	974	9.4	4.625		2					
Station: 62	3		112	2015	9.5	4.682		3					
Event Date (Local): 12-04-24	4		113A	3072	9.5	5.060		4	113B	994	9.5	5.060	
Analysis Date (Local): Apr 13/24	5		114	970	9.6	5.262		5					
Analyst: DC	6		115	140	9.7	5.398		6					
Stdization Date (Local): Apr 12/24	7		116	131	9.7	5.446		7					
KIO ₃ N: 0.0418937	8		117	1330	9.7	5.502		8					
Standard Titer: 0.4965675	9		118	908	9.8	5.531		9					
Blank Titer: 0.0002878	10		119	105	9.9	5.581		10					
THIO N: 0.23961	11	X X	120	932	10.1	5.587	leaky bottom valve	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					
NOTE NEW BATCH IN LOG BOOK	16							16					
	17							17					
	18							18					
Notes:	19							19					
	20							20					
Moose.xlsx	21							21					
	22												

110	111	112	113A	113B	114	115	116	117	118	119	120
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
62	62	62	62	62	62	62	62	62	62	62	62
2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004
bot-5 m	125 m	100 m	75 m	75 m	50 m	40 m	30 m	20 m	10 m	5 m	0 m
bot 1	bot 2	bot 3	bot 4	bot 4	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 11

k and explain this in the comments column.

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Cruise and Analysis Information							OXY-1 Comments					OXY-2 Comments				
							Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)					
Cruise Number: 2024-004							1									
Event: 43							2	137B	912	9.7	5.382					
Station: 46							3									
Event Date (Local): 12-04-24							4									
Analysis Date (Local): Apr. 13/24							5									
Analyst: DL							6									
Stdization Date (Local): Apr 12							7									
KIO ₃ N: 0.0118937							8	143B	1491	9.7	5.890					
Standard Titer: 0.4965							9									
Blank Titer: 0.0007878							10									
THIO N: 0.23961							11									
Sample Flask Water Seal? Yes							12									
Reagent Change? MnCl ₂							13									
(Please circle reagent that was changed prior to sampling and standardization)							14									
NOTE NEW BATCH IN LOG BOOK							15									
							16									
							17									
							18									
Notes:							19									
							20									
							21									
							22									

136	137A	137B	138	139	140	141	142	143A	143B	144	145	146	147
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
46	46	46	46	46	46	46	46	46	46	46	46	46	46
2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004
bot-5 m	150 m	150 m	125 m	100 m	75 m	50 m	40 m	30 m	30 m	20 m	10 m	5 m	0 m
bot 1	bot 2	bot 2	bot 3	bot 4	bot 5	bot 6	bot 7	bot 8	bot 8	bot 9	bot 10	bot 11	bot 12

Comments column.

Dissolved Oxygen Analysis Log Sheet
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Water Properties Group



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well mixed

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:	2024-004	1	X	121	173	9.9	5.547						1					
Event:	36 2	2		122	1485	9.8	5.571	over titrate					2					
Station:	56	3		123	1424	9.8	5.537						3					
Event Date (Local):	12-04-24	4		124A	174	9.7	5.555						4	124B	148	9.7	5.539	
Analysis Date (Local):	Apr. 13/24	5		125	101	9.8	5.553						5					
Analyst:	De	6		126	964		5.563						6					
Stdization Date (Local):	Apr. 12	7		127	458		5.580						7					
KIO ₃ N:	0.0118937	8		128	3046		5.578						8					
Standard Titer:	0.4965675	9		129A	133		5.572						9	129B	914	9.7	5.569	
Blank Titer:	0.0002878	10		130	3134		5.579						10					
THIO N:	0.23961	11		131	1300		5.580						11					
Sample Flask Water Seal?	Yes	12		132	927	9.7	5.590						12					
	No	13		133	107	9.7	5.613						13					
Reagent Change?	MnCl ₂	14		134	931	9.9	5.619						14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		133	134								15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		OXY	OXY								16					
	KIO ₃	17		56	56								17					
	THIO	18		2024-004	2024-004								18					
Notes:		19		5 m	0 m								19					
		20		bot 13	bot 14								20					
		21											21					

Moose.xlsx

121

OXY

56

2024-004

bot-5 m

bot 1

122

OXY

56

2024-004

200 m

bot 2

123

OXY

56

2024-004

175 m

bot 3

124B

OXY

56

2024-004

150 m

bot 4

124A

OXY

56

2024-004

150 m

bot 4

125

OXY

56

2024-004

125 m

bot 5

126

OXY

56

2024-004

100 m

bot 6

127

OXY

56

2024-004

75 m

bot 7

128

OXY

56

2024-004

50 m

bot 8

129A

OXY

56

2024-004

40 m

bot 9

129B

OXY

56

2024-004

40 m

bot 9

130

OXY

56

2024-004

30 m

bot 10

131

OXY

56

2024-004

20 m

bot 11

132

OXY

56

2024-004

10 m

bot 12

Dissolved Oxygen Analysis Log Sheet
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Form with columns: 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. Includes handwritten data for samples 148-163 and 156B-161B.

Table with 12 columns (148-161A) and 4 rows (OXY, 42, 2024-004, bot). Contains handwritten data for each sample including depth and bottle number.

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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: 2024-004	1		165	2098	10.4	2.693		1					
Event: 54	2		166	3114	10.3	2.723		2					
Station: 39	3		167A	904	10.4	2.896		3	167B	973	10.5	2.891	OT
Event Date (Local): 13-04-24	4		168	196	10.2	3.111		4					
Analysis Date (Local): Apr. 14/24	5		169	1346	10.2	3.447		5					
Analyst: DL	6		170	3005	10.1	3.691		6					
Stdization Date (Local): Apr. 14/24	7		171	118	9.9	4.182		7					
KIO ₃ N: 0.0118937	8		172	169	9.8	4.597		8					
Standard Titer: 0.4962999	9		173	3050	9.7	5.012	finish/OT screen gone 2.420V	9					
Blank Titer: 0.0003133	10		174	3044	9.7		← comp. Glitch. Restart 0.5712m	10					
THIO N: 0.23969	11		175	941	9.6	8.024		11					
Sample Flask Water Seal? ☒ Yes	12		176	111	9.5	4.976		12					
☐ No	13		177A	953	9.7	5.376		13	177B	976	9.7	5.379	
Reagent Change? ☒ MnCl ₂	14		178	547	10.2	6.390		14					
(Please circle reagent that was changed prior to sampling and standardization)	15		179	3040	10.5	6.743		15					
NOTE NEW BATCH IN LOG BOOK	16		180	1416	10.6	6.807		16					
	17		181	971	10.8	6.813		17					
	18							18					
Notes:	19							19					
	20							20					
	21							21					

165	166	167A	167B	168	169	170	171	172	173	174	175	176	177A	177B	178
OXY	OXY	OXY	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	39	39	39
2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004
bot-5 m	350 m	300 m	300 m	250 m	200 m	175 m	150 m	125 m	100 m	75 m	50 m	40 m	30 m	30 m	20 m
bot 1	bot 2	bot 3	bot 3	bot 4	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 11	bot 12	bot 13	bot 13	bot 14

179

OXY

39

2024-004

10 m

bot 15

180

OXY

39

2024-004

5 m

bot 16

181

OXY

39

2024-004

0 m

bot 17

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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:	2024-004	1		190	1316	10.5	2.667		1					
Event:	61	2		191	974	10.4	2.760		2					
Station:	27	3		192	2015	10.4	2.949		3					
Event Date (Local):	13-04-24	4		193A	3072	10.3	3.380		4	193B	994	10.3	3.473	OT Ran First
Analysis Date (Local):	Apr. 14/24	5		194	970	10.2	3.721		5					
Analyst:	De	6		195	140	9.7	4.297		6					
Stdization Date (Local):	Apr. 14	7		196	131	9.8	4.538		7					
KIO ₃ N:	0.0118937	8		197	1330	9.7	4.540		8					
Standard Titer:	0.496299	9		198	908	9.6	4.690		9					
Blank Titer:	0.0003133	10		199	105	9.5	4.704		10					
THIO N:	0.23969	11		200	932	9.5	4.961		11					
Sample Flask Water Seal?	Yes	12		201	173	9.5	5.250		12					
	No	13		202A	1485	9.9	6.396		13	202B	1424	9.9	6.411	OT
Reagent Change?	MnCl ₂	14		203	174	10.4	7.938		14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		204	148	10.7	8.444		15					
	H ₂ SO ₄	16		205	101	10.0	8.339		16					
NOTE NEW BATCH IN LOG BOOK	KIO ₃								17					
	THIO								18					
Notes:									19					
									20					
									21					

190	191	192	193B	193A	194	195	196	197	198	199	200	201	202A	202B	203
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004
bot-5 m	300 m	250 m	200 m	200 m	175 m	150 m	125 m	100 m	75 m	50 m	40 m	30 m	20 m	20 m	10 m
bot 1	bot 2	bot 3	bot 4	bot 4	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 11	bot 12	bot 13	bot 13	bot 14

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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: 2024-004	1		207	1314	10.2	2.703		1					
Event: 69	2		208	3034	10.2	2.699		2					
Station: 2	3		209	912	10.1	3.392		3					
Event Date (Local): 13-04-24	4		210A	3074	10.1	3.459		4	210B	1429	10.1	3.454	
Analysis Date (Local): Apr. 14/24	5		211	1487	10	3.720		5					
Analyst: De	6		212	3133	9.8	4.313		6					
Stdization Date (Local): Apr. 14	7		213	178	9.5	4.681		7					
KIO ₃ N: 0.0118937	8		214	981	9.6	4.506		8					
Standard Titer: 0.4962999	9		215	1491	9.6	4.797		9					
Blank Titer: 0.0003133	10		216	921	9.6	5.210		10					
THIO N: 0.23969	11		217A	3116	9.6	5.720		11	217B	3126	9.6	5.713	
Sample Flask Water Seal? ☒ Yes	12		218	185	9.7	6.043		12					
☐ No	13		219	3148	9.9	6.492		13					
Reagent Change? ☒ MnCl ₂	14		220	122	10.1	7.114		14					
(Please circle reagent that was changed prior to sampling and standardization)	15		221	915	10.3	7.671		15					221
NOTE NEW BATCH IN LOG BOOK	16							16					OXY
	17							17					2
	18							18					2024-004
	19							19					0 m
Notes:	20							20					bot 15
	21							21					
Humming Bird.xlsx													

207	208	210A	209	210B	211	212	213	214	215	216	217A	217B	218	219	220
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004
bot-5 m	250 m	175 m	200 m	175 m	150 m	125 m	100 m	75 m	50 m	40 m	30 m	30 m	20 m	10 m	5 m
bot 1	bot 2	bot 4	bot 3	bot 4	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 11	bot 11	bot 12	bot 13	bot 14

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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:	2024-004	1		239	1316	9.9	3.348		1					
Event:	74	2		240	974	9.9	3.544		2					
Station:	6	3		241A	2015	9.8		forgot stirbar OT did not work	3	241B	3072	9.7	3.694	corrected first
Event Date (Local):	14-04-24	4		242	994	9.7	3.943		4					
Analysis Date (Local):	Apr. 14 / 24	5		243	970	9.5	4.064		5					
Analyst:	DL	6		244	140	9.5	4.397		6					
Stdization Date (Local):	Apr. 14	7		245	131	9.5	4.826		7					
KIO ₃ N:	0.0118937	8		246A	1330	9.5	5.135		8	246B	908	9.5	5.132	
Standard Titer:	0.4962999	9		247	105	9.5	5.400		9					
Blank Titer:	0.0003133	10		248	932	9.5	5.587		10					
THIO N:	0.23969	11		249	173	9.9	6.369		11					
Sample Flask Water Seal?	Yes	12		250	1485	10.1	6.438		12					
	No	13		251	1424	10.3	6.443		13					
Reagent Change?	MnCl ₂	14							14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15							15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16							16					
	KIO ₃	17							17					
	THIO	18							18					
Notes:		19							19					
Danielle was high on Gravol		20							20					
Moose.xlsx		21							21					

239	240	241A	241B	242	243	244	245	246A	246B	247	248	249	250	251
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004
bot-5 m	175 m	150 m	150 m	125 m	100 m	75 m	50 m	40 m	40 m	30 m	20 m	10 m	5 m	0 m
bot 1	bot 2	bot 3	bot 3	bot 4	bot 5	bot 6	bot 7	bot 8	bot 8	bot 9	bot 10	bot 11	bot 12	bot 13

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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:	2024-004	1		252	1314	9.9	3.202						1					
Event:	76	2		253	3034	9.9	3.598						2					
Station:	9	3		254	912	9.7	3.945						3					
Event Date (Local):	14-04-24	4		255	3074	9.7	4.030						4					
Analysis Date (Local):	Apr. 14 2024	5		256A	1429	9.8	4.514						5	256B	1487	9.7	4.511	
Analyst:	DL	6		257	3133	9.7	5.223						6					
Stdization Date (Local):	Apr. 14	7		258	178	9.6	5.652						7					
KIO ₃ N:	0.0118937	8		259	981	9.8	6.467						8					
Standard Titer:	0.4962999	9		260	1491	9.9	6.582						9					
Blank Titer:	0.0003133	10		261A	921	10.1	6.635						10	261B	3116	10.0	6.632	
THIO N:	0.23969	11		262	3126	10.1	6.632						11					
Sample Flask Water Seal?	Yes	12		263	185	8.3	6.631						12					
	No	13											13					
Reagent Change?	MnCl ₂	14											14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15											15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16											16					
	KIO ₃	17											17					
	THIO	18											18					
Notes:		19											19					
		20											20					
		21											21					
		22											22					

Humming Bird.xlsx

252
OXY
9
2024-004
bot-5 m
bot 1

253
OXY
9
2024-004
150 m
bot 2

254
OXY
9
2024-004
125 m
bot 3

255
OXY
9
2024-004
100 m
bot 4

256A
OXY
9
2024-004
75 m
bot 5

256B
OXY
9
2024-004
75 m
bot 5

257
OXY
9
2024-004
50 m
bot 6

258
OXY
9
2024-004
40 m
bot 7

259
OXY
9
2024-004
30 m
bot 8

260
OXY
9
2024-004
20 m
bot 9

261A
OXY
9
2024-004
10 m
bot 10

261B
OXY
9
2024-004
10 m
bot 10

262
OXY
9
2024-004
5 m
bot 11

263
OXY
9
2024-004
0 m
bot 12

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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:	2024-004	1	X	264	1316	10.0	2.603		1					
Event:	81	2		265	974	10.6	2.902		2					
Station:	12	3		266	2015	10.6	3.249		3					
Event Date (Local):	14-04-24	4		267	3072	10.4	3.637		4					
Analysis Date (Local):	Apr 15/24	5		268A	994	10.3	3.777		5	268B	970	10.3	3.770	
Analyst:	DL	6		269	140	10.1	3.970		6					
Stdization Date (Local):	Apr 14	7		270	131	9.9	4.278		7					
KIO ₃ N:	0.0118937	8		271	1330	9.9	4.149		8					
Standard Titer:	0.4962999	9		272	908	9.0	4.295		9					
Blank Titer:	0.0003133	10		273	105	9.6	4.783		10					
THIO N:	0.23969	11		274	932	9.7	5.102		11					
Sample Flask Water Seal?	Yes	12		275	173	9.5	5.933		12					
	No	13		276	1485	10.0	6.223		13					
Reagent Change?	MnCl ₂	14		277A	1424	10.1	6.439		14	277B	174	10.1	6.349	
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		278	148	10.5	6.504		15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		279	101	11.0	6.593		16					
	KIO ₃	17							17					
	THIO	18							18					
Notes:		19							19					
		20							20					
		21							21					
		22							22					

264	265	266	267	268A	268B	269	270	271	272	273	274	275	276	277A
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004
bot-5 m	300 m	250 m	200 m	175 m	175 m	150 m	125 m	100 m	75 m	50 m	40 m	30 m	20 m	10 m
bot 1	bot 2	bot 3	bot 4	bot 5	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 11	bot 12	bot 13	bot 14

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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:	2024-004	1	✓	281	1314	10.5	3.433	OT	1					
Event:	82	2		282	3034	10.4	3.526		2					
Station:	16	3		283	912	10.4	3.675		3					
Event Date (Local):	14-04-24	4		284A	3074	10.3	4.072		4	284B	1429	10.3	4.070	
Analysis Date (Local):	Apr 15/24	5		285	1487	10.3	4.683		5					
Analyst:	De	6		286	3133	10.3	4.908		6					
Stdization Date (Local):	Apr 14	7		287	178	10.3	5.027		7					
KIO ₃ N:	0.0118937	8		288	981	10.4	5.521		8					
Standard Titer:	0.4962999	9		289	1491	10.5	5.996		9					
Blank Titer:	0.0003133	10		290	921	10.7	6.584		10					
THIO N:	0.23969	11		291	3116	11.2	6.651		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					
	H ₂ SO ₄	16							16					
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17							17					
	THIO	18							18					
Notes:		19							19					
		20							20					
		21							21					

Humming Bird.xlsx

281	282	283	284A	284B	285	286	287	288	289	290	291
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
16	16	16	16	16	16	16	16	16	16	16	16
2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004
bot-5 m	125 m	100 m	75 m	75 m	50 m	40 m	30 m	20 m	10 m	5 m	0 m
bot 1	bot 2	bot 3	bot 4	bot 4	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 11

explain this in the comments column.

Dissolved Oxygen Analysis Log Sheet

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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: 2024-004	1		292	185	10.3	2.947		1					
Event: 86	2		293	3148	10.2	2.979		2					
Station: QU39	3		294	122	10.2	3.302		3					
Event Date (Local): 14-04-24	4		295A	915	10.1	3.551	Temp 10.2 in comp.	4	295B	569	10.2	3.459	Analyzed as flask 915 actually 569, Temp 10.1
Analysis Date (Local): Apr. 15/24	5		296	1425	10.2	3.613		5					
Analyst: DL	6		297	557	10.0	3.834		6					
Stdization Date (Local): Apr. 14	7		298	188	10.0	3.883		7					
KIO ₃ N: 0.0118937	8		299	2043	9.9	4.103		8					
Standard Titer: 0.4962999	9		300	142	9.9	4.661		9					
Blank Titer: 0.0003133	10		301A	1489	9.9	5.056		10	301B	902	9.9	5.058	
THIO N: 0.23969	11		302	159	9.9	5.408		11					
Sample Flask Water Seal? Yes	12		303	3104	9.9	5.948		12					
	13		304	997	10.1	6.670		13					
Reagent Change? MnCl ₂	14		305	3099	10.3	6.768		14					
(Please circle reagent that was changed prior to sampling and standardization)	15		306	952	10.4	6.766		15					
NOTE NEW BATCH IN LOG BOOK	16							16					
	17							17					
	18							18					
Notes:	19							19					
	20							20					
	21							21					

Humming Bird.xlsx

292	293	294	295B	295A	296	297	298	299	300	301A	301B	302	303	304
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
QU39	QU39	QU39	QU39	QU39	QU39	QU39	QU39	QU39	QU39	QU39	QU39	QU39	QU39	QU39
2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004
bot-5 m	250 m	200 m	175 m	175 m	150 m	125 m	100 m	75 m	50 m	40 m	40 m	30 m	20 m	10 m
bot 1	bot 2	bot 3	bot 4	bot 4	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 10	bot 11	bot 12	bot 13

Dissolved Oxygen Analysis Log Sheet

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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:	2024-004	1		308	2098	9.9	2.943		1					
Event:	91	2		309A	3114	9.9	2.961		2	309B	904	9.0	2.958	
Station:	14	3		310	973			- not fired	3					
Event Date (Local):	14-04-24	4		311	196	9.8	3.479	- from bot 3	4					
Analysis Date (Local):	Apr 15/24	5		312	1346	9.8	3.710	- rest fine ↓	5					
Analyst:	AC	6		313	3005	9.7	3.872		6					
Stdization Date (Local):	Apr 14	7		314	118	9.6	3.854		7					
KIO ₃ N:	0.0118937	8		315	169	9.7	3.982		8					
Standard Titer:	0.4962999	9		316	3050	9.7	4.772		9					
Blank Titer:	0.0003133	10		317	3044	9.6	5.174		10					
THIO N:	0.23969	11		318	941	9.7	5.381		11					
Sample Flask Water Seal?	Yes	12		319A	111	9.6	5.917		12	319B	953	9.6	5.923	OT
	No	13		320	976	9.7	6.301		13					
Reagent Change?	MnCl ₂	14		321	547	9.9	6.558		14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		322	3040	9.9	6.666		15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		323	1416	10.0	6.560	OT	16					
	KIO ₃	17							17					
	THIO	18							18					
Notes:		19							19					
		20							20					
		21							21					

308	309A	309B	311	312	313	314	315	316	317	318	319A	319B	320	321	322
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004	2024-004
bot-5 m	300 m	300 m	200 m	175 m	150 m	125 m	100 m	75 m	50 m	40 m	30 m	30 m	20 m	10 m	5 m
bot 1	bot 2	bot 2	bot 3	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 11	bot 12	bot 12	bot 13	bot 14	bot 15