

Turtle

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Last Updated: January 2017



Cruise and Analysis Information		Nisk ID	Nisk Int V	Sample S ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2019-003	1		1	435	8.0	5.285		1					
Event:	6	2		2	439	8.1	5.282		2					
Station:	56	3		3A	456	8.0	5.283	→	3	3B	458	8.1	5.286	
Event Date (Local):	21 Jan 2019	4		4	575	8.1	5.279		4					
Analysis Date (Local):	21 Jan 2019	5		5	3180	8.1	5.311		5					
Analyst:	MS	6		6	3173	8.1	5.321		6					
Stdization Date (Local):	21 Jan 2019	7		7	1422	8.1	5.340		7					
KIO ₃ N:	0.012256	8		8	3052	8.1		Broke on 2nd Shake LP	8					
Standard Titer:	0.5059	9		9	2094	8.2	5.370		9					
Blank Titer:	0.000966	10		10	3000	8.2	5.352		10					
THIO N:	0.242777	11		11	3010	8.2	5.388	Leaky Bottom	11					
Sample Flask Water Seal?	(Yes) No	12		12A	1442	8.2	5.453	→	12	12B	3036	8.3	5.449	
Reagent Change?	MnCl ₂	13		13A	3106	8.5	5.459	→	13	13B	3074	8.4	5.462	
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14		14	3079	9.2	5.446		14					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15							15					
	KIO ₃	16							16					
	THIO	17							17					
Notes:		18							18					
		19							19					
		20							20					
		21							21					
		22							22					
		23							23					
		24							24					

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

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Cruise Number:	2019-003	1			29	435	8.4	3.108		1					
Event:	14	2			30	439	8.3	3.851		2					
Station:	16	3			31	456	8.2	4.363		3					
Event Date (Local):	22 JAN 2019	4			32	458	8.2	4.518		4					
Analysis Date (Local):	22 JAN 2019	5			33	575	8.2	4.592		5					
Analyst:	MB	6			34	3180	8.2	4.642		6					
Stdization Date (Local):	21 JAN 2019	7			35A	3173	8.2	4.676		7	35B	1422	8.3	4.674	
KIO ₃ N:	0.012256	8			36	1416	8.2	4.922		8					
Standard Titer:	0.5059	9			37	2094	8.1	5.165		9					
Blank Titer:	0.000966	10			38	3000	8.1	5.294		10					
THIO N:	0.241799	11			39A	3010	8.3	5.264		11	39B	1442	8.2	5.271	
Sample Flask	Yes	12								12					
Water Seal?	No	13								13					
Reagent Change?	MnCl ₂	14								14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15								15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16								16					
	KIO ₃	17								17					
	THIO	18								18					
Notes:		19								19					
		20								20					
		21								21					
		22								22					
		23								23					
		24								24					

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

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Cruise Number:	2019-003	1			40	435	7.0	5.164		1					
Event:	17	2			41	439	7.0	5.146		2					
Station:	CHP1	3			42	456	7.1	5.105		3					
Event Date (Local):	22 JAN 2019	4			43	458	7.1	5.102		4					
Analysis Date (Local):	22 JAN 2019	5			44	575	7.1	5.132		5					
Analyst:	MB	6			45A	3180	7.1	5.114	→	6	45B	3173	7.3	5.111	
Stdization Date (Local):	21 JAN 2019	7			46	1422	7.3	5.095		7					
KIO ₃ N:	0.012256	8			47A	1416	7.5	5.099	→	8	47B	2094	7.4	5.103	
Standard Titer:	0.5059066	9			48	3000	7.5	5.105		9					
Blank Titer:	0.000966	10			49	3040	7.6	5.083		10					
THIO N:	0.242799	11			50	1442	7.7	5.098		11					
Sample Flask Water Seal?	(Yes) No	12			51	3036	7.8	5.083		12					
Reagent Change?	MnCl ₂	13			52	3106	7.9	5.045		13					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14			53	3074	8.2	5.038		14					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15			54	3079	8.3	5.145		15					
	KIO ₃	16			55	3098	9.5	5.129		16					
	THIO	17								17					
Notes:		18								18					
		19								19					
		20								20					
		21								21					
		22								22					
		23								23					
		24								24					

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

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Cruise Number:	2019-003	1			56	435	6.9	5.309		1					
Event:	20	2			57	439	6.9	5.287		2					
Station:	J509	3			58A	456	7.0	5.282	→	3	58B	458	6.8	5.284	😊
Event Date (Local):	23/01/2019	4			59A	575	7.0	5.268		4					
Analysis Date (Local):	23 Jan 19	5			60A	3080	6.9	5.279	→	5	60B	3173	7.1	5.274	
Analyst:	Tamara	6			61	1422	7.4	5.246		6					
Stdization Date (Local):	23 Jan 19	7			62	1416	7.5	5.216		7					
KIO ₃ N:	0.012256	8			63	2094	7.8	5.199		8					
Standard Titer:	0.565846	9			64	3000	8.0	5.184		9					
Blank Titer:	0.000966	10			65	3010	8.1	5.174		10					
THIO N:	0.242795	11			66	1442	8.3	5.180	5.180	11					
Sample Flask Water Seal?	(Yes) No	12			67	3036	8.5	5.174		12					
Reagent Change?	MnCl ₂	13			68	3106	8.7	5.174		13					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14			69	3074	8.9	5.178		14					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15								15					
	KIO ₃	16								16					
	THIO	17								17					
Notes:		18								18					
		19								19					
		20								20					
		21								21					
		22								22					
		23								23					
		24								24					

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56	57	58A	58B	59	60A	60B	61	62	63	64	65	66
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
JS09	JS09	JS09	JS09	JS09	JS09	JS09	JS09	JS09	JS09	JS09	JS09	JS09
2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003
Bot 1	Bot 2	Bot 3	Bot 3	Bot 4	Bot 5	Bot 5	Bot 6	Bot 7	Bot 8	Bot 9	Bot 10	Bot 11

67	68	69
OXY	OXY	OXY
JS09	JS09	JS09
2019-003	2019-003	2019-003
Bot 12	Bot 13	Bot 14

swallow.

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Cruise Number:	2019-003	1	✓	✓	73	570	7.3	5.480		1					
Event:	22	2	✓	✓	74	3114	7.3	5.554		2					
Station:	J5075 (J505)	3	✓	✓	75	3148	7.3	5.571		3					
Event Date (Local):	23 Jan 19	4	✓	✓	76	3190	7.2	5.582		4					
Analysis Date (Local):	23 Jan 19	5	✓	✓	77	3093	7.3	5.581		5					
Analyst:	Tamara	6	✓	✓	78	3138	7.2	5.580		6					
Stdization Date (Local):	23 Jan 19	7	✓	✓	74A	2098	7.3	5.578	→	7	77B	745	7.3	5.576	😊
KIO ₃ N:	0.012256	8	✓	✓	80	3146	7.2	5.567		8					
Standard Titer:	0.505846	9	✓	✓	81	3053	7.1	5.566		9					
Blank Titer:	0.000966	10	✓	✓	82	510	7.3	5.549		10					
THIO N:	0.242795	11	✓	✓	83A	611	7.3	5.556	→	11	83B	708	7.4	5.557	
Sample Flask	Yes	12	✓	✓	84	612	7.4	5.534		12					
Water Seal?	No	13	✓	✓	85	3038	7.6	5.531		13					
Reagent Change?	MnCl ₂	14	✓	✓	86	3209	7.7	5.484		14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15	✓	✓	87	3043	7.9	5.537		15					
	H ₂ SO ₄	16	✓	✓	88	3129	8.4	5.570		16					
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17								17					
	THIO	18								18					
Notes:		19								19					
		20								20					
		21								21					
		22								22					
		23								23					
		24								24					

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73	74	75	76	77	78	79A	79B	80	81	82	83A	83B	84
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
JS05	JS05	JS05	JS05	JS05	JS05	JS05	JS05	JS05	JS05	JS05	JS05	JS05	JS05
2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003
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	Bot 12

85	86	87	88
OXY	OXY	OXY	OXY
JS05	JS05	JS05	JS05
2019-003	2019-003	2019-003	2019-003
Bot 13	Bot 14	Bot 15	Bot 16

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Cruise Number:	2019-003	1			91	435	8.8	5.556						1						
Event:	36	2			92	439	8.8	5.650						2						
Station:	CPE1	3			93	456	8.6	6.082						3						
Event Date (Local):	2019/01/23	4			94	458	8.5	6.140						4						
Analysis Date (Local):	23 JAN 2019	5			95	575	8.5	6.124						5						
Analyst:	ms	6			96A	3173	8.5	6.110						6	96B	3180	8.5	6.111		
Stdization Date (Local):	23 JAN 2019	7			97	1422	8.5	6.102						7						
KIO ₃ N:	0.012256	8			98	1416	8.6	6.107						8						
Standard Titer:	0.5058	9			99	2094	8.7	6.171						9						
Blank Titer:	0.000966	10			100	3000	8.9	6.206						10						
THIO N:	0.242795	11			101A	3010	9.3	6.201						11	101B	1442	9.3	6.209		
Sample Flask	Yes	12												12						
Water Seal?	No	13												13						
Reagent Change?	MnCl ₂	14												14						
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15												15						
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16												16						
	KIO ₃	17												17						
	THIO	18												18						
Notes:		19												19						
		20												20						
		21												21						
		22												22						
		23												23						
		24												24						

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

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Cruise Number: 2019-003	1	✓	✓	103	435	8.0	4.382		1					
Event: 44	2	✓	✓	104	439	8.1	4.395		2					
Station: QCS4	3	✓	✓	105	456	8.1	4.395		3					
Event Date (Local): 24 Jan 19	4	✓	✓	106	458	8.1	4.846		4					
Analysis Date (Local): 24 Jan 19	5	✓	✓	107	575	8.1	5.097		5					
Analyst: Tamara	6	✓	✓	108	3173	8.1	5.290		6					
Stdization Date (Local): 23 Jan 19	7	✓	✓	109	3180	8.2	5.521		7					
KIO ₃ N: 0.012256	8	✓	✓	110	1422	8.1	5.735		8					
Standard Titer: 0.505846	9	✓	✓	111A	1416	8.0	5.921	→	9	111B	2074	8.1	5.918	☺
Blank Titer: 0.000966	10	✓	✓	112	3000	7.9	5.916		10					
THIO N: 0.242795	11	✓	✓	113	3010	8.1	5.984		11					
Sample Flask Water Seal? Yes *	12	✓	✓	114	1442	7.9	6.149		12					
	13	✓	✓	115	3036	7.9	6.149		13					
Reagent Change? MnCl ₂	14	✓	✓	116	3106	7.9	6.130		14					
(Please circle reagent that was changed prior to sampling and standardization)	15	✓	✓	117	3074	7.9	6.132		15					
NOTE NEW BATCH IN LOG BOOK	16	✓	✓	118A	3079	7.9	6.139		16	118B	3078	7.9	6.140	☺
	17	✓	✓	119	3086	8.0	6.156		17					
	18	✓	✓	120	3088	8.1	6.159		18					☹ * forget water seal on these two
Notes:	19	✓	✓						19					
	20								20					
	21								21					
	22								22					
	23								23					
	24								24					

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103	104	105	106	107	108	109	110	111A	111B	112	113	114	115	116
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
QCS4	QCS4	QCS4	QCS4	QCS4	QCS4	QCS4	QCS4	QCS4	QCS4	QCS4	QCS4	QCS4	QCS4	QCS4
2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003
Bot 1	Bot 2	Bot 3	Bot 4	Bot 5	Bot 6	Bot 7	Bot 8	Bot 9	Bot 9	Bot 10	Bot 11	Bot 12	Bot 13	Bot 14

117	118A	118B	119	120
OXY	OXY	OXY	OXY	OXY
QCS4	QCS4	QCS4	QCS4	QCS4
2019-003	2019-003	2019-003	2019-003	2019-003
Bot 15	Bot 16	Bot 16	Bot 17	Bot 18

swallow.

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Cruise Number:	2019-003	1			122	570				1					
Event:	50 51	2			123	3114			shallower than expected.	2					
Station:	QCS2	3			124	3148				3					
Event Date (Local):	24 Jan 19	4			125	3190				4					
Analysis Date (Local):	24 Jan 19	5			126	3093				5					
Analyst:	Tamariz	6			127	3138				6					
Stdization Date (Local):	23 Jan 19	7	✓	✓	128	2098	7.8	5.510		7					
KIO ₃ N:	0.012256	8	✓	✓	129	745	7.8	5.527		8					
Standard Titer:	0.505846	9	✓	✓	130	3146	7.9	5.570	this tip not in sample on 1st try	9					
Blank Titer:	0.000966	10	✓	✓	131	3053	7.8	5.769		10					
THIO N:	0.242795	11	✓	✓	132	510	7.7	5.839		11					
Sample Flask Water Seal?	Yes	12	✓	✓	133	611	7.8	5.781		12					
	No	13	✓	✓	134	708	7.8	5.769	→	13	134B	612	7.8	5.767	☺
Reagent Change?	MnCl ₂	14	✓	✓	135	135	7.7	5.759	Flask 3038	14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15	✓	✓	136	3209	7.8	5.756		15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16	✓	✓	137A	3043	7.8	5.776	→	16	137B	3129	7.8	5.780	
	KIO ₃	17	✓	✓	138	3165	7.7	5.778		17					
	THIO	18								18					
Notes:		19								19					
		20								20					
		21								21					
		22								22					
		23								23					
		24								24					

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128	129	130	131	132	133	134A	134B	135	136	137A	137B	138
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
QCS2	QCS2	QCS2	QCS2	QCS2	QCS2	QCS2	QCS2	QCS2	QCS2	QCS2	QCS2	QCS2
2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003
Bot 7	Bot 8	Bot 9	Bot 10	Bot 11	Bot 12	Bot 13	Bot 13	Bot 14	Bot 15	Bot 16	Bot 16	Bot 17

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dinosaur

Cruise and Analysis Information		Nisk ID	Nisk Int V	S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2019-003	1	✓	✓	140	196	7.9	5.623		1					
Event:	57	2	✓	✓	141	396	7.7	5.642		2					
Station:	JSφ	3	✓	✓	142	471	7.7	5.623		3					
Event Date (Local):	24 Jan 19	4	✓	✓	143	505	7.7	5.648		4					
Analysis Date (Local):	24 Jan 19	5	✓	✓	144	712	7.7	5.650		5					
Analyst:	Tamara	6	✓	✓	145	1055	7.7	5.650		6					
Stdization Date (Local):	23 Jan 19	7	✓	✓	146A	1223	7.7	5.646	→	7	146B	1094	7.7	5.646	☺☺
KIO ₃ N:	0.012256	8	✓	✓	147	1406	7.7	5.638	147 analysed before 146A + 146B	8					
Standard Titer:	0.505846	9	✓	✓	148	1407	7.7	5.644		9					
Blank Titer:	0.000966	10	✓	✓	149	1409	7.7	5.641		10					
THIO N:	0.242795	11	✓	✓	150	3030	7.7	5.625		11					
Sample Flask	(Yes)	12	✓	✓	151	2055	7.7	5.625		12					
Water Seal?	No	13	✓	✓	152	2065	7.8	5.609		13					
Reagent Change?	MnCl ₂	14	✓	✓	153	2060	7.9	5.617		14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15	✓	✓	154	3137	7.9	5.792		15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄ <i>none</i>	16	✓	✓	155A	2068	8.1	5.623	→	16	155B	2089	8.0	5.624	
	KIO ₃	17	✓	✓	156	3005	8.4	5.617		17					
	THIO	18								18					
Notes:		19								19					
		20								20					
		21								21					
		22								22					
		23								23					
		24								24					

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

140	141	142	143	144	145	147	146A	146B	148	149	150	151	152	153	154
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
JS0	JS0	JS0	JS0	JS0	JS0	JS0	JS0	JS0	JS0	JS0	JS0	JS0	JS0	JS0	JS0
2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003
Bot 1	Bot 2	Bot 3	Bot 4	Bot 5	Bot 6	Bot 8	Bot 7	Bot 7	Bot 9	Bot 10	Bot 11	Bot 12	Bot 13	Bot 14	Bot 15

155A	155B	156
OXY	OXY	OXY
JS0	JS0	JS0
2019-003	2019-003	2019-003
Bot 16	Bot 16	Bot 17

Sparrow

flask vol. sa raw info for samples 157 + 158
 157 570 8.5 0.2561 0.2562 2.48
 158 3114 8.5 0.2710 0.2711 2.57

Dissolved Oxygen Analysis Log Sheet

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Cruise and Analysis Information		Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2019-003	1	✓	✓	157	570	8.7		} analyzed by sleep if incorrectly - recalculated here	1					
Event:	63	2	✓	✓	158	3114	8.7			2					
Station:	14	3	✓	✓	159	3148	8.7	2.827		3					
Event Date (Local):	24/25 Jan 19	4	✓	✓	160	3190	8.7	2.942		4					
Analysis Date (Local):	25 Jan 19	5	✓	✓	161	3093	8.7	2.852		5					
Analyst:	Tamar	6	✓	✓	162	3128	8.7	2.943		6					
Stdization Date (Local):	23 Jan 19	7	✓	✓	163	2098	8.5	3.218		7					
KIO ₃ N:	0.012256	8	✓	✓	164A	745	8.4	3.800	→	8	164B	3146	8.4	3.793	
Standard Titer:	0.505846	9	✓	✓	165	3053	8.1	4.684		9					
Blank Titer:	0.000966	10	✓	✓	166	510	8.1	4.750		10					
THIO N:	0.242795	11	✓	✓	167A	611	8.1	4.905	→	11	167B	708	8.1	4.901	
Sample Flask	Yes	12	✓	✓	168	612	8.1	5.022		12					
Water Seal?	No	13	✓	✓	169	3038	8.1	5.097		13					
Reagent Change?	MnCl ₂	14	✓	✓	170	3209	8.1	5.252		14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15	✓	✓	171	3043	7.9	5.571		15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄ none	16								16					
	KIO ₃	17								17					
	THIO	18								18					
Notes:		19								19					
		20								20					
		21								21					
		22								22					
		23								23					
		24								24					

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

157	158	159	160	161	162	163	164A	164B	165	166	167A	167B	168
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
2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003
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 11	Bot 12

need manual
[O₂] calc.

169	170	171
OXY	OXY	OXY
14	14	14
2019-003	2019-003	2019-003
Bot 13	Bot 14	Bot 15

in file as calcd O₂ flask temp titer titer 20°C end volth
 sa# 172 157 2.558 570 8.5 0.2561 0.2562 2.48
 Swimming Dino 173 158 2.778 3114 8.5 0.2710 0.2711 2.57

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Cruise and Analysis Information		Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2019-003	1	✓	✓	172	196	8.5	2.531	bubbles in flask	1					
Event:	69	2	✓	✓	173	396	8.5	2.603		2					
Station:	12	3	✓	✓	174	471	8.5	2.755		3					
Event Date (Local):	25 Jan 2019	4	✓	✓	175	505	8.5	2.891		4					
Analysis Date (Local):	25 Jan 19	5	✓	✓	176	712	8.5	3.004		5					
Analyst:	Tamara	6	✓	✓	177A	1055	8.6	2.930	→	6	177B	1223	8.7	2.920	
Stdization Date (Local):	23 Jan 19	7	✓	✓	178	1094	8.5	3.054		7					
KIO ₃ N:	0.012256	8	✓	✓	179A	1406	8.6	3.080	→	8	179B	1407	8.6	3.071	
Standard Titer:	0.505846	9	✓	✓	180	1409	8.4	3.655		9					
Blank Titer:	0.000966	10	✓	✓	181	3030	7.8	5.481		10					
THIO N:	0.242795	11	✓	✓	182	2055	7.7	5.561		11					
Sample Flask	Yes	12	✓	✓	183	2065	7.6	6.242		12					
Water Seal?	No	13	✓	✓	184	2060	7.5	6.488		13					
Reagent Change?	MnCl ₂	14	✓	✓	185	3157	7.5	6.550		14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15	✓	✓	186	2068	7.5	6.559		15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄ none	16	✓	✓	187	2089	7.5	6.565		16					
	KIO ₃	17								17					
	THIO	18								18					
Notes:		19								19					
		20								20					
		21								21					
		22								22					
		23								23					
		24								24					

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

172	173	174	175	176	177A	177B	178	179A	179B	180	181	182	183	184
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
2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003
Bot 1	Bot 2	Bot 3	Bot 4	Bot 5	Bot 6	Bot 6	Bot 7	Bot 8	Bot 8	Bot 9	Bot 10	Bot 11	Bot 12	Bot 13

185	186	187
OXY	OXY	OXY
12	12	12
2019-003	2019-003	2019-003
Bot 14	Bot 15	Bot 16

Turtle

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Cruise and Analysis Information		Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2019-003	1	✓	✓	189	435	8.8	2.758		1					
Event:	73	2	✓	✓	190	439	8.8	2.922		2					
Station:	9	3	✓	✓	191A	456	8.7	3.013	→	3	191B	458	8.8	3.002	
Event Date (Local):	25/Jan/2019	4	✓	✓	192	575	8.7	3.155	analysed before 191A + 191B	4					
Analysis Date (Local):	25 Jan 19	5	✓	✓	193	3173	8.4	3.702		5					
Analyst:	Kamara	6	✓	✓	194	3180	8.0	5.176		6					
Stdization Date (Local):	23 Jan 19	7	✓	✓	195	1422	7.9	5.651		7					
KIO ₃ N:	0.012256	8	✓	✓	196	1416	7.8	5.995		8					
Standard Titer:	0.505846	9	✓	✓	197	2094	7.9	6.211		9					
Blank Titer:	0.000966	10	✓	✓	198A	3000	7.7	6.332	→	10	198B	3010	7.7	6.327	
THIO N:	0.242795	11	✓	✓	199	1442	7.7	6.377		11					
Sample Flask Water Seal?	Yes	12	✓	✓	200	3036	7.7	6.391		12					
Reagent Change?	MnCl ₂	13								13					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14								14					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15								15					
	KIO ₃	16								16					
	THIO	17								17					
Notes:		18								18					
		19								19					
		20								20					
		21								21					
		22								22					
		23								23					
		24								24					

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

189	190	192	191A	191B	193	194	195	196	197	198A	198B	199	200
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
9	9	9	9	9	9	9	9	9	9	9	9	9	9
2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003
Bot 1	Bot 2	Bot 4	Bot 3	Bot 3	Bot 5	Bot 6	Bot 7	Bot 8	Bot 9	Bot 10	Bot 10	Bot 11	Bot 12

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bender

Cruise and Analysis Information		Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2019-003	1	✓	✓	201	2099	8.6	2.878		1					
Event:	77	2	✓	✓	202	3018	8.6	2.887		2					
Station:	6	3	✓	✓	203	3014	8.6	2.911		3					
Event Date (Local):	25 JAN 19	4	✓	✓	204	2049	8.5	3.727		4					
Analysis Date (Local):	25 JAN 2019	5	✓	✓	205	3037	8.5	3.649		5					
Analyst:	MB	6	✓	✓	206	3155	8.3	3.681		6					
Stdization Date (Local):	23 JAN 2019	7	✓	✓	207	3135	8.0	5.384		7					
KIO ₃ N:	0.01256	8	✓	✓	208	3110	7.8	6.048		8					
Standard Titer:	0.5058	9	✓	✓	209A	3076	7.7	6.139	→	9	209B	3029	7.7	6.139	
Blank Titer:	0.000966	10	✓	✓	210	3078	7.7	6.213		10					
THIO N:	0.242795	11	✓	✓	211A	2085	7.6	6.412	→	11	211B	620	7.6	6.414	
Sample Flask	Yes	12	✓	✓	212	622	7.6	6.518		12					
Water Seal?	No	13	✓	✓	213	3041	7.7	6.591		13					
Reagent Change?	MnCl ₂	14								14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15								15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16								16					
	KIO ₃	17								17					
	THIO	18								18					
Notes:		19								19					
		20								20					
		21								21					
		22								22					
		23								23					
		24								24					

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

201	202	203	204	205	206	207	208	209A	209B	210	211A	211B	212	213
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
2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003
Bot 1	Bot 2	Bot 3	Bot 4	Bot 5	Bot 6	Bot 7	Bot 8	Bot 9	Bot 9	Bot 10	Bot 11	Bot 11	Bot 12	Bot 13

Turtle

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Cruise and Analysis Information		Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	209-008	1			214	13074	8.0	5.662		1					
Event:	82	2			215	3079	8.0	5.598		2					
Station:	BS-17-17	3			216	3098	8.0	5.629		3					
Event Date (Local):	25 JAN 2019	4			217	3086	7.9	5.761		4					
Analysis Date (Local):	25 JAN 2019	5			218	3088	7.9	5.845		5					
Analyst:	MB	6			219A	3089	7.9	5.869	→	6	219B	3090	7.9	5.870	
Stdization Date (Local):	23 JAN 2019	7			220	3095	7.8	6.091		7					
KIO ₃ N:	0.012256	8								8					
Standard Titer:	0.5058	9								9					
Blank Titer:	0.00966	10								10					
THIO N:	0.242795	11								11					
Sample Flask	Yes	12								12					
Water Seal?	No	13								13					
Reagent Change?	MnCl ₂	14								14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15								15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16								16					
	KIO ₃	17								17					
	THIO	18								18					
Notes:		19								19					
		20								20					
		21								21					
		22								22					
		23								23					
		24								24					

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

214	215	216	217	218	219A	219B	220
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
BS-17	BS-17	BS-17	BS-17	BS-17	BS-17	BS-17	BS-17
2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003
Bot 1	Bot 2	Bot 3	Bot 4	Bot 5	Bot 6	Bot 6	Bot 7

Turtle

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Cruise and Analysis Information		Nisk ID	Nisk Int V	S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2019-003	1			221	575	8.8	2.506		1					
Event:	84	2			222	439	8.8	2.523		2					
Station:	3	3			223	435	8.9	2.622		3					
Event Date (Local):	25/01/2019	4			224	456	8.8	2.967		4					
Analysis Date (Local):	25 JAN 2019	5			225	458	8.8	3.117		5					
Analyst:	MB	6			226A	5173	8.8	3.295	→	6	226B	3180	8.8	3.297	
Stdization Date (Local):	25 JAN 2019	7			227	1422	8.7	3.609		7					
KIO ₃ N:	0.012256	8			228	1416	8.7	—	FORGOT MAGNET	8					
Standard Titer:	0.5052	9			229	2094	8.7	3.653		9					
Blank Titer:	0.0006	10			230	3000	8.3	4.457		10					
THIO N:	0.242928	11			231	3010	8.3	5.008		11					
Sample Flask Water Seal?	Yes	12			232A	1442	8.1	5.570	→	12	232B	3036	8.1	5.566	
	No	13			233	3106	8.0	5.786		13					
Reagent Change?	MnCl ₂	14			234	3074	7.7	6.156		14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15			235	3079	7.6	6.340		15					
	H ₂ SO ₄	16			236	3098	7.5	6.541		16					
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17								17					
	THIO	18								18					
Notes:		19								19					
		20								20					
		21								21					
		22								22					
		23								23					
		24								24					

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

221	222	223	224	225	226A
OXY	OXY	OXY	OXY	OXY	OXY
3	3	3	3	3	3
2019-003	2019-003	2019-003	2019-003	2019-003	2019-003
Bot 1	Bot 2	Bot 3	Bot 4	Bot 5	Bot 6

226B	227	228	229	230	231
OXY	OXY	OXY	OXY	OXY	OXY
3	3	3	3	3	3
2019-003	2019-003	2019-003	2019-003	2019-003	2019-003
Bot 6	Bot 7	Bot 8	Bot 9	Bot 10	Bot 11

232A	232B	233	234	235	236
OXY	OXY	OXY	OXY	OXY	OXY
3	3	3	3	3	3
2019-003	2019-003	2019-003	2019-003	2019-003	2019-003
Bot 12	Bot 12	Bot 13	Bot 14	Bot 15	Bot 16

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Cruise and Analysis Information		Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	207-003	1			237	435	8.7	2.589		1					
Event:	88	2			238	435	8.7	2.596		2					
Station:	2	3			239	575	8.7	2.934		3					
Event Date (Local):	25 JAN 2019	4			240	456	8.7	2.933		4	2408	458	8.7	2.928	
Analysis Date (Local):	25 JAN 2019	5			241	3173	8.7	3.018		5					
Analyst:	MB	6			242	3180	8.7	3.490		6					
Stdization Date (Local):	25 JAN 2019	7			243	1426	8.6	3.905		7					
KIO ₃ N:	0.012256	8			244	1416	8.5	3.958		8					
Standard Titer:	0.5052	9			245	2094	8.5	4.121		9					
Blank Titer:	0.0006	10			246	3000	8.2	4.727		10					
THIO N:	0.242928	11			247	3010	8.1	5.322		11					
Sample Flask Water Seal?	Yes	12			248	1442	7.9	5.795		12					
	No	13			249	3034	7.8	6.137		13	2498	3106	7.8	6.136	
Reagent Change?	MnCl ₂	14			250	3074	7.7	6.486		14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15			251	3079	7.5	6.611		15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16			252	3098	7.5	6.664		16					
	KIO ₃	17								17					
	THIO	18								18					
Notes:		19								19					
		20								20					
		21								21					
		22								22					
		23								23					
		24								24					

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

237	238	239	240A	240B	241
OXY	OXY	OXY	OXY	OXY	OXY
2	2	2	2	2	2
2019-003	2019-003	2019-003	2019-003	2019-003	2019-003
Bot 1	Bot 2	Bot 3	Bot 4	Bot 4	Bot 5

242	243	244	245	246	247
OXY	OXY	OXY	OXY	OXY	OXY
2	2	2	2	2	2
2019-003	2019-003	2019-003	2019-003	2019-003	2019-003
Bot 6	Bot 7	Bot 8	Bot 9	Bot 10	Bot 11

248	249A	249B	250	251
OXY	OXY	OXY	OXY	OXY
2	2	2	2	2
2019-003	2019-003	2019-003	2019-003	2019-003
Bot 12	Bot 13	Bot 13	Bot 14	Bot 15

252
(label
discarded)

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Water Properties Group

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Cruise and Analysis Information		Nisk ID	Nisk Int V	Sample S ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2019-003	1	✓	✓	253	2099	9.0	2.517		1				
Event:	93	2	✓	✓	254	308	9.0	2.554		2				
Station:	27	3	✓	✓	255	3014	8.9	2.555		3				
Event Date (Local):	2019-01-26	4	✓	✓	256	2049	8.9	2.590		4				
Analysis Date (Local):	26 Jan 19	5	✓	✓	257A	3037	8.9	2.844	→	5	257B	3135	8.9	2.841 ☺
Analyst:	Tamar	6	✓	✓	258	3135	8.8	3.056		6				
Stdization Date (Local):	25 Jan 19	7	✓	✓	259	3110	8.7	3.430		7				
KIO ₃ N:	0.012256	8	✓	✓	260	3076	8.5	4.094		8				
Standard Titer:	0.5052	9	✓	✓	261	3029	8.4	4.356		9				
Blank Titer:	0.0006	10	✓	✓	262	3078	8.4	4.341		10				
THIO N:	0.242928	11			263	2085	8.5	4.548	* bottom cap not sealed properly *	11				
Sample Flask Water Seal?	Yes	12	✓	✓	264	620	8.2	4.968		12				
	No	13	✓	✓	265	622	7.9	5.523		13				
Reagent Change?	MnCl ₂	14	✓	✓	266A	1459	7.8	5.908	→	14	266B	3041	7.8	5.909 ☺
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15	✓	✓	267	3044	7.6	6.110		15				
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16	✓	✓	268	3048	7.5	6.339		16				
	KIO ₃	17	✓	✓	269	3099	7.4	6.543		17				
	THIO	18								18				
Notes:		19								19				
		20								20				
		21								21				
		22								22				
		23								23				
		24								24				

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

253	254	255	256	257A	257B	258	259	260	261	262	263	264	265	266A
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
2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003
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

266B	267	268	269
OXY	OXY	OXY	OXY
27	27	27	27
2019-003	2019-003	2019-003	2019-003
Bot 14	Bot 15	Bot 16	Bot 17

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

swimming dino



Last Updated: July 2018

Cruise and Analysis Information		Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2019-003	1	✓✓	298	2055	8.0	5.311		1					
Event:	103	2	✓✓	299	2065	8.0	5.316		2					
Station:	VAN4	3	✓✓	300	2060	8.0	5.330		3					
Event Date (Local):	26 Jan 19	4	✓✓	301	3137	8.0	5.340		4					
Analysis Date (Local):	26 Jan 19	5	✓✓	302	2068	8.0	5.349		5					
Analyst:	Tamarc	6	✓✓	303	2089	8.0	5.364		6					
Stdization Date (Local):	26 Jan 19	7	✓✓	304A	3005	8.0	5.389	→	7	304B	3046	8.0	5.382	
KIO ₃ N:	0.012256	8		305	3049	8.0	5.428	Top value was open. (maybe)	8					
Standard Titer:	0.5050599	9	✓✓	306	3057	8.0	5.430		9					
Blank Titer:	0.0005728	10							10					
THIO N:	0.242972	11							11					
Sample Flask Water Seal?	(Yes) No	12							12					
		13							13					
Reagent Change?	MnCl ₂	14							14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15							15					
	(H ₂ SO ₄)	16							16					
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17							17					
	THIO	18							18					
Notes:		19							19					
		20							20					
		21							21					
		22							22					
		23							23					
		24							24					

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

298	299	300	301	302	303	304A	304B	305	306
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
VAN4	VAN4	VAN4	VAN4	VAN4	VAN4	VAN4	VAN4	VAN4	VAN4
2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003
Bot 1	Bot 2	Bot 3	Bot 4	Bot 5	Bot 6	Bot 7	Bot 7	Bot 8	Bot 9

Long necked Dino a Giraffe Dino?

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



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Cruise and Analysis Information	Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 2019-003	1	✓✓	307	3A4	7.9	5.486		1					
Event: 104	2	✓✓	308	3050	7.9	5.489		2					
Station: VAN 5	3	✓✓	309A	3073	8.0	5.483	→	3	309B	94	7.9		
Event Date (Local): 26 Jan 19	4	✓✓	310	371	7.9	5.513		4					
Analysis Date (Local): 26 Jan 19	5	✓✓	311	621	8.0	5.484		5					
Analyst: Tamar	6	✓✓	312	1408	7.9	5.479		6					
Stdization Date (Local): 26 Jan 19	7							7					
KIO ₃ N: 0.012256	8							8					
Standard Titer: 0.5050599	9							9					
Blank Titer: 0.000328	10							10					
THIO N: 0.242972	11							11					
Sample Flask Water Seal? Yes	12							12					
No	13							13					
Reagent Change? MnCl ₂	14							14					
(Please circle reagent that was changed prior to sampling and standardization)	15							15					
NaI/NaOH	16							16					
H ₂ SO ₄	17							17					
NOTE NEW BATCH IN LOG BOOK	18							18					
KIO ₃	19							19					
THIO	20							20					
	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.

307	308	309A	309B	310	311	312
OXY	OXY	OXY	OXY	OXY	OXY	OXY
VAN5	VAN5	VAN5	VAN5	VAN5	VAN5	VAN5
2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003
Bot 1	Bot 2	Bot 3	Bot 3	Bot 4	Bot 5	Bot 6

Bender

Dissolved Oxygen Analysis Log SheetInstitute of Ocean Sciences
Water Properties Group

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Cruise and Analysis Information	Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 2019-03	1		326	2099	8.1	5.392		1					
Event: 708	2		327	3018	8.0	0.5452		2					
Station: 1N/00	3		328	3014	8.1	5.204		3					
Event Date (Local): Jan 06	4		329	2049	8.1	5.055		4					
Analysis Date (Local): JAN 2018	5		330A	3049	8.3	-	→ B was sampled 1st Forgot ALSO	5	330B	3155	8.3	4.838	
Analyst: MB	6		331	3135	8.3	4.872		6					
Stdization Date (Local): 26 Jan 2018	7		332	3110				7					
KIO ₃ N: 0.02256	8							8					
Standard Titer: 0.5051	9							9					
Blank Titer: 0.0006	10							10					
THIO N: 0.242972	11							11					
Sample Flask Water Seal? ☒ Yes	12							12					
☐ No	13							13					
Reagent Change? MnCl ₂	14							14					
(Please circle reagent that was changed prior to sampling and standardization)	15							15					
NaI/NaOH	16							16					
H ₂ SO ₄	17							17					
NOTE NEW BATCH IN LOG BOOK	18							18					
KIO ₃	19							19					
THIO	20							20					
	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.

326
OXY
IND0
2019-003
Bot 1

327
OXY
IND0
2019-003
Bot 2

328
OXY
IND0
2019-003
Bot 3

329
OXY
IND0
2019-003
Bot 4

330A
OXY
IND0
2019-003
Bot 5

330B
OXY
IND0
2019-003
Bot 5

331
OXY
IND0
2019-003
Bot 6

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

SWALLOW



Last Updated: July 2018

Cruise and Analysis Information	Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 2019-003	1		333	570	8.4	2.931		1					
Event: 112	2		334	3114	8.3	2.910		2					
Station: FND2	3		335	3148	8.4	2.984		3					
Event Date (Local): 26 JAN 2019	4		336	3190	8.4	3.257		4					
Analysis Date (Local): 26 JAN 2019	5		337	3093	8.6	3.229		5					
Analyst: MB	6		338	3138	8.6	3.578		6					
Stdization Date (Local): 26 JAN 2019	7		339	2098	8.3	4.478		7					
KIO ₃ N: 0.01256	8		340	745	8.3	4.334		8					
Standard Titer: 0.5051	9		341	3146	8.5	4.262		9					
Blank Titer: 0.0006	10		342	3053	8.7	4.162		10					
THIO N: 0.242972	11		343A	510	8.4	4.657	→	11	343B	611	8.4	6.665	
Sample Flask Water Seal? ☒ Yes ☐ No	12		344	708	7.9	5.674		12					
	13							13					
Reagent Change? MnCl ₂	14							14					
(Please circle reagent that was changed prior to sampling and standardization)	15							15					
NaI/NaOH	16							16					
H ₂ SO ₄	17							17					
NOTE NEW BATCH IN LOG BOOK	18							18					
KIO ₃	19							19					
THIO	20							20					
	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.

333	334	335	336	337	338	339	340	341	342	343A	343B	344
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
IND2	IND2	IND2	IND2	IND2	IND2	IND2	IND2	IND2	IND2	IND2	IND2	IND2
2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003
Bot 1	Bot 2	Bot 3	Bot 4	Bot 5	Bot 6	Bot 7	Bot 8	Bot 9	Bot 10	Bot 11	Bot 11	Bot 12

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

SWALLOW



Last Updated: July 2018

Cruise and Analysis Information	Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 20B-003	1		346	3038	8.4	3.045		1					
Event: 113	2		347	3039	8.3	2.782		2					
Station: INDY	3		348	3043	8.3	2.381		3					
Event Date (Local): 26 JAN 2019	4		349	3175	8.4	2.584		4					
Analysis Date (Local): 26 JAN 2019	5		350A	3165	8.4	2.427	→	5	350B	3129	8.5	2.422	
Analyst: MB	6		351	3023	8.5	2.431		6					
Stdization Date (Local): 26 JAN 2019	7		352	3002	8.7	2.240		7					
KIO ₃ N: 0.012256	8		353	3161	9.3	2.899		8					
Standard Titer: 0.5051	9		354	3162	9.1	3.487		9					
Blank Titer: 0.0006	10		355	3096	8.7	4.074		10					
THIO N: 0.242972	11		356	3066	8.8	4.003		11					
Sample Flask Water Seal? ☒ Yes	12		357	3132	9.3	3.472	? misfire?	12					
☐ No	13		358A	3144	8.9	4.231	→	13	358B	3126	8.9	4.238	
Reagent Change? MnCl ₂	14		359	3071	8.1	5.707		14					
(Please circle reagent that was changed prior to sampling and standardization)	15							15					
H ₂ SO ₄	16							16					
NOTE NEW BATCH IN LOG BOOK	17							17					
KIO ₃	18							18					
THIO	19							19					
Notes:	20							20					
	21							21					
	22							22					
	23							23					
	24							24					

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

346	347	348	349	350A	350B	351	352	353	354	355	356	357	358A	358B	359
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
IND4	IND4	IND4	IND4	IND4	IND4	IND4	IND4	IND4	IND4	IND4	IND4	IND4	IND4	IND4	IND4
2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003
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 13	Bot 14

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

SHARKNADO



Last Updated: July 2018

Cruise and Analysis Information	Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 2019-003	1		361	690	8.8	1.740		1					
Event: 116	2		362	569	9.4	2.125		2					
Station: IND7	3		363	2086	9.7	2.206		3					
Event Date (Local): 26 JAN 2019	4		364	3007	9.9	2.310		4					
Analysis Date (Local): 26 JAN 2019	5		365	1054	10.1	2.381		5					
Analyst: MB	6		366	3008	9.9	2.852		6					
Stdization Date (Local): 26 JAN 2019	7		367A	7090	9.4	3.643	→	7	367B	1053	9.4	3.654	
KIO ₃ N: 0.012286	8		368	1465	8.1	5.591		8					
Standard Titer: 0.5051	9							9					
Blank Titer: 0.006	10							10					
THIO N: 0.242572	11							11					
Sample Flask Water Seal? ☒ Yes	12							12					
☐ No	13							13					
Reagent Change? MnCl ₂	14							14					
(Please circle reagent that was changed prior to sampling and standardization)	15							15					
NaI/NaOH	16							16					
H ₂ SO ₄	17							17					
NOTE NEW BATCH IN LOG BOOK	18							18					
KIO ₃	19							19					
THIO	20							20					
	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.

361	362	363	364	365	366	367A	367B	368
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
IND7	IND7	IND7	IND7	IND7	IND7	IND7	IND7	IND7
2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003
Bot 1	Bot 2	Bot 3	Bot 4	Bot 5	Bot 6	Bot 7	Bot 7	Bot 8

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 T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 2019-003	1		370	3108	9.9	2.465		1					
Event: 117	2		371	2040	10.0	2.417		2					
Station: IND8	3		372	3200	10.0	2.481		3					
Event Date (Local): 26 JAN 2019	4		373	3020	9.9	2.813		4					
Analysis Date (Local): 26 JAN 2019	5		374A	475	9.5	3.519	→	5	374B	2088	9.5	3.552	
Analyst: MB	6		375	2075	7.9	5.748		6					
Stdization Date (Local): 26 JAN 2019	7							7					
KIO ₃ N: 0.01756	8							8					
Standard Titer: 0.5051	9							9					
Blank Titer: 0.0006	10							10					
THIO N: 0.24272	11							11					
Sample Flask Water Seal? ☒ Yes	12							12					
	13							13					
Reagent Change? MnCl ₂	14							14					
(Please circle reagent that was changed prior to sampling and standardization)	15							15					
NaI/NaOH	16							16					
H ₂ SO ₄	17							17					
NOTE NEW BATCH IN LOG BOOK	18							18					
KIO ₃	19							19					
THIO	20							20					
	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.

370
OXY
IND8
2019-003
Bot 1

371
OXY
IND8
2019-003
Bot 2

372
OXY
IND8
2019-003
Bot 3

373
OXY
IND8
2019-003
Bot 4

374A
OXY
IND8
2019-003
Bot 5

374B
OXY
IND8
2019-003
Bot 5

375
OXY
IND8
2019-003
Bot 6

BLANK

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Last Updated: January 2017



Cruise and Analysis Information		Nisk ID	Nisk Int V	Sample S ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2019-003	1		377	3076	8.0	6.220		1					
Event:	118	2		378	3029	8.0	5.229		2					
Station:	INDO	3		379	3078	8.1	5.097		3					
Event Date (Local):	26 Jan 19	4		380	2085	8.2	4.955		4					
Analysis Date (Local):	27 Jan 19	5		381A	620	8.2	5.110		5	381B	622	8.2	5.113	☺
Analyst:	Tamar	6		382	1459	8.3	5.170		6					
Stdization Date (Local):	26 Jan 19	7							7					
KIO ₃ N:	0.012256	8							8					
Standard Titer:	0.5051	9							9					
Blank Titer:	0.0006	10							10					
THIO N:	0.242972	11							11					
Sample Flask Water Seal?	Yes	12							12					
	No	13							13					
Reagent Change?	MnCl ₂	14							14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15							15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16							16					
	KIO ₃	17							17					
	THIO	18							18					
Notes:		19							19					
		20							20					
		21							21					
		22							22					
		23							23					
		24							24					

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

377	378	379	380	381A	381B	382
OXY	OXY	OXY	OXY	OXY	OXY	OXY
IND0	IND0	IND0	IND0	IND0	IND0	IND0
2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003
Bot 1	Bot 2	Bot 3	Bot 4	Bot 5	Bot 5	Bot 6

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last Updated: July 2018

Cruise and Analysis Information	Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 2019-003	1		321	3041	7.9	5.039		1					
Event: 119	2		322	3044	8.0	5.011		2					
Station: VAN 7	3		323A	3048	7.9	4.936	→	3	323B	3099	7.9	4.935	☺
Event Date (Local): 26 Jan 19	4		324	3111	7.5	5.531		4					
Analysis Date (Local): 27 Jan 19	5							5					
Analyst: Tamariz	6							6					
Stdization Date (Local): 26 Jan 19	7							7					
KIO ₃ N: 0.012256	8							8					
Standard Titer: 0.5051	9							9					
Blank Titer: 0.0006	10							10					
THIO N: 0.242972	11							11					
Sample Flask Water Seal? <u>Yes</u>	12							12					
	13							13					
Reagent Change? MnCl ₂	14							14					
(Please circle reagent that was changed prior to sampling and standardization)	15							15					
NaI/NaOH	16							16					
H ₂ SO ₄	17							17					
NOTE NEW BATCH IN LOG BOOK	18							18					
KIO ₃	19							19					
THIO	20							20					
Notes:	21							21					
	22							22					
	23							23					
	24							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.

321	322	323A	323B	324
OXY	OXY	OXY	OXY	OXY
VAN7	VAN7	VAN7	VAN7	VAN7
2019-003	2019-003	2019-003	2019-003	2019-003
Bot 1	Bot 2	Bot 3	Bot 3	Bot 4

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last Updated: July 2018

Cruise and Analysis Information	Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 2019-003	1		33	3083	7.8	5.400		1					
Event: 120	2		314	3131	7.8	5.400		2					
Station: VAN6	3		35A	1311	7.9	5.383	→	3	315B	3120	7.9	5.388	
Event Date (Local): 26 Jan 19	4		316	3121	7.9	5.380		4					
Analysis Date (Local): 27 Jan 19	5		317	3143	7.9	5.357		5					
Analyst: Tamara	6		318	3164	7.9	5.336		6					
Stdization Date (Local): 26 Jan 19	7		319	308	7.8	5.373		7					
KIO ₃ N: 0.012256	8		320	932	7.6	5.490		8					
Standard Titer: 0.5051	9							9					
Blank Titer: 0.0006	10							10					
THIO N: 0.242972	11							11					
Sample Flask Water Seal? Yes	12							12					
	13							13					
Reagent Change? MnCl ₂	14							14					
(Please circle reagent that was changed prior to sampling and standardization)	15							15					
NaI/NaOH	16							16					
H ₂ SO ₄	17							17					
NOTE NEW BATCH IN LOG BOOK	18							18					
THIO	19							19					
Notes:	20							20					
	21							21					
	22							22					
	23							23					
	24							24					

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

313	314	315A	315B	316	317	318	319	320
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
VAN6	VAN6	VAN6	VAN6	VAN6	VAN6	VAN6	VAN6	VAN6
2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003
Bot 1	Bot 2	Bot 3	Bot 3	Bot 4	Bot 5	Bot 6	Bot 7	Bot 8

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
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Last Updated: July 2018

Cruise and Analysis Information		Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2019-003	1		287	196	7.9	5.005		1					
Event:	124	2		288	396	8.0	4.997		2					
Station:	VAN1	3		289	471	7.9	5.082		3					
Event Date (Local):	26 Jan 19	4		290	505	7.9	5.134		4					
Analysis Date (Local):	27 Jan 19	5		291	712	7.9	5.103		5					
Analyst:	Tamar (11)	6		292	1055	7.9	5.082	Accidental trip / use piston 11	6					
Stdization Date (Local):	26 Jan 19	7		293A	1223	8.1	4.957	→	7	293B	1094	8.2	4.954	☺
KIO ₃ N:	0.012256	8		294	1406	8.0	5.247		8					
Standard Titer:	0.5051	9		295	1407	7.9	5.450		9					
Blank Titer:	0.0006 (12)	10		296	1409	7.7	5.718	Accidental trip / use piston 12	10					
THIO N:	0.242972	11		292	1055	7.9		Actual bottle '6'	11					
Sample Flask Water Seal?	(Yes) No	12		296	1409	7.7			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					
Notes:		19							19					
		20							20					
		21							21					
		22							22					
		23							23					
		24							24					

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

287	288	289	290	291	292	293A	293B	294	295	296
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
VAN1	VAN1	VAN1	VAN1	VAN1	VAN1	VAN1	VAN1	VAN1	VAN1	VAN1
2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003
Bot 1	Bot 2	Bot 3	Bot 4	Bot 5	Bot 6	Bot 7	Bot 7	Bot 8	Bot 9	Bot 10

Turtle

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Last Updated: January 2017



Cruise and Analysis Information		Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2019-003	1	✓	✓	270	435	8.9	2.507		1					
Event:	125 125	2	✓	✓	271	439	8.9	2.521		2					
Station:	39	3	✓	✓	272	575	8.9	2.575		3					
Event Date (Local):	27 Jan 19	4	✓	✓	273	456	8.8	2.731		4					
Analysis Date (Local):	27 Jan 19	5	✓	✓	274	458	8.7	3.193		5					
Analyst:	Tamar	6	✓	✓	275	3173	8.6	3.725		6					
Stdization Date (Local):	26 Jan 19	7	✓	✓	276	3180	8.4	4.225		7					
KIO ₃ N:	0.012256	8	✓	✓	277	1422	8.2	4.864		8					
Standard Titer:	0.5051	9	✓	✓	278	1416	8.0	5.220		9					
Blank Titer:	0.0006	10	✓	✓	279A	2094	8.0	5.085	→	10	279B	3000	8.0	5.086	😊😊
THIO N:	0.242972	11	✓	✓	280	3010	8.1	4.532		11					
Sample Flask Water Seal?	(Yes) No	12	✓	✓	281A	1442	8.0	4.926	→	12	281B	3036	8.0	4.953	☹️
Reagent Change?	MnCl ₂	13	✓	✓	282	3106	8.0	5.285		13					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14	✓	✓	283	3074	7.7	5.818		14					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15	✓	✓	284	3079	7.3	6.487		15					
	KIO ₃	16	✓	✓	285	3098	7.2	6.694		16					
	THIO	17	✓	✓	286	3088	7.2	6.696		17					
Notes:		18								18					
		19								19					
		20								20					
		21								21					
		22								22					
		23								23					
		24								24					

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

270	271	272	273	274	275	276	277	278	279A	279B	280	281A	281B
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
2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003
Bot 1	Bot 2	Bot 3	Bot 4	Bot 5	Bot 6	Bot 7	Bot 8	Bot 9	Bot 10	Bot 10	Bot 11	Bot 12	Bot 12

282	283	284	285	286
OXY	OXY	OXY	OXY	OXY
39	39	39	39	39
2019-003	2019-003	2019-003	2019-003	2019-003
Bot 13	Bot 14	Bot 15	Bot 16	Bot 17

Shale

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Last Updated: January 2017



Cruise and Analysis Information		Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2019-003	1	✓	✓	383	690	4.330	8.6		1					
Event:	135	2	✓	✓	384	569	4.659	8.4	→	2	384b	2086	8.4	4.663	
Station:	46	3	✓	✓	385	3007	4.967	8.3		3					
Event Date (Local):	27 Jan 19	4	✓	✓	386	1054	5.284	8.1		4					
Analysis Date (Local):	27 JAN 2019	5	✓	✓	387	3008	5.313	8.1		5					
Analyst:	ms	6	✓	✓	388	2090	5.336	8.1		6					
Stdization Date (Local):	26 JAN 2019	7	✓	✓	389	1053	4.988	8.2		7					
KIO ₃ N:	0.01256	8	✓	✓	390	1465	4.986	8.2		8					
Standard Titer:	0.5051	9	✓	✓	391	3075	5.258	8.1		9					
Blank Titer:	0.0006	10	✓	✓	392	3108	5.445	8.0		10					
THIO N:	0.242972	11	✓	✓	393	2040	6.315	7.4	→	11	393b	3200	7.4	6.342	
Sample Flask Water Seal?	Yes	12	✓	✓	394	2020	6.583	7.2		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					
		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.

383	384A	384B	385	386	387	388	389	390	391	392	393A	393B	394
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
2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003
Bot 1	Bot 2	Bot 2	Bot 3	Bot 4	Bot 5	Bot 6	Bot 7	Bot 8	Bot 9	Bot 10	Bot 11	Bot 11	Bot 12

Run SIDS BEFORE ANALYSIS FOR $MnCl_2$ Chg

Stark

Last Updated: January 2017



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 T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2019-003	1		395	425	8.4	5.438		1					
Event:	139	2		396	2088	8.3	5.448		2					
Station:	59	3		397	2075	8.4	5.457		3					
Event Date (Local):	27 Jan 19	4		398	438	8.3	5.462	→	4	398	2000	8.3	5.456	
Analysis Date (Local):	27 JAN 2019	5		399	429	8.3	5.461		5					
Analyst:	MB	6		400	691	8.3	5.463		6					
Stdization Date (Local):	27 JAN 2019	7		401	1015	8.3	5.474		7					
KIO ₃ N:	0.012256	8		402	1019	8.3	5.468		8					
Standard Titer:	0.8053	9		403	3070	8.3	5.460		9					
Blank Titer:	0.0006	10		404	1314	8.3	5.460		10					
THIO N:	0.242754	11		405	1440	8.3	5.463	→	11	405	2035	8.3	5.465	
Sample Flask Water Seal?	Yes	12		406	2068	8.3	5.452		12					
	No	13		407	650	8.3	5.461		13					
Reagent Change?	MnCl ₂	14		408	2087	8.4	5.465		14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15							15					
	H ₂ SO ₄	16							16					
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17							17					
	THIO	18							18					
Notes:		19							19					
		20							20					
		21							21					
		22							22					
		23							23					
		24							24					

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

395	396	397	398A	398B	399	401	402
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
59	59	59	59	59	59	59	59
2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003
Bot 1	Bot 2	Bot 3	Bot 4	Bot 4	Bot 5	Bot 7	Bot 8
					2019-003		
					Bot 6		
403	404	405A	405B	406	407	408	
OXY	OXY	OXY	OXY	OXY	OXY	OXY	
59	59	59	59	59	59	59	
2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	
Bot 9	Bot 10	Bot 11	Bot 11	Bot 12	Bot 13	Bot 14	

Nessie

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

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Cruise and Analysis Information		Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2019-003	1		410	196	8.6	4.375		1					
Event:	143	2		411	396	8.6	4.575		2					
Station:	69	3		412A	505	8.6	5.001	→	3	412B	471	8.7	5.059	
Event Date (Local):	27-01-2019	4		413	712	8.6	5.156		4					
Analysis Date (Local):	27 Jan 2019	5		414	1055	8.5	5.237		5					
Analyst:	MS	6		415	1223	8.5	5.232		6					
Stdization Date (Local):	27 Jan 2019	7		416	1094	8.5	5.238		7					
KIO ₃ N:	0.012256	8		417	1406	8.5	5.234		8					
Standard Titer:	0.5057	9		418	1407	8.5	5.281		9					
Blank Titer:	0.0006	10		419A	3030	8.5	5.386	→	10	419B	1409	8.5	5.385	
THIO N:	0.242753	11		420	2055	8.5	5.405		11					
Sample Flask Water Seal?	Yes	12		421	2065	8.5	5.412		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					
		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.

410	411	412A	413	414	416
OXY	OXY	OXY	OXY	OXY	OXY
69	69	69	69	69	69
2019-003	2019-003	2019-003	2019-003	2019-003	2019-003
Bot 1	Bot 2	Bot 3	Bot 4	Bot 5	Bot 7

412B
OXY
69
2019-003
Bot 3

417	415	418	419A	419B	420	421
OXY	OXY	OXY	OXY	OXY	OXY	OXY
69	69	69	69	69	69	69
2019-003	2019-003	2019-003	2019-003	2019-003	2019-003	2019-003
Bot 8	Bot 6	Bot 9	Bot 10	Bot 10	Bot 11	Bot 12

Dissolved Oxygen Analysis Log Sheet

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Water Properties Group

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Run out of NaOH/NaI Midway through sampling
Run STDs/BKs again for samples 1-5

Cruise and Analysis Information		Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw T1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2019-003	1		422	2079	8.4	3.927	→ Accidentally ran with previous STDs	1					
Event:	147	2		423	3018	8.4	3.921		2					
Station:	72	3		424	3014	8.4	3.981	File 14702	3					
Event Date (Local):	27 JAN 2019	4		425A	2071	8.5	4.339	Applied new STDs To THESE SAMPLE	4	425B	3037	8.5	4.336	We did this first
Analysis Date (Local):	27 JAN 2019	5		426	3155	8.4	4.699	Change chem bottle here. N2/O2 head can out	5					
Analyst:	MB	6		427	3135	8.4	5.171		6					
Stdization Date (Local):	27 JAN 2019	7		428	3110	8.4	5.338		7					
KIO ₃ N:	0.012256 (previous) (new STD)	8		429	3076	8.4	5.357		8					
Standard Titer:	0.5053 0.5085	9		430	3029	8.4	5.408	File 14701 OVER-TIT'D. USED PREVIOUS STANDARDS	9					
Blank Titer:	0.0006 0.0004	10		431	3078	8.3	5.816		10					
THIO N:	0.247154 0.2411036	11		432A	2085	8.3	5.885	→ OVER-TIT'D	11	432B	620	8.3	5.881	
Sample Flask Water Seal?	Yes	12		433	622	8.3	5.887		12					
	No	13		434	1459	8.3	5.918		13					
Reagent Change?	MnCl ₂	14							14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15							15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16							16					
	KIO ₃	17							17					
	THIO	18							18					
Notes:		19							19					
		20							20					
		21							21					
		22							22					
		23							23					
		24							24					

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

422	427	428	429	430
OXY	OXY	OXY	OXY	OXY
72	72	72	72	72
2019-003	2019-003	2019-003	2019-003	2019-003
Bot 1	Bot 6	Bot 7	Bot 8	Bot 9

431	432A	432B	433	434
OXY	OXY	OXY	OXY	OXY
72	72	72	72	72
2019-003	2019-003	2019-003	2019-003	2019-003
Bot 10	Bot 11	Bot 11	Bot 12	Bot 13

423	424	425A	425B	426
OXY	OXY	OXY	OXY	OXY
72	72	72	72	72
2019-003	2019-003	2019-003	2019-003	2019-003
Bot 2	Bot 3	Bot 4	Bot 4	Bot 5