

Turtle.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences

Water Properties Group



Cruise and Analysis Information				OXY-1 Comments				OXY-2 Comments			
Nis k ID	Nis k Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	Nis k ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	
Cruise Number: 2019-1b											
Event: 001											
Station: SI											
Event Date (Local): APRIL 06 2019											
Analysis Date (Local): 06 April 2019											
Analyst: KS											
Stratization Date (Local): 06 April 2019											
KIO ₃ N: 0.0119329											
Standard Titer: 0.147603											
Blank Titer: 0.00054											
THIO N: 0.25106											
Sample Flask Water Seal? ☒ Yes ☐ No											
Reagent Change? ☐ MnCl ₂ ☐ NaI/NaOH ☐ H ₂ SO ₄ ☐ KIO ₃ ☒ THIO											
(Please circle reagent that was changed prior to sampling and standardization)											
NOTE NEW BATCH IN LOG BOOK											
Notes:											
19		1	2	3	4	5	6	7	8	9	
20		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	
21		Stn SI	Stn SI	Stn SI	Stn SI	Stn SI	Stn SI	Stn SI	Stn SI	Stn SI	
22		2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	
23		Bot 1	Bot 2	Bot 3	Bot 4	Bot 5	Bot 6	Bot 6	Bot 7	Bot 8	
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.

TURTLE

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences

Water Properties Group



Cruise and Analysis Information				Nisk				Nisk				Nisk				Nisk															
Cruise Number: 2019-016				ID				Sample ID				Flask 1				Draw T1															
Event: 2				V S				ID				1				T1															
Station: IND 0																															
Event Date (Local): 07 APRIL																															
Analysis Date (Local): 07 April 19																															
Analyst: KS																															
Standardization Date (Local): 07 April 19																															
KIO ₃ N: 0.0118147																															
Standard Titer: 0.47164																															
Blank Titer: 0.00033																															
THIO N: 0.25077																															
Sample Flask																															
Water Seal?																															
Reagent Change?																															
(Please circle reagent that was changed prior to sampling and standardization)																															
NOTE NEW BATCH IN LOG BOOK																															
H ₂ SO ₄																															
KIO ₃																															
THIO																															
Notes:																															
19				10				11				12A				13				14				15				12B			
20				OXY				OXY				OXY				OXY				OXY				OXY							
21				IND 0				IND 0				IND 0				IND 0				IND 0				IND 0							
22				2019-016				2019-016				2019-016				2019-016				2019-016				2019-016							
23				Bot 1				Bot 2				Bot 3				Bot 4				Bot 5				Bot 6							
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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Water Properties Group

Cruise and Analysis Information				Nisk k ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk k ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2019-016			1	16	3046	8.5		5.464		1					
Event:	4			2	17	2089	8.5		5.368		2					
Station:	IND 2			3	18	371	8.5		5.419		3					
Event Date (Local):	07 APRIL			4	19	2055	8.4		5.306		4					
Analysis Date (Local):	07 April 19			5	20	1094	8.2		4.923		5					
Analyst:	KS			6	21	396	8.4		4.579	- Invalid Flask ID used 101094	6					
Standardization Date (Local):	07 Apr. 19			7	22	471	8.6		5.352		7					
KIO ₃ N:	0.0118147			8	23	337	8.9		5.757	→	8	3049	8.9		5.755	Analyzed last.
Standard Titer:	0.247164			9	24	1055	9.1		6.673		9					
Blank Titer:	0.00033			10	25	1406	9.3		6.634		10					
THIO N:	0.2507			11	26	2060	9.9		8.212		11					
Sample Flask Water Seal?	☒ Yes No			12							12					
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:

16	17	18	19	20	21	22	23A	24	25	26	23B
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
IND 2	IND 2	IND 2	IND 2	IND 2	IND 2	IND 2	IND 2	IND 2	IND 2	IND 2	IND 2
2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016
Bot 1	Bot 2	Bot 3	Bot 4	Bot 5	Bot 6	Bot 7	Bot 8	Bot 9	Bot 10	Bot 11	Bot 8

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

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Institute of Ocean Sciences
Water Properties Group

Cruise and Analysis Information				NIS k ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	NIS k ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2019-16			1		27	3047	8.6	5.252		1					
Event:	6			2		28	2025	8.0	5.302		2					
Station:	IND 04			3		29	3199	8.5	5.446		3					
Event Date (Local):	7/4/19			4		30	317	8.5	5.493		4					
Analysis Date (Local):	07 Apr 19			5		31A	2007	8.5	5.438	→	5	31B	3192	8.5	5.438	
Analyst:	KS			6		32	3094	8.5	5.321		6					
Standardization Date (Local):	07 Apr 19			7		33	3033	8.3	5.411		7					
KIO ₃ N:	0.018147			8		34	3065	8.2	4.886		8					
Standard Titer:	0.47164			9		35	3062	8.3	4.839		9					
Blank Titer:	0.00033			10		36	3034	8.3	4.746		10					
THIO N:	0.2507			11		37	2047	8.3	4.419	⇒	11	37	2072	8.3	4.43	≈
Sample Flask Water Seal?	(Yes) No			12		38	3032	8.7	5.129		12					
Reagent Change?	MnCl ₂			13		39	3116	9.5	7.813		13					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH			14		40	3009	9.6	8.867		14					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄			15							15					
	KIO ₃			16							16					
	THIO			17							17					
				18							18					
				19							19					

Notes:

27	28	29	30	31A	31B	32	33	34	35	36	37A	37B	38	39	40
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
IND 4	IND 4	IND 4	IND 4	IND 4	IND 4	IND 4	IND 4	IND 4	IND 4	IND 4	IND 4	IND 4	IND 4	IND 4	IND 4
2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016
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 11	Bot 12	Bot 13	Bot 14

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Whole



Cruise and Analysis Information				Nisk				Nisk				Nisk													
Cruise Number:	Event:	Station:	Event Date (Local):	Analysis Date (Local):	Analyst:	Standardization Date (Local):	KIO ₃ N:	Standard Titer:	Blank Titer:	THIO N:	Sample Flask Water Seal?	Reagent Change?	Notes:	Nisk ID	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
2019-016	7	IND 8	07 Apr 19	07 Apr 19	K5	07 Apr 19	0.0118147	0.47164	0.00033	0.25077	Yes	MnCl ₂		1	41	3074	8.3	4.592		1					
												NaI/NaOH		2	42	930	8.3	4.543		2					
												H ₂ SO ₄		3	43A	3133	8.3	4.470	=>	3	43B	3103	8.3	4.476	
												NOTE NEW BATCH IN LOG BOOK		4	44	3080	9.1	7.209		4					
														5	45	3101	9.6	9.415		5					
														6	46	3086	10.1	9.571		6					
														7						7					
														8						8					
														9						9					
														10						10					
														11											
														12											
														13											
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														18											
														19											
														20											
														21											
														22											
														23											
														24											

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

**Institute of Ocean Sciences
Water Properties Group**



Whale

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

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Bender



Last Updated: July 2018

Cruise and Analysis Information				NIS k ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	NIS k ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2019-016			1		55	456	9.1	5.76	5.761	1					
Event:	13			2		56	3093	9.1	5.737	⇒	2	56B	612	9.1	5.744	
Station:	VAN6			3		57	3148	9.2	5.793		3					
Event Date (Local):	07 April 2019			4		58	570	9.1	5.822		4					
Analysis Date (Local):	07 April 2019			5		59	3138	9.2	5.846		5					
Analyst:	KS			6		60	3190	9.4	6.040		6					
Standardization Date (Local):	07 April 2017			7		61	570	9.6	6.373		7					
KIO ₃ N:	0.0118147			8		62	745	9.7	6.452		8					
Standard Titer:	0.47164			9							9					
Blank Titer:	0.000033			10							10					
THIO N:	0.2587			11		55	56A									
Sample Flask Water Seal?	Yes			12		OXY	OXY									
Reagent Change?	NaCl ₂			13		VAN 6	VAN 6									
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH			14		2019-016	2019-016									
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄			15		Bot 1	Bot 2									
	KIO ₃			16												
	THIO			17												
Notes:				18												
				19												
				20												
				21												
				22												
				23												
				24												

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

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Water Properties Group

Bender



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:	2019-016			1		63	708	9.3	5.734		1					
Event:	14			2		64	3146	9.3	5.730		2					
Station:	VANS			3		65A	708	9.3	5.760	→ No 1st in thio on 14	3	65B	3002	9.4	5.930	???
Event Date (Local):	07 April 2019			4		66	611	9.6	6.449	attemp.	4					
Analysis Date (Local):	07 April 2019			5		67	3165	9.6	6.599		5					
Analyst:	KS			6		68	3175	9.7	6.720		6					
Standardization Date (Local):	07 April 2019			7												
KIO ₃ N:	0.0118147			8		63		64		65A		66		67		68
Standard Titer:	0.471164			9		OXY		OXY		OXY		OXY		OXY		OXY
Blank Titer:	0.00033			10		VAN 5		VAN 5		VAN 5		VAN 5		VAN 5		VAN 5
THIO N:	0.25077			11		2019-016		2019-016		2019-016		2019-016		2019-016		2019-016
Sample Flask	Yes			12		Bot 1		Bot 2		Bot 3		Bot 4		Bot 5		Bot 6
Water Seal?	No			13												
Reagent Change?	MnCl ₂			14												
(Please circle reagent that was changed prior to sampling and standardization)	NaCl/NaOH			15												
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄			16												
	KIO ₃			17												
	THIO			18												
Notes:				19												
				20												
				21												
				22												
				23												
				24												

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

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Institute of Ocean Sciences
Water Properties Group



Cruise and Analysis Information				Nis k ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nis k ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2019-016			1		85	3129	9.1	5.220		1					
Event:	15			2		86	3162	9.0	5.156		2					
Station:	VAN4			3		87	3053	9.1	5.254		3					
Event Date (Local):	07 April 2019			4		88A	3038	9.1	5.384	→	4	88B	3053	9.1	5.390	
Analysis Date (Local):	07 April 2019			5		89	3209	9.2	5.515		5					
Analyst:	KS			6		90	3096	9.4	6.144		6					
Standardization Date (Local):	07 April 2019			7		91	3144	9.6	6.467		7					
KIO ₃ N:	0.0118147			8		97	3066	9.7	6.590		8					
Standard Titer:	0.47164			9												
Blank Titer:	0.00033			10		85										
THIO N:	0.75677			11		OXY										
Sample Flask Water Seal?	Yes			12		VAN 4										
	No			13		2019-016										
Reagent Change?	MnCl ₂			14		Bot 1										
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH			15												
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄			16												
	KIO ₃			17												
	THIO			18												
Notes:				19												
				20												
				21												
				22												
				23												
				24												

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

**Institute of Ocean Sciences
Water Properties Group**



Water Properties Group

Notes:

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.

Turtle.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Cruise and Analysis Information				OXY-1 Comments											OXY-2 Comments																	
Cruise Number:	Event:	Station:	Event Date (Local):	Analysis Date (Local):	Analyst:	Standardization Date (Local):	KIO ₃ N:	Standard Titer:	Blank Titer:	THIO N:	Sample Flask Water Seal?	Reagent Change?	NOTE NEW BATCH IN LOG BOOK																			
2619-16	29	16	8/4/19	08 April 19	K5	07 April 19	0.018147	0.47164	0.00033	0.75077	Yes	No	MnCl ₂ NaI/NaOH H ₂ SO ₄ KIO ₃ THIO																			
Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)												Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)											
1		107	2099	9.6	3.383												1															
2		108	2049	9.5	3.498												2															
3		109	3037	9.5	3.891												3															
4		110	3076	9.4	4.653												4															
5		111A	3014	9.4	5.071												5	111B	3081	9.4	5.076											
6		112	3110	9.4	5.294												6															
7		113	3078	9.4	5.447												7															
8		114	3131	9.4	5.479												8															
9		115A	3029	9.5	5.547												9	115A	9.4		5.549	Flask 2085										
10		116	1459	9.5	5.757												10															
11		117	620	9.7	5.818												11															
12																	12															
13		107	108	109	110	111A	111B	112	113	114	115A	115B	116	117																		
14		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY																		
15		16	16	16	16	16	16	16	16	16	16	16	16	16																		
16		2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016																		
17		Bot 1	Bot 2	Bot 3	Bot 4	Bot 5	Bot 5	Bot 6	Bot 7	Bot 8	Bot 9	Bot 9	Bot 10	Bot 11																		
18																	18															
19																	19															
20																	20															
21																	21															
22																	22															
23																	23															
24																	24															

Notes: 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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Water Properties Group

Tuttle



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:	2019-016		1		118	3018	10.0	2.652		1					
Event:	34		2		119	3048	9.8	3.000		2					
Station:	14		3		120	3120	9.7	3.456	3.4103	3					
Event Date (Local):	08 April 2019		4		121	3041	9.6	3.656		4					
Analysis Date (Local):	08 April 2019		5		122A	3155	9.5	3.797		5	122B	3044	9.5	3.791	
Analyst:	KS		6		123	1311	9.5	3.733		6					
Standardization Date (Local):	07 April 2019		7		124	3111	9.5	3.620		7					
KIO ₃ N:	0.0118147		8		125	3099	9.3	4.293	-Forgot this tip on first attempt	8					
Standard Titer:	0.47164		9		126	3143	9.4	5.009		9					
Blank Titer:	0.00033		10		127	3135	9.4	5.166		10					
THIO N:	0.23077		11		128A	3083	9.4	5.197	B before A	11	128B	3121	9.4	5.207	
Sample Flask Water Seal?	Yes		12		129	3164	9.4	5.246		12					
Reagent Change?	MnCl ₂		13		130	3019	9.4	5.351		13					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH		14		131	932	9.5	5.391		14					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄		15		132	622	9.7	5.155		15					
	KIO ₃														
	THIO														
Notes:			16		118	119	120	121	122A	122B	123	124	125		
			17		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY		
			18		14	14	14	14	14	14	14	14	14		
			19		2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016		
			20		Bot 1	Bot 2	Bot 3	Bot 4	Bot 5	Bot 5	Bot 6	Bot 7	Bot 8		
			21												
			22												
			23		126	127	128A	128B	129	130	131	132			
			24		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY			
					14	14	14	14	14	14	14	14			
					2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016			
					Bot 9	Bot 10	Bot 11	Bot 11	Bot 12	Bot 13	Bot 14	Bot 15			

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

ity check and explain this in the comments column.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Whale



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: 2019-016				1		133	3074	9.7	2.524		1					
Event: 39				2		134	930	9.7	2.823		2					
Station: 12				3		135	3133	9.5	3.456	⇒	3	135B	1442	9.5	3.456	
Event Date (Local): 08 APR 2019				4		136	3103	9.6	3.245		4					
Analysis Date (Local): 08 April 19				5		137	3080	9.5	3.335		5					
Analyst: KS				6		138	3101	9.5	3.428		6					
Stdization Date (Local): 07 April 19				7		139	3086	9.3	3.818		7					
KIO ₃ N: 0.0118147				8		140	3084	9.3	4.082		8					
Standard Titer: 0.47164				9		141	3142	9.4	3.690	⇒	9	141B	3080	9.4	3.689	
Blank Titer: 0.00033				10		142	3095	9.2	5.354		10					
THIO N: 0.25077				11		143	3079	9.1	6.022		11					
Sample Flask Water Seal? Yes				12		144	3098	9.2	6.131		12					
				13		145	3088	9.4	6.606		13					
Reagent Change? MnCl ₂				14		146	3087	9.8	7.209		14					
(Please circle reagent that was changed prior to sampling and standardization)				15		147	3090	10.0	7.308		15					
NOTE NEW BATCH IN LOG BOOK				16		148	2094	10.3	7.322		16					
				17												
				18												
				19												
				20												
				21												
				22												
				23												
				24												

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

and explain this in the comments column.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Sea Turtle

Cruise and Analysis Information				Nisk				Nisk				Nisk			
ID	V	S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments		
Cruise Number:	2019-016			149	2099	9.5	3.157	1							
Event:	41			150	2049	9.5	3.338	2							
Station:	9			151	3032	9.4	3.736	3							
Event Date (Local):	08 April 19			152	3076	9.4	3.645	4							
Analysis Date (Local):	08 April 19			153	3014	9.3	3.626	5							
Analyst:	KS			154	3081	9.1	3.941	6							
Standardization Date (Local):	07 April 19			155	3110	8.9	4.736	7							
KIO ₃ N:	0.0118147			156	3078	9.0	5.237	8	156B	6209	9.0	5.242			
Standard Titer:	0.47164			157	3131	9.1	5.386	9							
Blank Titer:	0.00033			158	3029	9.2	5.712	10							
THIO N:	0.25077			159	2085	9.4	6.084	11							
Sample Flask Water Seal?	☒ Yes			160	1459	9.7	6.681	12	160B	622	9.7	6.728			
Reagent Change?	☒ MnCl ₂			149	150	151	152	153	154	155	156A	157	158	159	160A
(Please circle reagent that was changed prior to sampling and standardization)	☒ NaI/NaOH			OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
NOTE NEW BATCH IN LOG BOOK	☒ H ₂ SO ₄			Stn 9	Stn 9	Stn 9	Stn 9	Stn 9	Stn 9	Stn 9	Stn 9	Stn 9	Stn 9	Stn 9	Stn 9
	☒ KIO ₃			2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016
	☒ THIO			Bot 1	Bot 2	Bot 3	Bot 4	Bot 5	Bot 6	Bot 7	Bot 8	Bot 9	Bot 10	Bot 11	Bot 12
Notes:				156B	160B										
				OXY	OXY										
				Stn 9	Stn 9										
				2019-016	2019-016										
				Bot 8	Bot 12										

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.

23

Humpy.



Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Cruise and Analysis Information				Nisk ID	Nisk Int V	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: 2019-0116				1		1161	3074	9.1	3.950		1					
Event: 43				2		1162	930	8.9	4.408		2					
Station: 6				3		1163A	3133	9.2	3.671	→	3	1163B	3103	9.3	3.883	
Event Date (Local): 08 APRIL				4		1164	3080	9.3	3.703		4					
Analysis Date (Local): 09 April 19				5		1165	3101	9.3	3.690		5					
Analyst: KS				6		1166	3086	9.3	3.689		6					
Standardization Date (Local): 09 Apr. 119				7		1167	3084	9.0	4.196		7					
KIO ₃ N: 0.0118147				8		1168	3142	9.0	4.557		8					
Standard Titer: 0.47148				9		1169	3095	9.1	5.010		9					
Blank Titer: 0.00033				10		1170	3079	9.1	5.490		10					
THIO N: 0.25080				11		1171	3098	9.3	5.625		11					
Sample Flask Water Seal? ☒ Yes				12		1172A	3088	9.5	5.959	→ Run on f. filtration. Late EP. Old	12	1172B	3089	9.5	5.954	
				13		1173	3090	9.8	6.054	→ Sample missing water seal.	13					
Reagent Change? ☐ No																
MnCl ₂																
NaI/NaOH																
(Please circle reagent that was changed prior to sampling and standardization)																
H ₂ SO ₄																
KIO ₃																
NOTE NEW BATCH IN LOG BOOK																
THIO																
Notes: Ran standards but no blanks. No chemical changes.																
2019-016				169	170	171	172A	172B	173		20					
Stn 6				OXY	OXY	OXY	OXY	OXY	OXY		21					
2019-016				169	170	171	172A	172B	173		22					
Stn 6				OXY	OXY	OXY	OXY	OXY	OXY		23					
2019-016				169	170	171	172A	172B	173		24					
Stn 6				OXY	OXY	OXY	OXY	OXY	OXY							

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

WHALE

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Turtle

Cruise and Analysis Information				Nisk ID	Nisk Int V	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: 2019-016				1		174	2099	9.1	2.331	Some bubbles in Alk 10A	1						
Event: 47				2		175	2049	9.7	2.408		2						
Station: 3				3		176	3037	9.6	2.660		3						
Event Date (Local): 09 APRIL				4		177	3076	9.5	2.989		4						
Analysis Date (Local): 09 April 19				5		178	3014	9.4	3.437		5						
Analyst: KS				6		179A	3081	8.9	4.651	→	6	179B	3110	8.9	4.654		
Standardization Date (Local): 09 April 19				7		180	3078	8.7	5.011		7						
KIO ₃ N: 0.0118147				8		181	3131	8.8	4.743		8						
Standard Titer: 0.471148				9		182	3029	9.1	4.202		9						
Blank Titer: 0.00033				10		183	2085	9.1	4.193		10						
THIO N: 0.25080				11		184	1459	9.1	4.390	Some bubbles in Alkaline 10A	11						
Sample Flask Water Seal? Yes				12		185	6220	9.1	5.113		12						
				13		186	6222	9.3	5.924		13						
				14		187	3018	9.5	6.550		14						
Reagent Change? MnCl ₂				15		188A	3048	9.8	6.843	→	15	188B	3120	9.7	6.848		
(Please circle reagent that was changed prior to sampling and standardization)				16		189			6.993		16						
NOTE NEW BATCH IN LOG BOOK				17		174	175	176	177	178	179A	179B	180	181	182	183	184
				18		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
				19		Stn 3	Stn 3	Stn 3	Stn 3	Stn 3	Stn 3	Stn 3	Stn 3	Stn 3	Stn 3	Stn 3	Stn 3
				20		2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016
				21		Bot 1	Bot 2	Bot 3	Bot 4	Bot 5	Bot 6	Bot 6	Bot 7	Bot 8	Bot 9	Bot 10	Bot 11
				22													
				23		186	185	187	188A	188B	189	23					
				24		OXY	OXY	OXY	OXY	OXY	OXY	24					

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

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

Geek

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences

Last Updated: January 2017



Water Properties Group

Cruise and Analysis Information

Cruise Number: 2019-16

Event: 57

Station: 2

Event Date (Local): 09 APRIL

Analysis Date (Local): 09 April 19

Analyst: KS

Stratization Date (Local): 09 April 19

KIO₃ N: 0.0118147

Standard Titer: 0.00033

Blank Titer: 0.25080

THIO N: 0.25080

Sample Flask Water Seal? Yes

Reagent Change? No

MnCl₂ NaI/NaOH

H₂SO₄

KIO₃

THIO

Notes:

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								
1				193	456	9.7	2.455			1													
2				194	3093	9.6	2.661			2													
3				195	3148	9.4	3.353			3													
4				196	570	9.1	4.168			4													
5				197A	3138	8.8	4.703	4.699		5	197B	3190	8.8	4.703	4.699								
6				198	510	8.7	4.881			6													
7				199	745	8.9	4.582			7													
8				200	612	9.1	4.136			8													
9				201	3043	9.1	4.128			9													
10				202	2098	9.1	4.262			10													
11				203	3146	9.1	4.586			11													
12				204	708	9.3	5.478			12													
13				205	611	10.1	6.876			13													
14				206A	3145	10.3	7.160			14	206B	3195	10.3	7.158									
15				207	3002	10.5	7.144			15	207												
Sample missing water seal -																							
193	OXY	194	OXY	195	OXY	196	OXY	197A	OXY	197B	OXY	198	OXY	199	OXY	200	OXY	201	OXY	202	OXY	203	OXY
2		2		2		2		2		2		2		2		2		2		2		2	
2019-016		2019-016		2019-016		2019-016		2019-016		2019-016		2019-016		2019-016		2019-016		2019-016		2019-016		2019-016	
Bot 1		Bot 2		Bot 3		Bot 4		Bot 5		Bot 5		Bot 6		Bot 7		Bot 8		Bot 9		Bot 10		Bot 11	
204	OXY	205	OXY	206A	OXY	206B	OXY	207	OXY														
2		2		2		2		2		2		2		2		2		2		2		2	
2019-016		2019-016		2019-016		2019-016		2019-016		2019-016		2019-016		2019-016		2019-016		2019-016		2019-016		2019-016	
Bot 12		Bot 13		Bot 14		Bot 14		Bot 15															

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

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

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences

Water Properties Group

Shark

Last Updated: January 2017



Cruise and Analysis Information

Cruise Number: 2019-016

Event: 58

Station: 27

Event Date (local): 09 April 2019

Analysis Date (local): 09 April 2019

Analyst: KS

Standardization Date (local): 09 April 2019

KIO₃ N: 0.0118147

Standard Titer: 0.41148

Blank Titer: 0.00033

THIO N: 0.25080

Sample Flask

Water Seal? Yes

Reagent Changed?

(Please circle reagent that was changed prior to sampling and standardization)

NOTE NEW BATCH IN LOG BOOK

MnCl₂
NaI/NaOH
H₂SO₄
KIO₃
THIO

Notes:

Bottle integrity: First test the top vent (V)

Nisk ID	Nisk Int V	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													
1		211	3049	10.1	2.315		1																		
2		212	2025	10.1	2.429		2																		
3		213	3199	9.9	2.924		3																		
4		214	3117	9.1	4.770		4																		
5		215	215	9.0	4.904	2007	5																		
6		216A	3192	8.8	5.261	→	6	216B	3094	8.9	5.194														
7		217	3033	8.7	5.469		7																		
8		218	3065	8.7	4.547	5.341	8																		
9		219	3062	9.1	4.547		9																		
10		220	3054	9.3	3.802		10																		
11		221	2047	9.2	4.075		11																		
12		222A	2079	9.3	5.524	→	12	222B	3032	9.3	5.524														
13		223	3116	9.5	5.964		13																		
14		224	3009	9.8	6.577		14																		
15		225	2013	10.3	7.174		15																		
16		226	2026	10.5	7.234	Flask 2032	16																		
211	OXY	212	OXY	213	OXY	214	OXY	215	OXY	216A	OXY	216B	OXY	217	OXY	218	OXY	220	OXY	219	OXY	221	OXY	222A	OXY
27		27		27		27		27		27		27		27		27		27		27		27		27	
2019-016		2019-016		2019-016		2019-016		2019-016		2019-016		2019-016		2019-016		2019-016		2019-016		2019-016		2019-016		2019-016	
Bot 1		Bot 2		Bot 3		Bot 4		Bot 5		Bot 6		Bot 6		Bot 7		Bot 8		Bot 10		Bot 9		Bot 11		Bot 12	
222B		223		224		225		226																	
OXY		OXY		OXY		OXY		OXY																	
27		27		27		27		27																	
2019-016		2019-016		2019-016		2019-016		2019-016		2019-016		2019-016		2019-016		2019-016		2019-016		2019-016		2019-016		2019-016	
Bot 12		Bot 13		Bot 14		Bot 15		Bot 16																	

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

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

Dissolved Oxygen Analysis Log Sheet

Bender

Institute of Ocean Sciences
Water Properties Group

Cruise and Analysis Information				Nisk				Nisk Int				Sample				Flask 1				Draw				OXY-1 Comments				Nisk				Sample				Flask 2				Draw				OXY-2				OXY-2 Comments																			
Cruise Number: 2019-016				ID				V				S				ID				T 1 (°C)				OXY-1 (mL/L)								ID				ID				T 2 (°C)				OXY-2 (mL/L)																							
Event: 46				1				230				456				9.9				2.231								1				233B				3126				9.0				4.510																							
Station: 39				2				231				3093				9.8				2.249								2																																							
Event Date (Local): 09 April 2019				3				232				3148				9.8				2.579								3																																							
Analysis Date (Local): 09 April 2019				4				233A				570				9.0				4.509				=>				4																																							
Analyst: KS				5				234				3138				8.7				5.167								5				245B																																			
Standardization Date (Local): 09 April 2019				6				235				3190				8.7				4.957								6																																							
KIO ₃ N: 0.0118147				7				236				510				8.7				5.201								7																																							
Standard Titer: 0.47148				8				237				745				8.5				5.297								8																																							
Blank Titer: 0.00033				9				238				612				8.5				5.352								9																																							
THIO N: 0.73080				10				239				3043				8.5				5.267								10																																							
Sample Flask Water Seal? Yes				11				240				2098				8.6				5.063								11																																							
				12				241				3146				8.7				4.759								12																																							
				13				242				708				8.9				4.621								13																																							
				14				243				611				9.0				5.164								14																																							
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization)				15				244				3165				9.9				7.363								15																																							
NOTE: NEW BATCH IN LOG BOOK				16				245A				3175				10.6				7.943								16																																							
				17				246				3002				10.7				8.008								17																																							
				18																								18																																							
Notes:				233A				234				235				236				237				238				239				240				241				242				243				244				245A				246											
230 OXY				231 OXY				232 OXY				233A OXY				234 OXY				235 OXY				236 OXY				237 OXY				238 OXY				239 OXY				240 OXY				241 OXY				242 OXY				243 OXY				244 OXY				245A OXY				246 OXY			
Stn 39				Stn 39				Stn 39				Stn 39				Stn 39				Stn 39				Stn 39				Stn 39				Stn 39				Stn 39				Stn 39				Stn 39				Stn 39				Stn 39				Stn 39				Stn 39				Stn 39			
2019-016				2019-016				2019-016				2019-016				2019-016				2019-016				2019-016				2019-016				2019-016				2019-016				2019-016				2019-016				2019-016				2019-016				2019-016				2019-016				2019-016			
Bot 1				Bot 2				Bot 3				Bot 4				Bot 5				Bot 6				Bot 7				Bot 8				Bot 9				Bot 10				Bot 11				Bot 12				Bot 13				Bot 14				Bot 15				Bot 16							

end point. Sample O.T.D. Titration can be causing a late

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

Shirley



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 to

Bender: $\frac{1}{2}$



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

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last Updated: July 2021

Cruise and Analysis Information				Nisk				Nisk				Nisk				Nisk										
Cruise Number:	Event:	Station:	Event Date (Local):	Analysis Date (Local):	Analyst:	Standardization Date (Local):	KIO ₃ N:	Standard Titer:	Blank Titer:	THIO N:	Sample Flask Water Seal?	Reagent Change?	(Please circle reagent that was changed prior to sampling and standardization)	LOG BOOK	Nisk ID	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
2019-16	56 82	56	10 April 2019	10 April 19	KS	10 April 19	0.0118147	0.47158	0.00068	0.25086	Yes	MnCl ₂	H ₂ SO ₄	THIO	1	276	3165	8.9	5.255		1	276	3165	8.9	5.255	
															2	277	3175	8.9	5.299		2					
															3	278	302	8.9	5.333	→	3	278	3126	8.9	5.331	
															4	779	3129	8.9	5.346		4					
															5	280	3162	8.9	5.462		5					
															6	281	3053	9.0	5.526		6					
															7	282	3038	9.0	5.591		7					
															8	283	3209	9.0	5.621		8					
															9	284	3096	9.1	5.622		9					
															10	285	3144	9.0	5.625		10					
															11	286	3066	9.1	5.644		11					
															12	287	3023	9.2	5.713		12					
															13	288A	3132	9.3	5.771	→	13	288B	3161	9.3	5.772	
															14	289	3091	9.5	5.854		14					
															15	276	277	278A	278B	279	280	281	282			
															16	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY			
															17	Stn 56	Stn 56	Stn 56	Stn 56	Stn 56	Stn 56	Stn 56	Stn 56			
															18	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016			
															19	Bot 1	Bot 2	Bot 3	Bot 3	Bot 4	Bot 5	Bot 6	Bot 7			
															20											
															21	283	284	285	286	287	288A	288B	289			
															22	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY			
															23	Stn 56	Stn 56	Stn 56	Stn 56	Stn 56	Stn 56	Stn 56	Stn 56			
															24	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016			

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

egritly check and explain this in the comments column.

Turtle

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 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:	2019-016			1		290	2697	8.9	5.107		1							
Event:	85			2		291	2049	8.9	5.129		2							
Station:	59			3		292	3037	8.9	5.200		3							
Event Date (Local):	10 APRIL			4		293A	3076	8.9	5.313	→	4	293B	3014	8.9	5.312			
Analysis Date (Local):	10 April 19			5		294	3049	8.9	5.324	3081	5							
Analyst:	KS			6		295	3110	8.9	5.367		6							
Stdization Date (Local):	10 April 19			7		296	3078	8.9	5.423		7							
KIO ₃ N:	0.0118147			8		297	3131	8.9	5.473		8							
Standard Titer:	0.47158			9		298	3029	8.9	5.501		9							
Blank Titer:	0.00068			10		299	2085	8.9	5.513		10							
THIO N:	0.25086			11		300	1459	8.9	5.565		11							
Sample Flask Water Seal?	(Yes)			12		301	620	8.9	5.727		12							
Reagent Change?	No			13		302	622	9.0	5.841		13							
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	MnCl ₂ NaI/NaOH H ₂ SO ₄ KIO ₃ THIO			14		304A	3018	9.1	5.957	→	14	304B	3048	9.0	5.958			
Notes:				15							15							
				16		290	291	292	293A	293B	294	295	296	297	298	299	300	301
				17		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
				18		Stn 59	Stn 59	Stn 59	Stn 59	Stn 59	Stn 59	Stn 59	Stn 59	Stn 59	Stn 59	Stn 59	Stn 59	Stn 59
				19		2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-01
				20		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
				21														
				22		302	304A	304B										
				23		OXY	OXY	OXY										
				24		Stn 59	Stn 59	Stn 59										
						2019-016	2019-016	2019-016										

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

by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

Bot 13 Bot 15 Bot 15

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Bender



Last Updated: July 2018

Cruise and Analysis Information				NIS k ID		Sample ID		Flask 1		Draw T 1 (°C)		OXY-1 (mL/L)		OXY-1 Comments		NIS k ID		Sample ID		Flask 2		Draw T 2 (°C)		OXY-2 (mL/L)		OXY-2 Comments			
Cruise Number:	2019-016			1		305		456	8.3	2.479				1															
Event:	89			2		306		3093	8.4	2.578				2															
Station:	102			3		307		3148	8.5	2.962	Bubbles in AIR. W.			3															
Event Date (Local):	10 April 2019			4		308A		570	8.7	3.297	=>			4		308B	3165	8.7	3.294										
Analysis Date (Local):	11 April 19			5		309		3138	8.7	3.694				5															
Analyst:	KS			6		310		3196	8.6	4.108				6															
Standardization Date (Local):	11 April 19			7		311		510	8.9	4.871				7															
KIO ₃ N:	0.0118147			8		312		745	10.2	6.328				8															
Standard Titer:	0.47162			9		313		612	10.2	6.270				9															
Blank Titer:	0.00068			10		314		3043	10.3	6.259				10															
THIO N:	0.25091			11		315		2098	10.5	6.285	A few bubbles in AIR. W.			11															
Sample Flask Water Seal?	Yes			12		316A		706	10.8	6.768	=> Used increased Flask 10 (3146)			12		316B	3175	10.8	6.645										
Reagent Change?	MnCl ₂			13		317		3146	10.8	6.671				13															
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH 1783MXX			14		318		611	10.9	6.677				14															
NOTE NEW BATCH IN LOG BOOK	THIO			15		305		306		307		308A	309	310	311	312	313	314	315	316A									
				16		OXY		OXY		OXY		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY									
				17		Stn 102		Stn 102		Stn 102		Stn 102	Stn 102	Stn 102	Stn 102	Stn 102	Stn 102	Stn 102	Stn 102	Stn 102									
				18		2019-016		2019-016		2019-016		2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016									
				19		Bot 1		Bot 2		Bot 3		Bot 4	Bot 5	Bot 6	Bot 7	Bot 8	Bot 9	Bot 10	Bot 11	Bot 12									
				20																									
				21		317		318		308B		316B																	
				22		OXY		OXY		OXY																			
				23		Stn 102		Stn 102		Stn 102		Stn 102																	
				24		2019-016		2019-016		2019-016		2019-016																	

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

Notes:
New standardized
Replaced NaI/NaOH
New bottle for disp.
NaI/NaOH #6 -> #8

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Tuttle



Cruise and Analysis Information				Nis k ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nis k ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments		
Cruise Number:	2019-16			1		319	2099	8.3	2.548	Foggy this trip on 1 st attempt.	1							
Event:	1005 93			2		320	2099	8.3	2.550		2							
Station:	75			3		321	3037	8.4	2.909		3							
Event Date (Local):	11 April 19			4		322	3076	8.5	3.171		4							
Analysis Date (Local):	11 April 19			5		323	3014	8.6	3.303		5							
Analyst:	KS			6		324	3081	8.7	4.565	Bubble in flask 100	6							
Standardization Date (Local):	11 April 19			7		325	3110	8.9	5.109		7							
KIO ₃ N:	0.0118147			8		326A	3078	9.4	5.766	Bubble in flask 100	8	326B	3131	9.4	5.768			
Standard Titer:	0.471162			9		327	3029	9.8	5.975		9							
Blank Titer:	0.00068			10		328	2085	10.1	6.146		10							
THIO N:	0.25091			11		329	1459	10.4	6.287		11							
Sample Flask Water Seal?	Yes			12		330	620	10.6	6.483		12							
Reagent Change?	No			13		331A	622	10.7	6.628	→	13	331B	3018	10.7	6.639			
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	MnCl ₂ NaI/NaOH H ₂ SO ₄ KIO ₃ THIO			14		332	3048	10.7	6.656		14							
Notes:																		

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

Bottle 7 bottom spigot was open not leaking

her fails the integrity check and explain this in the comments column.

SHARK

Dissolved Oxygen Analysis Log Sheet

Last Updated: July 2018

Institute of Ocean Sciences
Water Properties Group



Cruise and Analysis Information				NIS k ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	NIS k ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments	
Cruise Number:	2019-016			1		333	3048.5	2.976			1						
Event:	97			2		334	20258.6	2.959		Bubbled. All 100.	2						
Station:	72			3		335	8199	8.7	3.205		3						
Event Date (Local):	11 APR 11 2019			4		336A	3117	8.7	4.042	→	4	336B	2007	8.7	4.038		
Analysis Date (Local):	11 Apr 11 19			5		337	3192	8.9	4.970		5						
Analyst:	KS			6		338	3094	8.9	5.097		6						
Standardization Date (Local):	11 Apr 11 19			7		339	3083	9.1	5.472		7						
KIO ₃ N:	0.0118147			8		340	3065	9.1	5.561		8						
Standard Titer:	0.471162			9		341	3062	9.2	5.706		9						
Blank Titer:	0.00068			10		342A	3054	9.3	6.658	→ A sampled second, reflow from bub.	10	342B	2047	9.3	6.661		
THIO N:	0.25091			11		343	2092	9.5	6.209		11						
Sample Flask Water Seal?	Yes			12		344	3082			Bottle did not stop!	12						
Reagent Change?	MnCl ₂			13		345	3416	9.6	6.412		13						
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH			14		333	334	335	336A	336B	337	338	339	340	341	342A	342B
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄			15		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
	KIO ₃			16		Stn 72	Stn 72	Stn 72	Stn 72	Stn 72	Stn 72	Stn 72	Stn 72	Stn 72	Stn 72	Stn 72	Stn 72
	THIO			17		2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016
Notes:				18		Bot 1	Bot 2	Bot 3	Bot 4	Bot 4	Bot 5	Bot 6	Bot 7	Bot 8	Bot 9	Bot 10	Bot 10
				19													
				20		343	345				20						
				21		OXY	OXY				21						
				22		Stn 72	Stn 72				22						
				23		2019-016	2019-016				23						
				24		Bot 11	Bot 13				24						

Bottle integrity: First test the top vent (V) by op. test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails to

344
OXY
Stn 72
2019-016
Bot 12

ck and explain this in the comments column.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Shark



Last Updated: July 201

Cruise and Analysis Information				NIS K ID	NIS K Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	NIS K ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2019-16			1		346	2043	8.7	3.146		1					
Event:	100			2		347A	2032	8.7	3.313		2	347B	2016	8.7	3.314	
Station:	69			3		348	205	8.8	4.006		3					
Event Date (Local):	11 Apr. 19			4		349	2019	9.1	5.113		4					
Analysis Date (Local):	11 Apr. 19			5		350	3109	9.3	5.543		5					
Analyst:	KS			6		351	3150	9.7	5.976		6					
Standardization Date (Local):	11 Apr. 19			7		352A	2027	8.9	4.406	→	7	352B	3100	8.9	4.406	
KIO ₃ N:	0.0118147			8		353	1429	9.9	6.526		8					
Standard Titer:	0.47162			9		354	3145	10.1	6.402		9					
Blank Titer:	0.00068			10		355	3127	10.5	6.476		10					
THIO N:	0.25091			11		356	3072	10.6	6.500		11					
Sample Flask Water Seal?	Yes			12		357	3147	10.7	6.503		12					
Reagent Change?	MnCl ₂			13							13					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH			14		346	347A	347B	348	349	350	351	352A	352B	353	354
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄			15		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
	KIO ₃			16		Stn 69	Stn 69	Stn 69	Stn 69	Stn 69	Stn 69	Stn 69	Stn 69	Stn 69	Stn 69	Stn 69
	THIO			17		2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016
				18		Bot 1	Bot 2	Bot 2	Bot 3	Bot 4	Bot 5	Bot 6	Bot 7	Bot 7	Bot 8	Bot 9
				19												
				20		356	357									
				21		OXY	OXY									
				22		Stn 69	Stn 69									
				23		2019-016	2019-016									
				24		Bot 11	Bot 12									

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

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Bender



Cruise and Analysis Information				Nis k ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nis k ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2019-016			1		358	456	9.1	4.939	=>	1	358	2098	9.1	4.939	
Event:	103			2		359	3093	9.0	4.946		2					
Station:	ADCP			3		360	3148	9.1	5.135		3					
Event Date (Local):	11 APR 2019			4		361	570	9.2	5.412		4					
Analysis Date (Local):	11 April 2019			5		362	3138	9.2	5.500		5					
Analyst:	KS			6		363	3190	9.2	5.547	- filtered on ramp-on, Lolo EP, Ours filter	6					
Standardization Date (Local):	11 April 2019			7		364	570	9.3	5.740	=>	7	364	346	9.3	5.737	
KIO ₃ N:	0.0118147			8		365	745	9.4	5.837		8					
Standard Titer:	0.47162			9		366	612	9.5	5.923		9					
Blank Titer:	0.00068			10		367	3043	9.6	5.930		10					
THIO N:	0.25091			11							11					
Sample Flask Water Seal?	Yes			12												
Reagent Change?	No			13		358A	359	360	361	362	363	364A	365	366	367	358B
(Please circle reagent that was changed prior to sampling and standardization)	MnCl ₂			14		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
NOTE NEW BATCH IN LOG BOOK	KIO ₃			15		Stn ADCP 2019-016	Stn ADCP 2019-016	Stn ADCP 2019-016	Stn ADCP 2019-016	Stn ADCP 2019-016	Stn ADCP 2019-016	Stn ADCP 2019-016	Stn ADCP 2019-016	Stn ADCP 2019-016	Stn ADCP 2019-016	Stn ADCP 2019-016
	THIO			16		Bot 1	Bot 2	Bot 3	Bot 4	Bot 5	Bot 6	Bot 7	Bot 8	Bot 9	Bot 10	Bot 1
Notes:				17												
				18												
				19												
				20												
				21												
				22												
				23												
				24												

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

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last Updated: July 2018

Cruise and Analysis Information						Nisk						Nisk						Nisk											
						ID	Int	Sample	Flask	Draw	OXY-1	OXY-1 Comments						ID	Sample	Flask	Draw	OXY-2	OXY-2 Comments						
							V	ID	1	T 1	(mL/L)								ID	2	T 2	(mL/L)							
										(°C)																			
Cruise Number: 2019-016						1		368	3074	9.3	5.280							1											
Event: 108						2		369	930	9.3	5.308							2											
Station: 65						3		370	3133	9.5	5.410							3											
Event Date (Local): 11 April 2019						4		371	3083 9.6	5.830	3103							4											
Analysis Date (Local): 11 April 2019						5		372	3080	9.6	5.909							5											
Analyst: KS						6		373A	3101	9.9	6.097							6		373B	3079	9.9	6.099						
Standardization Date (Local): 11 April 2019						7		374	3086	9.9	6.100							7											
KIO ₃ N: 0.0118147						8												8											
Standard Titer: 0.47162						9		376	3142	10.0	6.145	8 DO not close. Fixed 11 in its place.						9											
Blank Titer: 0.00068						10		377	3095	10.1	6.181													10					
THIO N: 0.25091						11												11											
Sample Flask Water Seal? ☒ Yes						12		368	369		370		371		372		373A		374		375		376		377		373B		
Reagent Change? ☐ No						13		OXY	OXY		OXY		OXY		OXY		OXY		OXY		OXY		OXY		OXY				
(Please circle reagent that was changed prior to sampling and standardization)						14		Stn 65	Stn 65		Stn 65		Stn 65		Stn 65		Stn 65		Stn 65		Stn 65		Stn 65		Stn 65				
NOTE NEW BATCH IN LOG BOOK						15		2019-016	2019-016		2019-016		2019-016		2019-016		2019-016		2019-016		2019-016		2019-016		2019-016				
						16		Bot 1	Bot 2		Bot 3		Bot 4		Bot 5		Bot 6		Bot 7		Bot 8		Bot 9		Bot 10				
						17																							
						18																							
						19																							
						20																							
						21																							
						22																							
						23																							
						24																							

Notes:

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

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Whale



Cruise and Analysis Information				Nis k ID	Nis k Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nis k ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments				
Cruise Number: 2019-016				1		381	3088	9.3	5.367		1									
Event: 111				2		382	3089	9.6	5.807		2									
Station: 62				3		383	3090	9.6	5.879		3									
Event Date (Local): 11 April 2019				4		384	2094	9.6	5.937		4									
Analysis Date (Local): 11 April 2019				5		385	1442	9.6	5.990		5									
Analyst: KS				6		386A	3000	9.5	5.994	→	6	386B	1422	9.6	5.992					
Standardization Date (Local): 11 April 2019				7		387	3036	9.5	5.928		7									
KIO ₃ N: 0.0118147				8		388	3106	9.5	5.811		8									
Standard Titer: 0.47162				9		389	458	9.5	5.887		9									
Blank Titer: 0.00068				10		390A	3173	9.6	5.889	→	10	390B	1416	9.5	5.887					
THIO N: 0.25091				11		391	3180	9.6	5.888		11									
Sample Flask Water Seal? ☒ Yes				12		381	382	383	384	385	386A	387	388	389	390A	391	386B			
Reagent Change? ☐ No				13		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY			
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK				14		Stn 62	Stn 62	Stn 62	Stn 62	Stn 62	Stn 62	Stn 62	Stn 62	Stn 62	Stn 62	Stn 62	Stn 62			
				15		2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	
				16		Bot 1	Bot 2	Bot 3	Bot 4	Bot 5	Bot 6	Bot 7	Bot 8	Bot 9	Bot 10	Bot 11	Bot 6			
				17																
Notes:				18		390B														
				19		OXY														
				20		Stn 62														
				21		2019-016														
				22		Bot 10														
				23																
				24																

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