

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

~~Swallow~~ Swallow

pretty dam anoxic @ 100m
~ 0.4 ~

Last Updated: July 2015



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:	2016-71	1			1	557	9.5	0.082		1					
Event:	1	2			2	3025	9.9	2.211		2					
Station:	51	3			3	3192	10.2	3.379		3					
Event Date (Local):	30 Oct. 2016	4			4	3040	10.3	3.386		4					
Analysis Date (Local):	30 Oct. 2016	5			5A	3013	10.6	3.192	=7	5	5B	3093	10.6	3.183	
Analyst:	KS	6			6	3038	10.8	3.177		6					
Stdization Date (Local):	30 Oct. 2016	7			7	708	10.7	3.393		7					
KIO ₃ N:	0.0118860	8			8	575	10.8	3.617		8					
Standard Titer:	0.50674	9			9	611	11.1	4.970		9					
Blank Titer:	0.00043	10								10					
THIO N:	0.23513	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					
	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.

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Swallow

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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:	2016-71	1		11	3053	9.9	4.071		1					
Event:	34	2		12A	745	9.9	4.073 =>		2	12B	3034	9.9	4.068	
Station:	59	3		13	612	9.9	4.074		3					
Event Date (Local):	30 Oct. 2016	4		14	2098	9.9	4.096		4					
Analysis Date (Local):	30 Oct. 2016	5		15	586	9.9	4.130		5					
Analyst:	KS	6		16	2099	9.9	4.144		6					
Stdization Date (Local):	30 Oct. 2016	7		17	3043	10.0	4.138	Flask: 528 new draw b/c rain drops	7	17B	528	10.0		
KIO ₃ N:	0.0118860	8		18A	3162	10.0	4.145 =>		8	18B	3096	10.0	4.143	
Standard Titer:	0.80674	9		19	2097	10.1	4.158		9					
Blank Titer:	0.00043	10		20	570	10.1	4.168		10					
THIO N:	0.23513	11		21	3175	10.1	4.178		11					
Sample Flask Water Seal?	Yes	12		22	3023	10.1	4.198		12					
	No	13		23	3161	10.1	4.226		13					
Reagent Change?	MnCl ₂	14		24	3083	10.2	4.262		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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Water Properties Group

Last Updated: July 2015



Octopus

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: 2016-71		1		26	3056	8.3	1.906		1					
Event: 7		2		27	1059	8.3	1.963		2					
Station: 102		3		28	3021	8.3	1.952		3					
Event Date (Local): 31 Oct. 2016		4		29	2086	8.3	2.062		4					
Analysis Date (Local): 31 Oct. 2016		5		30	3104	9.3	3.084		5					
Analyst: KS		6		31A	2084	10.1	3.858	⇒	6	31B	3108	10.1	3.861	
Stdization Date (Local): 30 Oct. 2016		7		32	3088	10.7	4.495		7					
KIO ₃ N: 0.0118860		8		33	3019	12.0	5.633		8					
Standard Titer: 0.50674		9		34	2075	12.1	5.896		9					
Blank Titer: 0.00043		10		35	639	12.1	5.799	-small bubble in sample.	10					
THIO N: 0.23513		11		36A	1053	12.3	5.871	⇒	11	36B	715	12.3	5.890	
Sample Flask Water Seal? ☒ Yes ☐ No		12		37	1002	12.3	5.897		12					
Reagent Change? ☒ MnCl ₂ ☐ NaI/NaOH ☐ H ₂ SO ₄ ☐ KIO ₃ ☐ THIO		13		38	3035	12.3	5.895		13					
(Please circle reagent that was changed prior to sampling and standardization)		14		38A	3062				14					
NOTE NEW BATCH IN LOG BOOK		15							15					
		16		39	3061	12.3	5.903		16					
		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.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

NESSY

Last Updated: July 2015



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:	2016-71						1			41	3079	8.3	1.927		1						
Event:	12						2			42	456	8.2	1.934		2						
Station:	75						3			43	1406	8.3	2.040		3						
Event Date (Local):	31-OCT/16						4			44A	471	8.6	2.327	⇒	4	44B	196	8.7	2.325	-OT- E.P. was wicked late.	
Analysis Date (Local):	31 Oct. 2016						5			45	3078	9.0	2.667		5						
Analyst:	KS						6			46	3050	9.6	3.488		6						
Stdization Date (Local):	30 Oct. 2016						7			47	3005	10.1	3.976		7						
KIO ₃ N:	0.0118860						8			48	712	10.5	4.507		8						
Standard Titer:	0.90674						9			49	3073	10.7	4.646		9						
Blank Titer:	0.00043						10			50	1055	10.8	4.763		10						
THIO N:	0.23513						11			51	396	11.9	5.521		11						
Sample Flask Water Seal?	Yes						12			52	2089	12.1	5.980		12						
	No						13			53A	439	12.2	6.032	⇒	13	53B	2060	12.3	6.031		
Reagent Change?	MnCl ₂						14			54	2065	12.3	6.028		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						

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Swallow

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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:	2016-71	1		55	557	8.5	1.852		1					
Event:	8814	2		56	3025	8.3	1.853		2					
Station:	72	3		57	3192	8.4	1.870		3					
Event Date (Local):	31 Oct 2016	4		58A	3040	8.9	2.448	⇒	4	58B	3013	8.9	2.447	
Analysis Date (Local):	31 Oct 2016	5		59	3093	9.9	3.741		5					
Analyst:	KS	6		60	3038	10.2	4.161		6					
Stdization Date (Local):	30 Oct 2016	7		61	708	10.5	4.414		7					
KIO ₃ N:	0.0118860	8		62	575	10.8	4.652		8					
Standard Titer:	0.50674	9		63	611	10.9	4.914		9					
Blank Titer:	0.00043	10		64A	510	11.3	5.186	⇒	10	64B	3053	11.3	5.187	
THIO N:	0.23513	11		65	745	12.0	5.711		11					
Sample Flask	Yes	12		66	3034	12.1	5.766		12					
Water Seal?	No	13		67	612	12.1	5.768		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					

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Octopus

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:	2016-71	1		69	3056	8.6	2.018		1					
Event:	17	2		70	1059	8.6	2.045		2					
Station:	69	3		71A	3021	9.4	3.012 =>		3	71B	2086	9.4	3.011	
Event Date (Local):	31 Oct. 2016	4		72	3104	9.7	3.397		4					
Analysis Date (Local):	31 Oct 2016	5		73	2084	10.1	4.081		5					
Analyst:	KS	6		74	3108	11.1	4.861		6					
Stdization Date (Local):	30 Oct 2016	7		75	3088	11.4	5.076		7					
KIO ₃ N:	0.0118860	8		76A	3019	11.8	5.362 =>		8	76B	2075	11.8	5.361	
Standard Titer:	0.50674	9		77	639	11.9	5.371		9					
Blank Titer:	0.00043	10		78	1053	12.1	5.733		10					
THIO N:	0.23513	11		79	715	12.1	5.797		11					
Sample Flask	Yes	12		80	1002	12.1	5.804		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					
	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					

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Last Updated: July 2015



Swallow

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:	2016-71	1		82	557	10.3	4.261		1					
Event:	18	2		83A	3025	10.3	4.330	⇒	2	83B	3192	10.3	4.327	
Station:	66	3		84	3040	10.4	4.364		3					
Event Date (Local):	31 Oct. 2016	4		85	3013	10.4	4.368		4					
Analysis Date (Local):	31 Oct. 2016	5		86	3093	10.4	4.360		5					
Analyst:	KS	6		87	3038	10.4	4.366		6					
Stdization Date (Local):	30 Oct. 2016	7		88	708	10.4	4.382		7					
KIO ₃ N:	0.0118860	8		89	575	10.4	4.400		8					
Standard Titer:	0.50674	9		90	611	10.5	4.416		9					
Blank Titer:	0.00043	10							10					
THIO N:	0.23513	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					
	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					

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Institute of Ocean Sciences
Water Properties Group

Last Updated: July 2015



SWALLOW

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:	2016-71	1		92	557	10.4	4.050		1					
Event:	24	2		93	3025	10.4	4.054		2					
Station:	56	3		94A	3192	10.4	4.049	→	3	94B	3040	10.4	4.053	
Event Date (Local):	01 Nov 2016	4		95	3013	10.5	4.060		4					
Analysis Date (Local):	01 Nov 2016	5		96	3093	10.5	4.061		5					
Analyst:	KS	6		97	3038	10.5	4.068		6					
Stdization Date (Local):	01 Nov 2016	7		98	708	10.5	4.062		7					
KIO ₃ N:	0.0118860	8		99	575	10.5	4.100		8					
Standard Titer:	0.50660	9		100A	611	10.6	4.138	→	9	100B	510	10.6	4.130	
Blank Titer:	0.00026	10		101	3053	10.6	4.148		10					
THIO N:	0.23502	11		102	745	10.7	4.190		11					
Sample Flask	Yes	12		103	3034	10.7	4.213		12					
Water Seal?	No	13		104	612	10.8	4.419		13					
Reagent Change?	MnCl ₂	14		105	2098	10.9	4.459		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:	See notes	19							19					
		20							20					
		21							21					
		22							22					
		23							23					
		24							24					

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Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Last Updated: July 2015



OCTOPUS

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:	2016-071	1		107	3056	10.3	3.546		1					
Event:	29	2		108	1059	10.3	3.822		2					
Station:	46	3		109A	3021	10.3	3.931	⇒	3	109B	2086	10.3	3.934	/
Event Date (Local):	01 Nov 2016	4		110	3104	10.3	4.068		4					
Analysis Date (Local):	01 Nov 2016	5		111	2084	10.4	4.157		5					
Analyst:	KS	6		112	3108	10.4	4.018		6					
Stdization Date (Local):	01 Nov 2016	7		113	3088	10.4	3.734		7					
KIO ₃ N:	0.0118860	8		114A	3019	10.5	3.384	⇒	8	114B	2075	10.5	3.381	
Standard Titer:	0.000265	9		115	639	10.6	3.735		9					
Blank Titer:	0.50660	10		116	1053	10.7	4.085		10					
THIO N:	0.233502	11		117	715	10.7	5.203		11					
Sample Flask Water Seal?	Yes	12		118	1002	10.7	5.903		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					

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Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

NESSY

Last Updated: July 2015



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:	2016-71	1		120	3079	10.1	2.690		1					
Event:	36	2		121	456	10.0	2.713		2					
Station:	42	3		122	1406	10.1	2.780		3					
Event Date (Local):	01 Nov 2016	4		123	471	10.2	2.905		4					
Analysis Date (Local):	01 Nov 2016	5		124	196	10.3	3.003		5					
Analyst:	KS	6		125	3078	10.3	3.710		6					
Stdization Date (Local):	01 Nov 2016	7		126	3050	10.4	3.838	→ Flask 3005	7	126	3005	10.4	3.835	
KIO ₃ N:	0.0118860	8		127	712	10.3	3.848		8					
Standard Titer:	0.50660	9		128	3073	10.3	3.755		9					
Blank Titer:	0.00026	10		129	1055	10.3	3.044		10					
THIO N:	0.23502	11		130	396	10.3	3.202		11					
Sample Flask Water Seal?	Yes	12		131A	2089	10.4	3.426	→	12	131B	439	10.4	3.425	
	No	13		132	2060	10.5	3.707		13					
Reagent Change?	MnCl ₂	14		133	2065	10.5	4.932		14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		134	3081	10.5	6.000	leaky spiggott	15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		135	505	10.6	6.317	→ water turbid. titration ended @ 2.20 V but ok.	16					
	KIO ₃	17							17					
	THIO	18							18					
Notes:		19							19					
		20							20					
		21							21					
		22							22					
		23							23					
		24							24					

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Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Bender

Last Updated: July 2015



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:	2016-71	1		137	3148	9.8	2.694		1					
Event:	40	2							2					
Station:	39	3		139	3145	9.9			3					
Event Date (Local):	01 Nov 2016	4		140A	3150	9.9	2.813 =>		4	140B	3126	9.9	2.814	
Analysis Date (Local):	01 Nov 2016	5		141	3129	9.9	2.797		5					
Analyst:	KS	6		142	3135	10.0	2.883		6					
Stdization Date (Local):	01 Nov 2016	7		143	3125	10.1	3.068		7					
KIO ₃ N:	0.0118860	8		144	3132	10.2	3.543		8					
Standard Titer:	0.50660	9		145	3191	10.2	3.428		9					
Blank Titer:	0.00026	10		146	3138	10.2	3.689		10					
THIO N:	0.23502	11							11					
Sample Flask	Yes	12		148	3142	10.2	3.052		12					
Water Seal?	No	13		149	3028	10.4	3.373		13					
Reagent Change?	MnCl ₂	14							14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		151	3144	10.5	3.669		15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		152	3016	10.5	3.924		16					
	KIO ₃	17		153A	3133	10.7	4.227 =>		17	153B	3193	10.7	4.225	
	THIO	18							18					
Notes:	Very windy during sampling	19		155	3134	10.9	5.009		19					
		20		156	569	10.7	5.918		20					
		21		157	3147	10.5	6.403		21					
		22							22					
		23							23					
		24							24					

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

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

OCTOPUS

Last Updated: July 2015



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:	2016-71	1		159	3056	9.0	0.451		1					
Event:	46	2		160	1059	9.0	0.474		2					
Station:	IA2	3		161A	3021	9.0	0.498	Particle in sample. Titration ok	3	161B	2086	9.0	0.494	
Event Date (Local):	02 Nov 2016	4		162	3104	9.0	0.554		4					
Analysis Date (Local):	02 Nov 2016	5		163	2094	9.3	0.882		5					
Analyst:	KS	6		164	3108	10.4	2.140		6					
Stdization Date (Local):	01 Nov 2016	7		165	3088	9.4	1.2850		7					
KIO ₃ N:	0.0118860	8		166	3019	9.5	11.5	2988	8					
Standard Titer:	0.50660	9		167	2075	11.5	3.178		9					
Blank Titer:	0.00076	10		168	639	11.3	3.441		10					
THIO N:	0.23502	11		169	1053	11.2	3.568		11					
Sample Flask	Yes	12		170	715	11.3	3.666		12					
Water Seal?	No	13		171A	1002	11.2	4.166	???	13	171B	3035	11.1	4.402	Wrong draw T. Poor dup!
Reagent Change?	MnCl ₂	14		172	3061	10.6	5.255		14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI / NaOH	15		173	2073	10.6	5.362	O2V → 2.16. Titration ok; reached finest dose rate. Lots of floaters in samples.	15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16							16					
	KIO ₃	17							17					
	THIO	18							18					
Notes:	raining heavily while sampling	19							19					
		20							20					
		21							21					
		22							22					
		23							23					
		24							24					

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

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Bender

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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:	2016-71						1			176	3148	10.5	3.357		1					
Event:	51						2			177	3145	10.5	3.600		2					
Station:	1A6						3			178A	3150	10.5	3.957	⇒	3	178B	3126	10.6	3.957	
Event Date (Local):	02 Nov 2016						4			179	3129	10.5	4.260		4					
Analysis Date (Local):	02 Nov 2016						5			180	3135	10.5	4.451		5					
Analyst:	KS						6							6						
Stdization Date (Local):	01 Nov 2016						7							7						
KIO ₃ N:	0.0118860						8							8						
Standard Titer:	0.50660						9							9						
Blank Titer:	0.00026						10							10						
THIO N:	0.23502						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						
	H ₂ SO ₄						16							16						
NOTE NEW BATCH IN LOG BOOK	KIO ₃						17							17						
	THIO						18							18						
Notes:	Bottle 3:						19							19						
	Sampled B first						20							20						
	rain, rain, rain.						21							21						
	Wind						22							22						
							23							23						
							24							24						

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

Dissolved Oxygen Analysis Log Sheet

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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:	2016-71	1		182	3132	10.5	3.182		1					
Event:	53	2		183A	3191	10.6	3.651	⇒	2	183B	3138	10.6	3.653	
Station:	B12	3		184	3142	10.6	3.840		3					
Event Date (Local):	02 Nov 2016	4		185	3028	10.6	3.113		4					
Analysis Date (Local):	02 Nov 2016	5		186	3144	10.6	3.082		5					
Analyst:	KS	6		187	3016	10.6	3.101		6					
Stdization Date (Local):	01 Nov 2016	7		188A	3133	10.7	3.413	⇒	7	188B	3193	10.7	3.412	
KIO ₃ N:	0.0118860	8		189	3134	10.8	3.623		8					
Standard Titer:	0.50660	9		190	569	10.9	4.696		9					
Blank Titer:	0.00026	10		191	3147	10.7	5.290		10					
THIO N:	0.83502	11		192	3022	10.7	5.264		11					
Sample Flask Water Seal?	Yes	12							12					
	No	13							13					
Reagent Change?	MnCl ₂	14							14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15							15					
	H ₂ SO ₄	16							16					
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17							17					
	THIO	18							18					
Notes:	lots of rain	19							19					
		20							20					
		21							21					
		22							22					
		23							23					
		24							24					

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

Dissolved Oxygen Analysis Log Sheet

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SWALLOW

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:	2016-71	1		194	557	10.5	2.703	2.703	1					
Event:	57	2		195	3025	10.6	2.766		2					
Station:	12	3		196	3192	10.6	2.774		3					
Event Date (Local):	3 Nov 2016	4		197A	3040	10.6	2.744	⇒	4	197B	3013	10.6	2.751	
Analysis Date (Local):	03 Nov 2016	5		198	3093	10.6	2.738		5					
Analyst:	KS	6		199	3038	10.6	2.706		6					
Stdization Date (Local):	03 Nov 2016	7		200	708	10.7	2.689		7					
KIO ₃ N:	0.0118860	8		201	575	10.6	2.450		8					
Standard Titer:	0.50640	9		202	611	11.3	4.987		9					
Blank Titer:	0.00016	10		203	510	11.3	4.994		10					
THIO N:	0.23497	11		204	3053	11.3	5.083		11					
Sample Flask Water Seal?	Yes ☒ No	12		205	745	11.3	5.120		12					
Reagent Change?	☒ MnCl ₂ 16M, x	13		206	3034	11.4	5.293		13					
(Please circle reagent that was changed prior to sampling and standardization)	☒ NaI/NaOH	14		207A	612	11.5	5.565	⇒	14	207B	2098	11.5	5.566	
NOTE NEW BATCH IN LOG BOOK	☒ H ₂ SO ₄ New	15		208	586	11.5	5.654		15					
	☒ KIO ₃ 16G2	16		209	2099	11.6	5.780		16					
	THIO	17							17					
Notes:	Samples did not have a water seal for ~14 hours after they were sampled. They were stored outside	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.

Dissolved Oxygen Analysis Log Sheet

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Bender

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:	2016-71	1		223	3148	9.8	2.664		1					
Event:	66	2		224	3145	9.9	2.721		2					
Station:	14	3		225	3150	9.9	2.640		3					
Event Date (Local):	03 Nov. 2016	4		226A	3126	9.8	2.571	⇒	4	226B	3129	9.9	2.578	
Analysis Date (Local):	03 Nov 2016	5		227	3135	9.9	2.589		5					
Analyst:	KS	6		228	3125	9.9	2.542		6					
Stdization Date (Local):	03 Nov 2016	7		229	3132	9.9	2.643		7					
KIO ₃ N:	0.0118860	8		230	3191	10.3	4.679		8					
Standard Titer:	0.50640	9		231A	3138	10.4	5.066	⇒	9	231B	3142	10.7	5.066	
Blank Titer:	0.00016	10		232	3028	10.4	5.074		10					
THIO N:	0.23497	11		233	3144	10.4	5.267		11					
Sample Flask Water Seal?	Yes	12		234	3016	10.4	5.175		12					
Reagent Change?	MnCl ₂	13		235	3133	10.4	5.251	spigot was pushed in (day crew's fault)	13					
(Please circle reagent that was changed prior to sampling and standardization)	NaOH	14		236	3193	10.4	5.264		14					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15		237	3134	10.4	5.272	top O-ring didn't seat properly	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.