Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

TURTLE

Last Updated: January 2017

IOS

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:	2019-001	1			1	435	9.2	4.988		1					
Event:	6	2			2	459	9.4	6.288		2					
Station:	P1	3			3A	575	9.3	6.298		3	3B	456	9.3	6.306	
Event Date (Local):	6FEB2019	4								4					
Analysis Date (Local):	8FEB2019	5								5					
Analyst:	MB	6								6					
Stdization Date (Local):	8FEB2019	7								7					
KIO_3 N:	0.01198	8								8					
Standard Titer:	0.4790	9								9					
Blank Titer:	0.0057	10								10					
THIO N:	0.250545	11								11					
Sample Flask Water Seal?	(Yes) / No	12								12					
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	$MnCl_2$ / NaI/NaOH / H_2SO_4 / KIO_3 / THIO	13								13					
		14								14					
		15								15					
		16								16					
		17								17					
		18								18					
Notes: P1+P2 in Same Flask		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:	2019-001	1			19	3173	~~9.7~~	5.032		1					
Event:	11	2			20A	3180	9.7	5.138		2	20B	1422	9.7	5.139	
Station:	P2	3			21	1416	9.8	5.545		3					
Event Date (Local):	6FEB2019	4			22	2094	9.7	5.549	OT'd	4					
Analysis Date (Local):	6FEB2019	5			23	3000	~~9.5~~	6.357		5					
Analyst:	MB	6			24	3140	9.4	6.360		6					
Stdization Date (Local):	8FEB2019	7			25	1442	9.5	6.364		7					
KIO_3 N:	0.01198	8			26A	3036	9.4	6.361		8	26B	3106	9.5	6.361	
Standard Titer:	0.4790	9								9					
Blank Titer:	0.0007	10								10					
THIO N:	0.250545	11								11					
Sample Flask Water Seal?	(Yes) / No	12								12					
Reagent Change?	$MnCl_2$	13								13					
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	NaI/NaOH	14								14					
	H_2SO_4	15								15					
	KIO_3	16								16					
	THIO	17								17					
		18								18					
Notes: P1 + P2 in same file		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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IOS

Cruise and Analysis Information	
Cruise Number:	2019-001
Event:	16
Station:	P4
Event Date (Local):	6 FEB 2019
Analysis Date (Local):	8 FEB 2019
Analyst:	MB
Stdization Date (Local):	8 FEB 2019
KIO_3 N:	0.01198
Standard Titer:	0.4790
Blank Titer:	0.0007
THIO N:	0.250545
Sample Flask Water Seal?	(Yes) / No
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	$MnCl_2$ / NaI/NaOH / H_2SO_4 / KIO_3 / THIO
Notes:	BENDER

Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments
1			45	932	4.0	0.489	
2			46A	3019	4.0	0.387	
3			47	3164	4.0	0.386	
4			48	3083	4.7	0.269	
5			49	3099	5.4	0.229	
6			50	3121	5.7	0.651	
7			51	1311	6.3	1.726	
8			52	3044	7.1	1.870	
9			53	3041	7.5	2.225	
10			54	3120	8.1	2.487	OT'd.
11			55A	3048	8.1	2.632	
12			56	620	8.3	2.902	
13			57	1459	8.5	3.329	
14			58	3029	8.1	4.472	
15			59	3078	9.0	5.748	
16			60	2085	9.1	6.388	
17			61	3131	9.0	6.394	
18			62	3081	9.0	6.422	OT'd.
19			63A	3076	9.1	6.409	
20							
21			5016A	3135	10.09	6.449	O2 loop
22							
23							
24							

Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
1					
2	46B	3143	4.2	0.381	
3					
4					
5					
6					
7					
8					
9					
10					
11	55B	622	8.3	2.627	
12					
13					
14					
15					
16					
17					
18					
19	63B	3110	9.1	6.415	Maybe should have OT'd
20					
21	5016B	3111	10.07	6.460	O2 loop
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

SWALLOW

Institute of Ocean Sciences
Water Properties Group

Last Updated: January 2017

IOS

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:	2019-001	1			83	3091	3.6	1.320		1					
Event:	25	2			84	3161	4.0	0.635		2					
Station:	P8	3			85	3023	4.4	0.386		3					
Event Date (Local):	7 Feb 2019	4			86	3132	4.9	0231		4					
Analysis Date (Local):	8 Feb 2019	5			87A	3120	5.4	0.216	→	5	87B	3144	5.5	0.221	
Analyst:	MB	6			88	3000	5.8	0.424		6					
Stdization Date (Local):	8 FEB 2019	7			89	3096	6.4	1.210		7					
KIO_3 N:	0.01198	8			90	3209	6.9	1.779	OT'd	8					
Standard Titer:	0.4790	9			91	3146	7.2	2260		9					
Blank Titer:	0.0007	10			92	3138	7.6	2.858		10					
THIO N:	0.250545	11			93A	3053	7.9	3.016	→	11	93B	3002	7.9	3013	
Sample Flask Water Seal?	(Yes) / No	12			94	3162	8.1	3.016		12					
		13			95	3129	8.1	4472		13					
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	$MnCl_2$	14			96	3175	8.9	6.290		14					
	NaI/NaOH	15			97	3165	8.9	6.400		15					
	H_2SO_4	16			98	611	8.9	6.412		16					
	KIO_3	17			99	612	8.9	6.398		17					
	THIO	18			100	3043	9.0	6.407		18					
Notes:		19			101	708	9.0	6.400	~~→~~	19	~~1028~~	~~745~~			
		20			102A	510	9.0	6.410	→	20	102B	745	9.0	6.410	
		21			103	2098			bottle didn't fire	21					
		22			104	3093	9.1	6.415		22					
		23			105	3148	9.1	6.419		23					
		24			5025A	570	9.6	6.429	O2 loop	24	5025B	3138	9.6	6.429	O2 loop

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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IOS

Cruise and Analysis Information	
Cruise Number:	2019-001
Event:	37
Station:	P12
Event Date (Local):	8 Feb 2019
Analysis Date (Local):	08-02-19
Analyst:	MG
Stdization Date (Local):	08-02-19
KIO_3 N:	0.01198
Standard Titer:	0.4790
Blank Titer:	0.0007
THIO N:	0.250545
Sample Flask Water Seal?	(Yes) / No
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	$MnCl_2$ / NaI/NaOH / H_2SO_4 / KIO_3 / THIO

Notes:

GREAT WHITE

Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments
1			126	690	2.6	2.298	
2			127	569	2.6	2.302	
3			128	2086	2.6	2.297	
4			129	3007	2.6	1.890	OVERTITATE MESSY CURVE
5			130A	1054	2.8	1.273	
6			131	2090	3.4	0.608	
7			132	1053	3.8	0.341	
8			133	1465	4.3	0.230	
9			134	3075	4.7	0.256	
10			135A	3108	5.4	0.416	
11			136	3200	5.9	1.172	
12			137	3020	6.4	1.704	
13			138	425	6.9	1.921	
14			139	2088	7.3	—	NO SAMPLE ACCIDENTLY SPILT
15			140A	2075	7.6	2.861	
16			141	2000	7.8	2.998	
17			142	429	7.9	3.154	
18			143	691	7.7	4.998	
19			144A	1015	8.3	6.446	
20			145	3070	8.4	6.529	
21							
22			147	1319	8.4	6.526	
23			148	1470	8.4	6.532	
24			5037A	2035	9.19	6.545	Oz loop

Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
1					
2					
3					
4					
5	130B	3008	3.0	1.260	
6					
7					
8					
9					
10	135B	2040	5.5	0.407	
11					
12					
13					
14					
15	140B	438	7.6	2.865	SOMETHING IN SAMPLE PARK PAINTCHIP?
16					
17					
18					
19	144B	1019	8.4	6.452	
20					
21					Not firing
22					
23					
24	5037B	2069	9.19	6.553	Oz loop.

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Cruise Number: 2019-001	1			192A	435	2.4	2.977	→	1	192B	439	2.5	2.991	
Event: 44	2			193	575	2.4	2.843		2					
Station: P20	3			194	456	2.5	2.453	NO WATER ON TOP	3					
Event Date (Local): 05Feb19	4			195A	458	2.6	1.893	→	4	195B	3173	2.7	1.888	
Analysis Date (Local): 13 02 19	5			196	3180	2.8	1.224		5					
Analyst: MG	6			197	1422	3.3	0.497		6					
Stdization Date (Local): 13.02.19	7			198	1416	3.5	0.369		7					
KIO_3 N: 0.01198	8			199	2094	3.8	0.374		8					
Standard Titer: 0.4785	9			200	3000	4.2	0.424		9					
Blank Titer: 0.0007	10			201	3010	4.7	0.551	Niskin leaking from the bottom	10					
THIO N: 0.250736	11			202	1442	5.2	1.190	Niskin leaking from the bottom	11					
Sample Flask Water Seal? (Yes) / No	12			203	3036	5.6	1.872		12					
	13			204A	3106	5.9	2.571	→	13	204B	3074	5.9	2.573	
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK: $MnCl_2$ / NaI/NaOH / H_2SO_4 / KIO_3 / THIO	14			205	3079	6.2	3.301		14					
	15			206	3098	6.5	3.541		15					
	16			207	3088	6.7	3.776		16					
	17			208	3089	6.5	4.482		17					
	18			209	3090	6.5	5.250		18					
Notes: Aea Turtle	19			210A	3095	7.6	6.676	→	19	210B	3084	7.7	6.680	
	20			211	3101	7.7	6.741		20					
	21							NOT FIRING	21					
	22			212	3142	7.7	6.717	Niskin leaking (pouring out) top lanyard	22					
	23			213	3103	7.7	6.727		23					
	24			214	3133	7.7	6.736		24					

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Loop:

ID	Fl.	T	O2
5044A	3090 930	8.50	6.768

ID	Fl.	T	O2
5044B	3086	8.59	6.770

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Cruise Number: 2019-001	1			255	932	2.1	3.158		1					
Event: 54	2			256	3019	2.2	3.143		2					
Station: P26	3			257	3143	2.1	2.892		3					
Event Date (Local): 2019/2/12	4			258A	3164	2.1	2.475	⇒	4	258B	3083	2.2	2.467	
Analysis Date (Local): 13.02.19	5			259	3099	2.3	1.854	PECULIAR CURVE, NO BUBBLES, SUBSTANT Looked Good	5					
Analyst: MG	6			260	3121	2.5	1.204		6					
Stdization Date (Local): 13.02.19	7			261	1311	2.9	0.576	⇒	7	~~261B~~				
KIO_3 N: 0.01198	8			262A	3044	3.1	0.443	⇒	8	262B	3041	3.3	0.442	
Standard Titer: 0.4785073	9			263	3120	3.5	0.498		9					
Blank Titer: 0.0007404	10			264	3048	3.9	0.528		10					
THIO N: 0.250736	11			265	622	4.3	0.666	leaky bottom for Niskin # 11	11					
Sample Flask Water Seal? (Yes) / No	12			266A	620	4.6	1.086	⇒	12	266B	1459	4.7	1.085	
	13			267	3029	4.7	1.551		13					
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK: $MnCl_2$ / NaI/NaOH / H_2SO_4 / KIO_3 / THIO	14			268	3078	4.7	2.214		14					
	15			269	2085	4.9	2.791		15					
	16			270	3131	5.4	3.655	OVERTITRATE	16					
	17			271	3081	5.6	4.429		17					
	18			272	3076	5.7	5.596	bubbles in the NaOH?	18					
Notes: Bender	19			273A	3110	6.9	6.879	⇒	19	273B	3135	7.0	6.880	
	20			274	3111	6.9	6.899		20					
	21			~~275~~					21					
	22			275	3155	6.9	6.891		22					
	23			276	3037	6.9	6.893		23					
	24			277	3018	6.9	6.904		24					

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Loop

ID	Flask	T	O2
5054 A	2049	7.36	6.996

ID	Flask	T	O2
5054 B	3014	7.36	6.969

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Cruise Number: 2019-001	1								1					
Event: 60	2								2					
Station: P24 (deep)	3								3					
Event Date (Local): 12.02.19	4								4					
Analysis Date (Local): 13.02.19	5								5					
Analyst: MG	6								6					
Stdization Date (Local): 13.02.19	7								7					
KIO_3 N: 0.01198	8								8					
Standard Titer: 0.4785	9								9					
Blank Titer: 0.0007	10								10					
THIO N: 0.250736	11								11					
Sample Flask Water Seal? (Yes / No)	12			323	3147	5.3	1.576		12					
	13								13					
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK — $MnCl_2$ / NaI/NaOH / H_2SO_4 / KIO_3 / THIO	14			325	3072	5.4	2.198		14					
	15								15					
	16			327	3145	5.6	3.002		16					
	17								17					
	18								18					
Notes: Sperm Whale	19								19					
	20								20					
	21								21					
	22								22					
	23								23					
	24								24					

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Cruise Number: 2019-001	1			329	3127	6.3	3.669		1					
Event: 61	2			~~331A~~	~~1429~~			→	2	~~331B~~	~~2007~~			
Station: P24 (shallow)	3			331A	1429	6.3	4.169	→	3	331B	2007	6.3	4.168	
Event Date (Local): 12-02-19	4								4					
Analysis Date (Local): 13-02-19	5			333	2016	6.3	4.826		5					
Analyst: MG	6								6					
Stdization Date (Local): 13.02.19	7			335	2015	6.3	5.817		7					
KIO_3 N: 0.01198	8								8					
Standard Titer: 0.4785	9			337	3158	7.1	6.316		9					
Blank Titer: 0.0007	10								10					
THIO N: 0.250736	11			339A	2019	7.7	6.774	→	11	339B	3109	7.8	6.780	
Sample Flask Water Seal? (Yes) / No	12								12					
	13			341	2027	7.8	6.781		13					
Reagent Change? ($MnCl_2$ / NaI/NaOH / H_2SO_4 / KIO_3 / THIO) (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	14								14					
	15			343	2032	7.7	6.784		15					
	16								16					
	17			345	2043	7.7	6.779		17					
	18								18					
Notes: Sperm whale	19			347A	3009	7.7	6.785	→	19	347B	2047	7.7	6.785	
	20								20					
	21								21					
	22								22					
	23								23					
	24								24					

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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: 2019-001	1			351	3147	6.0	1.586		1					
Event: 67	2			352	3072	6.1	1.822		2					
Station: D1X-5	3			353A	3145	6.3	2.073	→	3	353B	3127	6.4	2.071	
Event Date (Local): 15FEB 2019	4			354	1429	6.5	2.396		4					
Analysis Date (Local): 15FEB2019	5			355	2007	6.9	2.637	bubble in NaOH? maybe not..	5					
Analyst: MB	6			356	2016	7.0	3.080		6					
Stdization Date (Local): 14FEB2019	7			357	2015	7.2	3.785		7					
KIO_3 N: 0.01198	8			358	3158	7.2	4.678		8					
Standard Titer: 0.4785	9			359	2019	7.0	6.276		9					
Blank Titer: 0.0007	10			360	3109	7.0	6.477		10					
THIO N: 0.250736	11			361	2027	~~6.9~~	6.489		11					
Sample Flask Water Seal? (Yes) / No	12			362	2032	7.0	6.489		12					
	13			363A	2043	~~6.9~~	6.488	→	13	363B	3009	7.0	6.492	
Reagent Change? $MnCl_2$	14			364	2047	6.8	6.488		14					
(Please circle reagent that was changed prior to sampling and standardization) NaI/NaOH	15			365	2092	6.5	6.461		15					
NOTE NEW BATCH IN LOG BOOK H_2SO_4	16			366	3032	6.6	6.455		16					
KIO_3	17			367	3033	6.5	6.448		17					
THIO	18								18					
Notes: Sperm Whale	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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Water Properties Group

IOS

Last Updated: July 2018

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: 2019-001	1			381	3147	8.1	5.373		1					
Event: 74	2			382	3072	8.1	5.383		2					
Station: HECS5	3			383	3145	7.4	6.612		3					
Event Date (Local): 15 02/19	4			384	3127	7.5	6.495		4					
Analysis Date (Local): 16FEB2019	5			385	1429	7.4	6.557		5					
Analyst: MB	6			386A	2007	7.3	6.623	→	6	386B	2016	7.3	6.625	
Stdization Date (Local): 16FEB2019	7			387	2015	7.3	6.629		7					
KIO_3 N: 0.01198	8			388	3158	7.3	6.627		8					
Standard Titer: 0.4790	9								9					
Blank Titer: 0.0007	10								10					
THIO N: 0.25052	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					
NOTE NEW BATCH IN LOG BOOK H_2SO_4	16								16					
KIO_3	17								17					
THIO	18								18					
Notes:	19								19					
Aperm whale	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 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: 2019-001	1			389	2019	7.1	5.678		1					
Event: 75	2			390A	3109	7.2	6.264	→	2	390B	2027	7.4	6.263	
Station: HECS6	3			391	2032	7.1	6.574		3					
Event Date (Local): 15 02/19	4			392	2043	7.1	6.544		4					
Analysis Date (Local): 16 FEB 2019	5			393	3009	7.0	6.553		5					
Analyst: MB	6			394	2047	7.1	6.506	leaky bottom of Niskin	6					
Stdization Date (Local): 16 FEB 2019	7			395	2092	7.1	6.494		7					
KIO_3 N: 0.01198	8			396	3032	7.0	6.491		8					
Standard Titer: 0.4790	9								9					
Blank Titer: 0.007	10								10					
THIO N: 0.25052	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					
NOTE NEW BATCH IN LOG BOOK H_2SO_4	16								16					
KIO_3	17								17					
THIO	18								18					
Notes:	19								19					
Aperm Whale	20								20					
	21								21					
	22								22					
(Hecs5, Hecs6, Hecs7 ~ same box).	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	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: 2019-001	1			397	3033	7.1	4648		1					
Event: 76	2			398	3054	7.3	6.072	Over-titrated.	2					
Station: HECS 7	3			399	3062	7.6	6.160		3					
Event Date (Local): 15 02/19	4			400	3065	7.5	6.258		4					
Analysis Date (Local): 16 FEB 2019	5			401 A	3094	7.1	6.557	→	5	401 B	3116	7.2	6.557	
Analyst: MB	6			402	3100	7.1	6.528		6					
Stdization Date (Local): 16 FEB 2019	7			403	3192	7.2	6.508		7					
KIO_3 N: 0.01198	8			404	3047	7.1	6.498	Ot'd	8					
Standard Titer: 0.4790	9			405	3199	7.0	6.501		9					
Blank Titer: 0.0007	10								10					
THIO N: 0.25052	11								11					
Sample Flask Water Seal? (Yes) / No	12								12					
	13								13					
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK — $MnCl_2$	14								14					
NaI/NaOH	15								15					
H_2SO_4	16								16					
KIO_3	17								17					
THIO	18								18					
Notes: Aperm Whale (Hecs5, Hecs6, Hecs7 in same box)	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 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: 2019-001	1			406	3091	6.9	4.368		1					
Event: 77	2			407	3161	7.1	5.798		2					
Station: Hecs-8	3			408	3023	7.0	6.486		3					
Event Date (Local): 15 02/19	4			409	3132	7.0	6.526		4					
Analysis Date (Local): 16FEB2019	5			410	3126	6.9	6.558	Over-titrated.	5					
Analyst: MB	6			411	3144	6.8	6.601		6					
Stdization Date (Local): 16FEB2019	7			412	3066	6.8	6.623		7					
KIO_3 N: 0.01198	8			413A	3096	6.7	6.629	→	8	413B	3209	6.8	6.622	
Standard Titer: 0.4790	9			414	3146	6.5	6.639	No Water	9					
Blank Titer: 0.0007	10								10					
THIO N: 0.25052	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_2SO_4	16								16					
NOTE NEW BATCH IN LOG BOOK KIO_3	17								17					
THIO	18								18					
Notes: Swallow.	19								19					
	20								20					
	21								21					
	22								22					
	23								23					
	24								24					

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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: 2019-001	1	✓	✓	430	690	6.7	3.570		1					
Event: 80	2	✓	✓	431	569	6.7	3.384		2					
Station: CH3	3	✓	✓	432A	2086	6.7	3.308	⇒	3	432B	3007	6.7	3.313	
Event Date (Local): 2019/2/16	4	✓	✓	433	1054	6.6	3.807		4					
Analysis Date (Local): 17FEB2019	5	✓	✓	434	3008	6.5	3.230	Mark's hands are really cold	5	"				
Analyst: MB	6	✓	✓	435	2090	6.5	3.194		6					
Stdization Date (Local): 16FEB2019	7	✓	✓	436	1053	6.5	3.362		7					
KIO_3 N: 0.01198	8	✓	✓	437	1465	6.5	3.372		8					
Standard Titer: 0.4790	9	✓	✓	438	3075	6.4	3.653		9					
Blank Titer: 0.0007	10	✓	✓	439	3108	6.3	3.552		10					
THIO N: 0.25052	11	✓	✓	440	2040	6.3	3.936	leaking from bottom	11					
Sample Flask Water Seal? (Yes) / No	12	✓	✓	441	3200	6.1	5653		12					
	13	✓	✓	442A	3020	5.7	5.581	⇒	13	442B	425	5.7	5.759	POORLY DRAWN SAMPLE, HANDS TO COLD!
Reagent Change? $MnCl_2$	14			443	2088	5.5	6.852		14					
(Please circle reagent that was changed prior to sampling and standardization) NaI/NaOH	15			444	2075	5.5	6.6116		15					
NOTE NEW BATCH IN LOG BOOK H_2SO_4	16			445	438	5.5	6.623	JADE TOOK OVER DRAWING HERE	16					
KIO_3	17			446	2000	5.6	6.633		17					
THIO	18			447	429	5.8	6.639		18					
Notes: Shark	19			448	691	5.7	6.638	Mark's hands are REALLY COLD	19					
	20								20					
	21								21					
	22								22					
	23								23					
	24								24					

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