

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Last Updated: January 2017



Swordfish

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: 2018-031		1		180	339	10.2	2.819		1					
Event: 63		2		181	547	10.1	2.847		2					
Station: 27		3		182	557	10.0	2.916		3					
Event Date (Local): 29 Sept 2018		4		183	658	9.9	2.941		4					
Analysis Date (Local): 29 Sept 2018		5		184A	730	10.9	3.768	⇒ bottom cap leaking bad. Valve high	5	184B 3025				↗ moved duplicate
Analyst: KS		6		185A	1025	10.5	2.971	⇒ flask 3025	6	185B	1035	10.5	2.968	
Stdization Date (Local): 28 Sept. 2018		7		186	1050	10.7	3.117		7					
KIO ₃ N: 0.0119329		8		187	3131	10.7	3.122	EP late OT ok	8					
Standard Titer: 0.497		9		188	3051	10.0	2.994		9					
Blank Titer: 0.00012		10		189A	1311	10.0	3.196	⇒	10	189B	1472	10.0	3.194	
THIO N: 0.24189		11		190	1402	10.6	3.544		11					
Sample Flask Yes		12		191	2014	10.9	3.711		12					
Water Seal? No		13		192	3028	11.4	4.075		13					
Reagent Change? MnCl ₂		14		193	3176	12.7	5.333		14					
(Please circle reagent that was changed prior to sampling and standardization)		15		194	3091	13.6	6.150		15					
NOTE NEW BATCH IN LOG BOOK		16		195	3109	14.5	6.694		16					
		17		196 3030				labeling mistake. Not collected	17					
		18						Bot 16 was surface bottle as well.	18					
Notes: Sample KS		19							19					
Fix KY		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.

180	181	182	183	184 ^A	185 ^A	186 ^P	187	188	189 ^A	189 ^B	190	191	192	193	194	195
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31
Bot 1	Bot 2	Bot 3	Bot 4	Bot 5	Bot 6	Bot 7	Bot 8	Bot 9	Bot 10	Bot 10	Bot 11	Bot 12	Bot 13	Bot 14	Bot 15	Bot 16

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Cruise Number:	2018-31	1		200	3056	9.8	2.850		1					
Event:	68	2		201	1059	9.8	2.883		2					
Station:	2	3		202	3150	10.1	2.888		3					
Event Date (Local):	30 Sept	4		203	3021	10.1	2.892		4					
Analysis Date (Local):	30 Sept. 18	5		204	3104	10.3	2.915		5					
Analyst:	KS	6		205	1053	10.3	2.956		6					
Stdization Date (Local):	30 Sept. 18	7		206	639	10.3	2.989		7					
KIO ₃ N:	0.0119329	8		207	3134	10.1	2.969		8					
Standard Titer:	0.49367	9		208a	620	10.1	3.139	⇒	9	208b	2084	10.1	3.123	Bad!
Blank Titer:	0.00012	10		209	3034	10.4	3.332		10					
THIO N:	0.24198	11		210	3061	10.7	3.556		11					
Sample Flask Water Seal?	Yes	12		211	1002	11.4	3.993		12					
	No	13		212	3035	12.1	4.624		13					
Reagent Change?	MnCl ₂	14		213a	2075	13.0	5.455	⇒	14	213b	647	13.0	5.463	
(Please circle reagent that was changed prior to sampling and standardization)	Na / NaOH	15		214	3108	13.9	6.046		15					
	H ₂ SO ₄	16							16					
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17							17					
	THIO	18							18					
Notes:	Sample CS	19							19					
	Fix HR	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.

200	201	202	203	204	205	206	207	208 A	208 B	209	210	211	212	213 A	213 B	214
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31
Bot 1	Bot 2	Bot 3	Bot 4	Bot 5	Bot 6	Bot 7	Bot 8	Bot 9	Bot 9	Bot 10	Bot 11	Bot 12	Bot 13	Bot 14	Bot 14	Bot 15

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Cruise Number:	2018-31	1			136	339	9.7	2.904		1					
Event:	74	2			233	547	9.8	2.918		2					
Station:	6	3			234	557	10.1	2.959		3					
Event Date (Local):	30 Sept 2018	4			235	658	10.3	3.702	2.953	4					
Analysis Date (Local):	30 Sept 2018	5			236	730	10.8	3.702	Was Leaking from end cap. Value high	5					
Analyst:	RS	6			237A	805	9.9	2.898		6	137B	1055	9.9	2.879	
Stdization Date (Local):	30 Sept 2018	7			238	1050	10.0	3.277		7					
KIO ₃ N:	0.019329	8			239	3131	10.5	3.489		8					
Standard Titer:	0.49367	9			240	3551	10.9	3.745		9					
Blank Titer:	0.241985	10			241	1311	11.5	4.189		10					
THIO N:	0.00012	11			242A	1472	13.3	5.745		11	242B	1452	13.3	5.763	Wow.
Sample Flask	Yes	12			243	2014	14.3	6.837		12					
Water Seal?	No	13			244	3088	14.5	6.845		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:	Sample CS	19								19					
	Fix HR	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.

232	233	234	235	236	237 ^A	237 ^B	238	239	240	241	242 ^A	242 ^B	243	244
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31
Bot 1	Bot 2	Bot 3	Bot 4	Bot 5	Bot 6	Bot 6	Bot 7	Bot 8	Bot 9	Bot 10	Bot 11	Bot 11	Bot 12	Bot 13

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Cruise Number:	298-31	1		245	435	9.5	2.759		1					
Event:	77	2		246	435	9.4	2.609	AD	2	246	435	9.5	2.607	
Station:	9	3		247	458	9.6	2.773		3					
Event Date (Local):	30 Sept 18	4		248	575	10.0	2.796		4					
Analysis Date (Local):	30 Sept 18	5	X	249	435	11.0	4.044	Bottom cap leak again. Value high	5					
Analyst:	KS	6		250	1023	10.1	3.172		6					
Stdization Date (Local):	30 Sept 18	7		251	1422	10.7	3.631	AD	7	251	1442	10.6	3.633	
KIO ₃ N:	0.0119329	8		252	2094	10.9	3.825		8					
Standard Titer:	0.49367	9		253	3000	11.1	3.971		9					
Blank Titer:	0.00012	10		254	3010	11.5	4.201		10					
THIO N:	0.24198	11		255	3056	13.1	5.677		11					
Sample Flask Water Seal?	Yes	12		256	362	13.9	6.493		12					
	No	13							13					
Reagent Change?	MnCl ₂	14							14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15							15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16							16					
	KIO ₃	17							17					
	THIO	18							18					
Notes:		19							19					
		20							20					
		21							21					
		22							22					
		23							23					
		24							24					

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

245	246 ^A	246 ^B	247	248	249	250	251 ^A	251 ^B	252	253	254	255	256
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
9	9	9	9	9	9	9	9	9	9	9	9	9	9
2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31
Bot 1	Bot 2	Bot 2	Bot 3	Bot 4	Bot 5	Bot 6	Bot 7	Bot 7	Bot 8	Bot 9	Bot 10	Bot 11	Bot 12

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Bender

Cruise and Analysis Information		Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2018-031	1			257	429	9.7	2.833		1					
Event:	82	2			258	650	9.6	2.860		2					
Station:	12	3			259	691	9.7	2.881		3					
Event Date (Local):	30 Sept. 18	4			260	1015	9.9	2.880		4					
Analysis Date (Local):	30 Sept. 18	5			261	1019	9.9	2.899		5					
Analyst:	KS	6			262A	1314	10.0	2.889	=>	6	262B	1401	10.1	2.885	
Stdization Date (Local):	30 Sept. 18	7			263	1418	9.9	2.870		7					
KIO ₃ N:	0.0119329	8			264A	1470	9.9	2.844	=>	8	264B	1457	9.9	2.847	
Standard Titer:	0.49367	9			265	2085	9.7	2.922		9					
Blank Titer:	0.00012	10			266	2069	9.9	2.993		10					
THIO N:	0.24198	11			267	2087	10.3	3.219		11					
Sample Flask Water Seal?	Yes	12			268	2099	10.4	3.337		12					
	No	13			269	3014	11.0	3.859		13					
Reagent Change?	MnCl ₂	14			270	3018	13.1	6.017		14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15			271	3019	13.8	6.848	dirty #2 tip	15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16			272	3037	14.2	7.112	dirty #2 tip	16					
	KIO ₃	17								17					
	THIO	18								18					
Notes:	Sample KS	19								19					
	Fix KY	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.

257	258	259	260	261	262 A	262 B	263	264 A	264 B	265	266	267	268	269	270	271
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31
Bot 1	Bot 2	Bot 3	Bot 4	Bot 5	Bot 6	Bot 6	Bot 7	Bot 8	Bot 8	Bot 9	Bot 10	Bot 11	Bot 12	Bot 13	Bot 14	Bot 15

272
OXY
12
2018-31
Bot 16

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Cruise and Analysis Information	Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 2018-31	1			274	3056	10.1	2.894		1					
Event: 84	2			275	1059	10.2	2.904		2					
Station: 14	3			276	3/50	10.3	2.908		3					
Event Date (Local): 30 Sept 2018	4			277	3021	10.5	2.911		4					
Analysis Date (Local): 30 Sept. 18	5			278	3104	10.1	2.886		5					
Analyst: KS	6			279	1053	9.9	2.855		6					
Stdization Date (Local): 30 Sept. 18	7			280a	3/34	9.8	2.757		7	280b	639	9.8	2.757	
KIO ₃ N: 0.0119329	8			281a	2084	10.3	3.319		8	281b	620	10.3	3.317	
Standard Titer: 0.49367	9			282	3034	10.8	3.515		9					
Blank Titer: 0.00012	10			283	3061	11.0	3.568		10					
THIO N: 0.24198	11			284	1002	10.6	3.607		11					
Sample Flask Water Seal? ☒ Yes	12			285	3035	10.6	3.612	FP late, OT was nice	12					
☐ No	13			286	2075	11.1	3.933	↳	13					
Reagent Change? MnCl ₂	14			287	1647	11.7	5.085		14					
(Please circle reagent that was changed prior to sampling and standardization)	15			288	3108	11.9	5.169		15					
H ₂ SO ₄	16								16					
NOTE NEW BATCH IN LOG BOOK	17								17					
KIO ₃	18								18					
THIO	19								19					
Notes: Octopus	20								20					
Sample KS	21								21					
Fix KY	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.

274	275	276	277	278	279	280 B	280A	281 B	281 A	282	283	284	285	286	287	288
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31
Bot 1	Bot 2	Bot 3	Bot 4	Bot 5	Bot 6	Bot 7	Bot 7	Bot 8	Bot 8	Bot 9	Bot 10	Bot 11	Bot 12	Bot 13	Bot 14	Bot 15

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Cruise Number:	2018-031	1			290	435		2.865		1					
Event:	88	2			291	439		2.881		2					
Station:	16	3			292	456		2.985		3					
Event Date (Local):	30 Sept. 2018	4			293	458		3.066		4					
Analysis Date (Local):	30 Sept. 2018	5			294	575		3.231		5					
Analyst:	KS	6			295	437		3.203		6					
Stdization Date (Local):	30 Sept. 2018	7			296	1023		3.563	⇒	7	296B	1422	5	3.563	sampled B first
KIO ₃ N:	0.0118329	8			297	1442		3.928	⇒	8	297B	2094	5	3.924	
Standard Titer:	0.49367	9			298	3000		4.009		9					
Blank Titer:	0.00012	10			299	3010		4.790	no temp probes working	10					
THIO N:	0.24198	11			300	3036		6.156	temp probe not working	11					
Sample Flask Water Seal?	Yes	12							temp probe failure number 2	12					
	No	13								13					
Reagent Change?	MnCl ₂	14								14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15								15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16								16					
	KIO ₃	17								17					
	THIO	18								18					
Notes:	Turtle	19								19					
	Sample KS	20								20					
	Fix KY	21								21					
		22								22					
		23								23					
		24								24					

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290	291	292	293	294	295	296 A	296 B	297 A	297 B	298	299	300
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
16	16	16	16	16	16	16	16	16	16	16	16	16
2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31
Bot 1	Bot 2	Bot 3	Bot 4	Bot 5	Bot 6	Bot 7	Bot 7	Bot 8	Bot 8	Bot 9	Bot 10	Bot 11

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Rain Bad.

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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:	2018-31	1			305	339	10.5	2.128		1					
Event:	94	2			32	547	10.6	1.993		2					
Station:	PEN1	3			307A	557	10.5	1.410	⇒	3	307B	658	10.6	1.406	
Event Date (Local):	01 Oct 18	4			308	730	10.6	0.720		4					
Analysis Date (Local):	01 Oct 18	5			309	308	10.7	1.043		5					
Analyst:	KS	6			310	1035	10.9	2.079		6					
Stdization Date (Local):	30 Sep. 18	7			311	1050	11.3	2.379		7					
KIO ₃ N:	0.0119329	8			312	381	11.7	2.835		8					
Standard Titer:	0.49367	9			313	385	12.4	3.224	⇒	9	386	311	12.1	3.218	
Blank Titer:	0.00012	10			314	1472	12.9	3.877		10					
THIO N:	0.241898	11			315	1402	13.3	4.759		11					
Sample Flask	Yes	12								12					
Water Seal?	No	13								13					
Reagent Change?	MnCl ₂	14			318	2014	14.3	6.580		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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305	306	307 ^A	307 ^B	308	309	310	311	312	313 ^A	313 ^B	314	315	318
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
PEN1	PEN1	PEN1	PEN1	PEN1	PEN1	PEN1	PEN1	PEN1	PEN1	PEN1	PEN1	PEN1	PEN1
2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31
Bot 1	Bot 2	Bot 3	Bot 3	Bot 4	Bot 5	Bot 6	Bot 7	Bot 8	Bot 9	Bot 9	Bot 10	Bot 11	Bot 14

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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:	2018-31	1			320	429	11.1	2.882		1					
Event:	96	2			321	450	11.1	2.902	→	2	321B	691	11.1	2.900	
Station:	PEN 2	3			322	605	11.0	2.608		3					
Event Date (Local):	01 OCT 18	4			323A	1019	11.1	2.444	→	4	323B	134	11.0	2.443	
Analysis Date (Local):	30 Sept 18	5			324	1401	11.2	2.240		5					
Analyst:	KS Oct. 1 18	6			325	1418	11.3	1.685		6					
Stdization Date (Local):	30 Sept. 18	7			326	1470	11.1	1.084		7					
KIO ₃ N:	0.0119329	8			327	1457	11.1	1.219		8					
Standard Titer:	0.49367	9			328	2035	11.1	2.391		9					
Blank Titer:	0.00012	10			329	2069	11.3	2.705		10					
THIO N:	0.241898	11			330	2087	11.4	3.006		11					
Sample Flask Water Seal?	Yes	12			331	2099	11.6	3.351		12					
	No	13			332	3014	11.7	4.104		13					
Reagent Change?	MnCl ₂	14			333	3019	11.7	4.677	EP late. Over-Titration good	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			336	3019	11.4	6.506		17					
	THIO	18								18					
Notes:	BENDER	19								19					
	Sample CS	20								20					
	Fix HR	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.

320	321 <i>A</i>	321 <i>B</i>	322	323 <i>A</i>	323 <i>B</i>	324	325	326	327	328	329	330	331	332	333	336
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
PEN2	PEN2	PEN2	PEN2	PEN2	PEN2	PEN2	PEN2	PEN2	PEN2	PEN2	PEN2	PEN2	PEN2	PEN2	PEN2	PEN2
2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31
Bot 1	Bot 2	Bot 2	Bot 3	Bot 4	Bot 4	Bot 5	Bot 6	Bot 7	Bot 8	Bot 9	Bot 10	Bot 11	Bot 12	Bot 13	Bot 14	Bot 17

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Last Updated: January 2017



Cruise and Analysis Information		Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	208-31	1			338	300	9.5	2.818		1					
Event:	97	2			339	1059	9.5	2.901		2					
Station:	PEN3	3			340	3150	9.5	2.902		3					
Event Date (Local):	01 Oct 18	4			341	3121	9.5	2.757		4					
Analysis Date (Local):	01 Oct 18	5			342	3104	9.7	2.552		5					
Analyst:	KS	6			343	1053	9.8	2.140		6					
Stdization Date (Local):	30 Sept 18	7			344	639	9.8	1.767		7					
KIO ₃ N:	0.0119329	8			345	3134	9.7	1.572		8					
Standard Titer:	0.49367	9			346	620	9.7	2.114		9					
Blank Titer:	0.00012	10			347	A208	9.8	2.671	Incorrect Flask ID and draw	10	347B331		9.7	2.660	Incorrect
THIO N:	0.24198	11			348	306	9.9	2.918	T. Must recalculate.	11					
Sample Flask Water Seal?	(Yes) No	12			349	1002	10.0	2.956		12					
Reagent Change?	MnCl ₂	13			350	3035	10.5	3.254	switched thermo	13					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14			351	205	13.5	4.204		14					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15			352	647	14.0	5.698		15					
	KIO ₃	16			353	A3108	14.9	6.912	temp flex in bottle temp & thermo?	16	353B108		14.5	6.929	
	THIO	17								17					
Notes:	0670P08	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.

338	339	340	341	342	343	344	345	346	347 ^R	347 ^A	348	349	350	351	352	353 ^A	353 ^B
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
PEN3	PEN3	PEN3	PEN3	PEN3	PEN3	PEN3	PEN3	PEN3	PEN3	PEN3	PEN3	PEN3	PEN3	PEN3	PEN3	PEN3	PEN3
2019-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31	2018-31
Bot 1	Bot 2	Bot 3	Bot 4	Bot 5	Bot 6	Bot 7	Bot 8	Bot 9	Bot 10	Bot 10	Bot 11	Bot 12	Bot 13	Bot 14	Bot 15	Bot 16	Bot 16