

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last Updated: December 2019

Cruise and Analysis Information		Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2024-034	1		2	164	10.4	5.060		1					
Event:	2	2		3	3028	10.6	5.056		2					
Station:	nc06	3		4	1338	10.6	5.004		3					
Event Date (Local):	13/06/2024	4		5A	3117	10.6	4.922		4	5B	968	10.6	5.052	ground glass drying, big bubble in flask
Analysis Date (Local):	21 Jun 2024	5		6	157	10.4	4.913	ground glass drying, big bubble.	5					
Analyst:	ER	6		7	963	10.5	4.844	" bubble	6					
Stdization Date (Local):	20 Jun 2024	7		8	1465	10.6	4.889		7					
KIO ₃ N:	2303: 0.0118027 N	8		9	905	10.9	5.134		8					
Standard Titer:	0.4925272	9							9					
Blank Titer:	0.0007085	10		2		3	4	5A	10					
THIO N:	0.239938	11		OXY		OXY	OXY	OXY	11					
Sample Flask Water Seal?	☒ Yes ☐ No	12		nc06		nc06	nc06	nc06	12					
Reagent Change?	MnCl ₂	13		2024-034	2024-034	2024-034	2024-034	2024-034	13					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14		b-5 m	100 m	75 m	50 m	50 m	14					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15		bot 1	bot 2	bot 3	bot 4	bot 4	15					
	KIO ₃	16							16					
	THIO	17							17					
Notes:		18							18					
Mermaid.xlsx		19							19					
Most of the samples from this cruise don't have a water seal ☒		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.

Stone reports they were sealed but either spilled or evaporated - probably OK but will look @ ground glass and bubbles. Unless otherwise noted look OK ;)

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Cruise Number:	2024-034	1		10	3180	10.4	5.222		1					
Event:	8	2		11A	1326	10.4	5.124	big bubble in flask (4)	2	11B	146	10.4	5.480	big bubble in flask (4)
Station:	nc9	3		12	3108	10.4	5.299		3					
Event Date (Local):	13/06/2024	4		13	942	10.4	4.887		4					
Analysis Date (Local):		5		14	3127	10.4	4.796	small bubbles in flask, ground	5					
Analyst:		6		15	3095	10.4	4.802		6					
Stdization Date (Local):		7		16	150	10.6	5.172	big bubble in flask, ground	7					
KIO ₃ N:		8		17	1035	10.7	5.954		8					
Standard Titer:		9							9					
Blank Titer:		10							10					
THIO N:		11			10		11A			14		15		16
Sample Flask	Yes	12			OXY		OXY	11B	12	OXY		OXY		17
Water Seal?	No	13			nc9		nc9	OXY	OXY	nc9		nc9		OXY
Reagent Change?	MnCl ₂	14			2024-034		2024-034	nc9	nc9	2024-034		2024-034		nc9
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15			b-5 m		100 m	2024-034	2024-034	50 m		10 m		2024-034
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16			bot 1		bot 2	100 m	75 m	bot 4		bot 6		0 m
	KIO ₃	17						bot 2	bot 3					bot 8
	THIO	18												
Notes:		19												
		20												
Mermaid.xlsx		21												
		22												
		23												
		24												

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Cruise Number: 2024-034	1		18	926	10.1	5.011		1					
Event: 32	2		19	138	10.1	4.953		2					
Station: nc14	3		20	621	10.2	4.839		3					
Event Date (Local): 15/06/2024	4		21	999	10.3	4.779		4					
Analysis Date (Local):	5		22	3067	10.3	4.760		5					
Analyst:	6		23	143	10.3	4.694		6					
Stdization Date (Local):	7		24A	125	10.4	4.756		7	24B	112	10.4	4.859	re draw
KIO ₃ N:	8		25	3056	10.4	4.789		8			10.5		
Standard Titer:	9							9					
Blank Titer:	10		18					10					
THIO N:	11		OXY		19	OXY		11					
Sample Flask Yes	12		nc14		20	OXY		12					
Water Seal? No	13		2024-034		21	OXY		13					
Reagent Change? MnCl ₂	14		b-5 m		22	OXY		14					
(Please circle reagent that was changed prior to sampling and standardization)	15		bot 1		23	OXY		15					
NOTE NEW BATCH IN LOG BOOK	16				24A	OXY		16					
	17				24B	OXY		17					
	18				25	OXY		18					
Notes:	19							19					
	20							20					
Mermaid.xlsx	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:	2024-034	1		26	2089	10.4	4.869	big bubble, ground glass drying	1					
Event:	36	2		27A	132			Did not sample	2	27B	1337			did not sample
Station:	pa7r	3		28	940	10.4	5.280	bubble (big), ground glass drying	3					
Event Date (Local):	15/06/2024	4		29	620	10.4	4.873		4					
Analysis Date (Local):		5		30	3089	10.5	4.944	big bubble, ground glass drying	5					
Analyst:		6		31	3025	10.6	5.325	bubbles in flask	6					
Stdization Date (Local):		7		32	929	10.7	5.309	bubbles in flask, precip looks weird	7					
KIO ₃ N:		8		33	1322	10.9	5.349	precip looks weird, streaked along sides of flask ... small bubbles	8					
Standard Titer:		9						end voltage suppressed to ~2.25V	9					
Blank Titer:		10							10					
THIO N:		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:		19		26	28	29	30	31	32	33				
		20		OXY	OXY	OXY	OXY	OXY	OXY	OXY				
		21		pa7r	pa7r	pa7r	pa7r	pa7r	pa7r	pa7r				
		22		2024-034	2024-034	2024-034	2024-034	2024-034	2024-034	2024-034				
		23		b-5 m	75 m	50 m	25 m	10 m	5 m	0 m				
		24		bot 1	bot 3	bot 4	bot 5	bot 6	bot 7	bot 8				

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Cruise Number:	2024-034	1		34	1002	10.9	4.805		1					
Event:	45	2		35	2047	11.0	4.821	forgot to put in draw temp	2					
Station:	pa1r	3		36	115	11.0	4.895	URGENT	3		11			need to recalculate
Event Date (Local):	16/06/2024	4		37A	510	11.3	5.854	redraw 37A	4	37B	995	11.3	5.665	recalc this one too
Analysis Date (Local):		5		38	135			no water in Nisk can	5					
Analyst:		6							6					
Stdization Date (Local):		7							7					
KIO ₃ N:		8							8					
Standard Titer:		9							9					
Blank Titer:		10							10					
THIO N:		11							11					
Sample Flask	Yes	12							12					
Water Seal?	No	13							13					
Reagent Change?	MnCl ₂	14							14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15							15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16							16					
	KIO ₃	17							17					
	THIO	18							18					
Notes:		19							19					
Earth.xlsx		20							20					
		21							21					
		22							22					
		23							23					
		24							24					

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Cruise Number:	2024-034	1		39	2000	11.0	4.783		1					
Event:	46	2		40	182	10.9	4.831		2		161			
Station:	pa5r	3		41A	901	10.9	5.052	big bubble, dry ground glass	3	41B	308T	10.9	4.868	BOT 308T not in case
Event Date (Local):	16/06/2024	4		42	3059	11.3	6.362		4					
Analysis Date (Local):		5		43	3059	11.6	8.101	big bubble in flask 'i	5					
Analyst:		6							6					
Stdization Date (Local):		7							7					
KIO ₃ N:		8							8					
Standard Titer:		9							9					
Blank Titer:		10												
THIO N:		11												
Sample Flask	Yes	12												
Water Seal?	No	13												
Reagent Change?	MnCl ₂	14												
(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												
Earth.xlsx		21												
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Cruise Number:	2024-034	1		44	3131	10.2	4.923		1					
Event:	67	2		45	1015	10.3	4.903		2					
Station:	cc5	3		46	991	10.4	4.960		3					
Event Date (Local):	17/06/2024	4		47	987	10.5	4.974		4					
Analysis Date (Local):		5		48	990	10.7	5.100		5					
Analyst:		6		49A	951	10.9	5.205		6	49B	3135	10.8	5.203	
Stdization Date (Local):		7		50	3110	11.0	5.257		7					
KIO ₃ N:		8							8					
Standard Titer:		9							9					
Blank Titer:		10							10					
THIO N:		11												
Sample Flask	Yes	12												
Water Seal?	No	13												
Reagent Change?	MnCl ₂	14												
(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							17					
	THIO	18							18					
Notes:		19							19					
		20							20					
Earth.xlsx		21							21					
		22							22					
		23							23					
		24							24					

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Cruise Number:	2024-034	1		52	176	10.2	4.927	redraw	1					
Event:	71 69	2		53	189	10.3	4.970		2					
Station:	cc3	3	X	54	3075	10.3	4.989		3					
Event Date (Local):	17/06/2024	4		55	647	10.4	5.047		4					
Analysis Date (Local):		5		56	439	10.4	4.995	black reagent junk above ground glass	5					
Analyst:		6		57	22	10.4	5.011	"Same junk."	6					
Stdization Date (Local):		7		58A	2032	10.7	5.055		7	58B	910	10.7	5.060	
KIO ₃ N:		8		59	2025	10.9	5.204	black reagent junk above	8					
Standard Titer:		9							9					
Blank Titer:		10		52	53	54	55	56	57	58A	58B	59		
THIO N:		11		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY		
Sample Flask	Yes	12		cc3	cc3	cc3	cc3	cc3	cc3	cc3	cc3	cc3		
Water Seal?	No	13		2024-034	2024-034	2024-034	2024-034	2024-034	2024-034	2024-034	2024-034	2024-034		
Reagent Change?	MnCl ₂	14		b-5 m	100 m	75 m	50 m	25 m	10 m	5 m	5 m	5 m		
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		bot 1	bot 2	bot 3	bot 4	bot 5	bot 6	bot 7	bot 7	bot 8		
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16												
	KIO ₃	17												
	THIO	18												
Notes:		19												
		20												
		21												
		22												
		23												
		24												

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Cruise Number:	2024-034	1		60	950	10.3	4.927		1					
Event:	96	2		61A	1457	10.4	4.965	brown junk ↑gg	2	61B	3002	10.4	4.985	brown junk ↑gg
Station:	cc1	3		62	3209	10.5	4.990	brown junk ↑gg	3					
Event Date (Local):	18/06/2024	4		63	3037	10.5	4.959		4					
Analysis Date (Local):		5		64	745	10.7	5.017	brown junk ↑gg	5					
Analyst:		6		65	3100	10.9	5.145		6					
Stdization Date (Local):		7		66	1050	11.2	5.270	brown junk ↑gg	7					
KIO ₃ N:		8		67	153	11.3	5.379		8					
Standard Titer:		9							9					
Blank Titer:		10												
THIO N:		11												
Sample Flask	Yes	12												
Water Seal?	No	13												
Reagent Change?	MnCl ₂	14												
(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												
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