Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Last Updated: December 2019

Cruise and Analysis Information	
Cruise Number:	2024-032
Event:	67
Station:	BU04
Event Date (Local):	2024-02-27
Analysis Date (Local):	2024-03-11
Analyst:	ER
Stdization Date (Local):	2024-03-11
KIO_3 N:	0.0120872
Standard Titer:	0.4879518
Blank Titer:	0.0000563
THIO N:	0.247821
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:	EK- water seal intact upon receipt in lab, topped up 05 March.
Snail.xlsx	

Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments
1							
3							
4	3						
5	4		122	130	8.7	2.847	
6	5		123	923	8.5	3.003	
7	6		124A	3032	8.5	2.972	→ integrity? nisk'n leak
8	7		125	126	8.8	2.570	
9	8		126	1402	8.9	2.577	
10	9		127	3096	9.0	2.660	
11	10		128	3109	9.0	2.862	
12	11		129	151	8.8	3.362	
13	12		130A	154	8.8	3.724	→
14	13		131	575	8.4	4.328	
15	94						
16	15		133	171	8.5	4.437	
17	16		134	903	8.1	5.220	
18	17		135	20	7.6	5.838	
19	18		136	1192	7.5	5.960	
20			OXY	OXY	OXY	OXY	
21			BU04	BU04	BU04	BU04	
22			2024-032	2024-032	2024-032	2024-032	
23			B-5 m	500 m	400 m	150 m	
24			bot 4	bot 5	bot 6	bot 10	

Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
1					
2					
3					
4					
5					
6	124B	913	8.6	2.966	Bottom O-ring crank?
7					
8					
9					
10					
11					
12	130B	129	8.8	3.723	
13					
14					
15					
16					
17					
18					
19					
20	OXY	OXY	OXY	OXY	
21	BU04	BU04	BU04	BU04	
22	2024-032	2024-032	2024-032	2024-032	
23	75 m	25 m	10 m	5 m	
24	bot 12	bot 15	bot 16	bot 17	

Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
19	136				
20	OXY				
21	BU04				
22	2024-032				
23	0 m				
24	bot 18				

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the ve... the a... ate column if either fails... integrity check and explain thi... this column.

124B
OXY
BU04
2024-032
400 m
bot 6

late endpoint.
OT. ~~✓~~ use OT.

125
OXY
BU04
2024-032
300 m
bot 7

late endpoint
OT still late.
adjust using O2Check
143753 Volume = 0.29450

△ water bath

126
OXY
BU04
2024-032
250 m
bot 8

still late ENDPOINT
adjusted dispensing tube placement.
OT.
looks better

127
OXY
BU04
2024-032
200 m
bot 9

zoop / floaties in flask
endpoint OK,
much happier with dispensing tube adjusted

131
OXY
BU04
2024-032
50 m
bot 13

bubble in flask

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Institute of Ocean Sciences
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SNAIL

IOS

Last Updated: December 2019

Cruise and Analysis Information	
Cruise Number:	2024-032
Event:	84
Station:	JE03
Event Date (Local):	2024-02-29
Analysis Date (Local):	2024-03-11
Analyst:	ER
Stdization Date (Local):	2024-03-11
KIO_3 N:	0.0120872
Standard Titer:	0.4879518
Blank Titer:	0.000563
THIO N:	0.247821
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:	blue then red
Snail.xlsx	
Mermaid.xlsx	

Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments
1							
2							
3							
4			167	114	9.0	2.137	
5			168	959	8.9	2.130	
6			169	109	8.9	2.063	
7			170A	3033	8.9	1.966	→
8			171	3080	9.0	2.080	
9		X	172	1059	9.2	2.396	spigot leaked due to top valve O-ring
10			173	900	9.1	2.379	
11			174	3041	9.3	2.975	
12			175A	2035	9.0	3.922	→
13			176	918	8.9	4.614	
14			177	969	8.5	4.980	
15							
16			179	1400	8.3	5.335	
17			180	164	7.8	6.200	Start of Box Mermaid.xlsx
18			181	435	7.8	6.200	
19			182	1338	7.6	6.200	
20							
21							
22							
23							

Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
1					
2					
3					
4					
5					
6					
7	170B	152	9.0	1.944	
8					
9					
10					
11					
12	175B	108	9.1	3.922	
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

182 OXY JE03 2024-032 0 m bot 19

167	168	169	170A	170B	171	172	173	174	175A	175B	176	177	179	180	181
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
JE03	JE03	JE03	JE03	JE03	JE03	JE03	JE03	JE03	JE03	JE03	JE03	JE03	JE03	JE03	JE03
2024-032	2024-032	2024-032	2024-032	2024-032	2024-032	2024-032	2024-032	2024-032	2024-032	2024-032	2024-032	2024-032	2024-032	2024-032	2024-032
B-5 m	600 m	500 m	400 m	400 m	300 m	250 m	200 m	150 m	100 m	100 m	75 m	50 m	25 m	10 m	5 m
bot 4	bot 5	bot 6	bot 7	bot 7	bot 8	bot 9	bot 10	bot 11	bot 12	bot 12	bot 13	bot 14	bot 16	bot 17	bot 18