

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last Updated: December 2019

Cruise and Analysis Information							OXY-1					OXY-2				
	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: 2023-080	1							1								
Event: 21	2							2								
Station: SECH4	3		28	164	9.3	1.976		3								
Event Date (Local): 2023-11-03	4		29	435	9.3	2.113		4								
Analysis Date (Local): 2023-11-07	5		30	1338	9.3	2.237		5								
Analyst: ER	6		31	3117	9.4	2.283		6								
Stdization Date (Local): 2023-11-06	7		32	968	10.3	3.411		7								
KIO ₃ N: 0.0120406	8		33A	157	10.6	3.562		8	33B	963	10.6	3.557				
Standard Titer: 0.50211	9							9								
Blank Titer: 0.00042	10		35	1465	11.5	3.584		10								
THIO N: 0.24010	11		36	905	11.7	3.659		11								
Sample Flask Water Seal? ☒ Yes	12		37	3180	11.4	4.007		12								
☐ No	13		38	1326	11.4	4.312		13								
Reagent Change? MnCl ₂	14		39A	146	11.4	4.573		14	39B	3108	11.5	4.584				
(Please circle reagent that was changed prior to sampling and standardization)	15							15								
NOTE NEW BATCH IN LOG BOOK	16							16								
	17							17								
	18							18								
Notes: MgCl ₂ 2122 Mgr	19							19								
Mermaid.xlsx Neat 2301	20							20								
Ne I	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.

28	29	30	31	32	33A	33B	35	36	37	38	39A	39B
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
SECH4	SECH4	SECH4	SECH4	SECH4	SECH4	SECH4	SECH4	SECH4	SECH4	SECH4	SECH4	SECH4
2023-080	2023-080	2023-080	2023-080	2023-080	2023-080	2023-080	2023-080	2023-080	2023-080	2023-080	2023-080	2023-080
bot-5 m	250 m	200 m	150 m	100 m	75 m	75 m	50 m	25 m	10 m	5 m	0 m	0 m
bot 3	bot 4	bot 5	bot 6	bot 7	bot 8	bot 8	bot 10	bot 11	bot 12	bot 13	bot 14	bot 14

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Cruise and Analysis Information

Cruise Number: 2023-080
Event: 33
Station: JE03
Event Date (Local): 2023-11-04
Analysis Date (Local): 2023-11-07
Analyst: ER
Stdization Date (Local): 2023-11-06
KIO₃ N: 0.0120406
Standard Titer: 0.50211
Blank Titer: 0.00042
THIO N: 0.24010
Sample Flask Water Seal? ☒ Yes ☐ No
Reagent Change? ☐ MnCl₂ ☐ NaI/NaOH ☐ H₂SO₄ ☐ KIO₃ ☐ THIO

Notes:

Mermaid.xlsx

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.

Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)
1					
2					
3					
4		74	942	9.9	2.681
5		75	3127	9.9	2.705
6		76	3095	9.9	9.9
7		77	150	9.8	2.314
8		78	1035	9.8	2.344
9		79	926	9.8	1.936
10		80	138	9.6	2.336
11		81	920	9.7	2.488
12		82A	999	10.6	2.932
13		83	143	10.3	3.057
14					
15		85	125	10.2	3.229
16		86	112	11.0	4.874
17	X	87A	3056	10.9	5.982
18	X	88	1019	11.0	5.895
19		89	134	10.9	-99
20					
21					
22					
23					
24					

OXY-1 Comments

-redraw 12 v 2.574

went OLE

missing - sample not collected

Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11	82B	3067	10.6	2.930
12				
13				
14				
15				
16	87B			
17	175			
18				
19				
20				
21				
22				
23				
24				

OXY-2 Comments

The MgCl₂ is problematic. Tube wrong way on?

vent not closed
missing draw temp
used 87A's

16-18 vent
vents open because
chlorophylls
were accidentally
emptied

74
OXY
JE03
2023-080
bot-5 m
bot 3

87A
OXY
JE03
2023-080
10 m
bot 16

75
OXY
JE03
2023-080
600 m
bot 4

87B
OXY
JE03
2023-080
10 m
bot 16

76
OXY
JE03
2023-080
500 m
bot 5

88
OXY
JE03
2023-080
5 m
bot 17

77
OXY
JE03
2023-080
400 m
bot 6

78
OXY
JE03
2023-080
300 m
bot 7

79
OXY
JE03
2023-080
250 m
bot 8

80
OXY
JE03
2023-080
200 m
bot 9

81
OXY
JE03
2023-080
150 m
bot 10

82A
OXY
JE03
2023-080
100 m
bot 11

82B
OXY
JE03
2023-080
100 m
bot 11

83
OXY
JE03
2023-080
75 m
bot 12

85
OXY
JE03
2023-080
50 m
bot 14

86
OXY
JE03
2023-080
25 m
bot 15

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Cruise Number: 2023-080							1								1					
Event: 43							2								2					
Station: TO2A							3		112	1314	9.6	2.94			3					
Event Date (Local): 2023-11-05							4		113	3034					4					
Analysis Date (Local): 2023-11-07							5		114	912	9.5	2.74	3034		5					
Analyst: ER							6		115	3074	9.6	2.41	912		6					
Stdization Date (Local): 2023-11-06							7		116	1429	9.4	2.55	3074		7					
KIO ₃ N: 0.0120406							8		117A	1487	9.5	1.87	1429		8	117B	3133	9.5	1.87	1487
Standard Titer: 0.50211							9		118	178	9.5	2.06	3133		9					
Blank Titer: 0.00042							10		119	981	9.4	2.24	178		10					
THIO N: 0.24010							11								11					
Sample Flask Water Seal? ☒ Yes							12		121	1491	9.7	3.24	981		12					
No							13		122	921	9.9	3.74	1491		13					
Reagent Change? MnCl ₂							14		123	3146	10.1	4.52	921	1608 curve ugly - O2 check this	14					
(Please circle reagent that was changed prior to sampling and standardization)							15		124A	3126	10.3	6.23	3116		15	124B	185	10.4	6.23	3126
NOTE NEW BATCH IN LOG BOOK							16		125	3148	10.3	6.28	185		16					
H ₂ SO ₄							17								17					
KIO ₃							18								18					
THIO							19								19					
Notes:							20								20					
Humming Bird.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.

112
OXY
TO2A
2023-080
bot-5 m
bot 3

114
OXY
TO2A
2023-080
300 m
bot 5

115
OXY
TO2A
2023-080
250 m
bot 6

116
OXY
TO2A
2023-080
200 m
bot 7

117A
OXY
TO2A
2023-080
150 m
bot 8

117B
OXY
TO2A
2023-080
150 m
bot 8

118
OXY
TO2A
2023-080
100 m
bot 9

119
OXY
TO2A
2023-080
75 m
bot 1r

121
OXY
TO2A
2023-080
50 m
bot 12

122
OXY
TO2A
2023-080
25 m
bot 13

124A
OXY
TO2A
2023-080
5 m
bot 15

124B
OXY
TO2A
2023-080
5 m
bot 15

125
OXY
TO2A
2023-080
0 m
bot 16

123
OXY
TO2A
2023-080
10 m
bot 14

Cone vgly
need to se O2 check,
T = 2020² after
time = 1608 finish