

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last Updated: December 2019

Cruise and Analysis Information				OXY-1 Comments										OXY-2 Comments							
Cruise Number:	2023-066	Nisk ID	1	Sample ID	18	Flask 1 <td>164</td> <th>Draw Temp 1 (°C)</th> <td>8.4</td> <th>OXY-1 (mL/L)</th> <td>4.188</td> <th>Nisk ID</th> <td>1</td> <th>Sample ID</th> <td>19B</td> <th>Flask 2<td>1338</td><th>Draw Temp 2 (°C)</th><td>8.5</td><th>OXY-2 (mL/L)</th><td>4.300</td></th>	164	Draw Temp 1 (°C)	8.4	OXY-1 (mL/L)	4.188	Nisk ID	1	Sample ID	19B	Flask 2 <td>1338</td> <th>Draw Temp 2 (°C)</th> <td>8.5</td> <th>OXY-2 (mL/L)</th> <td>4.300</td>	1338	Draw Temp 2 (°C)	8.5	OXY-2 (mL/L)	4.300
Event:	3		2	19A	435			8.5	4.300			2									
Station:	Har059		3	20	3117			8.6	-			3									
Event Date (Local):	2023-05-01		4	21	968			8.7	5.472	Forcort ACCTD		4									
Analysis Date (Local):	2023-05-01		5	22	157			8.8	5.644			5									
Analyst:	MS		6	23	963			8.8	5.804			6									
Standardization Date (Local):	2023-05-01		7	24	1465			8.9	5.882			7									
KIO ₃ N:	0.0117933		8	25A	905			8.9	5.985			8	25B	3180			8.9	5.990			
Standard Titer:	0.4171		9	26	1326			9.0	6.148			9									
Blank Titer:	0.0065		10	27	146			9.0	6.181			10									
THIO N:	0.245896		11	28	3108			9.0	6.192			11									
Sample Flask Water Seal?	☒ Yes		12									12									
Reagent Change?	MnCl ₂		13									13									
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH		14	18	19A	19B	20	21	22	23	24	25A	25B	26	27	28					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄		15	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy	Oxy					
	KIO ₃		16	Har059	Har059	Har059	Har059	Har059	Har059	Har059	Har059	Har059	Har059	Har059	Har059	Har059					
	THIO		17	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066					
Notes:			18	Bot-5 m	200 m	200 m	150 m	100 f	75 m	50 m	30 m	20 m	20 m	10 m	5 m	0 m					
			19	bot 5	bot 5	bot 2	bot 5	bot 1	bot 1	bot 6	bot 7	bot 8	bot 1	bot 9	bot 1	bot 11					
Mermaid.xlsx			20																		
			21																		
			22																		
			23																		
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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:	2023-066	1	✓	42	3127	7.9	2.73								1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													

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 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:	2023-066			1	✓	77A	456	8.4	2.848		1	77B	170	8.4	2.852	
Event:	12			2	✓	78	570	8.90	5.627		2					
Station:	P1			3	✓	79	1119	10.7	7.772		3					
Event Date (Local):	2023-05-02			4							4					
Analysis Date (Local):	3 May 2023			5							5					
Analyst:	MB			6							6					
Skidzation Date (Local):	2 May 2023			7							7					
KIO ₃ N:	0.0117933			8							8					
Standard Titer:	0.4797			9							9					
Blank Titer:	0.0005			10							10					
THIO N:	6.245896			11							11					
Sample Flask Water Seal?	Yes			12							12					
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization)	MnCl ₂			14							14					
NOTE NEW BATCH IN LOG BOOK	NaI/NaOH			15							15					
	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.

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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:	2023-066	1		93	21	8.3	2.628		1					
Event:	17	2		94	1126	8.5	3.339		2					
Station:	P2	3		95	1158	9.0	5.888		3					
Event Date (Local):	2023-05-02	4		96	712	9.0	5.721		4					
Analysis Date (Local):	3 May 2023	5		97	1123	9.1	5.945		5					
Analyst:	MS	6		98A	1141	9.1	6.237		6	98B	3194	9.1	6.237	
Standardization Date (Local):	2 May 2023	7		99	1054	10.2	7.145	FLASK 2085	7					
KIO ₃ N:	0.017933	8		100	3010	10.8	7.510	112085 flask	8					
Standard Titer:	0.4797	9							9					
Blank Titer:	0.005	10							10					
THIO N:	0.245896	11							11					
Sample Flask Water Seal?	Yes	12		93	94	95	96	97	98A	98B	99	100		
Reagent Change?	MnCl ₂	13		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY		
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14		P2	P2	P2	P2	P2	P2	P2	P2	P2		
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15		2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-0	2023-066	2023-066		
	KIO ₃	16		Bot-10	100 m	75 m	75 m	50 m	25 m	25 m	10 m	5 m		
	THIO	17		bot 1	bot 2	bot 3	bot 4	bot 5	bot 6	bot 7	bot 8			
Notes:		18												
		19												
		20												
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Bruce Lee.xlsx		22												
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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:	2023-066		1		130	1316	4.7	0.452			1						
Event:	23		2		131	974	5.1	0.371			2						
Station:	P4		3		132	2015	5.2	0.368			3						
Event Date (Local):	2023-05-02		4		133	3072	5.5	0.245			4						
Analysis Date (Local):	2023-05-02		5		134	994	5.2	0.264			5						
Analyst:	MB		6		135A	970	6.1	0.449			6	135B	140	6.2	0.449	PAPER BLOCKING PATH, O2	
Standardization Date (Local):	2023-05-02		7		136	131	6.7	1.059			7						
KIO ₃ N:	0.0117933		8		137	1330	7.2	1.579			8						
Standard Titer:	0.4797		9		138	908	7.5	1.761			9						
Blank Titer:	0.0005		10		139	105	7.8	1.053			10						
THIO N:	0.245896		11		140A	932	7.9	2.261			11	140B	173	8.0	2.200		
Sample Flask Water Seal?	Yes		12		141	1485	8.2	2.335			12						
Reagent Change?	MnCl ₂		13		142	1424	8.4	2.594			13						
(Please circle reagent that was changed prior to sampling and standardization)			14		143	174	8.7	2.980			14						
NOTE NEW BATCH IN LOG BOOK			15		144	148	8.8	4.03			15						
			16		145A	101	8.9	6.611			16	145B	964	9.0	6.615		
			17		146	458	9.2	7.015			17						
			18		147	3046	10.3	6.882			18						
			19								19						
			20		149	133	10.3	6.876			20						
			21								21						

Notes:

Moose.xlsx

130	131	132	133	134	135A	135B	136	137	138	139	140A	140B	141	142	143	144	145A	145B	146	147	149
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
P4	P4	P4	P4	P4	P4	P4	P4	P4	P4	P4	P4	P4	P4	P4	P4	P4	P4	P4	P4	P4	P4
2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06
Bot-10	1250 m	1250 m	100C	800 m	600 m	600 m	400 m	300 m	250 m	200 m	175 m	175 m	150 m	125 m	100 m	75 m	50 m	50 m	25 m	10 m	10 m
bot 1	bot 2	bot 3	bot 1	bot 5	bot 6	bot 6	bot 7	bot 8	bot 9	bot 11	bot 11	bot 11	bot 12	bot 13	bot 1	bot 15	bot 16	bot 16	bot 17	bot 11	bot 21

Dissolved Oxygen Analysis Log Sheet



183
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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)	10 m bot 22	15 m bot 21 184	20 m bot 20
Cruise Number:	2023-066			1		162	456	8.8	1.313		1							
Event:	30			2		163A	170	4.4	0.676		2	163B	570	4.8	0.664		OXY P8 2023-066	
Station:	P8			3		164	1119	4.8	0.364		3							
Event Date (Local):	2023-05-03			4		165	3111	5.4	0.239		4							
Analysis Date (Local):	04.05.23			5	X	166	21	5.8	0.213	leaste vent	5							
Analyst:	NK			6		167	1126	6.1	0.359		6							
Standardization Date (Local):	04.04.23			7		168	1158	6.9	1.167		7							
KIO ₃ N:	0.0117933			8		169	712	7.2	1.671		8							
Standard Titer:	6.4797853			9		170A	1123	7.2	2.059		9	170B	1141	7.2	2.055			
Blank Titer:	0.0605165			10		171	3194	7.6	2.674		10							
THIO N:	0.245999			11		172	2085	8.1	2.236		11							
Sample Flask Water Seal?	Yes			12		173A	3010	8.2	2.673		12	173B	1023	8.2	2.670			
Reagent Change?	MnCl ₂			13		174	1127	8.4	2.934		13							
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH			14		175	1136	8.5	3.938		14							
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄			15		176	2097	8.7	5.543		15							
	KIO ₃			16		177	3030	8.8	6.620		16							
	THIO			17		178	967	9.1	6.877		17							
				18		179A	2040	9.3	6.971		18	179B	2014	9.3	6.968			
Notes:				19		180	1464	9.4	6.990		19							
				20		181	339	9.3	7.067		20							
				21		182	2016	9.4	6.998		21							

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2023-066
5 m
bot 23

277
OXY
P8
2023-066
5 m
bot 23

278
OXY
P8
2023-066
5 m
bot 23

279
OXY
P8
2023-066
5 m
bot 23

280
OXY
P8
2023-066
5 m
bot 23

281
OXY
P8
2023-066
5 m
bot 23

282
OXY
P8
2023-066
5 m
bot 23

283
OXY
P8
2023-066
5 m
bot 23

284
OXY
P8
2023-066
5 m
bot 23

285
OXY
P8
2023-066
5 m
bot 23

286
OXY
P8
2023-066
5 m
bot 23

287
OXY
P8
2023-066
5 m
bot 23

288
OXY
P8
2023-066
5 m
bot 23

289
OXY
P8
2023-066
5 m
bot 23

290
OXY
P8
2023-066
5 m
bot 23

291
OXY
P8
2023-066
5 m
bot 23

292
OXY
P8
2023-066
5 m
bot 23

293
OXY
P8
2023-066
5 m
bot 23

294
OXY
P8
2023-066
5 m
bot 23

295
OXY
P8
2023-066
5 m
bot 23

296
OXY
P8
2023-066
5 m
bot 23

297
OXY
P8
2023-066
5 m
bot 23

298
OXY
P8
2023-066
5 m
bot 23

299
OXY
P8
2023-066
5 m
bot 23

300
OXY
P8
2023-066
5 m
bot 23

301
OXY
P8
2023-066
5 m
bot 23

302
OXY
P8
2023-066
5 m
bot 23

303
OXY
P8
2023-066
5 m
bot 23

304
OXY
P8
2023-066
5 m
bot 23

305
OXY
P8
2023-066
5 m
bot 23

306
OXY
P8
2023-066
5 m
bot 23

307
OXY
P8
2023-066
5 m
bot 23

308
OXY
P8
2023-066
5 m
bot 23

309
OXY
P8
2023-066
5 m
bot 23

310
OXY
P8
2023-066
5 m
bot 23

311
OXY
P8
2023-066
5 m
bot 23

312
OXY
P8
2023-066
5 m
bot 23

313
OXY
P8
2023-066
5 m
bot 23

314
OXY
P8
2023-066
5 m
bot 23

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[illegible]

Dissolved Oxygen Analysis Log Sheet



318
OXY
P16
2023-066
317B
OXY
P16
2023-066
10 m
bot 23

2023-066
5 m
317A
OXY
P16
2023-066
10 m
bot 23

bot 24

316
OXY
P16
2023-066
25 m
bot 22

315
OXY
P16
2023-066
50 m
bot 21

314
OXY
P16
2023-066
75 m
bot 20

313
OXY
P16
2023-066
100 m
bot 19

312B
OXY
P16
2023-066
125 m
bot 18

312A
OXY
P16
2023-066
125 m
bot 18

311
OXY
P16
2023-066
150 m
bot 17

310
OXY
P16
2023-066
175 m
bot 16

Nisk ID
Sample ID
Flask 2
Draw Temp 2 (°C)
OXY-2 (mL/L)

OXY-1 Comments

Nisk ID
Nisk Int V S
Sample ID
Flask 1
Draw Temp 1 (°C)
OXY-1 (mL/L)

Cruise and Analysis Information

Cruise Number:

2023-066

Event:

53

Station:

P16

Event Date (Local):

2023-05-05

Analysis Date (Local):

06.05.23

Analyst:

ME

Standardization Date (Local):

06.05.23

KIO₃ N:

0.0117933

Standard Titer:

0.480068

Blank Titer:

0.0005165

THIO N:

0.245813

Sample Flask Water Seal?

Yes

Reagent Change?

MnCl₂

(Please circle reagent that was changed prior to sampling and standardization)

NaI/NaOH

NOTE NEW BATCH IN LOG BOOK

H₂SO₄

THIO

P16 OXY 295

THIO

Bruce Lee.xlsx

P16 OXY 296

298A

298B

OXY

OXY

OXY

P16

299

301

302

303

304A

304B

OXY

306

307

308

309

OXY

OXY

OXY

P16

P16

bot 1

2023-066

P16

OXY

295

298A

298B

OXY

OXY

OXY

P16

299

301

302

303

304A

304B

OXY

306

307

308

309

OXY

OXY

OXY

P16

bot 2

2023-066

P16

OXY

296

298A

298B

OXY

OXY

OXY

P16

299

301

302

303

304A

304B

OXY

306

307

308

309

OXY

OXY

OXY

P16

bot 3

2023-066

P16

OXY

297

298A

298B

OXY

OXY

OXY

P16

299

301

302

303

304A

304B

OXY

306

307

308

309

OXY

OXY

OXY

P16

bot 4

2023-066

P16

OXY

297

298A

298B

OXY

OXY

OXY

P16

299

301

302

303

304A

304B

OXY

306

307

308

309

OXY

OXY

OXY

P16

bot 5

2023-066

P16

OXY

297

298A

298B

OXY

OXY

OXY

P16

299

301

302

303

304A

304B

OXY

306

307

308

309

OXY

OXY

OXY

P16

bot 6

2023-066

P16

OXY

297

298A

298B

OXY

OXY

OXY

P16

299

301

302

303

304A

304B

OXY

306

307

308

309

OXY

OXY

OXY

P16

bot 7

2023-066

P16

OXY

297

298A

298B

OXY

OXY

OXY

P16

299

301

302

303

304A

304B

OXY

306

307

308

309

OXY

OXY

OXY

P16

bot 8

2023-066

P16

OXY

297

298A

298B

OXY

OXY

OXY

P16

299

301

302

303

304A

304B

OXY

306

307

308

309

OXY

OXY

OXY

P16

bot 9

2023-066

P16

OXY

297

298A

298B

OXY

OXY

OXY

P16

299

301

302

303

304A

304B

OXY

306

307

308

309

OXY

OXY

OXY

P16

bot 10

2023-066

P16

OXY

297

298A

298B

OXY

OXY

OXY

P16

299

301

302

303

304A

304B

OXY

306

307

308

309

OXY

OXY

OXY

P16

bot 11

2023-

Dissolved Oxygen Analysis Log Sheet



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:	2023-066									1		404	1314	4.0	2.988		1					
Event:	60									2		405	3034	3.8	2.769		2					
Station:	P18									3		406	912	4.0	2.433		3					
Event Date (Local):	2023-05-06									4		407	3074	4.3	1.905		4					
Analysis Date (Local):	06.05.23									5		408	1429	4.4	1.280		5					
Analyst:	ME									6		409	1487	4.5	0.498		6					
Standardization Date (Local):	06.06.23									7		410	3133	4.8	0.354		7					
KIO ₃ N:	0.0117933									8		411	178	5.0	0.346		8					
Standard Titer:	0.480068									9		412A	981	5.4	0.373		9	412B	1491	5.6	0.377	
Blank Titer:	0.6005165									10		413	921	3.3	0.582		10					
THIO N:	0.245813									11		414	3116	5.8	1.118	OVER TITRATE END POINT @ 1.6?	11					
Sample Flask Water Seal?	Yes									12		415	3126	5.8	1.668		12				426 Oxy P18 2023-066 5 m bot 23	
Reagent Change?	No									13		416	185	6.0	2.132		13					
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	MnCl ₂									14		417	3148	6.2	2.993		14				425 Oxy P18 2023-066 10 m bot 22	
	NaI/NaOH									15		418	122	6.4	3.563		15					
	H ₂ SO ₄									16		419	915	6.9	4.384		16					
	KIO ₃									17		420	569	7.4	5.602		17				424 Oxy P18 2023-066 25 m bot 21	
	THIO									18		421	1425	7.8	6.797		18					
2023-066 Bot-10 m bot 1										19		422	557	7.7	6.876		19				423 Oxy P18 2023-066 50 m bot 20	
Humming Bird.xlsx										20		423	188	7.9	7.016		20					
										21		424	2043	8.1	7.043		21					
										22		425	142	8.3	7.014		22					
										23		426	1489	8.4	6.981		23					
2023-066 3000 m bot 3	2023-066 2500 m bot 4	2023-066 2000 m	2023-066 1500 m bot 6	2023-066 1250 m bot 7	2023-066 1000 m	2023-066 800 m	2023-066 800 m	2023-066 600 m	2023-066 300 m	2023-066 250 m bot 12	2023-066 200 m bot 14	2023-066 175 m	2023-066 150 m	2023-066 125 m bot 17	2023-066 100 m bot 18	2023-066 75 m bot 19						
Oxy P18	Oxy P18	Oxy P18	Oxy P18	Oxy P18	Oxy P18	Oxy P18	Oxy P18	Oxy P18	Oxy P18	Oxy P18	Oxy P18	Oxy P18	Oxy P18	Oxy P18	Oxy P18	Oxy P18						

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Cruise and Analysis Information									
435	OXY	P20	Cruise Number:	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066
436	OXY	P20	Event:	69	2023-066	2023-066	2023-066	2023-066	2023-066
437	OXY	P20	Station:	P20	2023-066	2023-066	2023-066	2023-066	2023-066
438	OXY	P20	Event Date (Local):	2023-05-07	2023-05-07	2023-05-07	2023-05-07	2023-05-07	2023-05-07
439	OXY	P20	Analysis Date (Local):	8 May 2023	8 May 2023	8 May 2023	8 May 2023	8 May 2023	8 May 2023
440	OXY	P20	Analyst:	MS	MS	MS	MS	MS	MS
441	OXY	P20	Scitization Date (Local):	6 May 2023	6 May 2023	6 May 2023	6 May 2023	6 May 2023	6 May 2023
442	OXY	P20	KIO ₃ N:	0.011793	0.011793	0.011793	0.011793	0.011793	0.011793
443	OXY	P20	Standard Titer:	0.4800	0.4800	0.4800	0.4800	0.4800	0.4800
444	OXY	P20	Blank Titer:	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
445	OXY	P20	THIO N:	0.245813	0.245813	0.245813	0.245813	0.245813	0.245813
446	OXY	P20	Sample Flask Water Seal?	Yes	Yes	Yes	Yes	Yes	Yes
447	OXY	P20	Reagent Change?	MnCl ₂	MnCl ₂	MnCl ₂	MnCl ₂	MnCl ₂	MnCl ₂
448	OXY	P20	(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	NaI/NaOH	NaI/NaOH	NaI/NaOH	NaI/NaOH	NaI/NaOH
449	OXY	P20	NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	H ₂ SO ₄	H ₂ SO ₄	H ₂ SO ₄	H ₂ SO ₄	H ₂ SO ₄
450	OXY	P20	LOG BOOK	KIO ₃	KIO ₃	KIO ₃	KIO ₃	KIO ₃	KIO ₃
451	OXY	P20	THIO	THIO	THIO	THIO	THIO	THIO	THIO
452	OXY	P20	Notes:						
453	OXY	P20	Vermaid.xlsx						
454	OXY	P20	439B	440	441	442	443	444	445
455	OXY	P20	446	447	448	449	450	451	452
456	OXY	P20	453	454	455	456	457	458	459
457	OXY	P20	460	461	462	463	464	465	466
458	OXY	P20	467	468	469	470	471	472	473
459	OXY	P20	474	475	476	477	478	479	480
460	OXY	P20	481	482	483	484	485	486	487
461	OXY	P20	488	489	490	491	492	493	494
462	OXY	P20	495	496	497	498	499	500	501
463	OXY	P20	502	503	504	505	506	507	508
464	OXY	P20	509	510	511	512	513	514	515
465	OXY	P20	516	517	518	519	520	521	522
466	OXY	P20	523	524	525	526	527	528	529
467	OXY	P20	530	531	532	533	534	535	536
468	OXY	P20	537	538	539	540	541	542	543
469	OXY	P20	544	545	546	547	548	549	550
470	OXY	P20	551	552	553	554	555	556	557
471	OXY	P20	558	559	560	561	562	563	564
472	OXY	P20	565	566	567	568	569	570	571
473	OXY	P20	572	573	574	575	576	577	578
474	OXY	P20	579	580	581	582	583	584	585
475	OXY	P20	586	587	588	589	590	591	592
476	OXY	P20	593	594	595	596	597	598	599
477	OXY	P20	600	601	602	603	604	605	606
478	OXY	P20	607	608	609	610	611	612	613
479	OXY	P20	614	615	616	617	618	619	620
480	OXY	P20	621	622	623	624	625	626	627
481	OXY	P20	628	629	630	631	632	633	634
482	OXY	P20	635	636	637	638	639	640	641
483	OXY	P20	642	643	644	645	646	647	648
484	OXY	P20	649	650	651	652	653	654	655
485	OXY	P20	656	657	658	659	660	661	662
486	OXY	P20	663	664	665	666	667	668	669
487	OXY	P20	670	671	672	673	674	675	676
488	OXY	P20	677	678	679	680	681	682	683
489	OXY	P20	684	685	686	687	688	689	690
490	OXY	P20	691	692	693	694	695	696	697
491	OXY	P20	698	699	700	701	702	703	704
492	OXY	P20	705	706	707	708	709	710	711
493	OXY	P20	712	713	714	715	716	717	718
494	OXY	P20	719	720	721	722	723	724	725
495	OXY	P20	726	727	728	729	730	731	732
496	OXY	P20	733	734	735	736	737	738	739
497	OXY	P20	740	741	742	743	744	745	746
498	OXY	P20	747	748	749	750	751	752	753
499	OXY	P20	754	755	756	757	758	759	760
500	OXY	P20	761	762	763	764	765	766	767
501	OXY	P20	768	769	770	771	772	773	774
502	OXY	P20	775	776	777	778	779	780	781
503	OXY	P20	782	783	784	785	786	787	788
504	OXY	P20	789	790	791	792	793	794	795
505	OXY	P20	796	797	798	799	800	801	802
506	OXY	P20	803	804	805	806	807	808	809
507	OXY	P20	810	811	812	813	814	815	816
508	OXY	P20	817	818	819	820	821	822	823
509	OXY	P20	824	825	826	827	828	829	830
510	OXY	P20	831	832	833	834	835	836	837
511	OXY	P20	838	839	840	841	842	843	844
512	OXY	P20	845	846	847	848	849	850	851
513	OXY	P20	852	853	854	855	856	857	858
514	OXY	P20	859	860	861	862	863	864	865
515	OXY	P20	866	867	868	869	870	871	872
516	OXY	P20	873	874	875	876	877	878	879
517	OXY	P20	880	881	882	883	884	885	886
518	OXY	P20	887	888	889	890	891	892	893
519	OXY	P20	894	895	896	897	898	899	900
520	OXY	P20	901	902	903	904	905	906	907
521	OXY	P20	908	909	910	911	912	913	914
522	OXY	P20	915	916	917	918	919	920	921
523	OXY	P20	922	923	924	925	926	927	928
524	OXY	P20	929	930	931	932	933	934	935
525	OXY	P20	936	937	938	939	940	941	942
526	OXY	P20	943	944	945	946	947	948	949
527	OXY	P20	950	951	952	953	954	955	956
528	OXY	P20	957	958	959	960	961	962	963
529	OXY	P20	964	965	966	967	968	969	970
530	OXY	P20	971	972	973	974	975	976	977
531	OXY	P20	978	979	980	981	982	983	984
532	OXY	P20	985	986	987	988	989	990	991
533	OXY	P20	992	993	994	995	996	997	998
534	OXY	P20	999	1000	1001	1002	1003	1004	1005
535	OXY	P20	1006	1007	1008	1009	1010	1011	1012
536	OXY	P20	1013	1014	1015	1016	1017	1018	1019
537	OXY	P20	1020	1021	1022	1023	1024	1025	1026
538	OXY	P20	1027	1028	1029	1030	1031	1032	1033
539	OXY	P20	1034	1035	1036	1037	1038	1039	1040
540	OXY	P20	1041	1042	1043	1044	1045	1046	1047
541	OXY	P20	1048	1049	1050	1051	1052	1053	1054
542	OXY	P20	1055	1056	1057	1058	1059	1060	1061
543	OXY	P20	1062	1063	1064	1065	1066	1067	1068
544	OXY	P20	1069	1070	1071	1072	1073	1074	1075
545	OXY	P20	1076	1077	1078	1079	1080	1081	1082
546	OXY	P20	1083	1084	1085	1086	1087	1088	1089
547	OXY	P20	1090	1091	1092	1093	1094	1095	1096
548	OXY	P20	1097	1098	1099	1100	1101	1102	1103
549	OXY	P20	1104	1105	1106	1107	1108	1109	1110
550	OXY	P20	1111	1112	1113	1114	1115	1116	1117
551	OXY	P20	1118	1119	1120	1121	1122	1123	1124
552	OXY	P20	1125	1126	1127	1128	1129	1130	1131
553	OXY	P20	1132	1133	1134	1135	1136	1137	1138
554	OXY	P20	1139	1140	1141	1142	1143	1144	1145
555	OXY	P20	1146	1147	1148	1149	1150	1151	1152
556	OXY	P20	1153	1154	1155	1156	1157	1158	1159
557	OXY	P20	1160	1161	1162	1163	1164	1165	1166
558	OXY	P20	1167	1168	1169	1170	1171	1172	1173
559	OXY	P20	1174	1175	1176	1177	1178	1179	1180
560	OXY	P20	1181	1182	1183	1184	1185	1186	1187
561	OXY	P20	1188	1189	1190	1191	1192	1193	1194
562	OXY	P20	1195	1196	1197	1198	1199	1200	1201
563	OXY	P20	1202	1203	1204	1205	1206	1207	1208
564	OXY	P20	1209	1210	1211	1212	1213	1214	1215
565	OXY	P20	1216	1217	1218	1219	1220	1221	1222
566	OXY	P20	1223	1224	1225	1226	1227	1228	1229
567	OXY	P20	1230	1231	1232	1233	1234	1235	1236
568	OXY	P20	1237	1238	1239	1240	1241	1242	1243
569	OXY	P20	1244	1245	1246	1247	1248	1249	1250
570	OXY	P20	1251	1252	1253	1254	1255	1256	1257
571	OXY	P20	1258	1259	1260	1261	1262	1263	1264
572	OXY	P20	1265	1266	1267	1268	1269	1270	1271
573	OXY	P20	1272	1273	1274	1275	1276	1277	1278
574	OXY	P20	1279	1280	1281	1282	1283	1284	1285
575	OXY	P20	1286	1287	1288	1289	1290	1291	1292
576	OXY	P20	1293	1294	1295	1296	1297	1298	1299
577	OXY	P20	1300	1301	1302	1303	1304	1305	1306
578	OXY	P20	1307	1308	1309	1310	1311	1312	1313
579	OXY	P20	1314	1315	1316				

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[illegible]

Dissolved Oxygen Analysis Log Sheet

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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:	2023-066		1		678	456	9.3	4.019		1					
Event:	117		2		679	170	9.2	4.026		2					
Station:	16		3		680	570	9.3	4.011		3					
Event Date (Local):	2023-05-13		4		681	1119	9.5	4.024		4					
Analysis Date (Local):	14 May 2023		5		682A	3111	9.9	4.614		5	682B	21	10.0	4.605	
Analyst:	WJ		6		683	1126	9.9	4.688		6					
Standardization Date (Local):	13 May 2023		7		684	1158	10.1	4.846		7					
KIO ₃ N:	0.0117973		8		685	712	10.1	4.961		8					
Standard Titer:	0.4799		9		686	1123	10.2	5.113		9					
Blank Titer:	0.0007		10		687A	1141	10.7	5.374		10	687B	3194	10.6	5.368	
THIO N:	0.245859		11		688	2085	11.5	6.075		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)			15							15					
NOTE NEW BATCH IN LOG BOOK			16							16					
KIO ₃			17							17					
THIO			18							18					
Notes:			19							19					
			20							20					
			21							21					

Bruce Lee.xlsx

678	679	680	681	682A	682B	683	684	685	686	687A	687B	688
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
2023-06-01	2023-06-01	2023-06-01	2023-06-01	2023-06-01	2023-06-01	2023-06-01	2023-06-01	2023-06-01	2023-06-01	2023-06-01	2023-06-01	2023-06-01
Bot-5	125 m	100 m	75 m	50 m	50 m	40 m	30 m	20 m	10 m	5 m	5 m	0 m
bot 1	bot 2	bot 3	bot 4	bot 5	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 10	bot 11

private column if either fails the integrity check and explain this in the comments column.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



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:	2023-066			1		689	164	9.2	3.877		1					
Event:	118			2		690A	435	9.9	3.886		2	690B	1338	9.3	3.886	
Station:	14			3		691	3117	9.2	4.054		3					
Event Date (Local):	2023-05-13			4		692	968	9.2	3.999		4					
Analysis Date (Local):	14 MAY 2023			5		693	157	9.2	4.072		5					
Analyst:	MB			6		694	963	9.1	3.983		6					
Stdization Date (Local):	13 MAY 2023			7		695	1465	9.5	3.805		7					
KIO ₃ N:	0.017933			8		696	905	9.3	3.662		8					
Standard Titer:	0.4799			9		697	3180	9.9	4.109		9					
Blank Titer:	0.0007			10		698	1326	9.8	4.436		10					
THIO N:	0.745855			11		699	146	10.1	4.612		11					
Sample Flask Water Seal?	Yes			12		700	3108	10.0	4.985		12					
Reagent Change?	MnCl ₂			13		701	942	10.3	5.811		13					
(Please circle reagent that was changed prior to sampling and standardization) NOTE: NEW BATCH IN LOG BOOK				14		702A	3127	11.6	7.857		14	702B	3095	11.7	7.250	
	NaI/NaOH			15		703	150	13.9	9.254		15					
	H ₂ SO ₄			16		704	1035	15.8	9.236		16					
	KIO ₃			17							17					
	THIO			18							18					
Notes:				19							19					
				20							20					
				21							21					

Mermaid.xlsx

comments column.

689 690A 690B 691 692 693 694 695 696 697 698 699 700 701 702A 702B 703 704

OXY OXY OXY OXY OXY OXY OXY OXY OXY OXY OXY OXY OXY OXY OXY OXY OXY

2023-066 2023-06 2023-06 2023-06 2023-06 2023-06 2023-06 2023-06 2023-06 2023-06 2023-06 2023-06 2023-06 2023-06 2023-06 2023-06 2023-066

300 m 300 m 300 m 250 m 200 m 175 m 150 m 125 m 100 m 75 m 50 m 40 m 30 m 20 m 10 m 10 m 5 m 0 m

bot 1 bot 2 bot 2 bot 3 bot 4 bot 5 bot 6 bot 7 bot 8 bot 9 bot 10 bot 11 bot 12 bot 13 bot 14 bot 14 bot 15 bot 16

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



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:	2023-066			1		706	926	9.15	3430					1								
Event:	120			2		707	138	9.2	3962					2								
Station:	12			3		708	920	9.1	4120					3								
Event Date (Local):	2023-05-13			4		709A	999	9.1	4308					4	709B	3067	9.1	NA		SOMEONE WENT DOWN AND GET AROUND 4300		
Analysis Date (Local):	14 MAY 2023			5		710A	143	9.1	4258					5	710B	125	9.2	4259				
Analyst:	MG			6		711	112	8.9	4632					6								
Stdization Date (Local):	13 MAY 2023			7		712	3056	9.1	4302					7								
KIO ₃ N:	0.017503			8		713	175	9.3	3897					8								
Standard Titer:	0.4778			9		714	1019	9.6	4257					9								
Blank Titer:	0.0007			10		715	134	9.7	4571					10								
THIO N:	0.24885			11		716	1316	9.9	4834	Start of Box Moose.xlsx						11						
Sample Flask Water Seal?	Yes No			12		717	974	9.7	4941					12								
Reagent Change?	MnCl ₂			13		718	2015	10.1	5095					13								
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK				14		719	3072	10.5	6211					14								
	NaI/NaOH			15		720	994	10.5	6069					15								
	H ₂ SO ₄			16		721	970	11.7	9568					16								
	KIO ₃			17										17								
	THIO			18										18								
Notes:				19										19								
				20										20								
				21										21								
Mermaid.xlsx																						
707	708	709A	709B	710A	710B	711	712	713	714	715	716	717	718	719	720	721						
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						

Mermaid.xlsx

706	707	708	709A	709B	710A	710B	711	712	713	714	715	716	717	718	719	720	721		
OXY	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	12		
2023-06	2023-06	2023-06	2023-06	2023-066	2023-06	2023-066	2023-066	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-066		
Bot-5 m	300 m	250 m	200 m	200 m	175 m	175 m	150 m	125 m	100 m	75 m	50 m	40 m	30 m	20 m	10 m	5 m	0 m		
bot 1	bot 2	bot 3	bot 4	bot 4	bot 5	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 11	bot 12	bot 13	bot 14	bot 15	bot 16		

omments column.

Dissolved Oxygen Analysis Log Sheet

Last Updated: December 2019

Institute of Ocean Sciences
Water Properties Group



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:	2023-066		1		723	140		3.29	Unknown.	1					
Event:	122		2		724	131	9.2	3.579		2					
Station:	9		3		725	1330	9.1	3.832		3					
Event Date (Local):	2023-05-13		4		726	908	9.0	4.001		4					
Analysis Date (Local):	14/MAY/2023		5		727	105	9.3	4.759	OT	5					
Analyst:	MB		6		728	932	9.4	4.908		6					
Stratization Date (Local):	13/MAY/2023		7		729	173	9.4	4.933		7					
KIO ₃ N:	0.0117933		8		730A	1485	9.3	4.975		8	730B	1424	9.3	4.977	
Standard Titer:	0.4799		9		731A	174	9.5	5.400		9	731B	148	9.5	5.403	
Blank Titer:	0.0007		10		732	101	10.3	5.996		10					
THIO N:	0.245859		11		733	964	12.4	8.175		11					
Sample Flask Water Seal?	Yes		12		734	458	14.8	11.32		12					
Reagent Change?	MnCl ₂		13							13					
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK			14							14					
	NaI/NaOH		15							15					
	H ₂ SO ₄		16							16					
	KIO ₃		17							17					
	THIO		18							18					
Notes:			19							19					
			20							20					
			21							21					

Moose.xlsx

723 724 725 726

OXY OXY OXY OXY

9 9 9 9

2023-066 2023-066 2023-066 2023-066

Bot-5 150 125 m 100 m

bot 1 bot 2 bot 3 bot 4

727 728

OXY OXY

9 9

2023-066 2023-066

75 m 50 m

bot 5 bot 6

729

OXY

9

2023-066

40 m

bot 7

730A

OXY

9

2023-066

30 m

bot 8

730B

OXY

9

2023-066

30 m

bot 8

731A

OXY

9

2023-066

20 m

bot 9

731B

OXY

9

2023-066

20 m

bot 9

732

OXY

9

2023-066

10 m

bot 10

733

OXY

9

2023-066

5 m

bot 11

734

OXY

9

2023-066

0 m

bot 12

integrity check and explain this in the comments column.

3046

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



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:	2023-066		1		735	3046	9.0	4.607			1					
Event:	123		2		736	133	8.9	4.632			2					
Station:	6		3		737A	914	8.9	4.782			3	737B	3134	9.0	4.756	
Event Date (Local):	2023-05-13		4		738	1300	8.9	4.724			4					
Analysis Date (Local):	11/11/2023		5		739	927	8.9	4.548			5					
Analyst:	ML		6		740	107	9.1	4.329			6					
Standardization Date (Local):	13/11/2023		7		741	931	9.2	5.075			7					
KIO ₃ N:	0.017833		8		742	1358	9.1	5.265			8					
Standard Titer:	0.4799		9		743	1351	9.1	5.499			9					
Blank Titer:	0.0007		10	X	744A	1314	9.3	5.637	Start of Box Humming Bird.xlsx		10	744B	3034		5.637	Concentrated T = 9.3 But Not Reproducible
THIO N:	0.245859		11		745	912	9.5	6.171			11					
Sample Flask Water Seal?	Yes		12		746	3074	11.4	7.951			12					
	No		13		747	1429	17.1	8.712			13					
Reagent Change?	MnCl ₂		14								14					
(Please circle reagent that was changed prior to sampling and standardization)			15								15					
NOTE NEW BATCH IN LOG BOOK			16								16					
H ₂ SO ₄			17								17					
KIO ₃			18								18					
THIO			19								19					
Notes:			20								20					
			21								21					

Moose.xlsx	735	736	737A	737B	738	739	740	741	74	743	744A	744B	745	746		
Humming Bird.xlsx	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		
2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066		
Bottle Integrity: Full	Bot-5 m	175 m	150 m	150 m	125 m	100 m	75 m	50 m	40 m	30 m	20 m	20 m	10 m	5 m		
	bot 1	bot 2	bot 3	bot 3	bot 4	bot 5	bot 6	bot 6	bot 7	bot 9	bot 10	bot 10	bot 11	bot 12		

explain this in the comments column.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



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:	2023-066		1	✓	748	3133	9.4	3.160				1		1491			
Event:	126		2	✓	749A	178	9.3	3.252				2	749B	201	9.5	3.249	
Station:	3		3	✓	750	1591	9.1	3.643				3					
Event Date (Local):	2023-05-13		4	✓	751	921	8.9	4.254				4					
Analysis Date (Local):	14-MAY-2023		5	✓	752	3116	8.8	4.638				5					
Analyst:	MB		6	✓	753	3126	8.7	4.768				6					
Stdization Date (Local):	13-MAY-2023		7	✓	754	185	8.9	4.346				7					
KIO ₃ N:	0.0117933		8	✓	755	3148	8.9	4.252				8					
Standard Titer:	0.4799		9	✓	756	122	8.9	4.389				9					
Blank Titer:	0.0067		10	✓	757	915	9.1	5.107				10					
THIO N:	0.24589		11	✓	758	569	9.1	5.403				11					
Sample Flask Water Seal?	Yes		12	✓	759	1425	9.3	5.636				12					
	No		13	✓	760	557	9.9	6.194				13					
Reagent Change?	MnCl ₂		14	✓	761	188	11.2	7.085				14					
(Please circle reagent that was changed prior to sampling and standardization)			15	✓	762A	2043	12.6	8.032				15	762B	142	12.7	8.033	
NOTE NEW BATCH IN LOG BOOK			16	✓	763	1489	15.8	8.847				16					
	KIO ₃		17									17					
	THIO		18									18					
Notes:			19									19					
			20									20					
Humming Bird.xlsx			21									21					

2023-06	2023-06	2023-01	2023-01	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	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Dissolved Oxygen Analysis Log Sheet

Last Updated: December 2019

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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:	2023-066		1	✓	764	2098	9.3	3.318				1					
Event:	127		2	✓	765	3114	9.3	3.338				2					
Station:	2		3	✓	766	904	8.9	4.188				3					
Event Date (Local):	2023-05-14		4	✓	767	973	8.7	4.712				4					
Analysis Date (Local):	14 MAY 2023		5	✓	768	196	8.7	4.845				5					
Analyst:	MS		6	✓	769	1346	8.7	4.724				6					
Stratization Date (Local):	13 MAY 2023		7	✓	770	3005	8.8	4.635				7					
KIO ₃ N:	0.017933		8	✓	771	118	8.9	4.327				8					
Standard Titer:	0.4799		9	✓	772	169	8.9	4.961				9					
Blank Titer:	0.0007		10	✓	773	3050	9.0	5.257				10					
THIO N:	0.245853		11	✓	774	3044	9.2	5.469				11					
Sample Flask Water Seal?	Yes		12	✓	775	941	9.5	5.824				12					
	No		13	✓	776A	111	10.0	6.002				13	776B	953	10.0	6.001	
Reagent Change?	MnCl ₂		14	✓	777	976	11.1	6.653				14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH		15	✓	778A	547	13.5	8.186				15	778B	3040	13.5	8.204	
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					

Chicken & Egg.xlsx

764	765	766	767	768	769	770	771	772	773	774	775	776	776B	777	778A	778B
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
2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066
250 m	250 m	200 m	175 m	150 m	125 m	100 m	75 m	50 m	40 m	30 m	20 m	10 m	10 m	5 m	0 m	0 m
bot 1	bot 2	bot 1	bot 1	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 11	bot 12	bot 13	bot 14	bot 14	bot 15	bot 15

explain this in the comments column.

Dissolved Oxygen Analysis Log Sheet

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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:	2023-066		1		785	164	9.1	3.604				1					
Event:	137		2		786	435	9.2	3.422				2					
Station:	27		3		787A	1338	9.0	3.850				3	787B	3117	9.0	3.846	
Event Date (Local):	2023-05-14		4		788	968	9.5	4.184				4					
Analysis Date (Local):	14.05.23		5		789	157	8.8	4.641				5					
Analyst:	MC		6		790A	963	8.7	4.670				6	790B	1465	8.7	4.671	
Stdization Date (Local):	13.05.23		7		791	905	8.7	4.267				7					
KIO ₃ N:	0.0117933		8		792	3180	8.8	4.300				8					
Standard Titer:	0.479268		9		793	1326	8.9	4.498				9					
Blank Titer:	0.0006935		10		794	146	9.0	5.246				10					
THIO N:	0.245859		11		795	3108	9.0	5.570				11					
Sample Flask Water Seal?	Yes		12		796	942	9.1	5.675				12					
	No		13		797	3127	9.3	5.982				13					
Reagent Change?	MnCl ₂		14		798	3095	9.8	6.293				14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH		15		799	150	10.3	6.605				15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄		16		800	1035	13.2	7.526				16					
	KIO ₃		17									17					
	THIO		18									18					
785 OXY	27		19									19					
786 OXY	27		20									20					
786 klsx	27		21									21					
788 OXY	27		788		789	790A	791	792	793	794	795	796	797	798	799	800	
787A OXY	27		27		27	27	27	27	27	27	27	27	27	27	27	27	
787B OXY	27		200 m		175 m	150 m	150 m	125 m	100 m	75 m	50 m	40 m	30 m	20 m	10 m	5 m	0 m
2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066
bot 3	250 m	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066
bot 2	300 m	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066
bot 1	300 m	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066

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Dissolved Oxygen Analysis Log Sheet

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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:	2023-066			1		810A	456	9.2	3.855					1	810B	170	9.4	3.854	
Event:	142			2		811	570	9.2	3.907					2					
Station:	39			3		812	1119	9.1	4.053					3					
Event Date (Local):	2023-05-14			4		813	3111	9.1	4.294					4					
Analysis Date (Local):	15 May 23			5		814	21	9.0	4.568					5					
Analyst:	MS			6		815	1126	8.9	4.750					6					
Stdization Date (Local):	14 May 23			7		816	1158	8.9	5.144					7					
KIO ₃ N:	0.0177933			8		817	712	8.9	5.228					8					
Standard Titer:	0.4799			9		818	1123	8.9	4.889					9					
Blank Titer:	0.0007			10		819A	1141	8.9	4.714					10	819B	3194	9.0	4.714	
THIO N:	0.245859			11		820	2085	9.0	5.018					11					
Sample Flask Water Seal?	Yes			12		821	3010	9.0	5.086					12					
Reagent Change?	MnCl ₂			13		822	1023	9.1	5.329					13					
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK				14		823	1127	9.2	5.605					14					
	NaI/NaOH			15		824	1136	16.0	6.366					15					
	H ₂ SO ₄			16		825	2097	18.5	7.530					16					
	KIO ₃			17		826	3030	17.7	NA					17					
	THIO			18										18					
Notes:				19										19					
				20										20					
Bruce Lee.xlsx				21										21					

810A	810B	811	812	813	814	815	816	817	818	819A	819B	820	821	822	823	824	825	826	
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	
39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	
2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	2023-066	
Bot-5 m	Bot-5 m	350 m	300 m	250 m	200 m	175 m	150 m	125 m	100 m	75 m	75 m	50 m	40 m	30 m	20 m	10 m	5 m	0 m	
bot 1	bot 1	bot 2	bot 3	bot	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 17	

Comments column.

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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:	2023-066			1		827	967	8.9	4.126		1					
Event:	145			2		828	2040	8.9	4.138		2					
Station:	42			3		829	2014	8.9	4.326		3					
Event Date (local):	2023-05-14			4		830	1464	8.7	4.577		4					
Analysis Date (local):	15 May 2023			5		831	339	8.8	4.631		5					
Analyst:	M/S			6		832A	2016	8.8	5.241		6	832B	1397	8.8	5.240	
Stdization Date (local):	13 May 2023			7		833	3019	8.9	5.173		7					
KIO ₃ N:	0.0117933			8		834A	3158	8.9	5.170		8	834B	965	8.9	5.169	
Standard Titer:	0.4799			9		835	1114	8.9	4.801		9					
Blank Titer:	0.0007			10		836	1316	9.0	4.721	Start of Box Moose.xlsx	10					
THIO N:	0.0117933			11		837	974	9.1	4.998		11					
Sample Flask Water Seal?	Yes			12		838	2015	9.2	5.153		12					
	No			13		839	3072	9.5	5.605		13					
Reagent Change?	MnCl ₂			14		840	994	16.0	5.979		14					
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	NaI/NaOH H ₂ SO ₄ KIO ₃ THIO			15		841	970	15.7	10.722	V. Low CR bucket 420? Small amount	15					
				16		842	140	16.2	11.293	Same as above	16					
				17							17					
				18							18					
Notes:				19						WATER V. BROWN	19					
				20						SURFACE	20					
				21							21					

Bruce Lee.xlsx

827	828	829	830	831	832A	832B	833	834A	834B	835	836	837	838	839	840	841	842
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42
2023-01	2023-01	2023-06	2023-06	2023-0	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-0	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06
Bot-5	300 m	250 m	200 m	175 m	150 m	150 m	125 m	100 m	100 m	75 m	50 m	40 m	30 m	20 m	10 m	5 m	0 m
bot 1	bot 2	bot 3	bot 4	bot 5	bot 6	bot 6	bot 7	bot 8	bot 8	bot 9	bot 1	bot 11	bot 12	bot 13	bot 14	bot 15	bot 16

his in the comments column.

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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:	2023-066		1		844	131	9.3	5.052			1					
Event:	147		2		845	1330	9.3	5.212			2					
Station:	46		3		846	908	9.3	5.271			3					
Event Date (Local):	2023-05-14		4		847	105	9.3	5.324			4					
Analysis Date (Local):	15 May 2023		5		848	932	9.3	5.353			5					
Analyst:	MA		6		849	173	9.5	5.522			6					
Standardization Date (Local):	8.3 May 2023		7		850A	1485	9.3	5.432			7	850B	1424	9.3	5.432	
KIO ₃ N:	0.0117933		8		851	174	9.1	5.340			8					
Standard Titer:	0.4799		9		852	148	9.2	5.313			9					
Blank Titer:	0.0007		10		853A	101	9.9	6.069			10	853B	964	9.9	6.070	
THIO N:	0.245859		11		854	458	11.9	7.168	LOW O ₂ SUSPECT WATER		11					
Sample Flask Water Seal?	Yes		12		855	3046	16.7	NA	DID NOT GET ABOVE 1.580 V		12					
Reagent Change?	No		13						100 MURKLY		13					
(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 ₂ SO ₄		16								16					
	KIO ₃		17								17					
	THIO		18								18					
Notes:			19								19					
			20								20					
			21								21					
Moose.xlsx			21								21					

appropriate column if either fails the integrity check and explain this in the comments column.

22											22					
23											23					
24											24					

844	845	846	847	848	849	850A	850B	851	852	853A	853B	854
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
46	46	46	46	46	46	46	46	46	46	46	46	46

2023-01	2023-01	2023-01	2023-01	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06	2023-06
Bot-5	150 m	125	100 m	75 m	50 m	40 m	40 m	30 m	20 m	10 m	10 m	5 m
bot 1	bot 2	bot	bot 4	bot 5	bot 6	bot 7	bot 7	bot 8	bot 9	bot 10	bot 10	bot 11

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Cruise and Analysis Information				OXY-1 Comments			
Cruise Number:	2023-066	Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)
Event:	149	1	✓	856	133	9.3	4.943
Station:	56	2	✓	857	914	9.3	4.941
Event Date (Local):	2023-05-14	3	✓	858	3134	9.3	4.965
Analysis Date (Local):	15 May 2023	4	✓	859	1300	9.3	4.966
Analyst:	MS	5	✓	860	927	9.1	5.062
Standardization Date (Local):	13 May 2013	6	✓	861	107	9.4	5.240
KIO ₃ N:	0.0117933	7	✓	862A	931	9.5	5.277
Standard Titer:	0.4799	8	✓	863	1351	9.5	5.396
Blank Titer:	0.0007	9	✓	864	1314	9.5	5.417
THIO N:	0.245859	10	✓	865	3034	9.5	5.431
Sample Flask Water Seal?	Yes	11	✓	866	912	9.6	5.442
Reagent Change?	No	12	✓	867A	3074	9.9	5.739
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	MnCl ₂	13	✓	868	1487	10.0	5.837
	NaI/NaOH	14	✓	869	3133	10.5	
	H ₂ SO ₄	15					
	KIO ₃	16					
	THIO	17					
Notes:		18					
		19					
		20					
		21					
Moose.xlsx		22					

OXY-2 Comments			
Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)
1			
2			
3			
4			
5			
6			
7	862B	1358	9.5
8			
9			
10			
11			
12	867B	1429	9.9
13			
14			
15			
16			
17			
18			
19			
20			
21			

and explain this in the comments column.

855	857	858	859	860	861	862A	862E	863	864	865	866	867A	867B	868	869
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
2023-06	2023-06	2023-0	2023-0	2023-06	2023-0	2023-06	2023-06	2023-0	2023-0	2023-0	2023-06	2023-06	2023-0	2023-066	2023-066
0 m	200 m	175 f	150 m	125 m	100 f	75 m	75 m	50 m	40 m	30 m	20 m	10 m	10 m	5 m	0 m
bot 12	bot 2	bot	bot 4	bot 5	bot	bot 7	bot 7	bot 8	bot 9	bot 10	bot 11	bot 12	bot 12	bot 13	bot 14