Water Properties Group



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Cruise and Analys	is Information	Nis k ID	Nis Int V	t	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nis k ID Sampl	e Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 20	22-067	1	V		6	1409	7.5	3.104		1				
Event: 7		2								2				
Station: つかい	-45	3								3				201
Event Date (Local):	18 July 2022	4								4				The state of the s
Analysis Date (Local)	: 05 Aug 2022	5								5				
	45	6			201				6	6				
Stdization Date (Loca	al): 05 Aug 2022	7							OXY	7				are n
	OPP8110.	8							DOUG-45	8				
Standard Titer:	0.49766	9							2022-067	9				
Blank Titer:	0.00050	10							400 m	10				8
THIO N:	0.23940	11							bot 2	11				= id.
Sample Flask Water Seal?	Yes No	12 13								12				
Reagent Change?	MnCl ₂ 2202	14							· ·	14				
(Please circle reagent that was changed prior to sampling and	NaI/NaOH) 2201	15						-		15				2.00
tandardization)	<u></u> H₂S04	16		-						16				
LOG BOOK	₹10 3	17	\vdash	4						17				
	T NIO	18		-						18				
Notes: Stand	740 150 VIOLI	19	\vdash							19				
applies to	events	20	\vdash	-						20				
7 NH	0 118	21 22	\dashv							21				
		23							£	23				
		24								24				4:

Water Properties Group



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Cruise and Analysis	s Information	Nis k ID	Ni: In V	nt	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nis Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 20	22-067	1								1				
Event: 20		2			В	3057	7.5	3.468		2				
Station: DouG	26	3				71.				3				
Event Date (Local):	19 July 2022	4								4				
Analysis Date (Local):		5							8	5				
Analyst:		6							OXY	6				
Stdization Date (Loca):	7							DOUG-26	7				
KIO ₃ N:		8							2022-067	8				E
Standard Titer:		9							340 m	9				
Blank Titer:		10							bot 2	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	NaI/NaOH	15								15				
to sampling and standardization)	H₂SO₄	16							al a	16				
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17								17				
	THIO	18								18				
Notes:		19								19				
		20								20				
		21								21				
		22								22				
		23	i I							23				
		24								24				

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Cruise and Analysi	s Information	Nis k ID	Nis In V	t	Sample ID	Flask 1	Drav Temp (°C	p 1 ,	OXY-1 (mL/L)	OXY-1 Comments	Nis k ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	1022-067	1									1					
Event:	26	2			10	639	77	1 3	3.658		2					
Station: DO	0606	3									3					
Event Date (Local):	July 19, 2022	4									4		40			
Analysis Date (Local)	t de	5									5		10 XY	-		
Analyst:		6									6		UG-06			
Stdization Date (Loca	I):	7									7		22-067			
KIO ₃ N:		8									8		40 m			
Standard Titer:		9									9		ot 2			
Blank Titer:		10									10	ì				
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	NaI/NaOH	15			н						15					
to sampling and standardization)	H ₂ SO ₄	16									16					
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17									17					
	THIO	18									18					
Notes:		19									19					
		20									20					
		21									21					r
		22									22					
		23									23					
		24									24					

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Water Properties	Group	ll.							105	Name of the last o		1 =		
Cruise and Analysis	Information	Nis k ID	Int	Samp	ole Fla	ask T	Draw emp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nis k Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 2	922067	1					1.6			i	8			
Event: 32		2		12	30	37	7.6	3.590		2				
Station: Deb	- 19	3								3				
Event Date (Local):	501 20 2022	4								4				
Analysis Date (Local):		5			1					5				
Analyst:		6		1						6				
Stdization Date (Loca):	7		0)						7				
KIO ₃ N;		8		449 2022						8				
Standard Titer:		9		2022						9				
Blank Titer:		10		bo						10			=	
THIO N:		11		100						11				
Sample Flask	Yes	12	2							12				
Water Seal?	No	13	3							13				
Reagent Change?	MnCl ₂	14	3							14				
(Please circle reagent that was changed prior	NaI/NaOH	15	5							15				
to sampling and standardization)	H₂SO₄	16	5							16				
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17	7							17				
	THIO	18	3							18				
Notes:		19	9							19				
		20	0							20				
		21	1							21				
32		22	2							22				
		23	3							23				
		24	4							24				

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Cruise and Analysis	s Information	Nis k ID	Nisk Int V S	Sample	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nis k ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 2	022-067	1							1				
Event: 36		2		14	969	7.8	3.746		2				
Station: 6C31		3							3	14			
	July 20 2022	4							4	ОХ			
Analysis Date (Local)	1	5							5	GC			
Analyst:		6							6	2022			
Stdization Date (Loca	I):	7							7		0 m		
KIO ₃ N:		8							8	be	ot 2		
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	NaI/NaOH	15							15				
to sampling and standardization)	H₂SO₄	16							16				
NOTE NEW BATCH IN LOG BOOK	KIO₃	17							17				
	THIO	18							18				
Notes:		19							19				
		20							20				
		21							21				
		-22							22				
		23							23				
		24							24				

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Water Properties	Group					, ,		105					
Cruise and Analysis	Information	Nis k ID	Int	Sample	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nis k ID Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 20	122-069	1							1				
	39	2		16	Slo	8.0	3.047		2				
Station: GC		3							3				
	Tul 20 2022	4							4				
Analysis Date (Local):		5						<u>/</u>	5				
Analyst:		6		16				<i>y</i> .	6				
Stdization Date (Local):	7		OXY					7				
KIO ₃ N:		8		GC5	1				8				
Standard Titer:		9		2022-0	67				9				
Blank Titer:		10		450 r	n				10				
THIO N:		11		bot 2	2				11				
Sample Flask	Yes	12							12				
Water Seal?	No	13							13				
Reagent Change?	MnCl ₂	14	¥						14				
(Please circle reagent that was changed prior	NaI/NaOH	15	5						15				
to sampling and standardization)	H₂SO₄	16	5						16				
NOTE NEW BATCH IN LOG BOOK	KIO₃	17	7						17				
	THIO	18	3						18				
Notes:		19	9						19				
		20	Ó						20				
		21	E						21				
		22	2						22				
		23							23				
		22	1						24				plain this in the comments column

Dissolved Oxygen	Analysis	Log Sheet
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Cruise and Analysis	Information	Nis k ID	Int	: Sa	ample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nis k ID Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 20	730-67	1								1				18
Event: 42		2	V	11	18	1461	8.2	3.477		2				OXY
Station: LC6	8	3								3				GC68
Event Date (Local):	July 20 2022	4								4				2022-067
Analysis Date (Local):		5								5				200 m
Analyst:		6								6				bot 2
Stdization Date (Loca):	7								7				
KIO ₃ N:		8								8				
Standard Titer:		9								9				
Blank Titer:		10	8							10				
THIO N;		11								11				
Sample Flask	Yes	12								12				
Water Seal?	No	13	8							13				
Reagent Change?	MnCl ₂	14								14				
(Please circle reagent that was changed prior	NaI/NaOH	15	1							15				
to sampling and standardization)	H₂SO₄	16								16				
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17								17				
	THIO	18								18				
Notes:		19								19				
		20								20				
		21								21				
		22	-{							22				
		23								23				
		-24		1						24				

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Water Properties Cruise and Analysis		Nis k ID	Nis Int V	t [Sample ID	Flasi 1	K Te	raw mp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nis k ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 20	22-067	1									1					
1.1	6	2			30	300	27	1.9	3.627		2					
	16 D	3									3					
Event Date (Local):	July 21 2022	4									4					
Analysis Date (Local):		5								20	5					
Analyst:		6								OXY	6					
Stdization Date (Local):	7								VP46D	7					
KIO ₃ N:		8								022-067	8					
Standard Titer:		9								200 m	9					
Blank Titer:		10								bot 2	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	NaI/NaOH	15									15					
to sampling and standardization)	H₂SO₄	16									16					
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17									17					
	THIO	18									18					
Notes:		19									19					
		20									20					
		21									21					
		22	3								22					
		23									23					
		24									24					

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Cruise and Analysis	s Information	Nis k ID	Nis In	t	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nis k ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	22-667	1								10					
Event:	***************************************	2			22A	3137	7.6	3.105		2	22B	951	7.8	3.105	
Station: UC	15	3								3					
Event Date (Local):	July 21 2022	4								4					
Analysis Date (Local)		5								5					
Analyst:		6								6					
Stdization Date (Loca	I):	7								7					
KIO ₃ N:		8								8					
Standard Titer:		9								9					
Blank Titer:		10								10					
THIO N:		11								11					
Sample Flask	Yes	12							H	12					
Water Seal?	No	13								13					
Reagent Change?	MnCl ₂	14							22A 22B	14					
(Please circle reagent that was changed prior	NaI/NaOH	15							ΟΧΥ ΟΧΥ	15					
to sampling and standardization)	H ₂ SO ₄	16							UC45 UC45	16					
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17							2022-067 2022-06						
	THIO	18							350 m 350 m	18					
Notes:		19							bot 2 bot 2	19					
		20								20					
		21								21					
		22	2							22					
		23								23					
		24							igot by opening the vent. Mark 'x' in the appropriate	24					

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Water Properties		Nis k ID	Int	Sample	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nis k ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 20	22-067	1							1					
Event: 59		2		24A	3081	7,6	3.051		2	24B	020	7,5	3.050	
Station: MKV		3							3					
Event Date (Local):		4		24A		24B			4					
Analysis Date (Local):		5		OXY		OXY			5					
Analyst:		6		MKY.		MKY1			6					
Stdization Date (Local):	7		2022-0	67		37		7					
KIO ₃ N:		8		450 m		450 m			8					
Standard Titer:		9		bot 2		bot 2			9					
Blank Titer:		10							10					
THIO N:		11							11					y:
Sample Flask	Yes	12							12					
Water Seal?	No	13	5						13					
Reagent Change?	MnCl ₂	14) <u> </u>						14					
(Please circle reagent that was changed prior	NaI/NaOH	15	5						15					
to sampling and standardization)	H ₂ SO ₄	16	5						16					
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17	7						17					
	THIO	18	3						18					
Notes:		19	9						19					
		20							20					
		21							21					
		22	2,						22					
		23	3						23					
		24						ignt by enening the yent. Mark 'V' in the appropriate column	24					

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Water Properties	Group	laste.		1	+			105	- 1		Draw		
Cruise and Analysis	Information	Nis k ID	Int	Sample	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments Nis k ID	nple ID	Flask 2	Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 207	22-067	1						1.					
Event:	1	2		26A	569	7.6	3.027	2 2	6 B	673	7.4	3.034	
Station: 5 QL	1	3						3					
	11,222022	4					26 <i>A</i>	— 26B — 4					
nalysis Date (Local):		5					OX						
ınalyst:		6					sql						
Stdization Date (Local):	7					2022-						
KIO ₃ N:		8					450	_ 450 111					
Standard Titer:		9					bo	5012					
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 hat was changed prior	NaI/NaOH	15						15					
o sampling and tandardization)	H₂SO₄	16	1					16					
OG BOOK	KIO ₃	17						17					
	THIO	18						18	_		-		
Notes:		19						19					
		20			-			20					
		21						21.					
		22						22					
		23						23					
		22	1					24					

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Water Properties	Group							103					
Cruise and Analysis	s Information	Nis k ID	Int	Sample	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nis k ID ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 2	022-067	1							1.				
Event: 67		2		28	3120	7.6	3.026		2				
Station: SC6	Y	3							3				
	50/ 22, 2022	4							4				
Analysis Date (Local):		5							5				
Analyst:		6		28	1				6				
Stdization Date (Loca	l):	7		OXY	·				7				
KIO ₃ N:		8		SC64					8				
Standard Titer:		9		2022-06	57 <u> </u>				9				
Blank Titer:		10		450 m					10				
THIO N:		11		bot 2					11				
Sample Flask	Yes	12							12				
Water Seal?	No	13							13				
Reagent Change?	MnCl ₂	14							14				
(Please circle reagent that was changed prior	NaI/NaOH	15							15				
to sampling and standardization)	H₂SO₄	16							16				
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17							17				
	THIO	18	3						18				
Notes:		19							19				
		20							20				
		2,1							21				
		22	2"						22				
		23	3						23				
		24							24				
	the thirt					103 11		igot by opening the yent. Mark 'V' in the appropriate colum	was if although the	- the ista	anib Labo	ماد مرم ما مام	alain this in the comments column

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Water Properties					1			103					
Cruise and Analysis	Information I	lis k D	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nis k ID Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 20	22-067	1						30	1				
Event: 75		2		30	3134	7.5	3.083	OXY —	2				
Station: SC	58	3						SC58	3				
Event Date (Local):	27 323033	4						2022-067	4				
Analysis Date (Local):		5						450 m	5				
Analyst:		6						bot 2	6				
Stdization Date (Local	1):	7							7				
KIO ₃ N:		8							8				
Standard Titer:		9							9				
Blank Titer:	1	10							10				
THIO N:	1	11							11				
Sample Flask	Yes	12							12				
Water Seal?	No 1	13							13				
Reagent Change?	MnCl ₂	14							14				
(Please circle reagent that was changed prior	NaI/NaOH	15							15				
to sampling and standardization)	H₂SO₄ 1	16							16				
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17							17				
	THIO	18							18				
Notes:	i	19							19				
	2	20							20				
	2	21							21				
	2	22	8						22				
		23							23				
	.5	24							24				

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Cruise and Analysi	s Information	Nis k ID	Int	Sample	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nis k ID Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 2	022-067	1		32					1				
Event: 7	6	2		32	3104	7.5	3.188		2				
Station: F	R63	3			1				3				
Event Date (Local):	23 July 2022	4							4				32
Analysis Date (Local)	:	5							5				OXY
Analyst:		6							6				FR63
Stdization Date (Loca	l):	7							7				22-067
KIO ₃ N:		8							8				450 m
Standard Titer:		9							9				bot 2
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	NaI/NaOH	15							15				
to sampling and standardization)	H₂SO₄	16							16				
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17							17				
	THIO	18							18				
Notes:		19							19				
		20							20				
		21							21				
		22							22				
		23							23				
		724							24				

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Cruise and Analysis	: Information Ni	E	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)		OXY-1 Comments	Nis k ID ID	le Fl	ask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 20	22-067									1.					
Event: 80	2	2		34A	575	7.8	3,464			2 341	33	96	7.9	3.465	
Station: (3/31	3	3						34A -	34B	3					
Event Date (Local):	51/ 23 2032 4	•						OXY -	OXY	4					
Analysis Date (Local):	5	;							GR1	5					
Analyst:	6	5						2022-067	_	6					
Stdization Date (Loca);;	,							350 m	7					
KIO ₃ N:		3						bot 2	bot 2	8					
Standard Titer:	.9	9								9					N
Blank Titer:	1	0								10					
THIO N:	1	1								11					
Sample Flask Water Seal?		3								12					
Reagent Change?	MnCl ₂ 1	4								14					
(Please circle reagent that was changed prior	NaI/NaOH 1	5								15					
to sampling and standardization)	H₂SO₄ 1	6								16					
NOTE NEW BATCH IN LOG BOOK	KIO ₃	7								17					
	THIO 1	8								18					
Notes:	1	9								19					
	2	20								20					
	2	21					24			21					
	2	22								22					
	2	23								23					
	2	24								24					

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Cruise and Analysis	Information	Nis k ID	Int	: Sa	mple ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nis k ID Sample	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 20	22-067	1								1				
Event: 85		2	1	3	6	1402	7.3	1.878		2				
Station: FCO		3							36	3				
Event Date (Local):		4							OXY	4				
Analysis Date (Local):		5							FC01	5				
Analyst:		6							2022-067	6				
Stdization Date (Loca):	7							500 m	7				
KIO ₃ N:		8							bot 2	8				
Standard Titer:		9								9			37	A.
Blank Titer:		10								10		142		
THIO N:		11								11				
Sample Flask	Yes	12								12				
Water Seal?	No	13								13				I
Reagent Change?	MnCl ₂	14								14				
(Please circle reagent that was changed prior	NaI/NaOH	15								15				
o sampling and standardization)	H₂SO₄	16								16				
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17								17				16
	THIO	18								18				
Notes:		19								19				
		20	5							20				
		21								21		7		
		22								22				
		23								23				
		24								24	7			

Water Properties Group



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Water Properties Cruise and Analysis		Nis k	In	t S	Sample ID	Flask 1	Draw Temp 1	OXY-1 (mL/L)	OXY-1 Comments	Nis k	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 20	22-067	ID 1	\mathbf{I}	5			(°C)			ID 1			()		
Event: Q	7	2		1	38	952	7-1	1,891		2					
Station: FC6		3		1		, -	150	1,0		3					
Event Date (Local):		4								4					
Analysis Date (Local)		5								5					
Analyst:		6								6					
Stdization Date (Loca	D:	7		+					i i	7					
	17.			+					38	8					
KIO ₃ N:		8		-					OXY -						
Standard Titer:		9							FC03	9					
Blank Titer:		10	X						2022-067	10					
THIO N:		11							300 m	11					
Sample Flask	Yes	12	4						bot 2	12					
Water Seal?	No	13	1							13					
Reagent Change?	MnCl ₂	14								14					
(Please circle reagent that was changed prior	NaI/NaOH	15								15					
to sampling and standardization)	H₂SO₄	16	;							16					
NOTE NEW BATCH IN LOG BOOK	KIO₃	17								17					
200 0001	THIO	18	3							18					
Notes:		19	,							19					
Notes.		20								20					
		21		\dashv						21					
		22								22					
		23								23					
										24					
		.24							isst by opening the yent. Mark 'y' in the appropriate colum	1					

Water Properties Group



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Cruise and Analysis	Information	Nis k ID	Nisk Int V S	Sample	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nis k ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 20	22-067	1							1				
Event:	10	2		40	2092	7.1	1.870		2				
Station: M]	103	3						40	3				
	24/07/22	4						OXY	4				
Analysis Date (Local):		5						MIL03	5				
Analyst:		6						2022-067	6				
Stdization Date (Local):	7						220 m	7				
KIO ₃ N:		8						bot 2	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	NaI/NaOH	15							15				
to sampling and standardization)	H₂SO₄	16							16				
NOTE NEW BATCH IN LOG BOOK	KIO₃	17							17				
	THIO	18							18				
Notes:		19							19				
		20							20				
		21							21				
		22							22				
		23							23				
		24							24				

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Cruise and Analysis	Information	Nis k ID	Nisk Int V S	Sampi	e Flask	Draw Temp 1 (°C)	OXY-1 (mL/L)		OXY-1 Comments	Nis k ID		Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 27	011-067	1								1					
Event: 95		2		424	367	7,3	2.256	42A	42B	2 42	B	3173	71	2.256	
Station: J75	27	3						ΟΧΥ	OXY	3					
Event Date (Local): .	Julhyhon	4						MS02	MS02	4					
Analysis Date (Local):		5						2022-067	2022-067	5					
Analyst:		6						150 m	150 m	6					
Stdization Date (Loca):	7						bot 2	bot 2	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	NaI/NaOH	15								15					
to sampling and standardization)	H₂SO₄	16								16					
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17								17					
	THIO	18								18					
Notes:		19								19					
		20								20					
	(4)	21								21					
		22								22					
		23								23					
		24								24					

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Dissolved Oxygen Analysis Log Sheet
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Cruise and Analysis	Information	Nis k	Nisl Int	Sample	Flask	Draw Temp 1	OXY-1	OXY-1 Comments	Nis k Sample	Flask	Draw Temp 2	OXY-2 (mL/L)	OXY-2 Comments
		ID			1	(°¢)	(mL/L)		ID ID	2	(°C)	(ML/L)	
Cruise Number:	2022-067	1							1.				
Event: 101		2	\geq	44A	3007	7-1	1.680		2 44B	1378	7-1	1.683	Failed integrity test, Lower end cap
Station: C56		3							3				/
Event Date (Local): 🖰	501 25 2022	4							4				
Analysis Date (Local):		5							5				
Analyst:		6							6				
Stdization Date (Loca	1):	7							7				
KIO ₃ N:		8							8				
Standard Titer:		9						- E	9				
Blank Titer:		10		44A	4	4B			10				
THIO N		11		OXY	0	XY			11				
Sample Flask	Yes	12	141	CS09	CS	809			12				
Water Seal?	No	13	0	22-067	2022	2-067			13				
Reagent Change?	MnCl ₂	.14	1	20 m	12) m			14				
(Please circle reagent that was changed prior	NaI/NaOH	15	k	oot 2	bo	t 2			15				
to sampling and standardization)	H ₂ SO ₄	16							16				
NOTE NEW BATCH IN LOG BOOK	KIO₃	17							17				
	THIO	18							18				
Notes:		19							19				
		20							20				
		-21							21				
		22							22				
*		23							23				
		24	-						24				

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Cruise and Analysis	Information	Nis k ID	Int	t ²	Sample ID	Flas	5K 1	Draw Temp : (°C)	, II V	OXY-1 mL/L)	OXY-1 Comments	Nis k ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: Z	911-067	1		- 1	46	96	6	7,3	1,	.863		1					
Event: 107		2	7	X -	46	-36	6					2					Failed integrity-lowerend caps use bottle I instead
Station: LBA	-7	3							i			3					use bottle 1 instead
Event Date (Local):	15/07/2022	4										4					
Analysis Date (Local):		5										5					
Analyst:		6										6					
Stdization Date (Loca):	7										7		46			
KIO ₃ N:		8										8	(YXC			
Standard Titer:		9										9	-	BA-2			
Blank Titer:		10	id I									10		2-067			
THIO N:		11	2									11	35	i0 m			
Sample Flask	Yes	12										12	b	ot 2			
Water Seal?	No	13	8									1.3					
Reagent Change?	MnCl ₂	14										14					
(Please circle reagent that was changed prior	NaI/NaOH	15	3									15					
to sampling and standardization)	H₂SO₄	16										16					
NOTE NEW BATCH IN LOG BOOK	KIO₃	17	2									17					
	THIO	18	3									18					
Notes:		19										19					
		20										20					
		21										21					
		22	2									22					
		23	3									23					
		24										24					

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Cruise and Analysis	Information Nis		Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)		Nis k ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2022-067 2	b,	I	7-184A	3676	-99	7.224	1			2065	7.8	2.228	
Event:	\\\\	2	1		-				2.	FI				
Station:	QCS4 3	3							3					
Event Date (Local):	27 July 2022 4								4					
Analysis Date (Local):		5						48A - 48B	5					
Analyst:	6	5						OXY - OXY	6					
Stdization Date (Local): 7	,						QCS4 _ QCS4	7					<u> </u>
KIO ₃ N:	8	3						2022-067 _ 2022-067	8					
Standard Titer:	9	,						350 m _ 350 m	9					
Blank Titer:	10	0						bot 2bot 2	10					
THIO N:	1	1							11					
Sample Flask	Yes 1	2							12					
Water Seal?	No 1	3							13					
Reagent Change?	MnCl ₂	4							14					
(Please circle reagent that was changed prior	NaI/NaOH 1	5							15					
to sampling and standardization)	H ₂ SO ₄ 1	6							16					
NOTE NEW BATCH IN LOG BOOK	KIO ₃ 1	7							17					
	THIO 1	8							18					
Notes:	1	9							19					
	2	20							20					
	2	21							21					
	2	22							22					
	2	23							23					
	2	24							24					

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Cruise and Analysis	Information	Nis k ID	Nis Int V	t S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nis k ID Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	7622-067	1			翻					1				
Event:	118	2	V		50	3099	7.3	1.847	8	2				2
Station: (5068	3								3				
Event Date (Local):	27 July 2022	4								4				
Analysis Date (Local)	4	5								5		-		
Analyst:		6	in I						50	6				
Stdization Date (Loca	l):	7							Οχ _γ	7				
KIO ₃ N:		8							GoC8	8				
Standard Titer:		9							350 m	9				
Blank Titer:		10							bot 2	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	NaI/NaOH	15	ř						(3)	15				
to sampling and standardization)	H ₂ SO ₄	16								16				
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17							3	17				
	THIO	18	3							18				in the second se
Notes:		19								19				
		20								20				
7.41		21							3	21				
8		22	3							22				
		23	3							23				
		24								24				

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Water Properties Group	Nic	Nisk	,		Draw		103	Nis			Draw		
Cruise and Analysis Information	Nis k ID	Int V S	Sample	Flask 1	Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	k ID	ample ID	Flask 2	Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 2022 - 667	1		52	131	7,6	2.190		1					
Event: \\ 9	2							2					
Station: QCS10	3							3					8
Event Date (Local): 27 July 2022	4							4					
Analysis Date (Local): 05 Aug 2022								5					
Analyst: \\X\S	6							6					
Stdization Date (Local): 65 Aug 2022	7							7					
KIO3 N: 0.01/8996	8							8					
Standard Titer: 0.49766	9							9					
Blank Titer: 0,00050	10							10					*
THIO N: 0.23940	11			52				11					
Sample Flask Yes	12			OXY				12					
Water Seal? No	13			QCS1				13					
Reagent Change? MnC ₂	14	1	2	2022-06	7			14					
(Please circle reagent that was changed prior NaI NaOH	15			350 m				15					
to sampling and H ₂ SO ₄	16	3		bot 2	4			16					
NOTE NEW BATCH IN KIO3	17							17					
THIO	18							18					
Notes: Standordization	19							19					
applies la events	20							20					
-MI -2 12 Significant	21	li e						21					
Notes: Standordization applies to events #119 to 208	22							22					
	23	3						23					
	24	1						24					

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Cruise and Analysis	Information	Nis k ID	Ni In V	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	-(4)	OXY-1 Comm	nents		nple Fla	2 (-1/1)	OXY-2 Comments
Cruise Number: 2	022 - 067	1		54	132	8.1	2.716	- 1st afterni	aborte	a Titrated in	1			
Event:	129	2						air.			2			
Station:	CSIS &	3									3			
	28 July 2027	4									4			
Analysis Date (Local):		5									5			
Analyst:		6									6			
Stdization Date (Loca	1):	7									7			
KIO ₃ N:		8								C5554	8			
Standard Titer:		9								OXY	9			
Blank Titer:		10								2022-067	10			
THIO N:		11								100 m	11			No.
Sample Flask	Yes	12								bot 2	12			
Water Seal?	No	13									13			
Reagent Change?	MnCl ₂	14									14			
(Please circle reagent that was changed prior	NaI/NaOH	15									15			
o sampling and standardization)	H ₂ SO ₄	16									16			
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17						ļ.			17			
	THIO	18									18			
Notes:		19									19			
		20									20			
		21									21			
		22									22			
	>	23									23			
		24									24			

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Cruise and Analysis	Information	Nis k ID	Nisk Int V S	Sample	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nis k ID Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	022 - 067	1		56	133	7.8	7.375		1				
Event: \	33	2							2				
	:53	3							3				
	28 July 2022	4							4				
Analysis Date (Local):		5							5				
Analyst:		6							6				
Stdization Date (Local):	7						56	7				
KIO ₃ N:		8						Οχγ	8				
Standard Titer:		9						QCS3	9				
Blank Titer:		10						2022-067 ————————————————————————————————————	10				
THIO N:		11						bot 2	11				
Sample Flask	Yes	12						~0(2	12				
Water Seal?	No	13				Ų			13				
Reagent Change?	MnCl ₂	14							14				
(Please circle reagent that was changed prior	NaI/NaOH	15							15				
to sampling and standardization)	H₂SO₄	16							16				
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17							17				
	THIO	18							18				
Notes:		19							19				
		20							20				
		21	8						21				
		22							22				
		23	8						23				
		24							24				

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Cruise and Analysis		Nis k ID	Nisk Int V S	Sample	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comm	ents	Nis k ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)		OXY-2 Comment	s
Cruise Number:	2022-067	1:		514						1							
Event: 1と1		2		58A	134	7.3	1.844			2	583	135	7.1	1.843			
Station: LBA	-2	3		59	136	7.2	1.983			3							
	July 28/2022	4		60	137	7.5	1.326			4							
Analysis Date (Local):		5		61	138	7.7	2.657)	100	5						_	
Analyst:		6		62	139	20	3.709	58A	58B	59		60		61	62	63	
Stdization Date (Loca):	7		63	140		4,527	OXY	OXY	OXY	1	YXC	C	OXY	OXY	OXY	
KIO ₃ N:		8						LBA-2	LBA-2	LBA-2	L	BA-2	LE	3A-2	LBA-2	LBA-2	
Standard Titer:		9						2022-067	2022-067	2022-067	202	22-067	202	2-067	2022-067	2022-067	
Blank Titer:		10						350 m	350 m	250 m	1	50 m	10	00 m	50 m	20 m	
THIO N:		11						bot 2	bot 2	bot 3	k	ot 4	į b	ot 5	bot 6	bot 7	
Sample Flask	Yes	12								12							
Water Seal?	No	13								13							
Reagent Change?	MnCl ₂	14								14						,	
(Please circle reagent that was changed prior	NaI/NaOH	15								15							
to sampling and standardization)	H₂SO₄	16								16							
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17								17							
200 book	THIO	18								18							
Notes:		19								19							
		20								20							
		21						<u> </u>		21							
		22								22						==	
		23								23							
		24								24							

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Cruise and Analysis	Information	Nis k ID	Nisl Int V S	Samp	le Fl		Draw Temp 1 (°C)	OXY-1 (mL/L)		OXY-1 Comments		nple D	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 2	022-067	1		65	1	141	7.6	7.285	Leaky bo	thon niskin cap/markeunt	1					
Event:	148	2									2					
Station: Qu	AOa	3									3					
		4									4					
Analysis Date (Local):		5									5					
Analyst:		6								65	6					
Stdization Date (Local):	7								Οχγ	7					
KIO ₃ N:		8								QUA0a	8					
Standard Titer:		9								2022-067	9					
Blank Titer:		10								150 m	10					
THIO N:		11								bot 2	11					
Sample Flask	Yes	12									12					
Water Seal?	No	13									13					
Reagent Change?	MnCl₂	14									14					
(Please circle reagent that was changed prior	NaI/NaOH	15									15					
to sampling and standardization)	H₂SO₄	16									16					
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17									17					
200 50011	THIO	18									18					
Notes:		19									19					
Hotes.		20									20					
		21									21					
		22									22					
		23	\vdash								23					
		24									24					

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Cruise and Analysis	Information k	I	lisk int S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nis Samp	SK Te	Draw emp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	1022-067				V_				1				
Event:	2	L	1	67	142	8.1	2.603		2				
Station: (3	UALD								3				
event Date (Local):	54								4				
nalysis Date (Local):	5					67			5				
ınalyst:	6					XY -			6				
Stdization Date (Loca	1):	2				2-067 —			7				
CIO ₃ N:	8	3) m —	1 1		8				
Standard Titer:	.9	•				t 2 =			9				
Blank Titer:	1	0							10				
THIO N:	1	1							11				
Sample Flask	Yes 1	2							12				
Water Seal?	No 1	3							13				
Reagent Change?	MnCl ₂ 1	4							14				
Please circle reagent hat was changed prior	NaI/NaOH 1	5							15				
o sampling and tandardization)	H₂SO₄ 1	6							16				
OTE NEW BATCH IN OG BOOK	KIO ₃ 1	7							17				
	THIO 1	.8							18				
Notes:	1	.9							19				
	2	.0							20				
	2	1							21				
	2	2							22				
	2	.3							23				
	2	4							24				

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Cruise and Analysis	Information	Nis k ID	Nis Int V S	t S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments k	Samp	e Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 20	22-067	1							1					
Event: 160		2		(69A	143	8.3	2.509	2	631	144	8.3	2,500	
Station: QUA	7	3							3					
	July 292022	4							4					
Analysis Date (Local)		5							5	R		69A		
Analyst:		6							6	81		OXY		69B
Stdization Date (Loca	i):	7							7			QUA7		ΟΧΥ
KIO ₃ N:		8							8			2022-06	7	QUA7
Standard Titer:		9							9			100 m		2022-067
Blank Titer:		10							10	O.		bot 2		100 m
THIO N:		11							11	j				bot 2
Sample Flask	Yes	12							12	2				
Water Seal?	No	13							13	3				
Reagent Change?	MnCl ₂	14							14	1				
(Please circle reagent that was changed prior	NaI/NaOH	15							15	5				
to sampling and standardization)	H₂SO₄	16							16	5				
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17							17	7				
	THIO	18							18	3				
Notes:		19							19	9				
		20	1						20	0				
		21							21	1				
		22					+-		22	2 //				
		23							23	3				
		24							24	ij.				

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Cruise and Analysis	Information	Nis k ID	Nisl Int V S	San	nple (D	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nis k ID Sampl	e Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	
Cruise Number: ZC	722-067	1								1				
Event: 167		2		7	21	145	10.8	4.411		2				
Station: I+ OL	1	3								3				
Event Date (Local):	July 197011	4								4				
Analysis Date (Local):		5								5	74			
Analyst:		6								6	71 OX			
Stdization Date (Local):	7								7	HOL			
KIO ₃ N:		8		×						8		067 —		
Standard Titer:		9								9		m —		
Blank Titer:		10								10	bot			
THIO N;	Y-	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	NaI/NaOH	15								15				
to sampling and standardization)	H ₂ SO ₄	16								16				
NOTE NEW BATCH IN LOG BOOK	KIO₃	17								17				
	THIO	18								18				
Notes:		19								19				
		20								20				
		21								21				
		22								22				
		23								23				
		24								24				

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Water Properties Group



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Water Properties	Group	Total:		_					103	(property					
Cruise and Analysis	Information	Nis k ID	Nisk Int V S	Sample	e Flask 1	Tem (°C	p 1	OXY-1 (mL/L)	OXY-1 Comments	Nis k ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2022-067	1								1					
Event:	172	2		73	143	6 6	.7 1	4.003		2					
Station:	HOLY	3								3					
Event Date (Local):	29 July 2022	4								4					
Analysis Date (Local):		5								5					
Analyst:		6								6					
Stdization Date (Local):	7								?7					
KIO ₃ N:		8								8					
Standard Titer:		9								9					TI TI
Blank Titer:		10								10					
THIO N:		11								11					
Sample Flask	Yes	12								12					
Water Seal?	No	13								13					
Reagent Change?	MnCl ₂	14	1						73	14					
(Please circle reagent that was changed prior	NaI/NaOH	15							OXY	15					
to sampling and standardization)	H₂SO₄	16	1						HOL4	16					
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17							2022-067	17					
	THIO	18							30 m	18					
Notes:		19							bot 2	19					
		20								20					
		21	1							21					
		22	2							22	}				
		23	3							23					
		24								24					

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Water Properties	Group			,				103					
Cruise and Analysis	Information	Nis k ID	Int	Sample	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nis k ID ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: ZC	77-067	1							1				
Event: コ	Z	2		75	147	8.4	2.298		2				2
Station: NES	CI	3							3				
Event Date (Local):		4							4				
Analysis Date (Local):	/	5							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			75				13				
Reagent Change?	MnCl ₂	14			YXC				14				
(Please circle reagent that was changed prior	NaI/NaOH	15		L	IE5A				15				
to sampling and standardization)	H₂SO₄	16		202	22-067				16				
NOTE NEW BATCH IN LOG BOOK	KIO₃	17		1	50 m				17				
	THIO	18	1		bot 2	1			18				
Notes:		19	2						19				
		20							20				
		21							21				
		22	2						22				
		23	3						23				
		24	1					annering the yeart. Mark ly' in the appropriate	24				

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Cruise and Analysi	s Information Nis		Sample	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk Sample	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 70	122-067 1							1				77
Event: 184	2		77	148	8.8	1.626		2				OXY
Station: NET	3							3				NE1
	July 30 2012 4		84 80					4				2022-067
Analysis Date (Local)								5				30 m
Analyst:	6							6				bot 2
Stdization Date (Loca	l): 7					N THE		7				·
KIO ₃ N:	8							8				
Standard Titer:	9		10 1					9				
Blank Titer:	10	0						10				
THIO N:	11)	1					11				
Sample Flask	Yes 12	2						12		1.		
Water Seal?	No 15	3	7, 1					13				
Reagent Change?	MnCl ₂	4						14				
(Please circle reagent that was changed prior	NaI/NaOH 1	5						15				
to sampling and standardization)	H ₂ SO ₄	6				11 _ 121		16				
NOTE NEW BATCH IN LOG BOOK	KIO ₃	7						17				
	THIO 18	3	2115					18				
Notes:	19	9						19				
	20	0						20				
	2:	1.						21				
	2:	2						22				
	2:	3						23				
	24	1						24				

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Water Properties Cruise and Analysis		Nisk ID	Nisk Int V S	Sample	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments		lask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 7 C	77-067	1							1				
Event: 187		2		79	149	9.0	1.849	70	2				
Station: NSOO		3						79 ————————————————————————————————————	3			22/15/1	
Event Date (Local):	July 312022	4						NS00	4				
Analysis Date (Local):		5						2022-067	5				
Analyst:		6					Mar K	50 m	6			8.	
Stdization Date (Local):	7						bot 2	7			31	₹.
KIO ₃ N:		8							8				
Standard Titer:		9		No. of A					9			351	
Blank Titer:		10					3 01 3		10			Barrie	
THIO N:		11							11			15	
Sample Flask	Yes	12							12				
Water Seal?	No	13							13			N ALL	
Reagent Change?	MnCl ₂	14						Ф	14				
(Please circle reagent that was changed prior	NaI/NaOH	15					Ti .		15			525	
to sampling and standardization)	H₂SO₄	16							16				
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17							17				8
	THIO	18					31. 1.		18				
Notes:		19							19				
Hotes.		20							20				
		21							21				
		22						***	22				2 11
		23						4	23				Y
		24							24			J. Habil	



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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 Sample ID ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 2022-067	1	ΗŤ			(-,			1				-20
Event: 193	2		31	150	8.8	1.433		2			A N. A.	
Station: NSØ5	3							3			- 1684	
Event Date (Local):	4							4				
Analysis Date (Local):	5							5				
Analyst:	6						81	6				
Stdization Date (Local):	7						OXY NS05	7				
KIO ₃ N:	8						2022-067	8				
Standard Titer:	9						200 m	9				
Blank Titer:	10	8					bot 2	10			- 20	
THIO N:	11							11				
Sample Flask Yes	12	X.						12				
Water Seal? No	13							13				
Reagent Change? MnCl ₂	14							14				
(Please circle reagent that was changed prior NaI/NaOH	15	3				f (15				
to sampling and standardization) H ₂ SO ₄	16	5						16				
NOTE NEW BATCH IN LOG BOOK KIO ₃	17	7						17				
THIO	18	3						18			181	
Notes:	19)						19				
100031	20)						20			Marty o	
	21	1						21			Market High	
	22	2						22				·
	23	3		景				23				
	24	4					y opening the yent. Mark 'x' in the approp	24				

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Water Properties Group Cruise and Analysis Information	Nisk ID	Nisk Int V S	Sample	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk Sample ID 10	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 7077 - 067	1						×	1				
Event: 203	2	×	85A	151	8.3	0,048		2 85B	152	3.0	0.043	
Station: Jut 3	3	1	CIV.								4	
Event Date (Local): July 51 202	2 4					305 5		4				
Analysis Date (Local):	5							5			1 182	
Analyst:	6						83A83B	6				
Stdization Date (Local):	7						OXY _ OXY	7			L Xellen	
KIO ₃ N:	8					3-7	Mul3 Mul3	8			1-1-1	
Standard Titer:	9						2022-067 2022-067 250 m	9			1	
Blank Titer:	10						250 m	10			492	
THIO N:	11						bot 2	11				
Sample Flask Yes	12							12		12		
Water Seal? No	13	Ш						13				
Reagent Change? MnCl ₂	14							14				
(Please circle reagent that was changed prior NaI/NaOH	15							15	<u></u>			
to sampling and standardization) H ₂ SO ₄	16		(1) E					16		-		
NOTE NEW BATCH IN LOG BOOK KIO ₃	17							17 温				
THIO	18							18				
Notes:	19							19				
Roffle #7 Parl	20							20				
referred to the lead	21							21				
Police # 2 feiled integrity check. Sample docum from bottle #3	22	-				NEA JEST		22				
Sample docum	23	-				2012 T		23	_			
from bothe #3	24						ight by opening the year. Mark 'y' in the appr	24				his in the comments salumn



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Water Properties Group Cruise and Analysis Information	177 (1999)	ample Flask 1D 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk Sample ID ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 2022-067	1	(#6) (*) (#2) = 6)				1	3170			
Event: 206	2	85A 153	8.2	0.043	3 - Niskin	2 256	154	8.8	0.043	3
Station: MUIL	3	86 155	8.8	0.040	4	3				
Event Date (Local): 31 3 4 26	22 4 3	87 156	8.9	0.046	S	4				
Analysis Date (Local):	5 🚣	38 157	8,9	0.053	6	5				
Analyst:	6	89 158	9.1	0.150	7	6				
Stdization Date (Local):	7 🕗 🧗	90 159	9.2	1.091	8 - E.Plate. Sample over- likabed	7			11.50	
KIO₃ N:	8 2	91 40			Flast 160. Not a sample Can	8			101	
Standard Titer:	9				be dumped.	9				
Blank Titer:	10	91	1619	1,151	10	10				
THIO N:	11	92	162 11:	23.743	11	11			15. P.	
Sample Flask Yes	12			/2=		12				
Water Seal? No	13					13				
Reagent Change? MnCl ₂	14			L	86 87 88 89	90	_	9	1 = 0 1	
(Please circle reagent that was changed prior NaI/NaOH	15	85A	85B			OXY		_ O		92
to sampling and H_2SO_4 standardization)	War and the second second	OXY	OXY	- 1	OXY OXY OXY OXY Mul1 Mul1 Mul1 Mul1	16 Mul		- Mu		OXY
NOTE NEW BATCH IN LOG BOOK KIO₃		Mul1	Mul1	- 21	1922-067 - 2022-067 - 2022-067 - 2022-067			2022		-047
THIO	18		2022-06	,,	250 m 200 m 150 m 100 m	50 m			<u> </u>	· ·
Notes:	19	300 m	300 m		bot 3 - bot 45 - bot 46 - bot 4	a T	8-	bo	al0-	Pof 11
	20	botta 5	bot 2	3	nor a nor a nor a nor a	20				
	21					21			Metalle 1	
	22					22	\$			
	23					23				7
	24				that he appropriate column	24				

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Vater Properties Group Truise and Analysis Information	Nisk ID	Nisk Int V S	Sample	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk Sample ID ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 2027_067	1							1	1. 3	UN	1.202	
Event: 208	2	V	344	163	8.8	1.382		2 500	164	8.9	1.382	
Station: NS 03	3					HEAT STATE		3				
Event Date (Local): July \$1207	12 4							4				
Analysis Date (Local):	5							5 -				
Analyst:	6					944	QLR -	6			-307	
Stdization Date (Local):	7					OXY	948 0x4 4503 1022.08	7				
KIO ₃ N:	8		170.			NS03	UKY	8			11-50	
Standard Titer:	9				2	2022-067	#\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	9	8			
Blank Titer:	10					120 m	130	10				
THIO N:	11					bot 2			8			
Sample Flask Yes	12							12			8.4.	
Water Seal? No	13					126-1		14				
Reagent Change? MnCl ₂	14							15	20			
(Please circle reagent that was changed prior NaI/NaOH	15							16	8			
to sampling and H ₂ SO ₄	16	3						17				
NOTE NEW BATCH IN LOG BOOK KIO ₃	17				-			18			- BHEV	
THIO	18	3				12-4		19	NE.		1257.51	
Notes:	19	9						20				
	20	D						20				
1	2:					5 (5 T) 5 T		21 22				
	2	2						23				
	2	3						24				
	2	4				White State	got by opening the vent. Mark 'x' in the approp	winto column if oither fal	e the in	tearity ch	eck and explain	this in the comments column.