

Dissolved Oxygen Analysis Log Sheet

Last Updated: December 2011

Institute of Ocean Sciences
Water Properties Group

Cruise and Analysis Information	Nisk ID	Nisk Int	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2013-58	1	☐	46	3070	26	12.2	44.27		1				
Event: 004	2	☐	47	3076	10	13.3	49.11		2				
Station: L301	3	☐	48	1019	5	16.0	6.154		3				
Event Date (Local): 07 Sept 13	4	☐							4				
Analysis Date (Local): 08 Sept 13	5	☐							5				
Analyst: TF	6	☐							6				
Stdization Date (Local): 08 Sept 13	7	☐							7				
KIO ₃ N: 0.0098302	8	☐							8				
Standard Titer: 0.7020	9	☐							9				
Blank Titer: 0.003	10	☐							10				
THIO N: 0.14101	11	☐							11				
Sample Flask (Yes)	12	☐							12				
Water Seal? No	13	☐							13				
Reagent Change? MnCl ₂	14	☐							14				
(Please circle reagent that was changed prior to sampling and standardization)	15	☐							15				
NaI/NaOH	16	☐							16				
H ₂ SO ₄	17	☐							17				
NOTE NEW BATCH IN LOG BOOK	18	☐							18				
KIO ₃	19	☐							19				
THIO	20	☐							20				
Notes: Yellow lid	21	☐							21				
	22	☐							22				
	23	☐							23				
	24	☐							24				

004
10:10
48 40.38
124 59.47

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Cruise and Analysis Information	Nisk ID	Nisk Int	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2013-58			50	3029	48	11.2	4.130		1				
Event: 5			51	639	30	11.8	4.793		2				
Station: L302			52 A	632	20	13.0	5.063		3	19L ^B	13.0	5.059	
Event Date (Local): 07 Sept 13			53	2040	10	15.1	5.624						
Analysis Date (Local): 08 Sept 13			54	3121	5	16.5	6.651		5				
Analyst: TF	6	☐							6				
Stdization Date (Local): 08 Sept 13	7	☐							7				
KIO ₃ N: 0.0098302	8	☐							8				
Standard Titer: 0.7020	9	☐							9				
Blank Titer: 0.003	10	☐							10				
THIO N: 0.14101	11	☐							11				
Sample Flask	12	☐											
Water Seal?	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				
	17	☐							17				
	18	☐							18				
	19	☐											
Notes: Yellow lid	20	☐							20				
	21	☐							21				
	22	☐							22				
	23	☐							23				
	24	☐							24				

Event 5
10:48
48 38.99
125 02.38

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Cruise and Analysis Information	Nisk ID	Nisk Int	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2013-58	1	☐	58	1050	112	8.2	2.193	I did not see?	1				
Event: 007	2	☐	59	1054	75	8.7	2.770	I did get query for sample/flask/depth in dataset as sample 58 ←	2	2015 ^B	8.5	2.707	made bubble when putting in shr bar
Station: 1B04	3	☐	60	7020	50	9.1	2.866		3				
Event Date (Local): 07 Sept 13	4	☐	61	2016	30	10.5	3.901		4				
Analysis Date (Local): 08 Sept 13	5	☐	62	647	20	10.5	4.118		5				
Analyst: TF	6	☐	63	3040	10	12.1	5.461		6				
Stdization Date (Local): 08 Sept 13	7	☐	64	2032	5	13.2	6.142		7				
KIO ₃ N: 0.0098302	8	☐							8				
Standard Titer: 0.7020	9	☐							9				
Blank Titer: 0.003	10	☐							10				
THIO N: 0.14101	11	☐							11				
Sample Flask Water Seal? ☒ Yes ☐ No	12	☐							12				
	13	☐							13				
Reagent Change? MnCl ₂	14	☐							14				
(Please circle reagent that was changed prior to sampling and standardization)	15	☐							15				
	16	☐							16				
NOTE NEW BATCH IN LOG BOOK ☒ KIO ₃	17	☐							17				
	18	☐							18				
Notes: Yellow lid	19	☐							19				
	20	☐							20				
	21	☐							21				
	22	☐							22				
	23	☐							23				
	24	☐							24				

event 007 time 0502
48° 35.65' N
125° 08.75' W

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Water Properties Group

Cruise and Analysis Information	Nisk ID	Nisk Int	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2013-58	1	☐	68	1094	104	8.3	1.599		1				
Event: 11	2	☐	69A	468	75	8.1	2.213		2	2033	8.0	2.229	
Station: LB 06	3	☐	70	712	50	8.2	3.202		3				
Event Date (Local): 07 Sept 13	4	☐	71	2090	30	9.6	3.590		4				
Analysis Date (Local): 08 Sept 13	5	☐	72	510	20	15.3	6.335		5				
Analyst: JF	6	☐	73	715	10	17.3	6.305		6				
Stdization Date (Local): 08 Sept 13	7	☐	74	2049	5	17.6	6.244		7				
KIO ₃ N: 0.0098302	8	☐							8				
Standard Titer: 0.302-0	9	☐							9				
Blank Titer: 0.003	10	☐							10				
THIO N: 0.14101	11	☐							11				
Sample Flask (Yes)	12	☐							12				
Water Seal? No	13	☐							13				
Reagent Change? MnCl ₂	14	☐							14				
(Please circle reagent that was changed prior to sampling and standardization)	15	☐							15				
H ₂ SO ₄	16	☐							16				
NOTE NEW BATCH IN LOG BOOK	17	☐							17				
KIO ₃	18	☐							18				
THIO	19	☐							19				
Notes: GREY LTD	20	☐							20				
	21	☐							21				
	22	☐							22				
	23	☐							23				
	24	☐							24				

15:01
48 32.17
125 15.51
EVENT 11

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Water Properties Group

Cruise and Analysis Information	Nisk ID	Nisk Int	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2013 58	1	☐	78	1053	136	7.8	0.902		1	3209	8.0	0.910	
Event: 25	2	☐	79	3038	132	7.7	0.927		2	3111	7.8	0.929	
Station: LB 08	3	☐	80	2014	127	7.6	0.940		3	621	7.7	0.937	
Event Date (Local): 7 SEPT 2013	4	☐	81	3142	100	7.6	1.089		4				
Analysis Date (Local): 08 Sept 13	5	☐	82	2086	75	7.6	1.195		5				
Analyst: TK	6	☐	83	631	50	8.0	2.244		6				
Stdization Date (Local): 08 Sept 13	7	☐	84	2065	30	8.7	3.025		7				
KIO ₃ N: 0.0098302	8	☐	85	3009	20	9.2	3.265		8				
Standard Titer: 0.7020	9	☐	86	2055	10	14.1	5.681		9	3047	14.1	5.673	
Blank Titer: 0.003	10	☐	87	2088	5	17.1	6.187		10				
THIO N: 0.14101	11	☐							11				
Sample Flask Water Seal? ☒ Yes ☐ No	12	☐							12				
	13	☐							13				
Reagent Change? MnCl ₂	14	☐							14				
(Please circle reagent that was changed prior to sampling and standardization)	15	☐							15				
	16	☐							16				
NOTE NEW BATCH IN LOG BOOK	17	☐							17				
	18	☐							18				
Notes:	19	☐							19				
	20	☐							20				
	21	☐							21				
	22	☐							22				
	23	☐							23				
	24	☐							24				

GREY LTD
SAMPLED 10 → 1

BC 2336
48° 25.30'
125° 28.61'

BO 2340
48° 25.31'
125° 28.61'

Dissolved Oxygen Analysis Log Sheet

BROWN

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Institute of Ocean Sciences

Water Properties Group

Cruise and Analysis Information	Nisk ID	Nisk Int	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2013-58	1	☐	89	3151	141	7.5	0.905		1				
Event: 26	2	☐	90	3207	125	7.5	1.046		2				
Station: LBO9	3	☐	91	3187	100	7.6	1.353		3				
Event Date (Local): 8 SEPT 2013	4	☐	92	3193	75	8.1	3.385		4				
Analysis Date (Local): 08 Sept 13	5	☐	93	3196	50	8.1	4.230		5				
Analyst: TF	6	☐	94	3189	30	9.4	3.418		6				
Stdization Date (Local): 08 Sept 13	7	☐	95A	3191	20	11.1	4.666		7	53188	11.0	4.689	
KIO ₃ N: 0.0098302	8	☐	96	3184	10	16.9	6.338		8				
Standard Titer: 0.7020	9	☐	97	3198	5	17.8	6.167		9				
Blank Titer: 0.003	10	☐							10				
THIO N: 0.1101	11	☐							11				
Sample Flask Water Seal? ☒ Yes	12	☐							12				
	13	☐							13				
Reagent Change? MnCl ₂	14	☐							14				
(Please circle reagent that was changed prior to sampling and standardization)	15	☐							15				
H ₂ SO ₄	16	☐							16				
NOTE NEW BATCH IN LOG BOOK ☒ KIO ₃	17	☐							17				
THIO	18	☐							18				
Notes: SAMPLED 9-21	19	☐							19				
	20	☐							20				
	21	☐							21				
	22	☐							22				
	23	☐							23				
	24	☐							24				

BC: 0035 (1735)

48' 22.03

125' 34.73

BO: 0039 (1739)

48' 22.01

125' 34.72

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Water Properties Group

Brown

Cruise and Analysis Information	Nisk ID	Nisk Int	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2013-58	1	☐	101	3177	194	7.9	1.014	SAMPLED (1-7)	1				
Event: 29	2	☐	102	3178	175	7.9	1.386		2				
Station: LB11	3	☐	103	3166	150	7.9	1.548		3				
Event Date (Local): 8 Sept 13	4	☐	104	3160	125	8.0	2.236		4				
Analysis Date (Local): 08 Sept 13	5	☐	105 ^A	3171	100	8.1	3.362		5	3157	8.2	3.353	
Analyst: TF	6	☐	106	3200	75	8.0	4.783		6				
Stdization Date (Local): 08 Sept 13	7	☐	107	3201	50	8.1	6.439		7				
KIO ₃ N: 0.0098302	8	☐	108	3208	30	8.7	6.400		8				
Standard Titer: 0.7020	9	☐	109	3204	20	12.9	6.288		9				
Blank Titer: 0.003	10	☐	110	3181	10	17.9	5.744		10				
THIO N: 0.14101	11	☐	111	3174	5	18.1	5.727		11				
Sample Flask Water Seal? ☒ Yes	12	☐							12				
	13	☐							13				
Reagent Change? MnCl ₂	14	☐							14				
(Please circle reagent that was changed prior to sampling and standardization)	15	☐							15				
	16	☐							16				
	17	☐							17				
NOTE NEW BATCH IN LOG BOOK	18	☐							18				
	19	☐							19				
Notes:	20	☐							20				
	21	☐							21				
	22	☐							22				
	23	☐							23				
	24	☐							24				

BE: 0255 (1955)

48 15.23

125 47.56

BO: 0300 (2000)

48 15.23

125 47.56

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Water Properties Group

White

Cruise and Analysis Information	Nisk ID	Nisk Int	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2013-58	1	☐	113	2095	561	6.8	0.722	Nisk leaking very badly	1				
Event: 30	2	☐	114	2089	400	7.3	1.305		2				
Station: LB12	3	☐	115	2087	300	7.6	1.474		3				
Event Date (Local): 8 Sept 2013	4	☐	116 ^A	2080	250	7.6	1.467		4	2041	7.7	1.456	ran B before A on AutoOxy.
Analysis Date (Local): 9 Sept 13	5	☐	117	2061	200	7.7	1.397		5				
Analyst: JF	6	☐	118	3124	175	7.7	1.304		6				
Stdization Date (Local): 08 Sept 13	7	☐	119	650	150	7.7	1.502		7				
KIO ₃ N: 0.0098302	8	☐	120	2000	125	7.8	2.285		8				
Standard Titer: 0.7020	9	☐	121	612	100	8.0	3.433		9				
Blank Titer: 0.003	10	☐	122	1059	75	7.9	5.297		10				
THIO N: 0.14101	11	☐	123	3109	50	8.1	6.378		11				
Sample Flask Water Seal? ☒ Yes	12	☐	124	1035	30	9.6	6.369		12				
☐ No	13	☐	125	1002	20	14.4	6.326		13				
Reagent Change? MnCl ₂	14	☐	126	1055	10	17.8	5.748		14				
(Please circle reagent that was changed prior to sampling and standardization)	15	☐	127 ^A	3116	5	18.0	5.735		15	2047	18.0	5.737	
H ₂ SO ₄	16	☐							16				
NOTE NEW BATCH IN LOG BOOK ☒ KIO ₃	17	☐							17				
THIO	18	☐							18				
Notes: WHITE LID SAMPLED 15 → 1	19	☐							19				
	20	☐							20				
	21	☐							21				
	22	☐							22				
	23	☐							23				
	24	☐							24				

BE 0352 (2052)

Bo: 0403 (2103)

48 12.90

125 51.92

125 51 92

Dissolved Oxygen Analysis Log Sheet

RED

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Institute of Ocean Sciences

Water Properties Group

Cruise and Analysis Information	Nisk ID	Nisk Int	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2013-58	1	☐	131	2051	1101	5.7	0.374		1				
Event: 32	2	☐	132A	3100	1000	5.5	0.316		2	B3068	5.4	0.279	
Station: LB14	3	☐	133	458	750	5.7	0.277		3				
Event Date (Local): 7-8 Sept 2013	4	☐	134	2017	500	6.4	0.717		4				
Analysis Date (Local): 9 Sept 13	5	☐	135	658	400	6.6	1.160		5				
Analyst: TK	6	☐	136	3013	300	7.1	1.749		6				
Stdization Date (Local): 08 Sept 13	7	☐	137	3137	250	7.3	2.092		7				
KIO ₃ N: 0.0098302	8	☐	138	3124	200	7.7	2.385		8				
Standard Titer: 0.2020	9	☐	139	3094	175	7.9	3.001		9				
Blank Titer: 0.003	10	☐	140	3194	150	8.0	3.123		10				
THIO N: 0.14101	11	☐	141	505	125	8.0	2.823		11				
Sample Flask Water Seal? ☒ Yes	12	☐	142	3096	100	8.1	3.569		12				
☐ No	13	☐	143A	1023	75	8.3	4.980		13	B3000	8.3	4.934	
Reagent Change? MnCl ₂	14	☐	144	3036	56	8.8	5.974		14				
(Please circle reagent that was changed prior to sampling and standardization)	15	☐	145	3005	30	11.1	6.146		15				
H ₂ SO ₄	16	☐	146	3041	20	16.7	5.847		16				
NOTE NEW BATCH IN LOG BOOK ☒ KIO ₃	17	☐	147	3025	10	17.6	5.721		17				
THIO	18	☐	148	3055	5	17.6	5.728		18				
Notes:	19	☐							19				
	20	☐							20				
	21	☐							21				
	22	☐							22				
	23	☐							23				
	24	☐							24				

BE 0640 (2340)
48°08'46"
125°59'93"

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Water Properties Group

data acquired as LB11

Cruise and Analysis Information	Nisk ID	Nisk Int	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2013-58	1	☐	160	3084	1468	5.8	0.660		1				
Event: 39	2	☐	161	3010	1250	5.8	0.425		2				
Station: LC-11	3	☐	162	2084	1000	6.5	0.226		3				
Event Date (Local): 8 SEP 13	4	☐	163	2035	750	6.5	0.232		4				
Analysis Date (Local): 8 SEP 13	5	☐	164 ^A	2069	500	7.0	0.391		5	396 ^B	7.1	0.379	
Analyst: TF	6	☐	165	3032	400	7.5	1.163		6				
Stdization Date (Local): 08 SEP 13	7	☐	166	3022	300	7.7	1.426		7				
KIO ₃ N: 0.0098302	8	☐	167	552	250	7.7	1.570		8				
Standard Titer: 0.7020	9	☐	168	3020	200	7.9	1.907		9				
Blank Titer: 0.003	10	☐	169	3007	175	8.0	2.602		10				
THIO N: 0.14101	11	☐	170	3109	150	8.2	3.076		11				
Sample Flask Water Seal? ☒ Yes	12	☐	171 ^A	708	125	8.3	3.876		12	3034 ^B	8.4	3.885	
☐ No	13	☐	172	3014	100	8.3	4.169		13				
Reagent Change? MnCl ₂	14	☐	173	2059	75	8.3	5.971		14				
(Please circle reagent that was changed prior to sampling and standardization)	15	☐	174	3023	50	10.6	5.861		15				
H ₂ SO ₄	16	☐	175	3021	30	14.1	6.438		16				
NOTE NEW BATCH IN LOG BOOK ☒ KIO ₃	17	☐	176	2056	20	17.7	5.788		17				
THIO	18	☐	177	3028	10	17.9	5.745		18				
Notes: GREEN LID	19	☐	178	3037	5	18.1	5.746		19				
SAMPLED 20 → 1	20	☐	179	3018	0				20				
	21	☐							21				
	22	☐							22				
	23	☐							23				
	24	☐							24				

BE: 1802 (1102) BO: 1829 (1129)

48° 18.98 126° 26 70

Dissolved Oxygen Analysis Log Sheet

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Water Properties Group

BROWN

Cruise and Analysis Information	Nisk ID	Nisk Int	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2013-58	1	☐	182	3151	602	7.0	0.570		1				
Event: 42	2	☐	183	3207	500	7.2	1.029		2				
Station: LC09	3	☐	184	3187	406	7.5	1.225		3				
Event Date (Local): 8 Sept 2013	4	☐	185	3193	300	7.8	1.607		4				
Analysis Date (Local): 09 Sept 13	5	☐	186 ^A	3196	250	7.9	1.543		5	B3189	6.0	1.541	
Analyst: TP	6	☐	187	3191	200	7.9	1.400		6				
Stdization Date (Local): 08 Sept 13	7	☐	188	3188	175	8.0	1.333		7				
KIO ₃ N: 0.0098202	8	☐	189	3184	150	8.1	2.110		8				
Standard Titer: 0.7020	9	☐	190	3198	125	8.3	2.951		9				
Blank Titer: 0.003	10	☐	191	3182	100	8.4	2.865		10				
THIO N: 0.14101	11	☐	192	3177	75	13.1	5.913		11				
Sample Flask Water Seal? ☒ Yes	12	☐	193 ^A	3178	50	9.2	5.910		12	B3166	9.2	5.211	
No	13	☐	194	3160	30	10.7	5.871		13				
Reagent Change? MnCl ₂	14	☐	195	3171	20	13.3	6.384		14				
(Please circle reagent that was changed prior to sampling and standardization)	15	☐	196	3157	10	17.2	5.971		15				
H ₂ SO ₄	16	☐	197	3200	5	17.6	5.927		16				
NOTE NEW BATCH IN LOG BOOK	17	☐							17				
☒ KIO ₃	18	☐							18				
☐ THIO	19	☐							19				
Notes:	20	☐							20				
	21	☐							21				
	22	☐							22				
	23	☐							23				
	24	☐							24				

BE: 2201 (1501)

Bo: 2214 (1514)

48 25.93

126 13.66

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Water Properties Group

GREY

Cruise and Analysis Information	Nisk ID	Nisk Int	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2013-58	1	☐	204	1094	190		1.545		1				
Event: 46	2	☐	205	468	175	7.9	1.694	} Temps uncertain	2				
Station: LC08	3	☐	206	2033	150	8.2	2.123		3				
Event Date (Local): 8 Sept 2013	4	☐	207	712	125	7.5	2.478		4				
Analysis Date (Local): 09 Sept 13	5	☐	208	2090	100	8.1	2.836		5				value low?
Analyst: TP	6	☐	209	510	75	8.1	4.267		6				
Stdization Date (Local): 08 Sept 13	7	☐	210	715	50	8.0	5.219		7				
KIO ₃ N: 0.0098302	8	☐	211A	2049	30	9.4	5.106		8	8611	9.4	5.096	
Standard Titer: 0.2020	9	☐	212	1053	20	11.3	6.001		9				
Blank Titer: 0.003	10	☐	213	3209	10	14.9	6.618		10				
THIO N: 0.14101	11	☐	214	3038	5	16.3	6.526		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				
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				
	22	☐							22				
	23	☐							23				
	24	☐							24				

BC 0133 (1833) Bo 0139 (1839)
48-29.37 126-07.03

Dissolved Oxygen Analysis Log Sheet

Last Updated: December 2011

Institute of Ocean Sciences
Water Properties Group

GREY

Cruise and Analysis Information	Nisk ID	Nisk Int	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2013-58	1	☐	217	2014	82	8.9	1.466	DRAW TEMP SUSPECT	1				
Event: 49	2	☐	218	621	75	8.9	1.470	CHANGED BATT AT START	2				
Station: LC06	3	☐	219	3142	56	9.3	2.212	OF CRIST FROM ORANGE	3				
Event Date (Local): 08.09.13	4	☐	220	2086	30	10.0	3.001		4				
Analysis Date (Local): 09 Sept 13	5	☐	221	631	20	13.7	5.046		5				
Analyst: PF	6	☐	222 ^A	2065	10	18.4	6.149		6	B3009	18.4	6.145	
Stdization Date (Local): 08 Sept 13	7	☐	223	2055	5	18.8	6.182		7				
KIO ₃ N: 0.0098302	8	☐							8				
Standard Titer: 0.7020	9	☐							9				
Blank Titer: 0.003	10	☐							10				
THIO N: 0.14101	11	☐							11				
Sample Flask Water Seal? Yes	12	☐							12				
No	13	☐							13				
Reagent Change? MnCl ₂	14	☐							14				
(Please circle reagent that was changed prior to sampling and standardization)	15	☐							15				
H ₂ SO ₄	16	☐							16				
NOTE NEW BATCH IN LOG BOOK	17	☐							17				
(KIO ₃)	18	☐							18				
THIO	19	☐							19				
Notes:	20	☐							20				
	21	☐							21				
	22	☐							22				
	23	☐							23				
	24	☐							24				

BC 0347 (2047)
48-36.47 125.54.07

LC07

Dissolved Oxygen Analysis Log Sheet

Last Updated: December 2011

Institute of Ocean Sciences

Water Properties Group

YELLOW

Cruise and Analysis Information	Nisk ID	Nisk Int	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2013-58	1	☐	225	3070	157	9.1	1.558	TEMP SUSPECT ↓ ✓	1				
Event: 52	2	☐	226	3076	150	9.1	1.702		2				
Station: LC04	3	☐	227	1019	125	9.3	2.006		3				
Event Date (Local): 8 Sept 2013	4	☐	228 ^A	3029	100	9.3	2.401		4	B620	9.4	2.403	analyzed B before A
Analysis Date (Local): 10 Sept 13	5	☐	229	639	75	9.7	2.835		5				
Analyst: TK	6	☐	230	632	50	10.3	2.944		6				
Stdization Date (Local): 08 Sept 13	7	☐	231	196	30	11.6	3.877		7				
KIO ₃ N: 0.0098302	8	☐	232	2040	20	13.2	5.312		8				
Standard Titer: 0.7020	9	☐	233	3121	10	17.6	6.812		9				
Blank Titer: 0.003	10	☐	234	569	5	17.8	6.808		10				235 run before 234
THIO N: 0.14101	11	☐	235	1050	0	17.9	6.879	11					
Sample Flask Water Seal? ☒ Yes	12	☐						12					
	13	☐						13					
Reagent Change? MnCl ₂	14	☐						14					
(Please circle reagent that was changed prior to sampling and standardization)	15	☐						15					
	16	☐						16					
NOTE NEW BATCH IN LOG BOOK	17	☐						17					
	18	☐						18					
Notes:	19	☐						19					
	20	☐						20					
	21	☐						21					
	22	☐						22					
	23	☐						23					
	24	☐						24					

BG: 0553 (2253)

48° 43.43 125° 40.88

Dissolved Oxygen Analysis Log Sheet

Last Updated: December 2011

Institute of Ocean Sciences

Water Properties Group

YELLOW

THERMOMETER NOT WORKING - NO SPARE
(ALL 3 BROKEN)

Cruise and Analysis Information	Nisk ID	Nisk Int	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2013-58	1	☐	237	2015	60-10	100	1.942		1				
Event: 54	2	☐	238A	2020	75		2.850		2	2016		2.860	
Station: LCO2	3	☐	239	647	50		2.875		3				
Event Date (Local): 10 Sept 13	4	☐	240	3040	30		4.487		4				
Analysis Date (Local): 10 Sept 13	5	☐	241	2032	20		4.961		5				
Analyst: TK	6	☐	242	2019	10		6.490		6				
Stdization Date (Local): 08 Sept 13	7	☐	243	6068	5		8.127		7				
KIO ₃ N: 0.0098302	8	☐							8				
Standard Titer: 0.7020	9	☐							9				
Blank Titer: 0.003	10	☐							10				
THIO N: 0.14101	11	☐							11				
Sample Flask Yes	12	☐							12				
Water Seal? No	13	☐							13				
Reagent Change? MnCl ₂	14	☐							14				
(Please circle reagent that was changed prior to sampling and standardization)	15	☐							15				
H ₂ SO ₄	16	☐							16				
NOTE NEW BATCH IN LOG BOOK	17	☐							17				
KIO ₃	18	☐							18				
THIO	19	☐							19				
Notes:	20	☐							20				
	21	☐							21				
	22	☐							22				
	23	☐							23				
	24	☐							24				

07:39
48 48.69
125 30.93

Dissolved Oxygen Analysis Log Sheet

Last Updated: December 2011

Institute of Ocean Sciences

Water Properties Group

BLUE

Cruise and Analysis Information	Nisk ID	Nisk Int	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2013-58	1	☐	250	2027	88	8.3	2.363		1				
Event: 55	2	☐	251	657	75	8.7	2.685		2				
Station: LC01	3	☐	252 ^A	3043	56	10.4	3.434		3	B3118	10.4	3.428	
Event Date (Local): 10 Sept 13	4	☐	253	3019	30	12.7	4.823		4				
Analysis Date (Local): 10 Sept 13	5	☐	254	2064	20	14.3	5.434		5				
Analyst: TF	6	☐	255	2099	10	14.3	6.417		6				
Stdization Date (Local): 08 Sept 13	7	☐	256	3119	5	14.6	7.268		7				
KIO ₃ N: 0.0098302	8	☐							8				
Standard Titer: 0.7020	9	☐							9				
Blank Titer: 0.003	10	☐							10				
THIO N: 0.14101	11	☐							11				
Sample Flask Water Seal? Yes	12	☐							12				
No	13	☐							13				
Reagent Change? MnCl ₂	14	☐							14				
(Please circle reagent that was changed prior to sampling and standardization)	15	☐							15				
H ₂ SO ₄	16	☐							16				
NOTE NEW BATCH IN LOG BOOK	17	☐							17				
KIO ₃	18	☐							18				
THIO	19	☐							19				
Notes:	20	☐							20				
	21	☐							21				
	22	☐							22				
	23	☐							23				
	24	☐							24				

08:37

48 50.47
125 27.71

Dissolved Oxygen Analysis Log Sheet

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Institute of Ocean Sciences

Water Properties Group

White

Cruise and Analysis Information	Nisk ID	Nisk Int	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2013-58	1	☐	259	2095	27	11.9	4.471		1				
Event: 56	2	☐	260	2089	20	12.0	4.649		2				
Station: LD01	3	☐	261 ^A	2087	10	14.2	6.068		3	3091	14.2	6.081	Flasks not labelled A-B before analysis so not certain of draw order
Event Date (Local): 16 Sept 13	4	☐	262	2080	5	14.8	8.217		4				
Analysis Date (Local): 10 Sept 13	5	☐							5				
Analyst: TP	6	☐							6				
Stdization Date (Local): 08 Sept 13	7	☐							7				
KIO ₃ N: 0.0098302	8	☐							8				
Standard Titer: 0.7020	9	☐							9				
Blank Titer: 0.003	10	☐							10				
THIO N: 0.14101	11	☐							11				
Sample Flask Water Seal? ☒ Yes	12	☐							12				
☐ No	13	☐							13				
Reagent Change? MnCl ₂	14	☐							14				
(Please circle reagent that was changed prior to sampling and standardization)	15	☐							15				
NaI/NaOH	16	☐							16				
H ₂ SO ₄	17	☐							17				
NOTE NEW BATCH IN LOG BOOK ☒ KIO ₃	18	☐							18				
THIO	19	☐							19				
Notes:	20	☐							20				
	21	☐							21				
	22	☐							22				
	23	☐							23				
	24	☐							24				

10:40
49 00.13
125 43.79

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences

Water Properties Group

Last Updated: December 2011

White

Cruise and Analysis Information	Nisk ID	Nisk Int	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2013-58	1	☐	264	3124	35	12.1	4.588		1				
Event: 57	2	☐	265	650	30	12.2	4.624		2				
Station: LD02	3	☐	266	2000	20	11.2	4.041		3	612	11.1	4.038	not labelled flask so not certain which drawn first
Event Date (Local): 10 Sept 13	4	☐	267	1059	10	11.6	5.032		4				
Analysis Date (Local): 10 Sept 13	5	☐	268	3109	5	14.0	7.276		5				
Analyst: TF	6	☐							6				
Stdization Date (Local): 08 Sept 13	7	☐							7				
KIO ₃ N: 0.0098302	8	☐							8				
Standard Titer: 0.7020	9	☐							9				
Blank Titer: 0.003	10	☐							10				
THIO N: 0.14101	11	☐							11				
Sample Flask Water Seal? Yes	12	☐							12				
No	13	☐							13				
Reagent Change? MnCl ₂	14	☐							14				
(Please circle reagent that was changed prior to sampling and standardization)	15	☐							15				
NaI/NaOH	16	☐							16				
H ₂ SO ₄	17	☐							17				
NOTE NEW BATCH IN LOG BOOK	18	☐							18				
KIO ₃	19	☐							19				
THIO	20	☐							20				
Notes:	21	☐							21				
	22	☐							22				
	23	☐							23				
	24	☐							24				

480 58.40
125 46.99

0423

Dissolved Oxygen Analysis Log Sheet

Last Updated: December 2011

Institute of Ocean Sciences
Water Properties Group

LIGHT BLUE LID

Cruise and Analysis Information	Nisk ID	Nisk Int	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2013-58	1	☐	369	2027	42	10.0	3.329		1				
Event: 86	2	☐	370	657	30	10.3	3.304	mid line flushed before sample	2				
Station: LG01	3	☐	371	3043	20	10.9	1.884		3	3118	10.9	2.280	1st sample of the day - forget to pump this line but see no bubbles moving in line
Event Date (Local): 10 SEPT 2013	4	☐	372	3019	10	12.5	4.712		4				
Analysis Date (Local): 11 Sept 13	5	☐	373	2064	5	14.7	6.551		5				
Analyst: Tamar	6	☐	371						6				371 B analyzed before 371 A very odd titration curve
Stdization Date (Local): 10 Sept 13	7	☐							7				
KIO ₃ N: 0.0098302	8	☐							8				
Standard Titer: 0.7020	9	☐							9				
Blank Titer: 0.0033	10	☐							10				
THIO N: 0.14107	11	☐							11				
Sample Flask Water Seal? Yes	12	☐							12				
No	13	☐							13				
Reagent Change? MnCl ₂	14	☐							14				
(Please circle reagent that was changed prior to sampling and standardization)	15	☐							15				
NaI/NaOH	16	☐							16				
H ₂ SO ₄	17	☐							17				
NOTE NEW BATCH IN LOG BOOK	18	☐							18				
THIO	19	☐							19				
Notes:	20	☐							20				
data for 371A + 371B suspect due to dosimat dosing issues OK by sample	21	☐							21				
sample 372 - checked standards run 11 Sept 13	22	☐							22				
	23	☐							23				
	24	☐							24				

BS: 2008 (1308)
49' 20.53 126' 35.05

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Last Updated: December 2011

Red

Cruise and Analysis Information	Nisk ID	Nisk Int	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2013-50	1	☐	272	2051	54	10.2	3.461		1				
Event: 60	2	☐	273	3100	30	11.2	4.208		2				
Station: L004	3	☐	274	2068	20	11.3	4.832		3	458	11.3	4.825	
Event Date (Local): 10 Sept 13	4	☐	275	2017	10	14.1	6.217		4				
Analysis Date (Local): 11 Sept 13	5	☐	276	658	5	14.7	7.000		5				
Analyst: TP	6	☐							6				
Stdization Date (Local): 08 Sept 13	7	☐							7				
KIO ₃ N: 0.0098302	8	☐							8				
Standard Titer: 0.7020	9	☐							9				
Blank Titer: 0.0033	10	☐							10				
THIO N: 0.14107	11	☐							11				
Sample Flask	12	☐							12				
Water Seal?	13	☐							13				
Reagent Change?	14	☐							14				
(Please circle reagent that was changed prior to sampling and standardization)	15	☐							15				
NOTE NEW BATCH IN LOG BOOK	16	☐							16				
	17	☐							17				
	18	☐							18				
	19	☐							19				
	20	☐							20				
	21	☐							21				
	22	☐							22				
	23	☐							23				
	24	☐							24				

13:26
48 53.11
125 56.92

Dissolved Oxygen Analysis Log Sheet

Last Updated: December 2011

Institute of Ocean Sciences
Water Properties Group

red

Cruise and Analysis Information	Nisk ID	Nisk Int	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2013-58	1	☐	278	3137	126	7.6	1.883		1				
Event: 63	2	☐	279	3126	100	7.8	2.620		2				
Station: L006	3	☐	280	3094	75	7.9	3.406		3				
Event Date (Local): 10 Sept 13	4	☐	281	3194	50	7.9	3.104		4				
Analysis Date (Local): 11 Sept 13	5	☐	282	505	30	9.8	3.827		5				
Analyst: Tamara	6	☐	283	3090	20	11.1	4.588	odd looking curve about 85% before endpoint	6				
Stdization Date (Local): 10 Sept 13	7	☐	284	1023	10	16.8	5.999	" ^	7	3000	16.9	5.996	A+B not noted on labels.
KIO ₃ N: 0.0098302	8	☐	285	2036	5	17.0	5.999		8				
Standard Titer: 0.2020	9	☐							9				
Blank Titer: 0.0033	10	☐							10				
THIO N: 0.14107	11	☐							11				
Sample Flask Water Seal? (Yes) No	12	☐							12				
	13	☐							13				
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	14	☐							14				
MnCl ₂	15	☐							15				
NaI/NaOH	16	☐							16				
H ₂ SO ₄	17	☐							17				
KIO ₃	18	☐							18				
THIO	19	☐							19				
Notes:	20	☐							20				
	21	☐							21				
	22	☐							22				
	23	☐							23				
	24	☐							24				

48 46.22
126 10.15
0830

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Last Updated: December 2011

green

Cruise and Analysis Information	Nisk ID	Nisk Int	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2138-58	1	☐	287	3084	760	6.8	0.306		1				
Event: 65-66	2	☐	288	3010	750	6.8	0.320		2				
Station: 2008	3	☐	289 ^A	2084	500	7.1	0.807		3	2035	7.3	0.809	
Event Date (Local): 10 Sept 13	4	☐	290	2069	400	7.3	1.124		4				
Analysis Date (Local): 11 Sept 13	5	☐	291	396	300	7.7	1.583		5				
Analyst: Tamaru	6	☐	292	3032	250	7.7	1.963		6				
Stdization Date (Local): 11 Sept 13	7	☐	293	3022	200	7.9	2.124	I think I put depth in put incorrectly?	7				
KIO ₃ N: 0.0098302	8	☐	294	552	175	8.0	2.324		8				
Standard Titer: 0.7020	9	☐	295	3020	150	8.1	2.572		9				
Blank Titer: 0.0033	10	☐	296	3007	125	8.2	2.941		10				
THIO N: 0.14107	11	☐	297	3104	100	8.2	3.607		11				
Sample Flask Yes	12	☐	298	708	75	8.4	3.526		12				
Water Seal? No	13	☐	299	3034	50	8.4	6.195		13				
Reagent Change? MnCl ₂	14	☐	300 ^A	3014	30	9.5	6.039		14	2059	9.5	6.022	
(Please circle reagent that was changed prior to sampling and standardization)	15	☐	301	3023	20	12.8	6.483		15				
	16	☐	302	3021	10	15.9	6.257		16				
NOTE NEW BATCH IN LOG BOOK	17	☐	303	2056	5	16.4	6.171		17				
	18	☐							18				
Notes:	19	☐							19				
	20	☐							20				
	21	☐							21				
	22	☐							22				
	23	☐							23				
	24	☐							24				

18:33
40 39.18
126 23.34

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Last Updated: December 2011

BROWN

Cruise and Analysis Information	Nisk ID	Nisk Int	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2013-58	1	☐	305	3151	1596	5.6	0.839		1				leaky spigot
Event: 72	2	☐	306	3207	1500	5.5	0.826		2				
Station: LD11	3	☐	307	3187 ^A	1250	5.7	0.395		3	3193 ^B	6.0	0.363	very irregular titration endpoint
Event Date (Local): 10 SEPT 13	4	☐	308	3186	1000	6.1	0.246		4				
Analysis Date (Local): 11 Sept 13	5	☐	309	3189	750	6.5	0.249		5				
Analyst: Tamara	6	☐	310	3191	500	6.9	0.663		6				
Stdization Date (Local): 11 Sept 13	7	☐	311	3188	400	7.2	1.076		7				
KIO ₃ N: 0.0098302	8	☐	312	3184	300	7.5	1.490		8				
Standard Titer: 0.7020	9	☐	313	3198	250	7.5	2.170		9				
Blank Titer: 0.0033	10	☐	314	3182	200	7.9	2.255		10				
THIO N: 0.14107	11	☐	315	3177	175	8.1	2.536		11				
Sample Flask Water Seal? ☒ Yes	12	☐	316	3178	150	8.3	3.227		12				
	13	☐	317	3166 ^A	125	8.2	3.838		13	3160 ^B	8.5	3.844	
Reagent Change? ☒ MnCl ₂	14	☐	318	3171	100	8.1	4.633		14				
(Please circle reagent that was changed prior to sampling and standardization)	15	☐	319	3157	75	8.2	5.658		15				
☒ NaI/NaOH	16	☐	320	3200	50	9.2	6.500		16				
☒ H ₂ SO ₄	17	☐	321	3201	30	13.1	6.487		17				
NOTE NEW BATCH IN LOG BOOK	18	☐	322	3206	20	18.0	5.723		18				
	19	☐	323	3204	10	18.2	5.712		19				
Notes:	20	☐	324	3181	5	18.2	5.717		20				
	21	☐							21				
	22	☐							22				
	23	☐							23				
	24	☐							24				

BE: 281.9 (1619)
48° 28.76
126° 42.95

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Last Updated: December 2011

RED
SILVER L.O

did not record
temp in log sheet -
photos were
2,049

Cruise and Analysis Information	Nisk ID	Nisk Int	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2013-58	1	☐	331	1094	964	5.3	0.252		1				
Event: 79	2	☐	332	468	750	5.8	0.257	label samp "bot-10" for depth	2				
Station: LG06	3	☐	333	2033	500	6.2	0.759		3	712	6.4	0.765	A+B not marked
Event Date (Local): 10 Sept 2013	4	☐	334	2090	400	6.5	1.141		4				
Analysis Date (Local): 12 Sept 13	5	☐	335	510	300	7.0	1.621		5				
Analyst: Tamara	6	☐	336	715	250	7.3	1.832		6				
Stdization Date (Local): 11 Sept 13	7	☐	337	2049	200	7.8	2.374		7				
KIO ₃ N: 0.0098302	8	☐	338	611	175	7.9	2.717		8				
Standard Titer: 0.7020	9	☐	339	1053	150	8.3	3.180		9				
Blank Titer: 0.0033	10	☐	340	3209	125	8.3	3.485		10				
THIO N: 0.14107	11	☐	341	3038	100	8.3	4.219		11				
Sample Flask Water Seal? (yes) No	12	☐	342	3111	75	8.3	4.978		12				
	13	☐	343	2014	50	8.7	5.628		13				
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	14	☐	344	621	30	10.3	5.841		14	3142	10.5	5.837	A+B not marked
MnCl ₂	15	☐	345	2086	20	14.9	6.317		15				
NaI/NaOH	16	☐	346	631	10	15.0	6.160	misentered as sample 345, bottle 2086	16				depth 20 - should have been 346 631 10
H ₂ SO ₄	17	☐	347	2065	5	15.1	6.445		17				
KIO ₃	18	☐	348	3009	max				18				bottle not triggered
THIO	19	☐							19				
Notes:	20	☐							20				
	21	☐							21				
	22	☐							22				
	23	☐							23				
	24	☐							24				

0.852 = 252 x 0.049
0.052
0.238

0.052
0.049
252
0.049

0.052
0.049
252

0.052 = 252 x 0.049
0.052

14:19
49 03 51
127 01 17

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

WHITE LID BOX

Last Updated: December 2011

Cruise and Analysis Information	Nisk ID	Nisk Int	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2013 58	1	☐	349	2095	136	7.6	1.248		1				
Event: 81	2	☐	350	2089	125	7.5	1.376		2				
Station: LG04	3	☐	351	2087	100	7.7	1.747		3	2091	7.7	1.733	
Event Date (Local): 10 Sept 2013	4	☐	352	2080	75	8.0	2.308		4				
Analysis Date (Local): 12 Sept 13	5	☐	353	3061	50	8.3	2.492		5				
Analyst: Jamaro	6	☐	354	3124	30	10.7	3.776		6				
Stdization Date (Local): 11 Sept 13	7	☐	355	650	20	12.4	4.654		7				
KIO ₃ N: 0.0098302	8	☐	356	2000	10	15.1	6.920		8				
Standard Titer: 0.7020	9	☐	357	612	5	15.3	7.262		9				
Blank Titer: 0.0033	10	☐							10				
THIO N: 0.14107	11	☐							11				
Sample Flask Water Seal? ☒ Yes	12	☐							12				
☐ No	13	☐							13				
Reagent Change? ☒ MnCl ₂	14	☐							14				
(Please circle reagent that was changed prior to sampling and standardization)	15	☐							15				
☒ NaI/NaOH	16	☐							16				
☒ H ₂ SO ₄	17	☐							17				
NOTE NEW BATCH IN LOG BOOK	18	☐							18				
	19	☐							19				
Notes:	20	☐							20				
	21	☐							21				
	22	☐							22				
	23	☐							23				
	24	☐							24				

16:47

49 11:30
126 49:37

Dissolved Oxygen Analysis Log Sheet

Last Updated: December 2011

Institute of Ocean Sciences
Water Properties Group

WHITE LID BOX

Cruise and Analysis Information	Nisk ID	Nisk Int	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2013 - 58	1	☐	359	1002	90	8.0	1.328		1				
Event: 84	2	☐	360	1055	75	8.3	1.814		2				
Station: LG02	3	☐	361	3116	50	9.7	3.165		3	2047	9.7	3.171	
Event Date (Local): 10 Sept 2013	4	☐	362	94	30	10.7	3.868		4				
Analysis Date (Local): 12 Sept 13	5	☐	363	2060	20	11.3	4.070		5				
Analyst: Tamaru	6	☐	364	570	10	13.1	6.238		6				
Stdization Date (Local): 11 Sept 13	7	☐	365	1015	5	13.7	6.848		7				
KIO ₃ N: 0.0098302	8	☐							8				
Standard Titer: 0.7020	9	☐							9				
Blank Titer: 0.0033	10	☐							10				
THIO N: 0.14107	11	☐							11				
Sample Flask Water Seal? Yes	12	☐							12				
No	13	☐							13				
Reagent Change? MnCl ₂	14	☐							14				
(Please circle reagent that was changed prior to sampling and standardization)	15	☐							15				
NaI/NaOH	16	☐							16				
H ₂ SO ₄	17	☐							17				
NOTE NEW BATCH IN LOG BOOK	18	☐							18				
KIO ₃	19	☐							19				
THIO	20	☐							20				
Notes:	21	☐							21				
	22	☐							22				
	23	☐							23				
	24	☐							24				

BE: 1905 (1205)
49°18' 75"
126°38.09'

Dissolved Oxygen Analysis Log Sheet

Last Updated: December 2011

Institute of Ocean Sciences
Water Properties Group

YELLOW
→ flask

Cruise and Analysis Information	Nisk ID	Nisk Int	Sample ID	Flask ID	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2013-58	1	☐	374	2214	3070	3.5	1.623		1				
Event: 91	2	☐	375 ^A	2060	3076	3.5	1.431		2	B 1019	3.5	1.448	
Station: LBPT	3	☐	376	1500	620	3.9	0.208		3				
Event Date (Local): 11 Sept 13	4	☐	377	1250	3209	4.5	0.396		4				
Analysis Date (Local): 12 Sept 13	5	☐	378	1000	639	5.0	0.248		5				
Analyst: Jannick	6	☐	379	750	632	5.6	0.261		6				
Stdization Date (Local): 11 Sept 13	7	☐	380	500	196	6.2	0.641		7				
KIO ₃ N: 0.0098302	8	☐	381 ^B	400	2040	6.4	1.123		8	B 3121	6.5	1.134	
Standard Titer: 0.2020	9	☐	382	300	569	6.8	1.857		9				
Blank Titer: 0.0033	10	☐	383	250	1030	7.1	2.406		10				
THIO N: 0.14107	11	☐	384	200	1034	7.5	2.782		11				
Sample Flask Water Seal? ☒ Yes	12	☐	385	175	2015	7.7	2.913		12				
	13	☐	386	150	2020	7.9	3.171		13				
Reagent Change? ☒ MnCl ₂	14	☐	387	125	2016	8.1	3.528		14				
(Please circle reagent that was changed prior to sampling and standardization)	15	☐	388	100	647	8.1	4.025		15				
☒ NaI/NaOH	16	☐	389	75	3040	8.2	4.740		16				
☒ H ₂ SO ₄	17	☐	390 ^A	50	2032	8.6	5.633		17	B 2019	8.7	5.625	
NOTE NEW BATCH IN LOG BOOK	18	☐	391	30	668	10.2	4.870		18				
	19	☐	392	20	745	16.8	5.833		19				
Notes:	20	☐	393	10	2043	17.3	5.792		20				
	21	☐	394	5	690	17.3	5.787		21				
	22	☐							22				
	23	☐							23				
	24	☐							24				

0741
49° 52.38
128° 11.19

Dissolved Oxygen Analysis Log Sheet

Last Updated: December 2011

Institute of Ocean Sciences
Water Properties Group

light blue ?

Cruise and Analysis Information	Nisk ID	Nisk Int	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2013-58	1	☐	396	657	1282	4.5	0.523		1				
Event: 94	2	☐	397	2027	1250	4.4	0.489		2				
Station: LBPS	3	☐	398	3043	1000	4.8	0.357		3				
Event Date (Local): 11 Sept 13	4	☐	399	3118 ^A	750	5.6	0.324		4	2075 ^B	5.6	0.301	
Analysis Date (Local): 12 Sept 13	5	☐	400	528	500	6.4	0.890		5				
Analyst: Tomer	6	☐	401	2099	400	6.7	1.166		6				
Stdization Date (Local): 11 Sept 13	7	☐	402	3119	300	7.0	1.526	could you pls check EP? zoomed window too much	7				
KIO ₃ N: 0.0098302	8	☐	403	2063	250	7.2	1.936		8				
Standard Titer: 0.7020	9	☐	404	2097	200	7.3	1.557		9				
Blank Titer: 0.0033	10	☐	405	2061	175	7.4	1.897		10				
THIO N: 0.14108	11	☐	406	2073	150	7.6		must have been asleep - removed probe before EP reached - no data	11				
Sample Flask Water Seal? ☒ Yes	12	☐	407	471 ^A	125	7.8	2.917		12	622 ^B	7.8	2.931	Bubbles, redraw
	13	☐	408	2092	100	7.9	3.336		13				
Reagent Change? ☒ MnCl ₂	14	☐	409	3135	75	8.1	3.716		14				
(Please circle reagent that was changed prior to sampling and standardization)	15	☐	410	557	50	8.1	4.703		15				
☒ NaI/NaOH	16	☐	411	3164	30	8.5	3.773		16				
☒ H ₂ SO ₄	17	☐	412	371	20	10.0	3.596		17				
NOTE NEW BATCH IN LOG BOOK	18	☐	413	638	10	11.5	4.261		18				
	19	☐	414	2007 ^A	5	14.6	6.275		19	3067 ^B	14.7	6.283	
Notes:	20	☐							20				
	21	☐							21				
	22	☐							22				
	23	☐							23				
	24	☐							24				

11:55
49° 59.94
128° 00.03

Dissolved Oxygen Analysis Log Sheet

Last Updated: December 2011

Institute of Ocean Sciences

Water Properties Group

RED LID

Cruise and Analysis Information	Nisk ID	Nisk Int	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2013-58	1	☐	416	2051	157	7.5	1.754		1				
Event: 97	2	☐	417	3100	150	7.5	1.797		2				
Station: LBP3	3	☐	418	2868	125	7.6	1.503		3	458 ^b	7.6	1.479	
Event Date (Local): 11 Sept 2013	4	☐	419	2817	100	7.7	2.074		4				
Analysis Date (Local): 12 Sept 13	5	☐	420	658	75	8.0	2.720	bubbles in chemical redo	5				
Analyst: Samark	6	☐	421	3013	50	8.1	3.154		6				
Stdization Date (Local): 11 Sept 13	7	☐	422	3137	30	9.6	4.162		7				
KIO ₃ N: 0.0098302	8	☐	423	3126	20	10.3	4.831		8				
Standard Titer: 0.7020	9	☐	424	3094	10	12.9	5.534		9				
Blank Titer: 0.0033	10	☐	425	3194	5	15.9	7.217		10				
THIO N: 0.14107	11	☐							11				
Sample Flask	12	☐							12				
Water Seal? No	13	☐							13				
Reagent Change? MnCl ₂	14	☐							14				
(Please circle reagent that was changed prior to sampling and standardization)	15	☐							15				
	16	☐							16				
	17	☐							17				
	18	☐							18				
NOTE NEW BATCH IN LOG BOOK	19	☐							19				
	20	☐							20				
	21	☐							21				
	22	☐							22				
	23	☐							23				
	24	☐							24				

Notes:

BE: 1513 (0813)

50.03 20

127.55 30

Dissolved Oxygen Analysis Log Sheet

Last Updated: December 2011

Institute of Ocean Sciences

Water Properties Group

GREEN LED

Cruise and Analysis Information	Nisk ID	Nisk Int	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 203-58	1	☐	455	3084	1884	3.5	1.342		1				
Event: 113	2	☐	456	3010	1250	4.5	0.381		2				spigot
Station: C502	3	☐	457	2084	1000	5.1	0.241		3				
Event Date (Local): 12 Sept 2013	4	☐	458	2035	750	5.7	0.350		4				
Analysis Date (Local): 12 Sept 13	5	☐	459	2069 ^A	500	6.3	0.772		5	396 ^B	6.3	0.736	spigot drips
Analyst: Tamara	6	☐	460	3032	400	6.5	1.191		6				
Stdization Date (Local): 11 Sept 13	7	☐	461	3022	300	6.8	1.678		7				
KIO ₃ N: 0.0098302	8	☐	462	552	250	7.0	1.983		8				
Standard Titer: 0.7020	9	☐	463	3020	200	7.4	2.614		9				
Blank Titer: 0.0033	10	☐	464	3007	175	7.6	2.810		10				bubbles rebo
THIO N: 0.14107	11	☐	465	3104	150	7.8	2.992		11				
Sample Flask Water Seal? (Yes) No	12	☐	466	708 ^A	125	8.1	3.275		12	3054 ^B	8.2	3.278	small bubbles inside flask around bottom of stopper
	13	☐	467	304	100	8.1	3.388		13				
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization)	14	☐	468	2059	75	8.2	4.965		14				
MnCl ₂	15	☐	469	3023	50	8.9	5.551		15				
NaI/NaOH	16	☐	470	2056	30	11.9	6.104		16				
H ₂ SO ₄	17	☐	471	3021	20	16.1	6.020		17				
NOTE NEW BATCH IN LOG BOOK	18	☐	472	3028	10	16.8	6.016		18				
KIO ₃	19	☐	473	3037	5	16.9	6.030		19				
THIO	20	☐							20				
Notes: GREEN LED	21	☐							21				
	22	☐							22				
	23	☐							23				
	24	☐							24				

BO 1570 (0A40)

50 41.25

129 27.00

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Last Updated: December 2011

BROWN

Cruise and Analysis Information	Nisk ID	Nisk Int	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2013-58	1	☐	432	3151	2000	3.6	1.284		1				
Event: 109	2	☐	433	3207	1500	4.0	0.615		2				
Station: C500	3	☐	434	3187	1250	4.4	0.367		3				
Event Date (Local): 13 Sept 13	4	☐	435	3193	1000	4.9	0.257		4				
Analysis Date (Local): 13 Sept 13	5	☐	436 ^A	3196	750	5.5	0.304		5	^B 3189	5.6	0.301	leaky spigot
Analyst: Tamara + Melissa	6	☐	437	3191	500	6.1	0.602		6				
Stdization Date (Local): 13 Sept 13	7	☐	438	3188	400	6.4	0.940		7				
KIO ₃ N: 0.0098302	8	☐	439	3184	300	6.7	1.613	bubbles, re-draw	8				
Standard Titer: 0.7025	9	☐	440	3198	250	7.0	1.853		9				
Blank Titer: 0.0047	10	☐	441	3182	200	7.4	2.463		10				
THIO N: 0.14126	11	☐	442	3177	175	7.6	2.836		11				
Sample Flask Water Seal? ☒ Yes	12	☐	443	3178	150	7.9	3.133	Spigot open	12				
	13	☐	444 ^A	3166	125	8.0	3.356		13	^B 3160	8.1	3.343	
Reagent Change? ^{none} MnCl ₂	14	☐	445	3171	100	8.1	3.325		14				
(Please circle reagent that was changed prior to sampling and standardization)	15	☐	446	3157	75	8.3	4.104		15				
	16	☐	447	3200	50	9.5	3.546		16				
NOTE NEW BATCH IN LOG BOOK	17	☐	448	3201	30	11.1	4.019		17				
	18	☐	449	3206	20	13.3	5.077		18				
Notes:	19	☐	430 ^A	3204	10	15.9	6.092		19	^B 3181	16.0	6.092	
	20	☐	451	3174	5	17.0	6.113		20				
	21	☐							21				
	22	☐							22				
	23	☐							23				
	24	☐							24				

09:35 (0235)
50° 27.65
129° 55.10

Dissolved Oxygen Analysis Log Sheet

WHITE LID

Last Updated: December 2011

Institute of Ocean Sciences
Water Properties Group

Cruise and Analysis Information	Nisk ID	Nisk Int	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2013-58	1	☐	475	2095	92	8.4	2.813		1				
Event: 118	2	☐	476	2089	75	8.6	3.184		2				
Station: CS04	3	☐	477	2087	50	11.7	4.653		3				
Event Date (Local): 12 Sept 2013	4	☐	478	2091 ^A	30	12.8	5.174		4	2080 ^B	12.8	5.176	
Analysis Date (Local): 13 Sept 13	5	☐	479	3061	20	13.1	5.338		5				Bad vent leak
Analyst: Tamara	6	☐	480	3124	10	13.5	5.567		6				
Stdization Date (Local): 13 Sept 13	7	☐	481	1650	5	14.1	5.897		7				yucky curve
KIO ₃ N: 0.0098302	8	☐							8				
Standard Titer: 0.7025	9	☐							9				
Blank Titer: 0.0047	10	☐							10				
THIO N: 0.14126	11	☐							11				
Sample Flask Water Seal? ☒ Yes	12	☐							12				
☐ No	13	☐							13				
Reagent Change? ☒ none	14	☐							14				
(Please circle reagent that was changed prior to sampling and standardization)	15	☐							15				
NOTE NEW BATCH IN LOG BOOK	16	☐							16				
MnCl ₂	17	☐							17				
NaI/NaOH	18	☐							18				
H ₂ SO ₄	19	☐							19				
KIO ₃	20	☐							20				
THIO	21	☐							21				
Notes:	22	☐							22				
	23	☐							23				
	24	☐							24				

Be 2015 (1315)
50.49.15
129.12.95

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

WHITE

Last Updated: December 2011

Cruise and Analysis Information	Nisk ID	Nisk Int	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2013-58	1	☐	485	612	56	8.6	3.153		1				
Event: 129	2	☐	486 ^A	1059	50	8.5	3.138		2	B3109	8.5	3.132	
Station: C506	3	☐	487	1035	30	10.2	4.253		3				
Event Date (Local): 13 Sept 13	4	☐	488	1002	20	11.7	4.951		4				
Analysis Date (Local): 13 Sept 13	5	☐	489	1055	10	14.8	6.305		5				
Analyst: Tamara	6	☐	490	3116	5	14.9	6.338		6				
Stdization Date (Local): 13 Sept 13	7	☐							7				
KIO ₃ N: 0.0098302	8	☐							8				
Standard Titer: 0.7025	9	☐							9				
Blank Titer: 0.0047	10	☐							10				
THIO N: 0.14126	11	☐							11				
Sample Flask (Yes)	12	☐							12				
Water Seal? (No)	13	☐							13				
Reagent Change? none 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				
	17	☐							17				
	18	☐							18				
	19	☐							19				
	20	☐							20				
	21	☐							21				
	22	☐							22				
	23	☐							23				
	24	☐							24				

12:04 C0504)
50° 59.96
128° 51.75

Dissolved Oxygen Analysis Log Sheet

Last Updated: December 2011

Institute of Ocean Sciences
Water Properties Group

Blue Lid

Cruise and Analysis Information	Nisk ID	Nisk Int	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2013-58	1	☐	492	657	184	7.1	1.556		1				
Event: 135	2	☐	493	2027	175	7.1	1.557		2				
Station: CS09	3	☐	494	3043	150	7.1	1.653		3				
Event Date (Local): 13SEP13	4	☐	495	3118	125	7.3	2.112		4				
Analysis Date (Local): 14SEP13	5	☐	496	2075	100	✓	2.425		5				thermometer died
Analyst: Mark Bullen	6	☐	497	528	75	8.3	7.973		6				
Stdization Date (Local): 13SEP13	7	☐	498	2099	50	8.8	3.610		7	3119 ^B	✓	3.604	
KIO ₃ N: 0.0098357	8	☐	499	2063	30	10.2	4.258		8				
Standard Titer: 0.7025	9	☐	500	2097	20	11.3	4.763		9				
Blank Titer: 0.0047	10	☐	501	2061	10	14.0	6.069		10				
THIO N: 0.14126	11	☐	502	2073	5	15.0	6.359		11				
Sample Flask	12	☐							12				
Water Seal?	13	☐							13				
Reagent Change?	14	☐							14				
(Please circle reagent that was changed prior to sampling and standardization)	15	☐							15				
NOTE NEW BATCH IN LOG BOOK	16	☐							16				
	17	☐							17				
	18	☐							18				
	19	☐							19				
	20	☐							20				
	21	☐							21				
	22	☐							22				
	23	☐							23				
	24	☐							24				

UTC → 15:18
Lat. 51° 12.49
Lon. 128° 27.93