

Sgt Chandler

29 Sep - 06 Oct

Chlorophyll Data Sheet

20ml: 161A

193A

Cruise: 2015-19

Page: 1 of 3

Dates of Cruise:

Time and date acetone added: 11:39 am 07 Oct 15

Analyst: Tamara

Time and date out of freezer: 9:50 am 08 Oct 15

Time analysis started: 11 a.m. 08 Oct 15

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	-0.019			
STD			LOW	2-	12.090			
STD			HIGH	4-	65.936			
Blank				6-	-0.000	8-	-0.003	
23B	59	332	10	1-	55.668	2-	31.806	
95B	65		10	3-	61.147	4-	36.360	
20B	59		10	5-	8.808	6-	5.471	
116A	62		10	7-	67.220	8-	40.007	
8A	SI		10	1-	113.842	2-	63.409	
158B	42		10	3-	76.441	4-	45.728	
6B	SI		10	5-	13.128	6-	9.035	
161A	42		20	7-	59.094	8-	34.526	
74B	69		10	1-	49.768	2-	28.602	
143A	46		10	3-	51.471	4-	31.724	
52B	75		10	5-	174.764	6-	95.045	
175B	39		10	7-	40.538	8-	27.037	
65A	72		10	1-	77.856	2-	43.264	
193A	27		20	3-	183.017	4-	103.801	
22B	59		10	5-	61.375	6-	35.712	
203B	16		10	7-	53.061	8-	31.911	
76A	69		10	1-	52.697	2-	30.095	
191A	27		10	3-	12.459	4-	9.676	
106B	63		10	5-	61.229	6-	38.170	
202B	16		10	7-	44.101	8-	27.305	
77B	69		10	1-	48.559	2-	27.800	
159A	42		10	3-	96.034	4-	59.008	
49B	75		10	5-	43.973	6-	25.500	
77A	69		10	7-	67.783	8-	27.754	
87A	ADCP		10	1	70.983	2	40.765	
145A	46		10	3	145.111	4	83.282	
Stand-by				1-				
Std	Low			2-				
Std	High			4-				
Blank	by			6-		8-		
95A	65		10	5	57.000	6	34.382	
158A	42		10	7	75.164	8	44.306	

Spt Chandler

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20ml: 161A
193A

Cruise: 2015-19

Page: 1 of 3

Dates of Cruise:

Time and date acetone added: 11:39 am 07 Oct 15

Analyst: Tamara

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Time analysis started: 11 a.m. 08 Oct 15

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	-0.019			
STD			LOW	2-	12.090			
STD			HIGH	4-	65.936			
Blank				6-	-0.000	8-	-0.023	
23B	59	332	10	1-	55.668	2-	31.806	
95B	65		10	3-	61.147	4-	36.360	
20B	59		10	5-	8.808	6-	5.471	
116A	62		10	7-	67.220	8-	40.007	
8A	SI		10	1-	113.842	2-	63.409	
158B	42		10	3-	76.441	4-	45.728	
6B	SI		10	5-	13.128	6-	9.035	
161A	42		20	7-	59.094	8-	34.526	
74B	69		10	1-	49.768	2-	28.602	
143A	46		10	3-	51.471	4-	31.724	
52B	75		10	5-	174.764	6-	95.045	
175B	39		10	7-	40.538	8-	27.037	
65A	72		10	1-	77.856	2-	43.264	
193A	27		20	3-	183.017	4-	103.801	
22B	59		10	5-	61.375	6-	35.712	
203B	16		10	7-	53.061	8-	31.911	
76A	69		10	1-	52.697	2-	30.095	
191A	27		10	3-	12.459	4-	9.676	
106B	63		10	5-	61.229	6-	38.170	
202B	16		10	7-	44.101	8-	27.305	
77B	69		10	1-	48.559	2-	27.800	
159A	42		10	3-	96.034	4-	59.008	
49B	75		10	5-	43.973	6-	25.500	
77A	69		10	7-	67.283	8-	27.754	
87A	ADCP		10	1	70.983	2	40.765	
145A	46		10	3	145.111	4	83.282	
Stand-by				1-				
Std	Low			2-				
Std	High			4-				
Blank	by			6-		8-		
95A	65		10	5	57.000	6	34.382	
158A	42		10	7	75.164	8	44.306	

23 CHL Stn 59 2015-19 Bot 14 E	95B CHL 65 2015-19 Bot 8	20 CHL Stn 59 2015-19 Bot 11 B	116A CHL 62 2015-19 Bot 8	8A CHL Stn SI 2015-19 Bot 8	158B CHL 42 2015-19 Bot 13	6B CHL Stn SI 2015-19 Bot 6	161 CHL 42 2015-19 Bot 16
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74 CHL Stn 69 2015-19 Bot 9	143 CHL 46 2015-19 Bot 10	B 52 CHL Stn 75 2015-19 Bot 14	175B CHL 39 2015-19 Bot 14	65 CHL Stn 72 2015-19 Bot 13 A	193A CHL 27 2015-19 Bot 15	22 CHL Stn 59 2015-19 Bot 13 B	203 CHL 16 2015-19 Bot 9
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76 CHL Stn 69 2015-19 Bot 10	191A CHL 27 2015-19 Bot 13	106B CHL 63 2015-19 Bot 9	202B CHL 16 2015-19 Bot 8	B 77 CHL Stn 69 2015-19 Bot 12	A 159 CHL 42 2015-19 Bot 14	49B CHL Stn 75 2015-19 Bot 11	A 77 CHL Stn 69 2015-19 Bot 12
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87 CHL Stn adcp 2015-19 Bot 10 A	145 CHL 46 2015-19 Bot 12	95A CHL 65 2015-19 Bot 8	158A CHL 42 2015-19 Bot 13
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Chlorophyll Data Sheet

Cruise: 2015-19

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20ml : 9B
9B have filter holder grid
or it - vacuum filter
too long?

Dates of Cruise:

Time and date acetone added: 12:55pm 07 Oct 15

Analyst: Tamara

Time and date out of freezer: 11:00am 08 Oct 15

Time analysis started: 12:20pm 08 Oct 15

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	-0.020			
STD			LOW	2-	12.135			
STD			HIGH	4-	65.469			
Blank				6-	0.006	8-	0.003	
9A	SI	332	10	1-	81.791	2-	45.092	DF=2.3 5ml 215
23A	59		10	3-	51.779	4-	29.966	
62B	72		10	5-	71.770	6-	40.012	
87B	ADCP		10	7-	69.177	8-	40.087	
51A	75		10	1-	116.702	2-	64.256	
131A	56		10	3-	72.347	4-	41.198	
64B	72		10	5-	67.467	6-	37.590	
117A	62		10	7-	57.248	8-	34.634	
9B	SI		20	1-	110.773	2-	60.420	
192A	27		10	3-	68.602	4-	46.614	
74A	69		10	5-	45.282	6-	26.075	
116B	62		10	7-	65.075	8-	39.670	
97B	65		10	1-	61.989	2-	36.856	
130B	56		10	3-	39.116	4-	23.765	
35B	102		10	5-	141.919	6-	76.702	
205A	16		10	7-	54.357	8-	32.398	
37A	102		10	1-	148.595	2-	80.339	DF=2
85A	ADCP		10	3-	61.037	4-	35.686	
119B	62		10	5-	50.727	6-	29.978	
176A	39		10	7-	66.563	8-	41.956	
62A	72		10	1-	65.797	2-	37.070	
142B	46		10	3-	47.769	4-	28.050	
38B	102		10	5-	152.492	6-	82.460	DF=2
105B	63		10	7-	55.747	8-	35.340	
94B	65		10	1	51.945	2	31.519	
108B	63		10	3	54.714	4	34.683	
Stand-by				1-				
Std	Low			2-				
Std	High			4-				
Blank	by			6-		8-		
133B	56		10	5	75.139	6	42.557	
159B	42		10	7	93.205	8	56.572	

20ml 267B
269B-A 266A

9 A	23	62	87	51 A	131 A	64	117 A
CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL
Stn SI	Stn 59	Stn 72	Stn adcp	Stn 75	56	Stn 72	62
2015-19	2015-19	2015-19	2015-19	2015-19	2015-19	2015-19	2015-19
Bot 9	Bot 14 A	Bot 10 B	Bot 10 B	Bot 12 12	Bot 12	Bot 12 B	Bot 9

9 B	192 A	74 A	116 B	97 B	130 B	35 B	205 B
CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL
Stn SI	27	Stn 69	62	65	56	Stn 102	16
2015-19	2015-19	2015-19	2015-19	2015-19	2015-19	2015-19	2015-19
Bot 9	Bot 14	Bot 9	Bot 8	Bot 10	Bot 11	Bot 11	Bot 11

37 A	85	119 B	176 A	62	142 B	38 B	105 B
CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL
Stn 102	Stn adcp	62	39	Stn 72	46	Stn 102	63
2015-19	2015-19	2015-19	2015-19	2015-19	2015-19	2015-19	2015-19
Bot 13	Bot 8 A	Bot 11	Bot 15	Bot 10 A	Bot 9	Bot 14	Bot 8

94 B	108 B	133 B	159 B
CHL	CHL	CHL	CHL
65	63	56	42
2015-19	2015-19	2015-19	2015-19
Bot 7	Bot 11	Bot 14	Bot 14

Chlorophyll Data Sheet

Cruise: 2015-19

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Dates of Cruise:

Time and date acetone added: 4:15pm 07 Oct 15

Analyst: Tamar

Time and date out of freezer: 3:30pm 08 Oct 15

Time analysis started: 4:40 pm 08 Oct 15

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	-0.019			
STD			LOW	2-	12.120			
STD			HIGH	4-	65.865			
Blank				6-	0.003	8-	0.000	
20A	59	332	10	1-	45.045	2-	26.550	
133A	56		10	3-	78.074	4-	44.030	
94A	65		10	5-	54.410	6-	33.139	
191B	27		10	7-	11.923	8-	9.022	
22A	59		10	1-	63.970	2-	36.427	
130A	56		10	3-	40.013	4-	24.107	
106A	63		10	5-	60.366	6-	37.761	
178B	39		10	7-	80.833	8-	48.284	
52A	75		10	1-	176.965	2-	96.928	
193B	27		10	3-	187.001	4-	107.226	DF=2
119A	62		10	5-	49.870	6-	29.585	
161B	42		10	7-	109.777	8-	65.121	
49A	75		10	1-	51.536	2-	29.923	
203A	16		10	3-	50.923	4-	30.310	
8B	51		10	5-	112.788	6-	62.586	
220B	14		10	7-	93.755	8-	55.320	
64A	72		10	1-	62.964	2-	35.146	
217B	14		10	3-	85.964	4-	53.365	
51B	75		10	5-	120.474	6-	67.938	
175A	39		10	7-	38.805	8-	24.870	
76B	69		10	1-	54.182	2-	30.949	
176B	39		10	3-	65.385	4-	40.727	
37B	102		10	5-	156.568	6-	83.870	DF=2
142A	46		10	7-	47.163	8-	28.290	
35A	102		10	1	147.508	2	80.426	
178A	39		10	3	79.173	4	48.225	
Stand-by				1-	-0.011			
Std	Low			2-	12.120			
Std	High			4-	65.709			
Blank	by			6-	0.010	8-	0.005	
108A	63		10	5	60.245	6	37.631	
205B	16		10	7	54.983	8	32.673	

20
CHL
Stn 59
2015-19
Bot 11
A

133A
CHL
56
2015-19
Bot 14

94A
CHL
65
2015-19
Bot 7

191B
CHL
27
2015-19
Bot 13

22
CHL
Stn 59
2015-19
Bot 13
A

130A
CHL
56
2015-19
Bot 11

106A
CHL
63
2015-19
Bot 9

178B
CHL
39
2015-19
Bot 17

A 52
CHL
Stn 75
2015-19
Bot 14

193B
CHL
27
2015-19
Bot 15
15

119A
CHL
62
2015-19
Bot 11

161B
CHL
42
2015-19
Bot 16

49A
CHL
Stn 75
2015-19
Bot 11

203A
CHL
16
2015-19
Bot 9

8B
CHL
Stn SI
2015-19
Bot 8

220B
CHL
14
2015-19
Bot 15

64
CHL
Stn 72
2015-19
Bot 12
A

217B
CHL
14
2015-19
Bot 12

51B
CHL
Stn 75
2015-19
Bot 13
12

175A
CHL
39
2015-19
Bot 14

76B
CHL
Stn 69
2015-19
Bot 10

176B
CHL
39
2015-19
Bot 15

37B
CHL
Stn 102
2015-19
Bot 13

142A
CHL
46
2015-19
Bot 9

35A
CHL
Stn 102
2015-19
Bot 11

178A
CHL
39
2015-19
Bot 17

108A
CHL
63
2015-19
Bot 11

205C
CHL
16
2015-19
Bot 11

Chlorophyll Data Sheet

Sea/Oct Chandler

Cruise:

Page: 1 of 2

Dates of Cruise: 2015-19

Time and date acetone added: 1140am 08Oct15

Analyst: Tamara

Time and date out of freezer: 10am 09Oct15

Time analysis started: 1pm - forgot to turn on

fluorometer 50 samples sat for an hour past noon

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	-0.018			
STD			LOW	2-	12.190			
STD			HIGH	4-	66.005			
Blank				6-	0.013	8-	0.011	
38A	102	382	10	1-	154.432	2-	82.719	DF=2
117B	62		10	3-	55.856	4-	34.126	
131B	56		10	5-	70.728	6-	40.755	
202A	16		10	7-	43.879	8-	26.398	
6A	51		10	1-	12.845	2-	8.825	
143B	46		10	3-	47.799	4-	28.934	
66B	72		10	5-	92.704	6-	51.694	
84A	ADCP		10	7-	53.605	8-	32.918	
84B	ADCP		10	1-	48.185	2-	29.581	
105A	63		10	3-	57.170	4-	36.751	
97A	65		10	5-	56.184	6-	33.409	
145B	46		10	7-	141.781	8-	81.530	
85B	ADCP		10	1-	55.660	2-	33.252	
218A	14		10	3-	89.259	4-	53.485	
192B	27		10	5-	87.337	6-	63.744	
220A	14		10	7-	92.704	8-	55.248	
300B	2		10	1-	121.454	2-	70.502	
218B	14		10	3-	90.769	4-	55.333	
283B	3		10	5-	18.280	6-	13.556	
245B	9		10	7-	76.559	8-	48.246	
283A	3		10	1-	43.443	2-	28.106	DF=2
266B	BS11		10	3-	154.746	4-	84.432	DF=2
234B	12		10	5-	34.720	6-	23.066	
297B	2		10	7-	28.304	8-	18.989	
245A	9		10	1	81.443	2	51.752	
285B	3		10	3	88.366	4	52.054	
Stand-by				1-				
Std	Low			2-				
Std	High			4-				
Blank	by			6-		8-		
233B	12		10	5	26.460	6	18.921	
298A	2		10	7	64.119	8		

38 ^A	117 ^B	131 ^B	202 ^A	6 ^A	143 ^B	65	84
CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL
Stn 102	62	56	16	Stn SI	46	Stn 72	Stn adcp
2015-19	2015-19	2015-19	2015-19	2015-19	2015-19	2015-19	2015-19
Bot 14	Bot 9	Bot 12	Bot 8	Bot 6	Bot 10	Bot 13	Bot 7

84	105 ^A	97 ^A	145 ^L	85	218 ^A	192 ^B	220 ^A
CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL
Stn adcp	63	65	46	Stn adcp	14	27	14
2015-19	2015-19	2015-19	2015-19	2015-19	2015-19	2015-19	2015-19
Bot 7	Bot 8	Bot 10	Bot 12	Bot 8	Bot 13	Bot 14	Bot 15

300	218 ^B	283	245 ^B	283	266 ^B	234 ^B	297
CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL
Stn 2	14	Stn 3	9	Stn 3	BS11	12	Stn 2
2015-19	2015-19	2015-19	2015-19	2015-19	2015-19	2015-19	2015-19
Bot 15	Bot 13	Bot 14	Bot 9	Bot 14	Bot 5	Bot 14	Bot 12

245 ^A	285	233 ^B	298
CHL	CHL	CHL	CHL
Stn 3	Stn 3	12	Stn 2
2015-19	2015-19	2015-19	2015-19
Bot 9	Bot 16	Bot 13	Bot 13

Chlorophyll Data Sheet

Cruise:

Dates of Cruise: 2015-19

Time and date acetone added: 3:55pm 08 Oct 15

Time and date out of freezer: 2:10pm 09 Oct 15

Time analysis started: 4pm

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20ml

267B

269B + A

Analyst: Tamar

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	-0.020			
STD			LOW	2-	12.099			
STD			HIGH	4-	65.573			
Blank				6-	0.016	8-	0.014	
248A	9	332	10	1-	95.967	2-	59.038	
258A	6		10	3-	32.635	4-	21.093	
261B	6		10	5-	108.586	6-	64.533	
259A	6		10	7-	101.374	8-	60.210	
236B	12		10	1-	106.627	2-	64.794	
233A	12		10	3-	26.354	4-	18.544	
236A	12		10	5-	105.024	6-	63.776	
234A	12		10	7-	36.677	8-	24.046	
269B	BS11		20	1-	108.834	2-	59.191	DF = 2
217A	14		10	3-	91.173	4-	58.463	
261A	6		10	5-	102.122	6-	60.021	
282B	3		10	7-	45.188	8-	28.323	I was this the str
282A	3		10	1-	17.414	2-	12.456	where 269B mixed up?
300A	2		10	3-	128.182	4-	73.638	
258B	6		10	5-	32.470	6-	21.926	
259B	6		10	7-	102.710	8-	61.229	
298B	2		10	1-	63.306	2-	39.473	
248B	9		10	3-	94.487	4-	58.264	
246B	9		10	5-	95.895	6-	59.391	
246A	9		10	7-	97.706	8-	61.642	
297A	2		10	1-	29.524	2-	19.954	
285A	3		10	3-	90.135	4-	52.927	
267A	BS11		10	5-	129.130	6-	72.674	
269A	BS11		20	7-	105.501	8-	57.828	DF = 2
267B	BS11		20	1	196.186	2	104.973	much darker than 267B
266A	BS11		20	3	149.966	4	81.801	
Stand-by				1-	-0.021			
Std	Low			2-	12.065			
Std	High			4-	65.501			
Blank	by			6-	-0.002	8-	-0.002	

248 ^A
CHL
9
2015-19
Bot 12

258 ^A
CHL
6
2015-19
Bot 10

261 ^B
CHL
6
2015-19
Bot 13

259 ^A
CHL
6
2015-19
Bot 11

236 ^B
CHL
12
2015-19
Bot 16

233 ^A
CHL
12
2015-19
Bot 13

236 ^A
CHL
12
2015-19
Bot 16

234 ^A
CHL
12
2015-19
Bot 14

269 ^B
CHL
BS11
2015-19
Bot 8

217 ^A
CHL
14
2015-19
Bot 12

261 ^A
CHL
6
2015-19
Bot 13

282
CHL
Stn 3
2015-19
Bot 13
^B

282
CHL
Stn 3
2015-19
Bot 13
^A

300
CHL
Stn 2
2015-19
Bot 15
^A

258 ^B
CHL
6
2015-19
Bot 10

259 ^B
CHL
6
2015-19
Bot 11

298
CHL
Stn 2
2015-19
Bot 13
^B

248 ^B
CHL
9
2015-19
Bot 12

246 ^B
CHL
9
2015-19
Bot 10

246 ^A
CHL
9
2015-19
Bot 10

297
CHL
Stn 2
2015-19
Bot 12
^A

285
CHL
Stn 3
2015-19
Bot 16
^A

267 ^A
CHL
BS11
2015-19
Bot 6

269 ^A
CHL
BS11
2015-19
Bot 8

267 ^B
CHL
BS11
2015-19
Bot 6
my character from

266 ^A
CHL
BS11
2015-19
Bot 5