

Chlorophyll Data Sheet

Cruise: 2014-005

Page: 1 of

Date acetone added: 10 Jun 19

Time acetone added: 1:14pm

Date of analysis: 11 Jun 19

Analyst: Julian

Out of freezer @ 11:18am 11 Jun 19

* 5498
diluted
(2.0mL Acetone)
+543

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-0.013				
STD			LOW	2-10.7				
			HIGH	4-58.4				
Blank				6-0.000				
510	LB08		10mL	1-	312.627	2-	175.121	
508B	LB08			3-	300.501	4-	168.898	
507	LB08			5-	57.095	6-	37.917	
506	LB08			7-	15.286	8-	11.206	
505	LB08			1-	13.027	2-	10.397	
5172A	Loop LB8			3-	271.545	4-	150.855	
* 549B	LB01		20mL	5-	230.673	6-	127.183	
* 547	LB01			7-	152.482	8-	84.216	DF=3 (15mL)
546B	LB01		10mL	1-	345.450	2-	193.881	
545	LB01			3-	256.183	4-	146.019	
* 544	LB02			5-	132.544	6-	73.218	DF=3 (15mL)
* 543	LB02		20mL	7-	182.101	8-	99.820	
542	LB02		10mL	1-	39.913	2-	27.308	
541B	LB02			3-	34.025	4-	25.424	
540	LB02			5-	20.523	6-	15.877	
* 539B	LB03			7-	155.796	8-	86.440	DF=3 (15mL)
538	LB04		10mL	1-	148.788	2-	86.854	
537B	LB04			3-	147.698	4-	87.536	
536	LB04			5-	85.309	6-	53.485	
535	LB04			7-	23.781	8-	16.170	
534	LB04			1-	13.907	2-	10.385	
* 522B	LB07			3-	125.284	4-	69.886	DF=3 (15mL)
528	LB06		10mL	5-	55.489	6-	35.273	
527	LB06			7-	14.474	8-	10.644	
Blank	standby			3-	0.010			
Std	Low			5-	10.576			
Std	High			7-	57.476			
Stand-	by Blank			8-	0.002			

2019
80

510 CHL LB08 5 m 19-005 Bot 10	508 ^B CHL LB08 10 m 19-005 Bot 8	507 CHL LB08 20 m 19-005 Bot 7	506 CHL LB08 30 m 19-005 Bot 6	505 CHL LB08 50 m 19-005 Bot 5	5172 ^A CHL LoopLB8 5 m 19-005 Bot 1	549 ^B CHL LB01 5 m 19-005 Bot 5	547 CHL LB01 10 m 19-005 Bot 3	546 ^B CHL LB01 20 m 19-005 Bot 2	545 CHL LB01 Bot-10 19-005 Bot 1
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544 CHL LB02 5 m 19-005 Bot 5	543 CHL LB02 10 m 19-005 Bot 4	542 CHL LB02 20 m 19-005 Bot 3	541 ^B CHL LB02 30 m 19-005 Bot 2	540 CHL LB02 Bot-10 19-005 Bot 1	539 ^B CHL LB03 5 m 19-005 Bot 1	538 CHL LB04 5 m 19-005 Bot 7	537 ^B CHL LB04 10 m 19-005 Bot 6	536 CHL LB04 20 m 19-005 Bot 5	535 CHL LB04 30 m 19-005 Bot 4
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534 CHL LB04 50 m 19-005 Bot 3	522 ^B 524 CHL LB07 5 m 19-005 Bot 1	528 CHL LB06 20 m 19-005 Bot 6	527 CHL LB06 30 m 19-005 Bot 5
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Chlorophyll Data Sheet

Cruise: 2019-005

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Date acetone added: 10 Jun 19

Time acetone added: 3:17pm

Date of analysis: 11 Jun 19

Analyst: Julian

Out of freezer @ 1:21pm 11 Jun 19

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	0.010			
STD			LOW	2-	10.548			
			HIGH	4-	57.796			
Blank				6-	-0.002			
261B	L604		10mL	1-	13.624	2-	9.532	
292	L602			3-	39.315	4-	25.423	
217	LBP7			5-	13.887	6-	8.848	
352A	L001			7-	101.404	8-	57.747	
397	L002			1-	239.118	2-	134.402	
336A	L006			3-	199.973	4-	125.753	
5725B	L008 L00P			5-	108.166	6-	65.296	
278	L606			7-	74.004	8-	46.481	
264	L604			1-	122.930	2-	69.795	
243A	L602		↓	3-	257.148	4-	140.720	
5762B	L00P		20mL	5-	203.426	6-	108.531	DF=2
5091A	L00P91		10mL	7-	79.693	8-	46.148	
221	LBP7			1-	89.743	2-	57.349	
522A	LBP7			3-	356.022	4-	195.197	
537A	LBP4		↓	5-	157.661	6-	92.580	
539A	LBP3		20mL	7-	240.824	8-	132.205	DF=2
541A	LBP2		10mL	1-	34.966	2-	25.585	
546A	LBP1		20mL	3-	172.536	4-	97.030	DF=2
549A	LBP1		20mL	5-	225.939	6-	124.599	DF=2
508A	LBP8		10mL	7-	299.111	8-	169.905	
531A	LBP5			1-	207.526	2-	124.892	
529A	LBP6			3-	88.364	4-	52.007	
530	LBP6			5-	80.456	6-	46.823	
526	LBP6		↓	7-	11.628	8-	9.298	
Blank	Standby			3-	0.009			
Std	Low			5-	10.514			
Std	High			7-	57.596			
Stand-	by Blank			8-	-0.002			

5102B
20mL Acetone
+539A
+546A
+549A

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261 B	242	217	352 A	347	336 A	5125 B	278	264	243 A
CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL
LG04	LG02	LBP7	LD01	LD02	LD06	LD08	LG06	LG04	LC02
30 m	20 m	50 m	5 m	10 m	20 m	LOOP	30 m	5 m	10 m
19-005	19-005	19-005	19-005	19-005	19-005	19-005	19-005	19-005	19-005
Bot 6	Bot 5	Bot 16	Bot 4	Bot 4	Bot 6	Bot 1	Bot 14	Bot 9	Bot 6
5102 B	5091 A	221	522 A	537 A	539 A	541 A	546 A	549 A	508 A
CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL
Loop	loop91	LBP7	LB07	LB04	LB03	LB02	LB01	LB01	LB08
5 m	5 m	5 m	5 m	10 m	5 m	30 m	20 m	5 m	10 m
19-005	19-005	19-005	19-005	19-005	19-005	19-005	19-005	19-005	19-005
Bot 1	Bot 1	Bot 20	Bot 1	Bot 6	Bot 1	Bot 2	Bot 2	Bot 5	Bot 3
531 A	529 A	530	526						
CHL	CHL	CHL	CHL						
LB05	LB06	LB06	LB06						
5 m	10 m	5 m	30 m						
19-005	19-005	19-005	19-005						
Bot 1	Bot 7	Bot 8	Bot 4						

* 20mL Acetone added

5102A

531B

280

350

Chlorophyll Data Sheet

Cruise: 2019-005

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Dates of Cruise:

Time and date acetone added: 11/11am @ 12 Jun/19

Analyst: Julian

Time and date out of freezer: 13 Jun/19 @ 9:11am

Time analysis started:

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	0.011			
STD			LOW	2-	10.726			
STD			HIGH	4-	58.698			
Blank				6-	0.002	8-		
5091B	Loop 91		10mL		89.855		50.753	
5102A	Loop		20mL	1-	199.780	2-	105.330	DF=2
529B	LB06		10mL	3-	91.734	4-	53.403	
531B	LB05		20mL	5-	105.480	6-	62.295	DF=2
279A	LG06		10mL	7-	119.523	8-	74.719	
5125A	LD08 LOOP			1-	107.654	2-	62.730	
336B	LD06			3-	205.149	4-	127.011	
346A	LD02			5-	88.578	6-	60.438	∴
352B	LD01			7-	97.146	8-	55.297	
219	LBP7			1-	83.592	2-	47.811	
226	LJ06			3-	87.851	4-	49.209	
232B	LJ02			5-	88.593	6-	49.903	
241	KG02			7-	17.240	8-	12.923	
260	LG04			1-	7.598	2-	6.166	∴
280	LG06		20mL	3-	77.659	4-	45.934	
303	LD11		10mL	5-	28.960	6-	18.086	
335	LD06			7-	44.167	8-	34.675	
343	LD04			1-	37.855	2-	21.638	
550	LD01		20mL	3-	76.639	4-	48.700	DF=2
220A	LBP7		10mL	5-	91.538	6-	57.866	
224B	LJ06			7-	35.634	8-	20.834	
240	LG02			1-	13.004	2-	9.788	
262	LG04			3-	41.769	4-	26.567	
281	LG06			5-	130.745	6-	76.125	
				7-		8-		
Stand-by				1-	0.011			
Std	Low			2-	10.654			
Std	High			4-	58.290			
Blank	by			6-	0.002	8-		

5091 B CHL loop91 5 m 19-005 Bot 1	5102 A CHL Loop 19-005 Bot 1	529 B CHL LB06 10 m 19-005 Bot 7	531 B CHL LB05 5 m 19-005 Bot 1	279 A CHL LG06 20 m 19-005 Bot 15	5125 A CHL LD08 LOOP 19-005 Bot 1	336 B CHL LD06 20 m 19-005 Bot 6	346 A CHL LD02 20 m 19-005 Bot 3	352 B CHL LD01 5 m 19-005 Bot 4	219 CHL LBP7 20 m 19-005 Bot 18
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226 CHL LJ06 5 m 19-005 Bot 3	232 B CHL LJ02 5 m 19-005 Bot 3	241 CHL LG02 30 m 19-005 Bot 4	260 CHL LG04 50 m 19-005 Bot 5	280 CHL LG06 10 m 19-005 Bot 16	303 CHL LD11 5 m 19-005 Bot 20	335 CHL LD06 30 m 19-005 Bot 5	343 CHL LD04 5 m 19-005 Bot 5	350 CHL LD01 20 m 19-005 Bot 2	220 A CHL LBP7 10 m 19-005 Bot 19
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224 B CHL LJ06 20 m 19-005 Bot 1	240 CHL LG02 50 m 19-005 Bot 3	262 CHL LG04 20 m 19-005 Bot 7	281 CHL LG06 5 m 19-005 Bot 17
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Chlorophyll Data Sheet

Cruise: 2014-005

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Dates of Cruise: 2014

Time and date acetone added: 3:08pm @ 12 Jun 14

Time and date out of freezer: 13 Jun 14 @ 1:38pm

Time analysis started:

Analyst:

Julian

20ml Acetone
#231
#237B A351
#279 #263
#330 #5154A
#342B

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	0.010			
STD			LOW	2-	10.659			
STD			HIGH	4-	58.318			
Blank				6-	0.002	8-		
5134 A	LDP01		20ml		23.572		13.910	DF-2
340	LDP4			1-	23.014	2-	18.705	
326	LDP8			3-	10.110	4-	7.165	
300	LDP11			5-	31.273	6-	20.306	
277	LC06			7-	12.214	8-	8.335	
263	LC04		20ml	1-	58.918	2-	35.333	DF-2
230	LDP2			3-	40.859	4-	24.749	
225	LDP6			5-	86.412	6-	48.796	
220B	LDP7			7-	89.724	8-	51.016	
351	LDP1		20ml	1-	112.924	2-	65.210	DF-2
342B	LDP4		20ml	3-	39.692	4-	22.303	DF-2
330	LDP8		20ml	5-	52.904	6-	31.378	DF-2
301	LDP22			7-	31.544	8-	19.703	
279B	LC06		20ml	1-	60.403	2-	36.886	DF-2
261A	LC04			3-	15.298	4-	10.677	
237B	LC01		20ml	5-	246.462	6-	133.556	DF-2
231	LDP2		20ml	7-	29.917	8-	17.437	DF-2
224A	LDP6			1-	32.224	2-	18.817	
218	LDP7			3-	48.883	4-	28.295	
349	LDP1			5-	146.819	6-	94.965	
342A	LDP4			7-	80.419	8-	44.705	
334	LDP6			1-	17.863	2-	14.803	2-
302	LDP11			3-	27.896	4-	17.148	
232A	LDP2			5-	87.987	6-	49.382	
				7-		8-		
Stand-by				1-	0.010			
Std	Low			2-	10.588			
Std	High			4-	57.700			
Blank	by			6-	0.002	8-		

5134 CHL LoopLD01 5 m 19-005 Bot 1	340 CHL LD04 30 m 19-005 Bot 2	326 CHL LD08 50 m 19-005 Bot 13	300 CHL LD11 30 m 19-005 Bot 17	277 CHL LG06 50 m 19-005 Bot 13	263 CHL LG04 10 m 19-005 Bot 8	230 CHL LJ02 20 m 19-005 Bot 1	225 CHL LJ06 10 m 19-005 Bot 2	220 B CHL LBP7 10 m 19-005 Bot 19	351 CHL LD01 10 m 19-005 Bot 3
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342 B CHL LD04 10 m 19-005 Bot 4	330 CHL LD08 5 m 19-005 Bot 17	301 CHL LD11 20 m 19-005 Bot 18	279 B CHL LG06 20 m 19-005 Bot 15	261 A CHL LG04 30 m 19-005 Bot 6	237 B CHL LG01 5 m 19-005 Bot 5	231 CHL LJ02 10 m 19-005 Bot 2	224 A CHL LJ06 20 m 19-005 Bot 1	218 CHL LBP7 30 m 19-005 Bot 17	349 CHL LD01 Bot-10 19-005 Bot 1
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342 A CHL LD04 10 m 19-005 Bot 4	334 CHL LD06 50 m 19-005 Bot 4	302 CHL LD11 10 m 19-005 Bot 19	232 A CHL LJ02 5 m 19-005 Bot 3
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Chlorophyll Data Sheet

Cruise:

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Dates of Cruise: 2019-005

Time and date acetone added: 13 Jun 19 @ 2:18pm

Analyst: Julian

Time and date out of freezer: 14 Jun 19 @ 12:17pm

Time analysis started: 14 Jun 19 @ 1:14pm

20mL acetone
#257A
#5097B
#236
#244
#235
#228A
#5096B

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	0.014			
STD			LOW	2-	10.793			
STD			HIGH	4-	59.055			
Blank				6-	-0.007	8-		
237A	LG01		20mL	1-	98.682	2-	56.900	DF=2
199	LBP5		10mL	3-	9.161	4-	5.605	
227	LJ04		↓	5-	6.856	6-	4.750	
5097B	L009		20mL	7-	52.282	8-	27.072	DF=2 holding cell set in place
236	LG01		20mL	1-	30.295	2-	160.072	DF=2
222	LBP8		10mL	3-	13.471	4-	8.369	
5117	L009 LG09			5-	75.786	6-	45.242	
249B	LD11			7-	14.705	8-	9.331	
327B	LIX8			1-	38.771	2-	24.939	
329	LD08			3-	108.840	4-	62.738	
341	LD04			5-	24.918	6-	18.877	
5134B	L009 LD01			7-	52.884	8-	30.362	
346B	LD02			1-	88.213	2-	59.218	
339	LD04			3-	25.100	4-	20.868	
5117	L009 LG09			5-	81.342	6-	48.567	
223	LBP8		↓	7-	17.960	8-	10.285	
235	LG01		20mL	1-	95.80	2-	56.206	DF=2
228A	LJ04		20mL	3-	156.034	4-	87.333	DF=2
200	LBP5		10mL	5-	116.154	6-	64.175	
198	LBP5		↓	7-	21.054	8-	12.994	
5096B	L009 LJ04		20mL	1-	156.605	2-	77.140	DF=2
234	LG01		10mL	3-	32.489	4-	29.112	
244	LG02		20mL	5-	124.426	6-	68.480	DF=2
283B	LG09		10mL	7-	76.550	8-	46.717	
Stand-by				1-	0.012			
Std	Low			2-	10.597			
Std	High			4-	58.224			
Blank	by			6-	-0.000	8-		

Chlorophyll Data Sheet

Cruise:

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Dates of Cruise: 2019-005

Time and date acetone added: 13 Jun 19 @ 4:15 pm

Time and date out of freezer: 14 Jun 19 @ 2:17 pm

Time analysis started: 14 Jun 19 @ 3:15 pm

Analyst: Julian

20ml Acetone added

5097A

228B

338

2245B

229

12

295

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	0.010			
STD			LOW	2-	10.623			
STD			HIGH	4-	58.285			
Blank				6-	0.000	8-		
5097A	Loop		20ml	1-	171.255	2-	92.296	DF=2
299A	L111		10ml	3-	14.985	4-	9.440	
228B	L504		20ml	5-	172.183	6-	95.967	DF=2
5096A	Loop L504		10ml	7-	237.041	8-	129.557	
283A	L609			1-	82.002	2-	48.913	
5118B	Loop 5118			3-	18.563	4-	11.212	
322A	LDO8			5-	36.672	6-	22.847	
328	LDO8			7-	52.768	8-	32.897	
338	LDO6		20ml	1-	81.383	2-	45.794	DF=2
348	LDO2		10ml	3-	156.109	4-	88.457	
337	LDO6			5-	169.831	6-	95.496	
345	LDO2			7-	41.577	8-	29.114	
293B	L6102		20ml	1-	134.526	2-	75.417	DF=2
233	L6101		10ml	3-	28.477	4-	21.394	
229	L504		20ml	5-	164.540	6-	90.282	DF=2
197	LDP5		10ml	7-	13.924	8-	9.533	
91B	L506			1-	126.615	2-	75.180	
92	L506		20ml	3-	221.271	4-	121.339	DF=2
93	L506		20ml	5-	220.328	6-	121.973	DF=2
86B	L509		10ml	7-	19.077	8-	10.959	
72A	JS			1-	27.304	2-	17.295	
58B	CPT2			3-	84.587	4-	57.336	
35A	CPT1			5-	53.270	6-	19.219	
21B	42			7-	15.422	8-	8.615	
Stand-by				1-	0.010			
Std	Low			2-	10.472			
Std	High			4-	58.182			
Blank	by			6-	0.000	8-	0.002	

[illegible]

Chlorophyll Data Sheet

Cruise: 2014-005

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Dates of Cruise:

Time and date acetone added: 17 Jun 14 @ 10:53am

Analyst: Julian C

Time and date out of freezer: 18 Jun 14 @ 9:03am

Time analysis started: 10:10am

20ml Acetone

★95
★59
★160
★121

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	0.013			
STD			LOW	2-	10.171			
STD			HIGH	4-	59.098			
Blank				6-	0.007	8-	0.008	
5-118A	Loop 5118		10ml	1-	19.301	2-	11.468	
10	59		↓	1-	18.447	2-	12.296	
95	CS06		20ml	3-	260.536	4-	139.406	DF=2
90	CS06		10ml	5-	11.453	6-	8.065	
91A	CS06		↓	7-	126.223	8-	72.992	
85	CS09		↓	1-	19.873	2-	11.545	
72B	SS		↓	3-	26.185	4-	16.287	
59	CPF2		20ml	5-	166.943	6-	94.448	DF=2
35B	CPF1		10ml	7-	34.765	8-	19.956	
20	42		↓	1-	11.023	2-	6.612	
8	59		↓	3-	17.387	4-	11.885	
157A	CS00		↓	5-	16.120	6-	9.856	
84	CS09		↓	7-	20.705	8-	12.363	
73	SS		↓	1-	35.394	2-	21.780	
99	CS04		↓	3-	20.077	4-	12.249	
61	CPF2		↓	5-	65.015	6-	36.337	
36	CPF1		↓	7-	57.041	8-	31.201	
19	42		↓	1-	5.649	2-	4.115	
98	59		↓	3-	17.655	4-	12.471	
160	CS00		20ml	5-	54.566	6-	30.292	DF=2
158	CS00		10ml	7-	38.594	8-	23.502	
121	CS02		20ml	1-	31.591	2-	18.199	DF=2
83	CS09		10ml	3-	8.685	4-	6.659	
74	SS		↓	5-	40.120	6-	24.329	
				7-		8-		
Stand-by				1-	0.012			
Std	Low			2-	10.655			
Std	High			4-	58.366			
Blank	by			6-	-0.001	8-	0.000	

5118 A CHL Loop5118 19-005 Bot 1	19 CHL 59 5 m 19-005 Bot 10	95 CHL CS06 5 m 19-005 Bot 7	90 CHL CS06 50 m 19-005 Bot 2	91 A CHL CS06 30 m 19-005 Bot 3	85 CHL CS09 20 m 19-005 Bot 9	72 B CHL JS 30 m 19-005 Bot 7	59 Chl-a CPF2 19-005 Bot 2	35 B CHL CPF1 10 m 19-005 Bot 2	20 CHL 42 10 m 19-005 Bot 9	8 CHL 59 20 m 19-005 Bot 8
157 A CHL CS00 50 m 19-005 Bot 16 83 CHL CS09 50 m 19-005 Bot 7	84 CHL CS09 30 m 19-005 Bot 8 74 CHL JS 10 m 19-005 Bot 9	73 CHL JS 20 m 19-005 Bot 8	99 CHL CS04 50 m 19-005 Bot 3	61 Chl-a CPF2 19-005 Bot 4	35 CHL CPF1 0 m 19-005 Bot 3	19 CHL 42 20 m 19-005 Bot 8	9 B CHL 59 10 m 19-005 Bot 9	160 CHL CS00 10 m 19-005 Bot 19	158 CHL CS00 30 m 19-005 Bot 17	121 CHL CS02 10 m 19-005 Bot 19

Chlorophyll Data Sheet

Cruise: LA REPOUSE

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20mL Acetone
★ 33
★ 52

Dates of Cruise: 2014-005

Time and date acetone added: 17 Jun 19 @ 1:56 PM

Analyst: Julian

Time and date out of freezer: 18 Jun 19 @ 11:55 AM

Time analysis started: 18 Jun @ 12:59 PM

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	0.010			
STD			LOW	2-	10.521			
STD			HIGH	4-	58.485			
Blank				6-	0.003	8-	0.003	
101	1504			1-	38.597	2-	22.656	
114B	1502			3-	43.846	4-	26.715	
167	LBP3			5-	32.685	6-	19.876	
169	LBP3			7-	36.614	8-	21.706	
9A	59			1-	18.256	2-	12.018	
31	GE01			3-	32.569	4-	19.051	
62	12			5-	40.916	6-	26.761	
100	1504			7-	56.460	8-	30.971	
120	1502			1-	63.971	2-	36.234	
171	LBP3			3-	36.188	4-	20.865	
170	LBP3			5-	37.140	6-	21.323	
7	59			7-	17.210	8-	11.677	
32	GE01		20mL	1-	25.969	2-	14.525	DF=2
56A	22			3-	67.017	4-	35.464	
64A	12			5-	55.711	6-	30.721	
75A	55			7-	41.103	8-	23.595	
99	1504			1-	51.978	2-	28.490	
118	1502			3-	9.629	4-	6.421	
159	1500			5-	55.282	6-	31.941	
161	1500			7-	114.999	8-	62.909	
6	59			1-	18.557	2-	13.178	
53	GE01		20mL	3-	31.509	4-	17.049	DF=2
57	22			5-	70.213	6-	37.261	
58A	CPF2			7-	87.321	8-	61.277	
Stand-by				1-				
Std	Low			2-				
Std	High			4-				
Blank	by			6-		8-		

101 CHL CS04 10 m 19-005 Bot 6	119 ^B CHL CS02 30 m 19-005 Bot 17	167 CHL LBP3 50 m 19-005 Bot 6	169 CHL LBP3 20 m 19-005 Bot 8	30 ^A CHL 50 10 m 19-005 Bot 9	31 CHL GEO1 10 m 19-005 Bot 9	62 CHL 12 20 m 19-005 Bot 1	100 CHL CS04 20 m 19-005 Bot 5	120 CHL CS02 20 m 19-005 Bot 18	171 CHL LBP3 5 m 19-005 Bot 10	170 CHL LBP3 10 m 19-005 Bot 9
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7 CHL 59 30 m 19-005 Bot 7	32 CHL GEO1 5 m 19-005 Bot 10	56 ^A CHL-a 22 19-005 Bot 10	64 ^A CHL 12 5 m 19-005 Bot 3	75 ^A CHL JS 5 m 19-005 Bot 10	99 CHL CS04 30 m 19-005 Bot 4	118 CHL CS02 50 m 19-005 Bot 16	159 CHL CS00 20 m 19-005 Bot 18	161 CHL CS00 5 m 19-005 Bot 20	6 CHL 59 30 m 19-005 Bot 6	33 CHL GEO1 0 m 19-005 Bot 11
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57 ^A Chl-a 22 19-005 Bot 11	58 ^A Chl-a CPF2 19-005 Bot 1
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Chlorophyll Data Sheet

Cruise: LA REPOUSE

Page: 9 of

20mL Acetone

★55
★22

Dates of Cruise: 2014-005

Time and date acetone added: 17 Jun 19 @ 4:46

Analyst: Sultan

Time and date out of freezer: 18 Jun 19 @ 2:47pm

Time analysis started: 3:55pm

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	0.011			
STD			LOW	2-	10.584			
STD			HIGH	4-	58.259			
Blank				6-	0.000	8-	0.013	weird...
76	35 c			1-	38.572	2-	21.892	
63	12			3-	58.170	4-	34.094	
55	22	20mL		5-	13.570	6-	8.664	DF=2
308	GE01			7-	23.097	8-	14.433	
11A	59			1-	18.698	2-	11.985	
201	LBP5			3-	167.331	4-	87.823	
168B	LBP3			5-	30.254	6-	17.715	
119A	CS02			7-	43.145	8-	25.730	
102B	CS04			1-	79.963	2-	43.086	
87	CS09			3-	32.371	4-	17.329	
64B	12			5-	54.390	6-	29.970	
54	22			7-	15.987	8-	11.828	
22	42	20mL		1-	21.445	2-	11.624	DF=2
122	CS02			3-	63.042	4-	35.462	
86A	CS09			5-	18.869	6-	10.598	
65	12			7-	29.307	8-	15.881	
60	CPE2			1-	93.778	2-	57.390	
34	CPE1			3-	13.975	4-	10.137	
21A	42			5-	16.048	6-	9.362	
5161B	LB16			7-	18.452	8-	11.317	
444A	LB16			1-	17.923	2-	10.576	
445B	LB15			3-	28.297	4-	16.942	
459B	LB14			5-	17.241	6-	11.063	
460	LB14			7-	20.804	8-	12.857	
Stand-by				1-	0.010			
Std	Low			2-	10.638			
Std	High			4-	58.087			
Blank	by			6-	0.000	8-	-0.000	

[illegible]

Chlorophyll Data Sheet

Cruise: LA PEROUSE

Page: 0 of

Dates of Cruise: 2019-005

Time and date acetone added: 18 Jun 19 @ 11:50 am

Analyst: TF

Time and date out of freezer: 19 Jun 19 @ 9:52 am

Time analysis started: 19 Jun 19 @ 10:55 am

Handwritten notes:
 2019-005
 4499
 5500
 4188
 5778
 594

Handwritten note: 396 not 2 filters.

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	0.015			
STD			LOW	2-	10.801			
STD			HIGH	4-	58.854			
Blank				6-	0.003	8-add	0.003	
157B	CS00	304	10	1-	17.323	2-	10.447	
75B	JS		10	3-	44.320	4-	24.382	
56B	22		10	5-	71.442	6-	37.544	
30A	GEO1		10	7-	23.298	8-	14.039	
201B	LBP5		10	1-	177.051	2-	90.988	
168A	LBP3		10	3-	29.326	4-	17.016	
102A	CS04		10	5-	79.280	6-	41.964	
459A	LB14		10	7-	18.282	8-	11.501	
445A	LB15		10	1-	30.217	2-	17.463	
444B	LB16		10	3-	19.050	4-	10.533	
5161A	LB16 Loop		10	5-	18.804	6-	10.660	
462	LB14		10	7-	23.249	8-	13.335	
463	LB14		10	1-	24.248	2-	14.374	13.799
461	LB14		10	3-	20.875	4-	11.870	
464A	LB13		10	5-	24.209	6-	13.692	
477B	LB12		10	7-	23.728	8-	14.890	
478	LB12		10	1-	37.739	2-	21.8787	
479	LB12		10	3-	39.135	4-	22.238	
439B	LC11		10	5-	14.106	6-	8.977	
475	LB12		10	7-	11.555	8-	7.262	
476	LB12		10	1-	37.567	2-	23.870	
490A	LB11		10	3-	37.292	4-	21.447	
489	LB11		10	5-	38.251	6-	22.267	
488	LB11		10	7-	42.879	8-	25.941	
Stand-by				1-				
Std	Low			2-				
Std	High			4-				
Blank	by			6-		8-		

157 B	75 B	56 B	30 A	201 B	168 A	102 A	A 459
CHL	CHL	Chl-a	CHL	CHL	CHL	CHL	CHL
CS00	JS	22	GEO1	LBP5	LBP3	CS04	LB14
50 m	5 m	19-005	20 m	5 m	30 m	5 m	50 m
19-005	19-005	19-005	19-005	19-005	19-005	19-005	19-005
Bot 16	Bot 10	Bot 10	Bot 8	Bot 19	Bot 7	Bot 7	Bot 14

445 A	444 B	5161 A	462	463	461	464	B 477
CHL	CHL	CHL	CHL	CHL	CHL	A CHL	CHL
LB15	LB16	LB16	LB14	LB14	LB14	LB13	LB12
5 m	5 m	19-005	10 m	5 m	20 m	5 m	20 m
19-005	19-005	19-005	19-005	19-005	19-005	19-005	19-005
Bot 1	Bot 1	LOOP	Bot 17	Bot 18	Bot 16	Bot 1	Bot 13

478	479	439	475	476	490 A	489	488
CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL
LB12	LB12	LC11	LB12	LB12	LB11	LB11	LB11
10 m	5 m	50 m	50 m	30 m	5 m	10 m	20 m
19-005	19-005	19-005	19-005	19-005	19-005	19-005	19-005
Bot 14	Bot 15	Bot 15	Bot 11	Bot 12	Bot 11	Bot 10	Bot 9

Chlorophyll Data Sheet

Cruise: LA PEROUSE

Page: 11 of

Dates of Cruise: 2019-05

Time and date acetone added: 18 Jun/9 @ 3:40pm

Analyst: Julian

Time and date out of freezer: 19 Jun/9 @ 1:44pm

Time analysis started: 2:40pm

★ 499

★ 500

★ 498

★ 5772B

★ 394

★ 396 had 2 filters!★

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	0.064 0.013			Pool holding cell back in
STD			LOW	2-	10.714			
STD			HIGH	4-	58.760			
Blank				6-	0.054	8-	0.063	
487	LB11	304	10mL	1-	40.490	2-	24.191	
486	LB11			3-	16.814	4-	10.761	
439A	LC11			5-	13.351	6-	8.376	
491B	LB10			7-	85.391	8-	46.776	
499	LB09		20mL	1-	104.856	2-	58.076	
500	LB09		20mL	3-	104.724	4-	58.154	
498	LB09		20mL	5-	103.460	6-	57.759	
497B	LB09		10mL	7-	36.377	8-	26.206	
496	LB09			1-	11.561	2-	8.642	
5172B	Loop LB8		20mL	3-	142.686	4-	77.446	
446	LC11			5-	28.140	6-	17.352	
443	LC11			7-	48.897	8-	29.250	
442	LC11			1-	45.348	2-	26.531	
441	LC11			3-	40.729	4-	25.107	
413	LC09			5-	88.083	6-	50.897	
411	LC09			7-	87.105	8-	49.322	
410A	LC09			1-	98.292	2-	58.605	
5146	Loop LC06			3-	54.636	4-	31.215	
392	LC08			5-	6.943	6-	5.278	
393	LC08			7-	22.532	8-	15.593	
394	LC08		20mL	1-	60.391	2-	34.631	
395A	LC08			3-	63.711	4-	35.789	
396	LC08			5-	103.372	6- 57.187	57.544	2 filters in vial
408	LC09			7-	18.772	8-	13.125	
Stand-by				1-	0.010 0.013			
Std	Low			2-	10.549			
Std	High			4-	58.085			
Blank	by			6-	0.004	8-	0.005	

487	486	439 A	491 B	499	500	498	497 B	496	5172	440
CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL B	CHL
LB11	LB11	LC11	LB10	LB09	LB09	LB09	LB09	LB09	LoopLD8	LC11
30 m	50 m	50 m	5 m	10 m	5 m	20 m	30 m	50 m	5 m	30 m
19-005	19-005	19-005	19-005	19-005	19-005	19-005	19-005	19-005	19-005	19-005
Bot 8	Bot 7	Bot 15	Bot 1	Bot 8	Bot 9	Bot 7	Bot 6	Bot 5	Bot 1	Bot 16

443	442	441	413	411	410 A	5146	392	393	394	395 A
CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL
LC11	LC11	LC11	LC09	LC09	LC09	LoopLC06	LC08	LC08	LC08	LC08
5 m	10 m	20 m	5 m	10 m	20 m	5 m	50 m	30 m	20 m	10 m
19-005	19-005	19-005	19-005	19-005	19-005	19-005	19-005	19-005	19-005	19-005
Bot 19	Bot 18	Bot 17	Bot 17	Bot 15	Bot 14	Bot 1	Bot 7	Bot 8	Bot 9	Bot 10

396	408
CHL	CHL
LC08	LC09
5 m	50 m
19-005	19-005
Bot 11	Bot 12

20ml Acetone

A376A

A376B

Chlorophyll Data Sheet

Cruise: LA PEROUSE

Page: 12 of

Dates of Cruise: 20/9-005

Time and date acetone added: 19 Jun 19 @ 2:03pm

Analyst: Julian

Time and date out of freezer: 20 Jun 19 @ 12:06pm

Time analysis started: 1:32pm

A395B has no filter! A

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	0.014			
STD			LOW	2-	10.737			
STD			HIGH	4-	58.867			
Blank				6-	0.000	8-	0.003	0.002
374	LC04		10mL	1-	27.457	2-	18.573	
373	LC04			3-	16.156	4-	11.707	
375	LC04			5-	71.219	6-	48.914	
367	LC02			7-	78.916	8-	42.890	
365	LC02			1-	204.434	2-	114.118	
364A	LC02			3-	117.818	4-	77.346	
362	LC02			5-	21.112	6-	15.485	
363	LC02			7-	35.109	8-	26.348	
5146	Loop LC06			1-	61.873	2-	33.461	
385A	LC06			3-	96.102	4-	57.669	
384	LC06			5-	196.643	6-	104.989	
382	LC06			7-	41.093	8-	28.716	
381	LC06			1-	28.660	2-	21.891	
383	LC06			3-	220.711	4-	128.908	
377	LC04			5-	99.145	6-	52.450	
376A	LC04		20mL	7-	140.896	8-	74.833	DF=3 (extra dilution)
409	LC09		10mL	1-	69.257	2-	41.995	
376B	LC04		20mL	3-	145.806	4-	77.151	
410B	LC09			5-	99.409	6-	58.797	
491A	LB10			7-	88.383	8-	47.649	
497A	LB09			1-	29.498	2-	20.368	
490B	LB11			3-	36.186	4-	20.818	
477A	LB12			5-	26.140	6-	16.402	
464B	LB13			7-	24.136	8-	13.682	
Stand-by				1-				
Std	Low			2-				
Std	High			4-				
Blank	by			6-		8-		

395B

CHL

LC08

10 m

19-005

Bot 10

← vial
w/out
filter
paper

374

CHL

LC04

30 m

19-005

Bot 7

373

CHL

LC04

50 m

19-005

Bot 6

375

CHL

LC04

20 m

19-005

Bot 8

367

CHL

LC02

5 m

19-005

Bot 8

365

CHL

LC02

10 m

19-005

Bot 6

364A

CHL

LC02

20 m

19-005

Bot 5

362

CHL

LC02

50 m

19-005

Bot 3

363

CHL

LC02

30 m

19-005

Bot 4

5146

CHL

Loop LC06

5 m

19-005

Bot 1

385A

CHL

LC06

5 m

19-005

Bot 7

384

CHL

LC06

10 m

19-005

Bot 6

382

CHL

LC06

30 m

19-005

Bot 4

381

CHL

LC06

50 m

19-005

Bot 3

383

CHL

LC06

20 m

19-005

Bot 5

377

CHL

LC04

5 m

19-005

Bot 10

376A

CHL

LC04

10 m

19-005

Bot 9

409

CHL

LC09

30 m

19-005

Bot 13

376B

CHL

LC04

10 m

19-005

Bot 9

410B

CHL

LC09

20 m

19-005

Bot 14

491A

CHL

LB10

5 m

19-005

Bot 1

497A

CHL

LB09

30 m

19-005

Bot 6

490B

CHL

LB11

5 m

19-005

Bot 11

A-477

CHL

LB12

20 m

19-005

Bot 13

464

CHL

LB13

5 m

19-005

Bot 1

Chlorophyll Data Sheet

Cruise: LA PEROUSE

Page: 13 of 13

Dates of Cruise: 2014-06-5

Time and date acetone added: 19 Jun 14 @ 4:07pm

Analyst: Julian

Time and date out of freezer: 20 Jun 14 @ 2:08pm

Time analysis started: 3:13pm

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	0.015			
STD			LOW	2-	10.693			
STD			HIGH	4-	58.682			
Blank				6-	0.002	8-	0.063	
3858	LC06			1-	91.907	2-	48.787	
3648	LC02			3-	119.928	4-	77.295	76.936
356	LC01			5-	28.246	6-	19.999	
355	LC01			7-	15.218	8-	11.178	
359A	LC01			1-	60.028	2-	40.386	
5136A	Loop LC01			3-	55.429	4-	30.807	
5136B	Loop LC01			5-	56.249	6-	31.615	
359B	LC01			7-	72.802	8-	40.618	
358	LC01			1-	203.291	2-	113.654	
357	LC01			3-	59.815	4-	41.427	
Switch to vector cruise to Rede standby etc...				5-		6-		
				7-		8-		
				1-		2-		
				3-		4-		
				5-		6-		
				7-		8-		
				1-		2-		
				3-		4-		
				5-		6-		
				7-		8-		
Stand-by				1-				
Std	Low			2-				
Std	High			4-				
Blank	by			6-		8-		

385B	364B	356	355	359A	5136A	5136B	359B	358	357
CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL
LC06	LC02	LC01	LC01	LC01	LoopLC01	LoopLC01	LC01	LC01	LC01
5 m	20 m	30 m	50 m	5 m	5 m	5 m	5 m	10 m	20 m
19-005	19-005	19-005	19-005	19-005	19-005	19-005	19-005	19-005	19-005
Bot 7	Bot 5	Bot 4	Bot 3	Bot 7	Bot 1	Bot 1	Bot 7	Bot 6	Bot 5