

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: 2020 083 Cast/Station Name: Various Analysis Date (dd | mmm | yyyy): 13 | NOV | 2020

Autosal Model: 8400B Serial Number: 68572

Initial Standby Value: 24+6034 Ratio After Standardization: 24+6052

Cell Standardization (Daily)	Standardization Values:	Standard Info.	Bath Temperature: <u>24</u> °C
Conductivity must be ± 0.00001 compared to Standard	Before: <u>5.50</u> After: <u>5.68</u>	K ₁₅ VALUE: 0.999 <u>85</u> Batch #: <u>P163</u> Batch Date: <u>10 April 2022</u>	Sample Temperature: _____ °C Room Temperature: <u>22.6</u> °C Analyst: <u>RF</u>
	Notes: _____		

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
271	Chat 2	2	1.8+8384	1.8+7424	1.8+7414	32.5711
257	CH 14	2	1.8+7401	1.8+7401		32.5667
242	CH 16	12	1.6+0226	1.6+0215		27.4001
241	CH 16	11	1.6+8073	1.6+8076		28.8811
332	CH 25	7	1.8+3247	1.8+3257	1.8+3259	31.7717
301	CH 21	7	1.8+2656	1.8+2658		31.6566
277	Chat 2	8	1.8+2384	1.8+2384		31.6045
343	Chat 1	2	1.8+5726	1.8+5727		32.2450
296	CH 21	2	1.8+6335	1.8+6333		32.3615
243	CH 16	13	1.5+3698	1.5+3689		26.1759
240	CH 16	10	1.7+8111	1.7+8119		30.7888
307	CH 21	13	1.6+9231	1.6+9231		29.1003
268	CH 14	13	1.6+7921	1.6+7920		28.8523
327	CH 25	2	1.8+5795	1.8+5799		32.2588
262	CH 14	7	1.8+1719	1.8+1718		31.4771
333	CH 25	8	1.8+3303	1.8+3305		31.7804
284	Chat 2	15	1.7+9762	1.7+9770		31.1038
1	RIVER	1	0.0+4486	0.0+4469	0.4460	0.6025 SKEENA RIVER
2	SKEENA R.	2	0.0+3226	0.0+3225		0.4279
5	"	5	0.8+5086	0.8+5087		13.7483
3	"	3	0.1+6232	0.1+6217	0.1+6213	2.3306
4	"	4	0.6+1933	0.6+1943		9.7522
340	CH 25	15	1.5+9913	1.5+9922		27.3432
339	CH 25	14	1.6+0123	1.6+0123		27.3815
						Final Standby Value: <u>24+6052</u>

Notes: _____

Page 1 of 20

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2020 083</u>	Cast/Station Name: _____	Analysis Date (dd mmm yyyy): <u>13</u> <u>Nov</u> <u>2020</u>
Autosal Model: _____	Serial Number: <u>687572</u>	
Initial Standby Value: _____	Ratio After Standardization: _____	
Cell Standardization (Daily)	Standardization Values:	Standard Info.
Conductivity must be ± 0.00001 compared to Standard 	Before: _____	K ₁₅ VALUE: 0.999 _____
	After: _____	Batch #: _____
	Notes: _____	Batch Date: _____
		Bath Temperature: _____ °C
		Sample Temperature: _____ °C
		Room Temperature: <u>22.7</u> °C
		Analyst: <u>RF</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
591A	FOC 1	6	1.8+8375	1.8+8377		32.7539
604	Doug 45	3	1.8+1615	1.8+1613		31.4572
601	Doug 40	1	1.5+0106	1.5+0103		25.5065
600	Doug 31	1	1.3+3974	1.3+3982		22.5217
595	FOC 1	10	1.7+8284	1.7+8294		30.8219
597	FOC 1	12	1.6+6612	1.6+6610		28.6046
593	FOC 1	8	1.8+4160	1.8+4164		31.4451
594	FOC 1	9	1.8+0361	1.8+0362		31.2174
624	JPS 4	2	1.9+0311	1.9+0311		33.1266
610	JPS 7	2	1.8+8932	1.8+8932		32.8610
621	JPS 7	13	1.8+2922	1.8+2925		31.7078
603	Doug 45	2	1.9+0852	1.9+0856		33.2309
639	JPS 4	17	1.8+3534	1.8+3533		31.8247
605	Doug 45	4	1.3+7506	1.3+7507		23.1714
592	FOC 1	7	1.8+7305	1.8+7311		32.5487
5206	loop 206	1	1.4+4445	1.4+4445		24.4543
596	FOC 1	11	1.6+9880	1.6+9883		29.2235
633	JPS 4	11	1.8+5410	1.8+5410		32.1844
642	Juan 2	2	1.8+9588	1.8+9588		32.9874
586A	FOC 1	1	1.9+0364	1.9+0365		33.1366
598	FOC 1	13	1.3+0247	1.3+0245		21.8366
599	Doug 26	1	1.4+1650	1.4+1653		23.9367
615	JPS 7	7	1.8+4931	1.8+4932		32.0924
606	Doug 45	5	1.3+7072	1.3+7070		23.0910
						Final Standby Value:
						<u>24+6052</u>

Notes: _____	Page 3 of 20
--------------	--------------

624	594	593	597	595	600	601	604	591A
SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL
JPS4	FOC1	FOC1	FOC1	FOC1	Doug31	Doug40	Doug45	FOC1
2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083
b-5 m	30 m	50 m	5 m	20 m	0 m	0 m	50 m	100 m
bot 2	bot 9	bot 8	bot 12	bot 10	bot 1	bot 1	bot 3	bot 6
633	596	5206	592	605	639	603	621	610
SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL
JPS4	FOC1	loop206	FOC1	Doug45	JPS4	Doug45	JPS7	JPS7
2020-083	2020-083	2020-83	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083
50 m	10 m	m	75 m	0 m	0 m	b-5 m	0 m	b-5 m
bot 11	bot 11	bot 1	bot 7	bot 4	bot 17	bot 2	bot 13	bot 2
606	615	599	598	586A	642	591A	591A	591A
SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL
Doug45	JPS7	Doug26	FOC1	FOC1	Juan2	FOC1	FOC1	FOC1
2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083
0 m	50 m	0 m	0 m	b-5 m	b-5 m	b-5 m	b-5 m	b-5 m
bot 5	bot 7	bot 1	bot 13	bot 1	bot 2	bot 1	bot 2	bot 2

Final Standby Value: _____

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2020 083</u>		Cast/Station Name: <u>various</u>		Analysis Date (dd mmm yyyy):	
Autosal Model: <u>8400B</u>		Serial Number: <u>68572</u>		<u>13</u> <u>Nov</u> <u>2020</u>	
Initial Standby Value: _____		Ratio After Standardization: _____			
Cell Standardization (Daily)	Standardization Values:	Standard Info.	Bath Temperature: <u>24</u> °C		
Conductivity must be ± 0.00001 compared to Standard 	Before: _____	K ₁₅ VALUE: <u>0.999</u>	Sample Temperature: _____ °C		
	After: _____	Batch #: _____	Room Temperature: <u>22.5</u> °C		
	Notes: _____	Batch Date: _____	Analyst: <u>RF</u>		

[illegible]

Notes: _____

Page 5 of 20

AUTOSAL ANALYSIS LOGSHEET

$K_{15} \times 2 = 1.99966$

Cruise ID: <u>2020 083</u>	Cast/Station Name: <u>Vancouver</u>	Analysis Date (dd mmm yyyy): <u>17 Nov 2020</u>
Autosal Model: <u>S400B</u>	Serial Number: <u>68572</u>	
Initial Standby Value: <u>24 + 6052</u>	Ratio After Standardization: <u>24 + 6055</u>	

Cell Standardization (Daily)	Standardization Values:	Standard Info.	Bath Temperature: <u>24</u> °C
Conductivity must be ± 0.00001 compared to Standard	Before: <u>5.68</u>	K ₁₅ VALUE: 0.999 <u>83</u>	Sample Temperature: _____ °C
	After: <u>5.70</u>	Batch #: <u>P162</u>	Room Temperature: <u>21.98</u> °C
	Notes: _____	Batch Date: <u>16 April 2021</u>	Analyst: <u>RF</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
230	CH17	8				
190	CH11	13	1.5+9141	1.5+9144	27.1476	27.1476
167	Chat3	14	1.5+8847	1.5+8847		27.1417
236	CH16	6	1.8+5542	1.8+5542		32.2094
168	Chat3	15	1.5+8759	1.5+8757		27.1252
235	CH16	5	1.8+7427	1.8+7428		32.5714
234	CH16	4	1.8+9603	1.8+9605		32.4901
152	CH08	13	1.5+6337	1.5+6339		26.6215
162	Chat3	9	1.7+9131	1.7+9132		30.9825
130	CH05	13	1.6+0773	1.6+0775		27.5041
221	CH12	13	1.5+5245	1.5+5247		26.4668
155	Chat3	2	1.9+0810	1.9+0816	1.9+0819	33.2234
159	Chat3	6	1.8+2822	1.8+2821		31.6880
185	CH11	8	1.7+9770	1.7+9771		31.1048
147	CH08	8	1.7+9000	1.7+9000		30.9575
141	CH08	2	1.9+0082	1.9+0083		Bottle was filled too full. 33.0825
160	Chat3	7	1.8+2889	1.8+2889		31.7011
161	Chat3	8	1.8+1540	1.8+1540		31.4429
210	CH12	2	1.9+0579	1.9+0581		33.1782
231	CH16	1	1.8+9794	1.8+9799		33.0275
239	CH16	9	1.8+0423	1.8+0421		31.2090
216	CH12	8	1.8+0515	1.8+0514		31.2465
179	CH11	2	1.9+0342	1.9+0342		31.1322
237	CH16	7	1.8+2821	1.8+2822		31.6880
						Final Standby Value: <u>24 + 6055</u>

Notes: _____

Page 7 of 20

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2020 083</u>	Cast/Station Name: _____	Analysis Date (dd mmm yyyy): <u>17 Nov 2020</u>
Autosal Model: _____	Serial Number: <u>68572</u>	
Initial Standby Value: <u>24+6055</u>	Ratio After Standardization: _____	
Cell Standardization (Daily)	Standardization Values:	Standard Info.
Conductivity must be ± 0.00001 compared to Standard	Before: _____ After: _____ Notes: _____	K ₁₅ VALUE: 0.999 _____ Batch #: _____ Batch Date: _____
		Bath Temperature: <u>24</u> °C Sample Temperature: _____ °C Room Temperature: <u>21.67</u> °C Analyst: <u>RF</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
537	GC 74	2	0.1+0709	0.1+0707		1.5032
535	GC 68	2	0.2+2811	0.2+2811		3.3471
506	OGCH 46	13	1.6+3157	1.6+3171	1.6+3175	27.9547 Cracked rim
5118	loop 118	1	1.5+2791	1.5+2791		26.0079
532	GC 60	1	1.8+6376	1.8+6378	1.8+6384	1.8.6384. 32.3702
526	GC 31	1	0.8+3074	0.8+3069		13.3916
508	GC 36	1	1.6+1593	1.6+1604	1.6+1611	Autosal bung is degrading. Bung replaced.
5137	loop 137	1	0.8+6326	0.8+6200	0.8+6277	0.8+6269. 77 0.8+6267 ✓
533	GC 60	2	0.3+8025	0.3+8025		5.7741
530	GC 51	1	1.8+6437	1.8+6438		32.3815
540	44177	1	1.1+9361	1.1+9360		22.3 19.8527
531	GC 51	2	0.2+5006	0.2+5006		3.9607
536	GC 74	1	1.8+3569	1.8+3591	1.8+3929	1.8.3602 / 3.18354
524	UC 31	1	1.3+2801	1.3+2801		22.3053. Needing 4 flushes
538B	Kitlope	1	0.0+0118	0.0+0118		0.0140
525	44191	1	1.4+4936	1.4+4940		24.5457
534	GC 68	1	1.8+5923	1.8+5975		32.2928
538A	Kitlope	1	0.0+0137	0.0+0128	0.0+0120	0.0.0118 / BS=0.0149
542A	Dougill	2	1.9+0320	1.9+0323		33.1284
539	44180	1	1.2+4937	1.2+4936		20.8664
528	GC 38	2	0.9+9944	0.9+9944		16.3651
500	OGCH 46	7	1.8+1827	1.8+1835	1.8+1843	1.8+1843 31.4995
527	GC 38 1	1	1.8+5910	1.8+5909		32.2802. cracked rim.
529	GC 44	1	0.3+3185	0.3+3185		Final Standby Value: <u>24+6054</u>

Notes: I think there is something upstream of the electrode plugging / failed pumping. Extra flushing was done to get stable readings.

537 SAL GC74 2020-083 0 m bot 2

535 SAL GC68 2020-083 0 m bot 2

506 SAL OGCH46 2020-083 0 m bot 13

5118 SAL loop118 2020-83 m bot 1

532 SAL GC60 2020-083 mid m bot 1

526 SAL GC31 2020-083 0 m bot 1

508 SAL GrC36 2020-083 0 m bot 1

Analysis Date (dd | mmm | yyyy):

Ratio After Standardization:

5137 SAL loop137 2020-83 m bot 1 538B

533 SAL GC60 2020-083 0 m bot 2

530 SAL GC51 2020-083 mid m bot 1

540 SAL GC51 2020-083 0 m bot 1

531 SAL GC51 2020-083 0 m bot 2

536 SAL GC74 2020-083 mid m bot 1

524 SAL UC31 2020-083 0 m bot 1

538A SAL Kitlope 2020-083 surface m bot 1

542A SAL Doug11 2020-083 b-5 m bot 2

539 SAL GC15 2020-083 0 m bot 1

528 SAL GC38 2020-083 0 m bot 2

Bath Temperature: °C

Sample Temperature: °C

Water Temperature: °C

Analyst:

Comments

500 SAL OGCH46 2020-083 50 m bot 7

527 SAL GC38 2020-083 mid m bot 1

529 SAL GC44 2020-083 0 m bot 1

Final Standby Value:

Notes:

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2020-083</u>	Cast/Station Name: _____	Analysis Date (dd mmm yyyy): <u>20 Nov 2020</u>
Autosal Model: <u>8400B</u>	Serial Number: <u>68572</u>	
Initial Standby Value: <u>24 + 6055</u>	Ratio After Standardization: <u>24 + 6019</u>	
Cell Standardization (Daily)	Standardization Values:	Standard Info.
Conductivity must be ± 0.00001 compared to Standard 	Before: <u>5.71</u> After: <u>5.22</u> Notes: _____	K ₁₅ VALUE: 0.999 <u>83</u> Batch #: <u>P162</u> Batch Date: <u>16 April 2021</u>
		Bath Temperature: <u>24</u> °C Sample Temperature: _____ °C Room Temperature: <u>22.13</u> °C Analyst: <u>RF</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
5002	loop 02	1	1.8+4088	1.8+4088		31.9310
10	HEC 1	10	1.7+8703	1.7+8703		30.9008
12	HEC 1	12	1.7+8708	1.7+8707		30.9021
3A	HEC 1	3	1.8+9122	1.8+9122		32.8978
2	HEC 1	2	1.9+3438	1.9+3439		33.7300
9	HEC 1	9	1.7+9023	1.7+9024		30.9623
14	SC69	2	1.9+1088	1.9+1091		33.2769
13A	SC69	1	1.9+1103	1.9+1104		chipped rim 33.2795
13B	SC69	1	1.9+1108	1.9+1112		33.2807
4	HEC 1	4	1.8+7215	1.8+7218		32.5315
20	SC69	8	1.8+9649	1.8+9650		32.9996
24	SC69	12	1.8+1123	1.8+1143	1.8+1145	31.3660
6	HEC 1	6	1.8+4972	1.8+4973		32.1004
23	SC69	11	1.8+2678	1.8+2678		31.6612
18	SC69	6	1.9+0529	1.9+0534		33.1694
19	SC69	7	1.9+0151	1.9+0153		chipped rim 33.0960
17	SC69	5	1.9+0762	1.9+0763		severely chipped rim new bung
3B	HEC 1	3	1.8+9119	1.8+9124		32.8979
22	SC69	10	1.8+6110	1.8+6110		32.3191
21	SC69	9	1.8+7821	1.8+7824		32.6480
15	SC69	3	1.9+1018	1.9+1019		33.2630
16	SC69	4	1.9+0942	1.9+0944		33.2485
7	HEC 1	7	1.8+3190	1.8+3191		31.7592
8	HEC 1	8	1.8+2190	1.8+2191		31.5679
						Final Standby Value:
						<u>24 + 6018</u>

Notes: Temp @ end = 22.46

Page 11 of 20

Institute of Ocean Sciences Ocean Sciences Division

Notes: _____

Page 12 of 20

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2020 083</u>	Cast/Station Name: _____	Analysis Date (dd mmm yyyy): _____
Autosal Model: <u>8400</u>	Serial Number: <u>68572</u>	<u>20 Nov 2020</u>
Initial Standby Value: <u>24 + 6018</u>	Ratio After Standardization: _____	
Cell Standardization (Daily)	Standardization Values:	Standard Info.
Conductivity must be ± 0.00001 compared to Standard 	Before: <u>5.22</u>	K ₁₅ VALUE: 0.999 _____
	After: _____	Batch #: _____
	Notes: _____	Batch Date: _____
		Bath Temperature: <u>24</u> °C
		Sample Temperature: _____ °C
		Room Temperature: <u>21.7</u> °C
		Analyst: <u>RF</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
348	Chat 1	7	1.8+3298	1.8+3299		31.7800
404	PI 1	4	1.9+1742	1.9+1745		33.4028
354	Chat 1	13	1.3+4678	1.3+4672	1.3+4673	22.6498
355	Chat 1	14	1.3+5181	1.3+5182		22.7432
405	PI 1	5	1.9+1689	1.9+1704	1.9+1707	33.3943
416	PI 1	16	1.6+3711	1.6+3708		28.0573
417	PI 1	17	1.5+4733	1.5+4734		26.3713
410	PI 1	10	1.8+8861	1.8+8869	1.8+8865	32.8486
408	PI 1	8	1.9+1182	1.9+1180		33.2942
413	PI 1	13	1.8+2818	1.8+2819		chipped rim 31.6880
406	PI 1	6	1.9+1517	1.9+1517		33.3588
407	PI 1	7	1.9+1381	1.9+1334		33.3236
409	PI 1	9	1.9+0866	1.9+0866		33.2335
414	PI 1	14	1.7+9043	1.7+9045		30.9663
5077	loop 74	1	1.5+7542	1.5+7542		26.8974
396	CH 19	2	1.8+4943	1.8+4946		chipped rim 32.0951
399	CH 19	11	1.4+8400	1.4+8398		25.1892
415	PI 1	15	1.7+6396	1.7+6393		30.4604
419	PI 1	19	1.4+5787	1.4+5787		24.7033
411	PI 1	11	1.8+5370	1.8+5374		32.1775
393	CH 19	5	1.8+1809	1.8+1809		31.4948
441	PI 5	1	1.4+4991	1.4+4997	1.4+5005	1.4+4997 / 24.5570
402	PI 1	2	1.9+1741	1.9+1748	1.9+1744	33.4031
421	PI 2	1	1.3+2653	1.3+2653		22.2783
						Final Standby Value:
						<u>24 + 6018</u>

Notes: 21.85°C at end.

Page 13 of 20

Water Properties Group

Institute of Ocean Sciences, Ocean Sciences Division

348		404		354		355		405		Analysis Date (dd mmm yyyy):	
SAL	Chat1	SAL	PI1	SAL	Chat1	SAL	Chat1	SAL	PI1		
2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083		
50 m	500 m	0 m	0 m	0 m	0 m	0 m	0 m	400 m			
bot 7	bot 4	bot 13	bot 14	bot 14	bot 14	bot 14	bot 14	bot 5			
Conductivity must be 0.0001										Before:	
com										After:	
Notes										Notes	
De										De	
Sal										Sal	
Salinity										Salinity	
Bath Temperature: _____ °C											
Sample Temperature: _____ °C											
Room Temperature: _____ °C											
Analyst: _____											
416										417	
SAL										SAL	
PI1										PI1	
2020-083										2020-083	
5 m										5 m	
bot 16										bot 17	
410										410	
SAL										SAL	
PI1										PI1	
2020-083										2020-083	
100 m										100 m	
bot 10										bot 10	
408										408	
SAL										SAL	
PI1										PI1	
2020-083										2020-083	
200 m										200 m	
bot 8										bot 8	
413										413	
SAL										SAL	
PI1										PI1	
2020-083										2020-083	
50 m										50 m	
bot 13										bot 13	
390										390	
SAL										SAL	
CH19										CH19	
2020-083										2020-083	
b-5 m										b-5 m	
bot 2										bot 2	
406										406	
SAL										SAL	
PI1										PI1	
2020-083										2020-083	
300 m										300 m	
bot 6										bot 6	
407										407	
SAL										SAL	
PI1										PI1	
2020-083										2020-083	
250 m										250 m	
bot 7										bot 7	
409										409	
SAL										SAL	
PI1										PI1	
2020-083										2020-083	
150 m										150 m	
bot 9										bot 9	
414										414	
SAL										SAL	
PI1										PI1	
2020-083										2020-083	
30 m										30 m	
bot 14										bot 14	
5077										5077	
SAL										SAL	
loop74										loop74	
2020-83										2020-83	
m										m	
bot 1										bot 1	
399										399	
SAL										SAL	
CH19										CH19	
2020-083										2020-083	
0 m										0 m	
bot 11										bot 11	
415										415	
SAL										SAL	
PI1										PI1	
2020-083										2020-083	
20 m										20 m	
bot 15										bot 15	
419										419	
SAL										SAL	
PI1										PI1	
2020-083										2020-083	
0 m										0 m	
bot 19										bot 19	
411										411	
SAL										SAL	
PI1										PI1	
2020-083										2020-083	
75 m										75 m	
bot 11										bot 11	
393										393	
SAL										SAL	
CH19										CH19	
2020-083										2020-083	
50 m										50 m	
bot 5										bot 5	
441										441	
SAL										SAL	
PI5										PI5	
2020-083										2020-083	
0 m										0 m	
bot 1										bot 1	
402										402	
SAL										SAL	
PI1										PI1	
2020-083										2020-083	
b-5 m										b-5 m	
bot 2										bot 2	
421										421	
SAL										SAL	
PI2										PI2	
2020-083										2020-083	
0 m										0 m	
bot 1										bot 1	
Final Standby Value:											

Notes: _____

Page 14 of 20

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2020 083</u>	Cast/Station Name: _____	Analysis Date (dd mmm yyyy): <u>20 Nov 2020</u>
Autosal Model: <u>8400B</u>	Serial Number: <u>68572</u>	
Initial Standby Value: <u>24 + 6018</u>	Ratio After Standardization: _____	
Cell Standardization (Daily)	Standardization Values:	Standard Info.
Conductivity must be ± 0.00001 compared to Standard	Before: <u>5.22</u>	K ₁₅ VALUE: 0.999
	After: _____	Batch #: _____
	Notes: _____	Batch Date: _____
	Bath Temperature: <u>24</u> °C	Sample Temperature: _____ °C
	Room Temperature: <u>21.77</u> °C	Analyst: <u>RP</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
442	PI 6	1	1.9+0845	1.9+0867	1.9+0878	33.2340
475	MP 55	7	1.8+1948	1.8+1948		31.5215
451	Ob 5	2	1.8+8353	1.8+8353		33.7498
443	PI 6	2	1.3+3575	1.3+3571		22.4476
448	PORT 1	1	0.7+9779	0.7+9780		12.8187
444	PI 7	1	1.8+8603	1.8+8620	1.8+8625	32.8005
445	PI 7	2	0.9+8700	0.9+8696		16.1440
522	CH 29	13	1.5+1079	1.5+1087	1.5+1093	16.1440 (not saved)
449	Ob 2	1	1.2+1395	1.2+1391		28.6900
467	Ob 5	18	1.4+2937	1.4+2940		20.2222
461	Ob 5	12	1.8+0875	0.8+0880		24.1752
495	OGCH 46	2	1.8+3808	1.8+3809		31.3167
423	PI 4	2	1.9+1730	1.9+1733		31.8778
446	PORT 2	1	1.8+2875	1.8+2873		33.4005
381	CH 27	9	1.5+7932	1.5+7931		31.6984
438	PI 4	17	1.3+3324	1.3+3325		26.9765
4338	PI 4	12	1.8+2829	1.8+2837	1.8+2841	27.4020 ← Super weird! Duplicates?
511	CH 29	2	1.8+3470	1.8+3473		31.6912
470	MP 55	2	1.8+5362	1.8+5364		31.8129
4334	PI 4	12	1.8+2879	1.8+2878		31.1756 ← 31.1756
481	MP 55	13	1.5+9152	1.5+9152		27.1995
516	CH 29	7	1.8+2781	1.8+2784		31.6811
374	CH 27	2	1.8+1190	1.8+1189		31.3763
447	PORT 2	2	0.8+3186	0.8+3192	0.8+3191	13.4131
						Final Standby Value: <u>24 + 6018</u>

Notes: T @ end 21.63°C

Page 15 of 20

Water Properties Group

Institute of Ocean Sciences Ocean Sciences Division

442 SAL PI6 2020-083 mid m bot 1	475 SAL MP55 2020-083 50 m bot 7	451 SAL Ob5 2020-083 b-5 m bot 2	443 SAL PI6 2020-083 0 m bot 2	448 SAL PORT1 2020-083 0 m bot 1	444 SAL PI7 2020-083 mid m bot 1
445 SAL PI7 2020-083 0 m bot 2	522 SAL CH29 2020-083 0 m bot 13	449 SAL Ob2 2020-083 0 m bot 1	467 SAL Ob5 2020-083 0 m bot 18	461 SAL Ob5 2020-083 50 m bot 12	495 SAL OGCH46 2020-083 b-5 m bot 2
423 SAL PI4 2020-083 b-5 m bot 2	446 SAL PORT2 2020-083 mid m bot 1	381 SAL CH27 2020-083 0 m bot 9	438 SAL PI4 2020-083 0 m bot 17	433B SAL PI4 2020-083 50 m bot 12	511 SAL CH29 2020-083 b-5 m bot 2
470 SAL MP55 2020-083 b-5 m bot 2	433A SAL PI4 2020-083 50 m bot 12	481 SAL MP55 2020-083 0 m bot 13	516 SAL CH29 2020-083 50 m bot 7	374 SAL CH27 2020-083 b-5 m bot 2	447 SAL PORT2 2020-083 0 m bot 2
Conductivity must be ± 0.00001 Before: _____ K₁₅ VALUE: 0.999 _____ Sample Temperature: _____ °C Room Temperature: _____ °C Analyst: _____ Comm: _____ Final Standby Value: _____					

Notes: _____

Page 16 of 20

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2020-083</u>	Cast/Station Name: _____	Analysis Date (dd mmm yyyy): <u>23 Nov 2020</u>
Autosal Model: _____	Serial Number: <u>68572</u>	
Initial Standby Value: <u>24+6018</u>	Ratio After Standardization: _____	
Cell Standardization (Daily)	Standardization Values:	Standard Info.
Conductivity must be ± 0.00001 compared to Standard 	Before: <u>5.22</u> After: <u>5.22</u> Notes: <u>no change</u>	K ₁₅ VALUE: <u>0.99985</u> Batch #: <u>P163</u> Batch Date: <u>10 April 2022</u>
		Bath Temperature: <u>24</u> °C Sample Temperature: _____ °C Room Temperature: <u>21.18</u> °C Analyst: <u>RF</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
552	Doug 06	1	1.8+8568	1.8+8566		32.7906
553	Doug 06	2	1.8+8575	1.8+8575		32.7929
544	Doug 11	4	1.8+7393	1.8+7396		32.5653
551	Doug 08	1	1.1+9188	1.1+9185		19.8213
587	FOC 1	2	1.9+0243	1.9+0253	1.9+0264/1.9+0267	33.1158
555A	Doug 04	2	1.8+9912	1.8+9917		33.0500
549	Doug 11	9	1.1+3666	1.1+3667		18.8230
584	Doug 02	2	1.1+1594	1.1+1595		18.4499
548	Doug 11	8	1.1+3609	1.1+3613		18.8131
571	KIT 1	4	1.8+7264	1.8+7272	1.8+7275	32.5415
583	Doug 02	1	1.8+6664	1.8+6667		32.4252
560	Doug 04	7	1.8+1297	1.8+1299		31.3965
543	Doug 11	3	1.8+9237	1.8+9238		33.0159
565	Doug 04	12	1.0+9013	1.0+9012		17.9855
581	KIT 4	14	1.0+7880	1.0+7880		17.7826
585	Doug 16	1	1.1+1540	1.1+1541		18.4403
574	KIT 1	7	1.8+2110	1.8+2129	1.8+2135	31.5553
586B	FOC 1	1	1.9+0366	1.9+0369		33.1373
555B	Doug 04	2	1.8+9913	1.8+9913		33.0499
588	FOC 1	3	1.9+0157	1.9+0156		33.0964
589	FOC 1	4	1.8+9922	1.8+9920		33.0513
542B	Doug 11	2	1.9+0325	1.9+0326		33.1291
590	FOC 1	5	1.8+9310	1.8+9310		32.9339
591B	FOC 1	6	1.8+8387	1.8+8387		32.7560
						Final Standby Value: <u>24+6018</u>

Notes: Temp at end. 21.78

Page 17 of 20

nces, Ocean Sciences Division

Notes: _____ Page 18 of 20

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2020-083</u>	Cast/Station Name: _____	Analysis Date (dd mmm yyyy): <u>23 Nov 2020</u>
Autosal Model: _____	Serial Number: <u>68572</u>	
Initial Standby Value: <u>24+2018/9</u>	Ratio After Standardization: _____	
Cell Standardization (Daily)	Standardization Values:	Standard Info.
Conductivity must be ± 0.00001 compared to Standard	Before: <u>5.22</u>	K ₁₅ VALUE: 0.999
	After: _____	Batch #: _____
	Notes: _____	Batch Date: _____
		Bath Temperature: <u>24</u> °C
		Sample Temperature: _____ °C
		Room Temperature: <u>21.76</u> °C
		Analyst: <u>RF</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
27	SC69	15	1.6+0854	1.6+0854		27.5191
28	SC69	16	1.5+7640	1.5+7640		26.9157
5022	loop 22	1	1.4+0636	1.4+0635		23.7487
26	SC69	14	1.7+2795	1.7+2778	1.7+2777	29.8105
30	SC61	2	1.9+1029	1.9+1034		33.2655
25	SC69	13	1.7+9892	1.7+9900	1.7+9900	Comms problem. 31.1297
104	CH02	16	1.4+8331	1.4+8331		25.1763
99	CH02	11	1.8+4425	1.8+4430		31.4959
59	HECS 4	12	1.8+0288	1.8+0290		31.2038
53	HECS 4	6	1.8+3416	1.8+3418		31.8023
40	SC61	12	1.8+2665	1.8+2665		31.6582
46	SC61	18	1.4+5116	1.4+5118		24.5786
125	CH05	8	1.8+1242	1.8+1245		31.3861
119	CH05	2	1.9+0287	1.9+0288		33.1218
76	HECS 8	2	1.9+0288	1.9+0288		33.1218
62	HECS 7	2	1.9+0401	1.9+0401		33.1439
90	CH02	2	1.9+1540	1.9+1540		severely clipped rim. 33.368
88	CH03	1	1.6+7323	1.6+7323		28.7388
67	HECS 7	7	1.8+2652	1.8+2655		31.6559
73	HECS 7	13	1.8+2237	1.8+2237		31.5761
80	HECS 8	6	1.8+5241	1.8+5244		32.1522
44	HECS 40	2	1.8+8538	1.8+8540		32.7855
129	CH05	12	1.6+0774	1.6+0772		labelled as "NA-F" 27.5039
86	HECS 8	12	1.8+0100	1.8+0104	1.8+0103	
						Final Standby Value:
						<u>24+6018</u>

Notes: Temp at end = 22.36

Page 19 of 20

Cell Standardization (Daily)		Standardization Values:		Standard Info.	
27 SAL SC69 2020-083 5 m bot 15	28 SAL SC69 2020-083 0 m bot 16	5022 SAL loop22 2020-83 m bot 1	26 SAL SC69 2020-083 10 m bot 14	30 SAL SC61 2020-083 b-5 m bot 2	25 SAL SC69 2020-083 20 m bot 13
104 SAL CH02 2020-083 0 m bot 16	99 SAL CH02 2020-083 50 m bot 11	59 SAL HECS4 2020-083 0 m bot 12	53 SAL HECS4 2020-083 50 m bot 6	40 SAL SC61 2020-083 50 m bot 12	46 SAL SC61 2020-083 0 m bot 18
125 SAL CH05 2020-083 30 m bot 8	119 SAL CH05 2020-083 b-5 m bot 2	76 SAL HECS8 2020-083 b-5 m bot 2	62 SAL HECS7 2020-083 b-5 m bot 2	90 SAL CH02 2020-083 b-5 m bot 2	88 SAL CH03 2020-083 0 m bot 1
67 SAL HECS7 2020-083 50 m bot 7	73 SAL HECS7 2020-083 0 m bot 13	80 SAL HECS8 2020-083 50 m bot 6	49 SAL HECS4 2020-083 b-5 m bot 2	129 Nut-F CH05 2020-083 0 m bot 12	86 SAL HECS8 2020-083 0 m bot 12
Final Standby Value:					

Notes: _____

Page 20 of 20