

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2024-002</u>	Cast/Station Name: <u>Line P</u>	Analysis Date (dd mmm yyyy): <u>19 Feb 2024</u>
Autosal Model: <u>8400B</u>	Serial Number: <u>73274</u>	
Initial Standby Value: <u>24 + 5984</u>	Ratio After Standardization: <u>- 0.000003</u>	
Cell Standardization (Daily)	Standardization Values:	Standard Info.
Conductivity must be ± 0.00001 compared to Standard 	Before: _____ After: _____ Notes: _____	K ₁₅ VALUE: <u>0.99986</u> Batch #: <u>P165</u> Batch Date: <u>15 Apr 2024</u>
		Bath Temperature: <u>24</u> °C Sample Temperature: <u>22</u> °C Room Temperature: <u>21.2</u> °C Analyst: <u>Chloe Immenh</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
562	SC04	0m	1.66666	1.66666		
5062	loop 62	0m	1.86501	1.86502		
5063	loop 63	0m	1.86567	1.86569		
5060	loop 60	0m	1.86548	1.86549		
5061	loop 61	0m	1.86366	1.86365		
5056	loop 56	0m	1.86912	1.86913	1.86912	1st reading spiky
5059	loop 59	0m	1.86886	1.86887		
5054	loop 54	0m	1.86274	1.86277		
5055	loop 55	0m	1.86612	1.86613		
297	P23	5m	1.86461	1.86463		
270	P24	3500m	1.98315	1.98312		
271	P24	3000m	1.98220	1.98222		
272B	P24	2500m	1.98074	1.98073		
273	P24	2000	1.97849	1.97849		
272A	P24	2500	1.98077	1.98076		
275	P24	1500	1.97404	1.97404		
274	P24	1750	1.97670	1.97677	1.97671	1.97660 dont trust! drifting
303	P22	2500	1.98098	1.98100		
304	P22	2000	1.97873	1.97873		
301	P22	3500	1.98325	1.98326		
5068	P23	loop m	1.86470	1.86471		
306	P22	1500	1.97423	1.97428	1.97426	delete 1
302A	P22	3000	1.98246	1.98250	1.98251	took one reading, started next, realized, then had to reverse x3
305	P22	1750	1.97698	1.97700		
302B	P22	3000	1.98238	1.98239		Final Standby Value:
5072	P21	100pm	1.86783	1.86784		24 + 5985

Notes: got opened early & sat on counter while next readings of 302A were taken

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Initial Standby Value: <u>24 + 5985</u>	Ratio After Standardization: <u>-0.00003</u>	
Cell Standardization (Daily)	Standardization Values:	Standard Info.
Conductivity must be ± 0.00001 compared to Standard 	Before: _____	K ₁₅ VALUE: 0.999 <u>86</u>
	After: _____	Batch #: <u>P165</u>
	Notes: _____	Batch Date: <u>15 Apr. 2024</u>
		Bath Temperature: <u>24</u> °C
		Sample Temperature: <u>22.0</u> °C
		Room Temperature: <u>22.0</u> °C
		Analyst: <u>CT</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
324	P21	5m	1.86783	1.86783		
330	P20	2000	1.97858	1.97859		
329B	P20	2500	1.98694	1.98093		
329A	P20	2500	1.98095	1.98095		
332	P20	1250	1.97126	1.97125		
328	P20	3000	1.98238	1.98239		
333	P20	1000	1.96729	1.96729		
327	P20	3500	1.98310	1.98318		
326	P20	3500	1.98314	1.98316		
331	P20	1500	1.97429	1.97429	1.97431	pretty jumpy readings
349	P20	800	1.96343	1.96342		
5081	P19	loop	1.86101	1.86101		
377	P19	5	1.86102	1.86102		
384	P18	1000	1.96809	1.96809		
380	P18	3000	1.98239	1.98242		
383	P18	1500	1.97444	1.97444		
379B	P18	3500m	1.98310	1.98309		
382	P18	2000	1.97880	1.97880		
381	P18	2500	1.98109	1.98110		
379A	P18	3500	1.98310	1.98309		
402	P17	5	1.86194	1.86194		
5089	P17	loopm	1.86179	1.86174	1.86175	
440	P16	1250	1.97466	1.97464		
477	P14	10	1.86390	1.86392		
463	P14	1250	1.97150	1.97150		Final Standby Value:
462	P14	1500	1.97457	1.97457	1.97459	<u>24 + 5985/6</u>

Notes: _____

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Autosal Model: <u>8400B</u>		Serial Number: <u>73274</u>			
Initial Standby Value: <u>24 + 5985/6</u>		Ratio After Standardization: <u>-0.000003</u>			
Cell Standardization (Daily)	Standardization Values:	Standard Info.		Bath Temperature: <u>24</u> °C	
Conductivity must be ± 0.00001	Before: _____	K ₁₅ VALUE: 0.999 <u>86</u>		Sample Temperature: <u>22.0</u> °C	
compared to Standard 	After: _____	Batch #: <u>P165</u>		Room Temperature: <u>22.6</u> °C	
	Notes: _____	Batch Date: <u>15 Apr 2024</u>		Analyst: <u>CI</u>	

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
464	P14	1000	1.96753	1.96755		
461A	P14	2000	1.97881	1.97883		
461B	P14	2000	1.97883	1.97882		
457	P14	3000	1.98218	1.98220		
460	P14	2500	1.98084	1.98085		
521	# 24	5	1.60232	1.60233		
520A	24	bot -5m	1.80486	1.80485		
488	12	bot -5m	1.79760	1.79759		
500	12	10	1.70813	1.70811		
482	P13	5	1.86510	1.86507		
5101	loop 101	0 m	1.86543	1.86542		
5098	P13	100p	1.86508	1.86507		
555	42	10	1.59748	1.59747		
544	42	bot -5	1.80405	1.80402		
531	GE01	350	1.80548	1.80548		
538	GE01	0	1.60396	1.60395		
524	27	300	1.80329	1.80329		
527	27	5	1.59933	1.59930		
520B	24	bot -5	1.80485	1.80486		
458	P14	bot -10	1.98253	1.98254		
472	P14	125	1.89861	1.89861		
473	P14	100	1.86442	1.86444		
438	P16	2000	1.98123	1.98127	1.98126	
439	P16	1500	1.97894	1.97892		
436	P16	3000	1.98238	1.98238		
437A	P16	2500	1.98149	1.98154	1.98154	Final Standby Value: <u>24 + 5985/6</u>

Notes: DWR Fish-reg 1.97872 1.97870 34.5814 psu

Evt #68
 Fresh-Reg
 P23
 2024-002
 2005 m
 bot 1-2

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Autosal Model: <u>8400B</u>	Serial Number: <u>73274</u>	
Initial Standby Value: <u>24+5985/6</u>	Ratio After Standardization: <u>-0.000003</u>	
Cell Standardization (Daily)	Standardization Values:	Standard Info.
Conductivity must be ± 0.00001 compared to Standard 	Before: _____	K ₁₅ VALUE: 0.999 <u>86</u>
	After: _____	Batch #: <u>P165</u>
	Notes: _____	Batch Date: <u>15-Apr-2024</u>
		Bath Temperature: <u>24</u> °C
		Sample Temperature: <u>22</u> °C
		Room Temperature: <u>23.0</u> °C
		Analyst: _____

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
434	P16	3500	1.98292	1.98294		
435	P16	3500	1.98289	1.98289		
437B	P16	2500	1.98143	1.98146	1.98144	
441	P16	1000	1.96808	1.96808		
474	P14	75	1.86384	1.86384		
478	P14	5	1.86382	1.86382		
465	P14	800	1.96270	1.96275	1.96278	
457	P15	5	1.86194	1.86194		
423	P16	800	1.96362	1.96361		
5094	P15	loop	1.86194	1.86194		
470	P14	200	1.93553	1.93554		
476	P14	25	1.86388	1.86385		
475	P14	50	1.86383	1.86382		
468	P14	300	1.94111	1.94110		
467	P14	400	1.94622	1.94623		
469	P14	250	1.93838	1.93840	1.93838	
471	P14	150	1.92042	1.92044		
466	P14	600	1.95732	1.95733		
5037	loop 37	0m	1.86302	1.86304		
5036	loop 36	0m	1.85851	1.85851		
5034	loop 34	0m	1.86336	1.86336		
5035	loop 35	0m	1.85877	1.85877		
163A	P12	2000m	1.97867	1.97872	1.97871	
165	P12	1250	1.97148	1.97150	1.97154	
183	P12	700	1.95906	1.95906		Final Standby Value:
166	P12	1000	1.96775	1.96777	1.96777	<u>24 + 5985/6</u>

Notes: _____

lots of dropped comms

AUTOSAL ANALYSIS LOGSHEET

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Autosal Model: <u>8400B</u>	Serial Number: <u>73274</u>	
Initial Standby Value: <u>24 + 5985/6</u>	Ratio After Standardization: <u>-0.000003</u>	
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Conductivity must be ± 0.00001 compared to Standard 	Before: _____ After: _____ Notes: _____	K ₁₅ VALUE: 0.999 <u>86</u> Batch #: <u>P165</u> Batch Date: <u>15 Apr 2024</u>
		Bath Temperature: <u>24</u> °C Sample Temperature: <u>22</u> °C Room Temperature: <u>22.3</u> °C Analyst: <u>CI</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
215A	P26	2500	1.98090	1.98088		
241	P26	200	1.93571	1.93572		
5042	loop 42	om	1.86449	1.86447		
235	P26	1500	1.97481	1.97480		
5040	loop 40	om	1.86108	1.86109	1.86108	1 st read jumpy
5041	loop 41	om	1.86352	1.86354		
5038	loop 38	om	1.85953	1.85955		
5039	loop 39	om	1.86115	1.86117		
219	P26	1000	1.96710	1.96710		
214	P26	3000	1.98242	1.98244		
217	P26	1500	1.97431	1.97433		
213	P26	3500	1.98322	1.98322		
212	P26	4000	1.98373	1.98374		
218	P26	1250	1.97124	1.97126		
216	P26	2000	1.97851	1.97847	1.97849	
215B	P26	2500	1.98093	1.98093		
5004	loop 04	om	1.80503	1.80499	1.80501	
5007	JF3	om	1.75107	1.75115	1.75112	
5008	JF4	om	1.83661	1.83660		
81	P4	800	1.96423	1.96422		
5009	P5	loop	1.86092	1.86094		full bottle
111	P5	S	1.86097	1.86096		
134A	P8	2000	1.97889	1.97892	1.97895	
134B	P8	2000	1.97901	1.97905	1.97908	drift upward
94	P4	1000	1.96893	1.96892		→ accidentally deleted reading
92	P4	1250	1.97215	1.97218		
			Final Standby Value:			<u>24 + 5985/6</u>

Notes: _____

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Autosal Model: <u>8400B</u>		Serial Number: <u>73274</u>			
Initial Standby Value: <u>24+</u>		Ratio After Standardization: <u>-0.000003</u>			
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 86</u>		Sample Temperature: <u>22</u> °C	
	After: _____	Batch #: <u>165</u>		Room Temperature: <u>23.3</u> °C	
	Notes: _____	Batch Date: <u>15 Apr 2024</u>		Analyst: <u>CI</u>	

Notes: _____

562 Sal SC04 2024-002 0 m bot 1	5062 Sal Loop62 2024-002 m bot 1	5063 Sal Loop63 2024-002 m bot 1	5060 Sal Loop60 2024-002 m bot 1	5061 Sal Loop61 2024-002 m bot 1	5056 Sal Loop56 2024-002 m bot 1	5059 Sal Loop59 2024-002 m bot 1	5054 Sal Loop54 2024-002 m bot 1	5055 Sal Loop55 2024-002 m bot 1
297 Sal P23 2024-002 5 m bot 5	270 Sal P24 2024-002 3500 m bot 2	271 Sal P24 2024-002 3000 m bot 3	272B Sal P24 2024-002 2500 m bot 4	273 Sal P24 2024-002 2000 m bot 5	272A Sal P24 2024-002 2500 m bot 4	275 Sal P24 2024-002 1500 m bot 7	274 Sal P24 2024-002 1750 m bot 6	303 Sal P22 2024-002 2500 m bot 4
304 Sal P22 2024-002 2000 m bot 5	301 Sal P22 2024-002 3500 m bot 2	5068 Sal P23 2024-002 Loop m bot 9	306 Sal P22 2024-002 1500 m bot 7	302A Sal P22 2024-002 3000 m bot 3	305 Sal P22 2024-002 1750 m bot 6	302B Sal P22 2024-002 3000 m bot 3	5072 Sal P21 2024-002 Loop m bot 5	324 Sal P21 2024-002 5 m bot 1
330 Sal P20 2024-002 2000 m bot 6	329B Sal P20 2024-002 2500 m bot 5	329A Sal P20 2024-002 2500 m bot 5	332 Sal P20 2024-002 1250 m bot 8	328 Sal P20 2024-002 3000 m bot 4	333 Sal P20 2024-002 1000 m bot 9	327 Sal P20 2024-002 3500 m bot 3	326 Sal P20 2024-002 3500 m bot 2	331 Sal P20 2024-002 1500 m bot 7
349 Sal P20 2024-002 800 m bot 10	5081 Sal P19 2024-002 Loop m bot 5	377 Sal P19 2024-002 5 m bot 1	384 Sal P18 2024-002 1000 m bot 7	380 Sal P18 2024-002 3000 m bot 3	383 Sal P18 2024-002 1500 m bot 6	379B Sal P18 2024-002 3500 m bot 2	382 Sal P18 2024-002 2000 m bot 5	381 Sal P18 2024-002 2500 m bot 4
379A Sal P18 2024-002 3500 m bot 2	402 Sal P17 2024-002 5 m bot 3	50XX Sal P17 2024-002 Loop m bot 5	440 Sal P16 2024-002 1250 m bot 8	477 Sal P14 2024-002 10 m bot 20	463 Sal P14 2024-002 1250 m bot 6	462 Sal P14 2024-002 1500 m bot 5	464 Sal P14 2024-002 1000 m bot 7	461A Sal P14 2024-002 2000 m bot 4
461B Sal P14 2024-002 2000 m bot 4	459 Sal P14 2024-002 3000 m bot 2	460 Sal P14 2024-002 2500 m bot 3	521 Sal 24 2024-002 5 m bot 2	520A Sal 24 2024-002 Bot-5 m bot 1	488 Sal 12 2024-002 Bot-5 m bot 1	500 Sal 12 2024-002 10 m bot 13	482 Sal P13 2024-002 5 m bot 1	5101 Sal Loop101 2024-002 m bot 1

5098 Sal P13 2024-002 Loop m bot 5	555 Sal 42 2024-002 10 m bot 12	544 Sal 42 2024-002 Bot-5 m bot 1	531 Sal GEO1 2024-002 350 m bot 1	538 Sal GEO1 2024-002 0 m bot 8	524 Sal 27 2024-002 300 m bot 2	527 Sal 27 2024-002 5 m bot 5	520B Sal 24 2024-002 Bot-5 m bot 1	458 Sal P14 2024-002 Bot-10 m bot 1
472 Sal P14 2024-002 125 m bot 15	473 Sal P14 2024-002 100 m bot 16	438 Sal P16 2024-002 2000 m bot 6	439 Sal P16 2024-002 1500 m bot 7	436 Sal P16 2024-002 3000 m bot 4	437A Sal P16 2024-002 2500 m bot 5	434 Sal P16 2024-002 3500 m bot 2	435 Sal P16 2024-002 3500 m bot 3	437B Sal P16 2024-002 2500 m bot 5
441 Sal P16 2024-002 1000 m bot 9	474 Sal P14 2024-002 75 m bot 17	478 Sal P14 2024-002 5 m bot 21	465 Sal P14 2024-002 800 m bot 8	457 Sal P15 2024-002 5 m bot 1	423 Sal P16 2024-002 800 m bot 10	5094 Sal P15 2024-002 Loop m bot 5	470 Sal P14 2024-002 200 m bot 13	476 Sal P14 2024-002 25 m bot 19
475 Sal P14 2024-002 50 m bot 18	468 Sal P14 2024-002 300 m bot 11	467 Sal P14 2024-002 400 m bot 10	469 Sal P14 2024-002 250 m bot 12	471 Sal P14 2024-002 150 m bot 14	466 Sal P14 2024-002 600 m bot 9	5037 Sal Loop37 2024-002 m bot 1	5036 Sal Loop36 2024-002 m bot 1	5034 Sal Loop34 2024-002 m bot 1
5035 Sal Loop35 2024-002 m bot 1	163A Sal P12 2024-002 2000 m bot 5	165 Sal P12 2024-002 1250 m bot 7	183 Sal P12 2024-002 300 m bot 10	166 Sal P12 2024-002 1000 m bot 8	215A Sal P26 2024-002 2500 m bot 5	241 Sal P26 2024-002 200 m bot r7	5042 Sal Loop42 2024-002 m bot 1	235 Sal P26 2024-002 1500 m bot 7
5040 Sal Loop34 2024-002 m bot 1	5041 Sal Loop41 2024-002 m bot 1	5038 Sal Loop38 2024-002 m bot 1	5039 Sal Loop39 2024-002 m bot 1	219 Sal P26 2024-002 1000 m bot 9	214 Sal P26 2024-002 3000 m bot 4	217 Sal P26 2024-002 1500 m bot 7	213 Sal P26 2024-002 3500 m bot 3	212 Sal P26 2024-002 4000 m bot 2
218 Sal P26 2024-002 1250 m bot 8	216 Sal P26 2024-002 2000 m bot 6	215B Sal P26 2024-002 2500 m bot 5	5004 Sal Loop 2024-002 m bot 1	5007 Sal JF3 2024-002 m bot 1	5008 Sal JF4 2024-002 m bot 1	81 Sal P4 2024-002 800 m bot 10	5009 Sal P5 2024-002 Loop m bot 5	111 Sal P5 2024-002 5 m bot 1

Line P 2024-002 2/3

Institute of Ocean Sciences, Ocean Sciences Division

bot 1

bot 1

bot 4

pot 2

bot 5

bot 1

bot 3

bot 4

bot 5

bot 2

bot 3

bot 5

bot 6

bot 5

bot 4

bot 5

bot 2

bot 3

5126

bot 1-2

Final Standby Value:

Notes: