

Range: 1.9996-1.9998 2x K₁₅ = 1.9997. be w/in ±0.0010 on red digital display.

Water Properties Group

Institute of Ocean Sciences, Ocean Sciences Division

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2021-020</u>	Cast/Station Name: _____	Analysis Date (dd mmm yyyy): <u>29 JUL 2021</u>
Autosal Model: <u>8400B</u>	Serial Number: <u>73274</u>	
Initial Standby Value: <u>24 + 6026</u>	Ratio After Standardization: <u>24 + 6026</u>	
Cell Standardization (Daily)	Standardization Values:	Standard Info.
Conductivity must be ± 0.00001 compared to Standard	Before: <u>5.34</u> After: <u>5.34</u> Notes: <u>No change</u>	K ₁₅ VALUE: 0.999 <u>85</u> Batch #: <u>P163</u> Batch Date: <u>10 April 2022</u>
		Bath Temperature: <u>24</u> °C Sample Temperature: <u>~20.5-22.5</u> °C Room Temperature: <u>23.5</u> °C Analyst: <u>JW</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
P163	Calibration		1.99972			
P163	Run as Sample		1.99971	1.99968		Salinity: 34.9939 ✓
DWR	(to determine "true" salinity)		1.97820	1.97821		Sal: 34.5715
DWR (Sample bottle)	→ 10 values taken & average calculated.		1.97820	1.97820		Sal: 34.5713
DWR			1.97821	1.97823		Sal: 34.5714
DWR			1.97820	1.97824		Sal: 34.5717
DWR (Sample bottle)			1.97821	1.97821		Sal: 34.5716
DWR			1.97821	1.97824		Sal: 34.5714
DWR (Sample bottle)			1.97821	1.97823		Sal: 34.5714
DWR (Sample bottle)			1.97822	1.97821		Sal: 34.5714
DWR			1.97824	1.97825		Sal: 34.5716
DWR (Sample bottle)			1.97825	1.97825		Sal: 34.5719
280	J1-6		1.79506	1.79504		
328	16		1.73869	1.73870		
356	9		1.77053	1.77053		
437	27		1.79558	1.79559		
416	39		1.80045	1.80046		
296	J1-4		1.79447	1.79448		
304	J1-2		1.79544	1.79543		
339	12		1.78525	1.78527		
397	2		1.79601	1.79604		
288	J1-7		1.79595	1.79598		
312	14		1.78507	1.78508		
368	6		1.77147	1.77147		
381	3		1.79887	1.79891		
264	J1-3		1.79311	1.79311		Final Standby Value: <u>24 + 6026/7</u>

Notes: Temp of room adjusted to 72°F from 70°F for ~1.5 days (= 21.6°C) but temp measuring 23.5°C in room. Temp of glass of Sample bottles b/w 20.5-22.5
Bubble in top left portion of main arm (the whole time) w/ little bit algae

280
Sal
JI-6
2021-020
250 m
bot 2

328
Sal
16
2021-020
125 m
bot 2

356
Sal
9
2021-020
150 m
bot 2

437
Sal
27
2021-020
300 m
bot 2

416
Sal
39
2021-020
350 m
bot 2

296
Sal
JI-4
2021-020
250 m
bot 2

304
Sal
JI-2
2021-020
250 m
bot 2

339
Sal
12
2021-020
300 m
bot 2

397
Sal
2
2021-020
250 m
bot 2

288
Sal
JI-7
2021-020
250 m
bot 2

312
Sal
14
2021-020
300 m
bot 2

368
Sal
6
2021-020
175 m
bot 2

381
Sal
3
2021-020
300 m
bot 2

264
Sal
JI-3
2021-020
250 m
bot 2

AUTOSAL ANALYSIS LOGSHEET

2

Cruise ID: <u>2021-020</u>	Cast/Station Name: _____	Analysis Date (dd mmm yyyy): <u>29 JUL 2021</u>
Autosal Model: <u>8400 B</u>	Serial Number: <u>73274</u>	
Initial Standby Value: <u>24 + 6026/7</u>	Ratio After Standardization: <u>N/A</u>	
Cell Standardization (Daily)	Standardization Values:	Standard Info. <u>Same as prev. page</u>
Conductivity must be ± 0.00001	Before: _____	K ₁₅ VALUE: 0.999 _____
compared to Standard	After: _____	Batch #: _____
<i>see prev. page (same)</i>	Notes: _____	Batch Date: _____
		Bath Temperature: <u>24</u> °C
		Sample Temperature: <u>20.5-22.5</u> °C
		Room Temperature: <u>22.9</u> °C
		Analyst: <u>JW</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
228	VAN4		1.69639	1.69638		
191	IND4		1.60334	1.60336		
175	IND8		1.59052	1.59052		
142	42		1.79769	1.79768		badly
11	62					bottle cracked - can't analyze.
87	72		1.94356	1.94354		
73	75		1.94483	1.94483		
256	J1-1		1.79017	1.79020		
221	VAN5		1.65232	1.65233		
182	IND7		1.59630	1.59635	1.59634	
163	IND2		1.60080	1.60085	1.60086	
130	46		1.76375	1.76378		
46	69		1.94152	1.94153		
36	ADCP		1.92025	1.92031	1.92032	
26	65		1.87511	1.87514		
272	J1-5		1.79416	1.79413		
237	VAN1		1.75743	1.75744		
212	VAN6		1.59203	1.59203		
206	IND0		1.58713	1.58708	1.58706	1.58705
159	VAN7		1.57265	1.57269		
116	56		1.84633	1.84634	1.84635	← Error message came up
101	59		1.84310	1.84311		← (trouble communicating with satellite)
58	102		1.94699	1.94700	1.94691	← extreme reading - looks fine
Nazima Harbour (Cindy's 1 sample)			1.66264	1.66264		
DWR.			1.97824	1.97828	sd: 34.5724	Final Standby Value: <u>24 + 6026</u>

Notes: Same as prev. page

228
Sal
VAN4
2021-020
50 m
bot 2

191
Sal
IND4
2021-020
200 m
bot 2

175
Sal
IND8
2021-020
30 m
bot 2

142
Sal
42
2021-020
300 m
bot 2

11
Sal
62
2021-020
125 m
bot 2

87
Sal
72
2021-020
175 m
bot 2

73
Sal
75
2021-020
200 m
bot 2

256
Sal
JL-1
2021-020
250 m
bot 2

221
Sal
VAN5
2021-020
30 m
bot 2

182
Sal
IND7
2021-020
50 m
bot 2

163
Sal
IND2
2021-020
125 m
bot 2

130
Sal
46
2021-020
150 m
bot 2

46
Sal
69
2021-020
150 m
bot 2

36
Sal
ADCP
2021-020
100 m
bot 2

26
Sal
65
2021-020
100 m
bot 2

272
Sal
JL-5
2021-020
250 m
bot 2

237
Sal
VAN1
2021-020
100 m
bot 2

212
Sal
VAN6
2021-020
50 m
bot 2

206
Sal
IND0
2021-020
20 m
bot 2

159
Sal
VAN7
2021-020
5 m
bot 2

116
Sal
56
2021-020
200 m
bot 2

101
Sal
59
2021-020
200 m
bot 2

58
Sal
102
2021-020
250 m
bot 2

Nanaimo
Hrb
March
2021
Cindy