$K_{15} \times 2 = 1.99966$ 1/9

Water Properties Group Institute of Ocean Sciences, Ocean Sciences Division

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: 2020-001	Cast/Station Name: many	Analysis Date (dd | mmm | yyyy): 10 | 03 | 2020
Autosal Model: 8400B	Serial Number: 68572	
Initial Standby Value: 24+ 6053	Ratio After Standardization: 24+ 6053	

Cell Standaridization (Daily)	Standardization Values:	Standard Info.	
Conductivity must be ± 0.00001 compared to Standard →	Before: 5.69	K_{15} VALUE: 0.999 83	Bath Temperature: 24 °C
	After: 5.69	Batch #: P162	Sample Temperature: ~22.5 °C
	Notes: No adjustment	Exp Batch Date: 16 April 2021	Room Temperature: ~22.5 °C
			Analyst: KS

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
P162	Calibration		1.99967	1.99967		→ No adjustment required
			Accepted	Accepted		Ran as sample
P162	as sample		1.99968	1.99969		stated sal: 34.993
						measured sal: 34.9937
385	P22	2	1.98309	1.98310		
386A	P22	3	1.98232	1.98231		
446	Eddy	4	~~1.97038~~	~~1.97045~~	1.97055	1.97054
392	P22	9	~~1.96792~~	1.6303	1.96805	
520	P26	4	1.98211	1.98212		
467	Eddy	7	1.96005	1.96006		
205	P12	8	1.97235	1.97237		
420	P24	7	1.98642	1.6641		
447	Eddy	5	1.96594	1.96595		
417	P24	4	1.98081	1.98085		
419	"	6	1.97392	1.97392		
200B	P12	3	1.98198	1.98198		→ 1.90234 1.90232
sto1	PSU 33.1	P23	~~1.90309~~	~~1.90297~~	1.90288	15 Feb 2020 ~120m
346	P20	10	~~1.96339~~	1.96359	1.96358	
206B	P12	9	1.96891	1.96847	1.96844	
413	P23	6	1.86838	1.86839		
390	P22	7	1.97445	1.97444		
389	"	6	1.97771	1.97769		
343	P20	7	~~1.97449~~	~~1.97455~~	1.97461	1.97464
562	P26	5	1.92811	1.92810		Final Standby Value:
sto2	PSU 34.6	P5 2005m	1.97949	1.97951	→	

→ 10 Feb 2020

Notes:

P161 K_{15} = 1.99974 2/9

Water Properties Group Institute of Ocean Sciences, Ocean Sciences Division

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: 2020-001	Cast/Station Name: many	Analysis Date (dd | mmm | yyyy): 10 | 03 | 2020
Autosal Model: 8400B	Serial Number: 68572	
Initial Standby Value: 24 + 6053	Ratio After Standardization: 24 + 6045	

Cell Standaridization (Daily)	Standardization Values:	Standard Info.	
Conductivity must be ± 0.00001 compared to Standard	Before:	K_{15} VALUE: 0.999 87	Bath Temperature: 24 °C
	After: see page below	Batch #: ~~see page~~ P162	Sample Temperature: 22.5 °C
	Notes:	Batch Date: 03 May 2020	Room Temperature: 22.7 °C
			Analyst: KS

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
sto3	PSU 33.1	P23	~~1.90295~~	1.90296	1.90299	
5062	Loop P23		~~1.86369~~	1.86859	1.86847	
386B	P22	3	1.98235	1.98235		
391	"	8	1.97127	1.97128		
206A	P12	9	1.96828	1.96829		
523	P26	7	1.97386	1.97385		
200A	P12	3	1.98205	1.98207		
445	Eddy	3	1.97394	1.97391		
storage	34.6 PS	2005 m	1.97955	1.97954		
storage	33.1 P23	120 m	1.90285	1.90289		
345A	P20	9	1.96750	1.96751		
416A	P24	3	1.98230	1.98227		
524	P26	8	1.97103	1.97103		
518	P26	2	1.98357	1.98358		
storage	34.6 PS	2005 m	1.97958	1.97957		
storage	33.1 P23	120 m	1.90291	1.90298		
344	P20	8	1.97156	1.97158		Required small adjustment
418	P24	5	1.97922	1.97922		5.58 from 5.69
P161	calibration		1.99979	1.99973		- recalibrated after a
storage	34.6 PS	2005 m	1.97959	1.97961		quick cell cleaning with
360	P20	24	1.86136	1.86135		isopropyl alcohol. Readings
438	Eddy	5	1.93756	1.93755		a bit unstable
388	P22	5	~~1.97888~~	1.97904	1.97910	1.979899 - Readings
387	P22	4	1.98096	1.98095		unstable
storage	34.6 PS		1.97954	1.97956		Final Standby Value:
storage	33.1 P23		1.90297	1.90296		

Notes:

Water Properties Group Institute of Ocean Sciences, Ocean Sciences Division

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: 2020 - 001	Cast/Station Name: many	Analysis Date (dd | mmm | yyyy): 10 | 03 | 2020
Autosal Model: 8400B	Serial Number: 68572	
Initial Standby Value: 24+ 6044	Ratio After Standardization:	

Cell Standaridization (Daily)	Standardization Values:	Standard Info.	
Conductivity must be ± 0.00001 compared to Standard	Before:	K_{15} VALUE: 0.999	Bath Temperature: 24 °C
	After:	Batch #:	Sample Temperature: 22.4 °C
	Notes:	Batch Date:	Room Temperature: 22.4 °C
			Analyst: KS

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
443A	Eddy	1	1.97830	1.97831		
345B	P20	9	1.96748	1.96751		
522	P26	6	1.97827	1.97825		
444	Eddy	2	1.97625	1.97630	1.97634	
383	P21	5	1.86242	1.86241		
443B	Eddy	1	1.97827	1.97826		
415	P24	2	1.98319	1.98321		
525A	P26	9	1.96708	1.96707		
storage	34.6 P5	2005 m	1.97953	1.97955		
storage	33.1 P23	120 m	1.90269	1.90270		
601	DIX 3	18	1.83713	1.83714		
637	CH2	11	1.82936	1.82935		
655	CH1	11	1.80279	1.80281		
595	DIX3	12	1.85130	1.85128		
710	CHAT3	2	~~1.87738~~	1.87744	1.87744	
204B	P12	7	1.97548	1.97547		
5043	P15 - Loop	1	1.86168	1.86166		
519B	P26	3	1.98325	1.98324		
5082	Underway	loop	1.86703	1.86704		
332	P20	5	1.92609	1.92608		
202	P12	5	1.98099	1.98100		
5041	P13	5 m	1.86108	1.86110		
172	P9	1	1.85916	1.85919		
416B	P24	3	1.98220	1.98222		
storage	34.6 P5	2005 m	1.97953	1.97962	1.97961	Final Standby Value:
storage	33.1 P23	120 m	1.90263	1.90262		

Notes:

Water Properties Group Institute of Ocean Sciences, Ocean Sciences Division

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: 2020-601	Cast/Station Name: many	Analysis Date (dd | mmm | yyyy): 10 | 03 | 2020
Autosal Model: 8400B	Serial Number: 68572	
Initial Standby Value: 24 + 6644	Ratio After Standardization:	

Cell Standaridization (Daily)	Standardization Values:	Standard Info.	
Conductivity must be ± 0.00001 compared to Standard	Before:	K_{15} VALUE: 0.999	Bath Temperature: 24 °C
	After:	Batch #:	Sample Temperature: 22.8 °C
	Notes:	Batch Date:	Room Temperature: 22.8 °C
			Analyst: KS

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
5253	P26	9	1.96726	1.96725		
934	CH27	9	1.75702	1.75703		
950	MP55	2	1.82814	1.82817		
519A	P26	3	1.98304	1.98303		
720	CHAT 3	12	1.73716	1.73715		
222	P12	7	1.96250	1.96251		
5083	loop - P23		~~1.86790~~	1.86835	1.86836	
5124	CPE1	Loop	1.79057	1.79059		
646	CH1	2	1.90350	1.90353		
898	CHAT1	12	1.81561	1.81562		
680	CH5	7	1.83394	1.83393		
628	CH2	2	1.89874	1.89875		
902	CHAT1	16	1.80428	1.80431		
203	P12	6	1.97888	1.97889		
5034	P11-loop		1.86017	1.86019		
643	CH2	17	1.75366	1.75371		
535	DIX 3	2	~~1.94510~~	1.94534	1.94540	1.94530 ↓↑ trend
5033	Underway	loop	1.85974	1.85973		
714	CHAT 3	6	1.82599	1.82608	1.82610	
686	CH5	13	1.82081	1.82080		
625	CH3	18	1.81461	1.81461		
892	CHAT1	6	1.82835	1.82837		
701	CH8	7	1.83086	1.83089		
661	CH1	17	1.75221	1.75221		
			1.	1.		Final Standby Value:
			1.	1.		

Notes:

$K_{15} \times 2 = 1.99974$ 5/9

Water Properties Group Institute of Ocean Sciences, Ocean Sciences Division

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: 2020-001	Cast/Station Name: Many	Analysis Date (dd | mmm | yyyy): 11 | 03 | 2020
Autosal Model: 8400B	Serial Number: 68572	
Initial Standby Value: 247 6044	Ratio After Standardization: 247 6044	

Cell Standaridization (Daily)	Standardization Values:	Standard Info.	
Conductivity must be ± 0.00001 compared to Standard	Before: 5.58	K_{15} VALUE: 0.999 87	Bath Temperature: 24 °C
	After: 5.58	Batch #: P161	Sample Temperature: ~22.6 °C
	Notes: no adjustment	Exp Batch Date: 03 May 2020	Room Temperature: 22.6 °C
			Analyst: KS

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
P161	Calibration		1.99975	Accepted		- cell cleaning with CLR
P161	Ran as sample		1.99975	1.99975		previous evening so
204A	P12	7	1.97553	1.97553		calibration in order.
917	CH25	12	~~1.82124~~	1.82132	1.82133	stated sal: 34.995
907	"	2	1.83121	1.83122		measured sal: 34.9951
619	CH3	12	1.82969	1.82972		
675	CH5	2	1.87229	1.87232		
894	CHAT1	8	1.82110	1.82110		
201	P12	4	1.98199	1.98200		
890	CHAT1	4	1.83022	1.83023		
609	CH3	2	1.89430	1.89428		
911	CH25	6	1.82401	1.82402		- lots of salt around
696	CH8	2	1.86995	1.86996		insert.
174	P11	1	1.86018	1.86018		
5121	Underway	loop	~~1.75975~~	1.75982	1.75980	
170	P8	23	1.85844	1.85845		
707	CH8	13	1.82947	1.82945		
927	CH27	2	1.81605	1.81607		
953	MP55	5	1.82613	1.82614		
900	CHAT1	14	1.81206	1.81205		
521	P26	5	1.98069	1.98070		
980	CPE1	1	1.79040	1.79039		
888	CHAT1	2	1.83020	1.83020		- salt crystals around
5031	P9-loop	1	1.85916	1.85917		- screw cap insert -
904	CHAT1	18	1.79618	1.79619		Final Standby Value: loose
221	P12	24	1.86065	1.86066		

Notes:

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AUTOSAL ANALYSIS LOGSHEET

Cruise ID: 2020-061	Cast/Station Name: Many	Analysis Date (dd | mmm | yyyy): 11 | 03 | 2020
Autosal Model: 8400B	Serial Number: 68572	
Initial Standby Value: 247 6044	Ratio After Standardization: no Δ	

Cell Standaridization (Daily)	Standardization Values:	Standard Info.	
Conductivity must be ± 0.00001 compared to Standard	Before:	K_{15} VALUE: 0.999	Bath Temperature: 24 °C
	After:	Batch #:	Sample Temperature: ~22.8 °C
	Notes:	Batch Date:	Room Temperature: 22.8 °C
			Analyst: KS

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
740	CH12	2	1.87439	1.87440		
959	MP55	11	1.77897	1.77896		
896	CHAT1	10	~~1.81601~~	1.81609	1.81616	1.81612
5085	loop P23		1.86459	1.86460		
237	P13	1	1.86110	1.86114		
361	P20	7	1.96284	1.96285		
193	P12	5	1.92633	1.92632		
261	P14	24	1.86233	1.86232		
5084	Underway	loop	1.86425	1.86425		
262	P15	1	1.86162	1.86163		
107	P4	7	1.96251	1.96254		
5010	JF4	1	1.72418	1.72416		
90A	P4	3	1.97318	1.97321		
91A	"	4	1.96843	1.96845		
5008	JF2	loop	1.75955	1.75954		
767	CH16	7	1.82575	1.82575		
801	HEC58	2	1.91595	1.91596		
788	CH14	2	~~1.83778~~	~~1.83788~~	1.83796	1.83797
805	HEC58	6	1.84254	1.84253		
745	CH12	7	1.82593	1.82594		
148A	P8	1	~~1.97934~~	1.97739	1.97944	1.97942
250	P14	13	1.94166	1.94167		
259	"	22	1.86194	1.86195		
91B	P4	4	1.96845	1.96845		
106	P4	19	1.84944	1.84943		Final Standby Value:
839	CHAT 2	9	1.82966	1.82969		

Notes:

Water Properties Group Institute of Ocean Sciences, Ocean Sciences Division

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: 2020-601	Cast/Station Name: many	Analysis Date (dd | mmm | yyyy): 11 | 03 | 2020
Autosal Model: 8400B	Serial Number: 68572	
Initial Standby Value: 24+6044	Ratio After Standardization:	

Cell Standaridization (Daily)	Standardization Values:	Standard Info.	
Conductivity must be ± 0.00001 compared to Standard →	Before:	K_{15} VALUE: 0.999	Bath Temperature: 24 °C
	After:	Batch #:	Sample Temperature: ~22.3 °C
	Notes:	Batch Date:	Room Temperature: 22.3 °C
			Analyst: KS

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
773	CH16	13	1.81800	1.81800		
112	P4	6	1.94458	1.94457		
751	CH12	13	1.73296	1.73297		
145	P5	4	1.86104	1.86105		
242B	P14	5	1.97881	1.97882		
239	"	2	1.98212	1.98213		
867	CH19	10	~~1.82444~~	1.82449	1.82448	
792	CH14	6	1.83411	1.83411		
819	HECS7	2	1.85432	1.85431		
251	P14	14	1.93990	1.93992		← screw cap was loose
244	P14	7	1.97474	1.97475		
149	P8	2	1.97506	1.97505		
861	CH19	4	1.82546	1.82547		
151B	P8	4	1.96849	1.96850		
246B	P14	9	~~1.96724~~	1.96734	1.96735	
90B	P4	3	1.97303	1.97308		
258	P14	21	1.86257	1.86258		← insert body deformed seal questionable
241	"	4	1.97994	1.97993		
89	P4	2	1.97310	1.97311		
823	HECS7	6	1.85324	1.85323		
872	PRHR74	4	1.79366	1.79365		
5025	PS Loop		1.86121	1.86120		
147	P7	1	1.85847	1.85849		
248	P14	11	1.95515	1.95518		
252	"	15	1.93724	1.93723		Final Standby Value:
150	P8	3	~~1.97255~~	1.97266	1.97264	

Notes:

Water Properties Group Institute of Ocean Sciences, Ocean Sciences Division

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: 2020-001	Cast/Station Name: many	Analysis Date (dd | mmm | yyyy): 11 | Mar | 2020
Autosal Model: 8400B	Serial Number: 68572	
Initial Standby Value: 24+6044	Ratio After Standardization:	

Cell Standaridization (Daily)	Standardization Values:	Standard Info.	
Conductivity must be ± 0.00001 compared to Standard	Before:	K_{15} VALUE: 0.999	Bath Temperature: 24 °C
	After:	Batch #:	Sample Temperature: ~22.3 °C
	Notes:	Batch Date:	Room Temperature: 22.3 °C
			Analyst: KS

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
254	P14	17	1.92208	1.92207		
148B	P8	1	1.97941	1.97941		
92	P4	5	1.96398	1.96399		
5027	P7 loop		1.85854	1.85853		
811	HECS8	12	1.84123	1.84124		
151A	P8	4	1.96851	1.96851		12 March 2020
793	CH14	12	1.83018	1.83019		
5009	JF3	loop	~~1.71427~~	1.71452	1.71453	
859	CH19	2	1.82673	1.82675		
5004	JF1	1	1.76073	1.76075		
877	PRHR74	9	1.71924	1.71923		
152	P8	5	1.96342	1.96343		
832	CHAT2	2	1.83825	1.83824		
846	"	16	1.82602	1.82603		
870	PRHR74	2	1.79523	1.79524		
762	CH16	2	1.85626	1.85627		
829	HECS7	12	1.85088	1.85090		
305	P16	7	1.96310	1.96311		
5051	Loop		1.86118	1.86122		
287	P16	7	1.97458	1.97460		
285A	"	5	1.98061	1.98063		
257	P14	20	1.86224	1.86223		
245	"	8	1.97155	1.97156		
342	P20	6	1.97883	1.97884		
289A	P16	9	1.96783	1.96784		Final Standby Value:
286	"	6	1.97856	1.97854		

Notes:

Water Properties Group — Institute of Ocean Sciences, Ocean Sciences Division

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: 2020-001	Cast/Station Name: Many	Analysis Date (dd | mmm | yyyy): 12 | Mar | 2020
Autosal Model: 8400B	Serial Number: 68572	
Initial Standby Value: 24+ 6044	Ratio After Standardization:	

Cell Standaridization (Daily)	Standardization Values:	Standard Info.	
Conductivity must be ± 0.00001 compared to Standard	Before:	K_{15} VALUE: 0.999	Bath Temperature: 24 °C
	After:	Batch #:	Sample Temperature: ~22.4 °C
	Notes:	Batch Date:	Room Temperature: 22.4 °C
			Analyst: KS

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
246A	P14	9	1.96744	1.96745		~ screw cap was loose
289B	P16	9	1.96750	1.96749		
5050	P15 Loop	1	~~1.86113~~	1.86121	1.86123	
282B	P16	2	~~1.98272~~	1.98285	1.98282	
341A	P20	5	1.98111	1.98109		
247	P14	10	1.96273	1.96272		
243	"	6	~~1.97713~~	1.97723	~~1.97734~~	1.97724
320	P17	1	1.86111	1.86111		
339	P20	3	1.98356	1.98357		
242A	P14	5	1.97890	1.97891		
249	"	12	1.94653	1.94652		
256	"	19	1.86772	1.86773		
341B	P20	5	~~1.98105~~	1.98112	1.98114	
276	P16	5	1.91339	1.91338		
284	"	4	1.98220	1.98221		
285B	"	5	1.98063	1.98063		
240	P14	3	1.98120	1.98118		
255	"	18	1.89877	1.89876		
288	P16	8	1.97139	1.97140		
253	P14	16	1.93343	1.93347		
260	"	23	~~1.86235~~	1.86245	1.86247	
340	P20	4	~~1.98230~~	1.98224	1.98223	
304	P16	24	1.86239	1.86242		~ screw cap was nearly off. Insert not seated.
338	P20	2	1.98298	1.98299		
282A	P16	2	1.98294	1.98295		Final Standby Value:
283	"	3	~~1.98280~~	~~1.98286~~	~~1.98294~~	

Notes:

5052	P18-P19	loop	1.86129	1.86131		

→ 1.98299 1.98301

2020-001 Labels

385 SAL P22 2020-001 3500 m bot 2	386A SAL P22 2020-001 3000 m bot 3	446 SAL Eddy 2020-001 1250 m bot 4	392 SAL P22 2020-001 1000 m bot 9	520 SAL P26 2020-001 3000 m bot 4	467 SAL Eddy 2020-001 800 m bot r7	205 SAL P12 2020-001 1250 m bot 8	420 Sal P24 2020-001 1000 m bot 7	447 SAL Eddy 2020-001 1000 m bot 5	417 Sal P24 2020-001 2500 m bot 4
419 Sal P24 2020-001 1500 m bot 6	200B SAL P12 2020-001 3000 m bot 3	StorageEx PSU 33.1 P23 2020-001 120 15FEB2020	346 SAL P20 2020-001 800 m bot 10	206B SAL P12 2020-001 1000 m bot 9	413 SAL P23 2020-001 5 m bot 6	390 SAL P22 2020-001 1500 m bot 7	389 SAL P22 2020-001 1750 m bot 6	343 SAL P20 2020-001 1500 m bot 7	562 SAL P26 2020-001 150 m bot r5
StorageEx PSU 34.6 P5 2020-001 2005 10FEB2020	StorageEx PSU 33.1 P23 2020-001 120 15FEB2020	5062 SAL Loop - P23 2020-001 LOOP m bot 1	386B SAL P22 2020-001 3000 m bot 3	391 SAL P22 2020-001 1250 m bot 8	206A SAL P12 2020-001 1000 m bot 9	523 SAL P26 2020-001 1500 m bot 7	200A SAL P12 2020-001 3000 m bot 3	445 SAL Eddy 2020-001 1500 m bot 3	StorageEx PSU 34.6 P5 2020-001 2005 10FEB2020
StorageEx PSU 33.1 P23 2020-001 120 15FEB2020	345A SAL P20 2020-001 1000 m bot 9	416A Sal P24 2020-001 3000 m bot 3	524 SAL P26 2020-001 1250 m bot 8	518 SAL P26 2020-001 4000 m bot 2	StorageEx PSU 34.6 P5 2020-001 2005 10FEB2020	StorageEx PSU 33.1 P23 2020-001 120 15FEB2020	344 SAL P20 2020-001 1250 m bot 8	418 Sal P24 2020-001 2000 m bot 5	StorageEx PSU 34.6 P5 2020-001 2005 10FEB2020
360 SAL P20 2020-001 5 m bot 24	438 SAL Eddy 2020-001 150 m bot r5	388 SAL P22 2020-001 2000 m bot 5	387 SAL P22 2020-001 2500 m bot 4	StorageEx PSU 34.6 P5 2020-001 2005 10FEB2020	StorageEx PSU 33.1 P23 2020-001 120 15FEB2020	443A SAL Eddy 2020-001 2000 m bot 1	345B SAL P20 2020-001 1000 m bot 9	522 SAL P26 2020-001 2000 m bot 6	444 SAL Eddy 2020-001 1750 m bot 2
383 SAL P21 2020-001 5 m bot 5	443B SAL Eddy 2020-001 2000 m bot 1	415 Sal P24 2020-001 3500 m bot 2	525A SAL P26 2020-001 1000 m bot 9	StorageEx PSU 34.6 P5 2020-001 2005 10FEB2020	StorageEx PSU 33.1 P23 2020-001 120 15FEB2020	601 SAL DIX3 2020-001 0 m bot 18	637 SAL CH2 2020-001 50 m bot 11	655 SAL CH1 2020-001 50 m bot 11	595 SAL DIX3 2020-001 50 m bot 12
710 SAL CHAT3 2020-001 Bot-5 m bot 2	204B SAL P12 2020-001 1500 m bot 7	5043 SAL P15-loop 2020-001 LOOP m bot 1	519B SAL P26 2020-001 3500 m bot 3	5082 SAL Underway 2020-001 LOOP m bot 1	332 SAL P20 2020-001 150 m bot r5	202 SAL P12 2020-001 2500 m bot 5	5041 SAL P13 2020-001 5 m bot 1	172 SAL P9 2020-001 5 m bot 1	416B Sal P24 2020-001 3000 m bot 3

StorageEx PSU 34.6 P5 2020-001 2005 10FEB2020	StorageEx PSU 33.1 P23 2020-001 120 15FEB2020	525B SAL P26 2020-001 1000 m bot 9	934 SAL CH27 2020-001 0 m bot 9	950 SAL MP55 2020-001 Bot-5 m bot 2	519A SAL P26 2020-001 3500 m bot 3	720 SAL CHAT3 2020-001 0 m bot 12	222 SAL P12 2020-001 800 m bot r7	5083 SAL Loop - P23 2020-001 LOOP m bot 1	5124 SAL CPE1 2020-001 LOOP m bot 1
646 SAL CH1 2020-001 Bot-5 m bot 2	898 SAL CHAT1 2020-001 20 m bot 12	680 SAL CH5 2020-001 50 m bot 7	628 SAL CH2 2020-001 Bot-5 m bot 2	902 SAL CHAT1 2020-001 5 m bot 16	203 SAL P12 2020-001 2000 m bot 6	5034 SAL P11-loop 2020-001 LOOP m bot 1	643 SAL CH2 2020-001 0 m bot 17	585 SAL DIX3 2020-001 Bot-5 m bot 2	5033 SAL Underway 2020-001 LOOP m bot 1
714 SAL CHAT3 2020-001 50 m bot 6	686 SAL CH5 2020-001 0 m bot 13	625 SAL CH3 2020-001 0 m bot 18	892 SAL CHAT1 2020-001 75 m bot 6	701 SAL CH8 2020-001 50 m bot 7	661 SAL CH1 2020-001 0 m bot 17	204A SAL P12 2020-001 1500 m bot 7	917 SAL CH25 2020-001 0 m bot 12	907 SAL CH25 2020-001 Bot-5 m bot 2	619 SAL CH3 2020-001 50 m bot 12
675 SAL CH5 2020-001 Bot-5 m bot 2	894 SAL CHAT1 2020-001 50 m bot 8	201 SAL P12 2020-001 3000 m bot 4	890 SAL CHAT1 2020-001 100 m bot 4	609 SAL CH3 2020-001 Bot-5 m bot 2	911 SAL CH25 2020-001 50 m bot 6	696 SAL CH8 2020-001 Bot-5 m bot 2	174 SAL P11 2020-001 5 m bot 1	5121 SAL Underway 2020-001 LOOP m bot 1	170 SAL P8 2020-001 5 m bot 23
707 SAL CH8 2020-001 0 m bot 13	927 SAL CH27 2020-001 Bot-5 m bot 2	953 SAL MP55 2020-001 50 m bot 5	900 SAL CHAT1 2020-001 10 m bot 14	521 SAL P26 2020-001 2500 m bot 5	980 SAL CPE1 2020-001 5 m bot 1	888 SAL CHAT1 2020-001 Bot-5 m bot 2	5031 SAL P9-loop 2020-001 LOOP m bot 1	904 SAL CHAT1 2020-001 0 m bot 18	221 SAL P12 2020-001 5 m bot 24
740 SAL CH12 2020-001 Bot-5 m bot 2	959 SAL MP55 2020-001 0 m bot 11	896 SAL CHAT1 2020-001 30 m bot 10	5085 SAL Loop - P23 2020-001 LOOP m bot 1	237 SAL P13 2020-001 5 m bot 1	361 SAL P20 2020-001 800 m bot r7	193 SAL P12 2020-001 150 m bot r5	261 SAL P14 2020-001 5 m bot 24	5084 SAL Underway 2020-001 LOOP m bot 1	262 SAL P15 2020-001 5 m bot 1
107 SAL P4 2020-001 800 m bot r7	5010 SAL JF4 2020-001 LOOP m bot 1	90A SAL P4 2020-001 1250 m bot 3	91A SAL P4 2020-001 1000 m bot 4	5008 SAL JF2 2020-001 LOOP m bot 1	767 SAL CH16 2020-001 50 m bot 7	801 SAL HECS8 2020-001 Bot-5 m bot 2	788 SAL CH14 2020-001 Bot-5 m bot 2	805 SAL HECS8 2020-001 50 m bot 6	745 SAL CH12 2020-001 50 m bot 7

148A SAL P8 2020-001 2000 m bot 1	250 SAL P14 2020-001 300 m bot 13	259 SAL P14 2020-001 25 m bot 22	91B SAL P4 2020-001 1000 m bot 4	106 SAL P4 2020-001 5 m bot 19	839 SAL CHAT2 2020-001 50 m bot 9	773 SAL CH16 2020-001 0 m bot 13	112 SAL P4 2020-001 250 m bot 6	751 SAL CH12 2020-001 0 m bot 13	145 SAL P5 2020-001 5 m bot 4
242B SAL P14 2020-001 2000 m bot 5	239 SAL P14 2020-001 3000 m bot 2	867 SAL CH19 2020-001 0 m bot 10	792 SAL CH14 2020-001 50 m bot 6	819 SAL HECS7 2020-001 Bot-5 m bot 2	251 SAL P14 2020-001 250 m bot 14	244 SAL P14 2020-001 1500 m bot 7	149 SAL P8 2020-001 1500 m bot 2	861 SAL CH19 2020-001 50 m bot 4	151B SAL P8 2020-001 1000 m bot 4
246B SAL P14 2020-001 1000 m bot 9	90B SAL P4 2020-001 1250 m bot 3	258 SAL P14 2020-001 50 m bot 21	241 SAL P14 2020-001 2250 m bot 4	89 SAL P4 2020-001 1250 m bot 2	823 SAL HECS7 2020-001 50 m bot 6	872 SAL PRHR74 2020-001 30 m bot 4	5025 SAL P5 Loop 2020-001 LOOP m bot 1	147 SAL P7 2020-001 5 m bot 1	248 SAL P14 2020-001 600 m bot 11
252 SAL P14 2020-001 200 m bot 15	150 SAL P8 2020-001 1250 m bot 3	254 SAL P14 2020-001 150 m bot 17	148B SAL P8 2020-001 2000 m bot 1	92 SAL P4 2020-001 800 m bot 5	5027 SAL P7-loop 2020-001 LOOP m bot 1	811 SAL HECS8 2020-001 0 m bot 12	151A SAL P8 2020-001 1000 m bot 4	798 SAL CH14 2020-001 0 m bot 12	5009 SAL JF3 2020-001 LOOP m bot 1
859 SAL CH19 2020-001 Bot-5 m bot 2	5004 SAL jf1 2020-001 LOOP m bot 1	877 SAL PRHR74 2020-001 0 m bot 9	152 SAL P8 2020-001 800 m bot 5	832 SAL CHAT2 2020-001 Bot-5 m bot 2	846 SAL CHAT2 2020-001 0 m bot 16	870 SAL PRHR74 2020-001 Bot-5 m bot 2	762 SAL CH16 2020-001 Bot-5 m bot 2	829 SAL HECS7 2020-001 0 m bot 12	305 SAL P16 2020-001 800 m bot r7
5051 SAL Loop 2020-001 LOOP m bot 1	287 SAL P16 2020-001 1500 m bot 7	285A SAL P16 2020-001 2500 m bot 5	257 SAL P14 2020-001 75 m bot 20	245 SAL P14 2020-001 1250 m bot 8	342 SAL P20 2020-001 2000 m bot 6	289A SAL P16 2020-001 1000 m bot 9	286 SAL P16 2020-001 2000 m bot 6	246A SAL P14 2020-001 1000 m bot 9	289B SAL P16 2020-001 1000 m bot 9
5050 SAL P15-loop 2020-001 LOOP m bot 1	282B SAL P16 2020-001 3500 m bot 2	341A SAL P20 2020-001 2500 m bot 5	247 SAL P14 2020-001 800 m bot 10	243 SAL P14 2020-001 1750 m bot 6	320 SAL P17 2020-001 5 m bot 1	339 SAL P20 2020-001 3500 m bot 3	242A SAL P14 2020-001 2000 m bot 5	249 SAL P14 2020-001 400 m bot 12	256 SAL P14 2020-001 100 m bot 19

2020-001 labels

341B	276	284	285B	240	255	288	253	260	340
SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL
P20	P16	P16	P16	P14	P14	P16	P14	P14	P20
2020-001	2020-001	2020-001	2020-001	2020-001	2020-001	2020-001	2020-001	2020-001	2020-001
2500 m	150 m	3000 m	2500 m	2500 m	125 m	1250 m	175 m	10 m	3000 m
bot 5	bot r5	bot 4	bot 5	bot 3	bot 18	bot 8	bot 16	bot 23	bot 4

304	338	282A	283	5052
SAL	SAL	SAL	SAL	SAL
P16	P20	P16	P16	p18-p19
2020-001	2020-001	2020-001	2020-001	2020-001
5 m	3500 m	3500 m	3500 m	LOOP m
bot 24	bot 2	bot 2	bot 3	bot 1

dard Info.

ALUE: *0.999* _____

#: _____

Date: _____

Bath Temperature: _____ °C

Sample Temperature: _____ °C

Room Temperature: _____ °C

Analyst: _____

					alinity 2	Salinity 3	Comments
							Final Standby Value:

Notes: _____

Version: 20 April 2016