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Autosal Salinity Analysis Log Sheet

Standardization Information

Initial Standby Value 2416088
 Initial Standard Dial Value 961
 Standby Value after Standardization 961
 Standard Dial Value after Standardization 2416088
 Final Standby Value (end of analysis) 2416088

Standard Information

K₁₅ 5261
 Batch #
 Batch Date

Autosal Model 8400B

Serial Number 19086
 Bath T (°C) 24
 Lab T (°C) 23.5°C
 Analyst CS

Cruise Information
 Cruise ID 2010-07
 Date 29-SEP-2010

Comments

New BATCH OF DMC

Deleted readings 1

1.99785

1.99786

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199994

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Autosal Salinity Analysis Log Sheet

Standardization Information				Standard Information		Autosal Model 8400B		Cruise Information	
Initial Standby Value	2416089/8			K ₁₅	0.99991	Serial Number	69086	Cruise ID	2010-07
Initial Standard Dial Value	6.07			Batch #	P151	Bath T (°C)	24	Date	02-OCT-2010
Standby Value after Standardization	2416088/9			Batch Date	12-MAY-2012	Lab T (°C)	21.4°C @ 12.15	Analyst	CS
Standard Dial Value after Standardization	6.07			Std 31.999					
Final Standby Value (end of analysis)	2416087/8			Conductivity #3					
Sample	Cast	Station	Conductivity #1	Conductivity #2	Conductivity #3	Comments			
P151	ref	2010-07-08	19997	20004	200025	- RAN OLD BOTTLE OF STD TO CALIB (2.00025)			
614/615	ref	CAL	199984	199184					
P151	CAL	CAL	199993						
690	35	CB-5	199547	199547					
691			199316	199376					
692			199310	199308	199310				
693			199217	199219	199219				
694			199154	199156					
695			199121	199127					
696			198909	198909					
697			198647	198647					
698			199291	199292					
699			19867	198611					
700			1994602	1994608	119812	* PROBLEM BORE 14 - DELETED READING 1			
701			198962	198966	1994608	* DELETED READING 63 - DUE TO HIGH SD			
702			199833	199824					
703			198917	1984775					
704			198626	1986527					
705			1911171	191477					
706			198636	198637					
707			19593	19593					
708			199896	199885	159882	Deleted readings 1			
709	↓	↓	198281	198360					
710	36	CB-7	199182	199700	199787				
711	↓	↓	199761	199782	199781				
712	↓	↓	199767	199767					
614/615	ref	2010-07-08	199789	199789					
713	36	CB-7	199702	199703					
714	↓	↓	199555	199555					
715	↓	↓	199314	199313					
716	↓	↓	199306	199307					

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Salinity Analysis Log Sheet

Calibration Information				Standard Information		Autosalinometer Information		Cruise Information	
Initial Standby Value	2446082	Station	2446082	K15	0.99997	Model #	84608	Cruise ID	2010-07
Initial Standardize Dial Value	6.08	Cast	6.08	Batch #	0151	Serial Number	69026	Date	02.3.2010
Standby Value after Calibration	2446081			Date	20 May 2012	Bath T (°C)	24	Analyst	KS/CS
Standardize Dial Value after Calibration	6.07			Salinity (PSU)	24.999	Lab T (°C) shelf	22.1		
Final Standby Value (end of analysis)	2446085						bench: 22.5		
Sample	Cast	Station	Conductivity #1	Conductivity #2	Conductivity #3	Comments			
641615	dwc	CB-3	1.99790	1.99790					
736	37	CB-8	1.99763	1.99764	1.99764				
737			1.99700	1.99703	1.99703				
738			1.99555	1.99556					
739			1.99357	1.99357					
740			1.99307	1.99306					
741			1.99246	1.99247	1.99250				
742			1.99183	1.99188	1.99188				
743			1.99162	1.99164	1.99163				
744			1.98918	1.98918					
745			1.98581	1.98583					
746			1.97173	1.97174					
747			1.96002	1.95998	1.95999				
748			1.94651	1.94651					
749			1.90964	1.90965					
750			1.89955	1.89955					
751			1.88598	1.88619	1.88630				
752			1.87673	1.87673					
753			1.85625	1.85622					
754			1.81480	1.81478					
755			1.78295	1.78293					
756			1.64810	1.64801					
757	37	CB-8	1.50535	1.50532	1.50530				
641615	dwc	CB-3	1.99771	1.99781	1.99786				
758	dwc	CB-78b	1.99373	1.99371					
759	38	CB-10	1.99377	1.99371					
760			1.99369	1.99376					
761			1.99350	1.99350					
762			1.99365	1.99367					
763			1.99293	1.99293					
763	28	CB-10	1.99307	1.99310	1.99309				

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Salinity Analysis Log Sheet

Salinity Analysis Log Sheet					Cruise Information	
Calibration Information			Standard Information		Autosalinometer Information	
Initial Standby Value			K ₁₅	Batch #	Model #	Cruise ID
Initial Standardize Dial Value			Date	Date	Serial Number	Date
Standby Value after Calibration			Salinity (PSU)	Bath T (°C)	Analyst	Analyst
Standardize Dial Value after Calibration			Conductivity #1	Conductivity #2	Conductivity #3	Comments
Sample	Cast	Station	Conductivity #1	Conductivity #2	Conductivity #3	Comments
611/615	dwc	C8-3	1.99781	1.99781		Calibration K ₁₅ : 0.99976 accepted 2
782	39	C8-10	1.99781	1.99783		display 1.9995 K ₁₅ : 0.99972 accepted
783			1.99719	1.99719	1.99725	deleted reading 3 - much too high
784			1.99555	1.99554		
785			1.99451	1.99450		
786			1.99373	1.99374		
787			1.99311	1.99312		
788			1.99294	1.99294		
789			1.99262	1.99263		
790			1.99218	1.99220	1.99217	
791			1.99136	1.99136	1.99164	→ quite variable, couldn't get stable reading
792			1.98978	1.98973	1.98694	
793			1.98689	1.98694		
794			1.97878	1.97878		
795			1.96035	1.96035	1.93347	
796			1.93347	1.93345		
797			1.91216	1.91218		
798			1.90555	1.90556		
799			1.90271	1.90272	1.87294	→ " " " " " "
800			1.87289	1.87291		
801			1.85725	1.85724	1.84284	→ base cap, good insert
802			1.84285	1.84281		
803			1.80610	1.80609		
804			1.67336	1.67336		
805	39	C8-10	1.53178	1.53178	1.99782	→ deleted reading, lower than following 2
614/615	dwc	C8-3	1.99777	1.99781	1.99784	
806	40	C8-7	1.99779	1.99783		
807			1.99783	1.99785	1.99766	
808			1.99762	1.99765	1.99698	→ could not get stable reading.
809			1.99692	1.99695		
810	40	C8-7	1.99569	1.99508		

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Calibration Information				Standard Information		Autosalinometer Information		Cruise Information	
Initial Standby Value		2446089		K ₁₅	Batch #	Model #	Serial Number	Cruise ID	2010-07
Initial Standardize Dial Value				Date		Bath T (°C)	69086	Date	06.5.2010
Standby Value after Calibration				Salinity (PSU)		Lab T (°C)	24	Analyst	KS/CS
Standardize Dial Value after Calibration							shelf: 23.4 Floor: 20.9		
Final Standby Value (end of analysis)		2446086					branch: 22-3		
Sample	Cast	Station	Conductivity #1	Conductivity #2	Conductivity #3	Comments			
811	40	CB-7	1.99360	1.99359					
812			1.99319	1.99321					
813			1.99277	1.99280	1.99282				
814			1.99249	1.99249					
815			1.99211	1.99212					
816			1.98959	1.98959					
817			1.98639	1.98639					
818			1.97052	1.97053					
819			1.95688	1.95689					
820			1.93330	1.93329					
821			1.90435	1.90435					
822			1.89553	1.89554					
823			1.87935	1.87936					
824			1.86303	1.86304					
825			1.83701	1.83700					
826			1.81186	1.81192	1.81197				huge collision with ice! 1.81193/#4
827			1.80392	1.80393					
828			1.65810	1.65868	1.65869				
829	40	CB-7	1.61962	1.61963					
614/615	dwc	CB-3	1.99783	1.99789	1.99781				
830	41	CB-10	1.96931	1.96929	1.96934				
831			1.95715	1.95717					
832			1.94457	1.94459					
833			1.92117	1.92118					
834			1.97774	1.97773					
835			1.97266	1.97264	1.97266				
836			1.96373	1.96374					
837			1.95651	1.95651					
838			1.94506	1.94506	1.94505				
839			1.87361	1.87361	1.87359				- SUSPENSE BOTTLE - (10)
840			1.88889	1.92896	1.92896				

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Salinity Analysis Log Sheet

Calibration Information				Standard Information		Autosalinometer Information		Cruise Information	
Initial Standby Value	246089			K ₁₅		Model #	8400B	Cruise ID	2010-07
Initial Standardize Dial Value				Batch #		Serial Number	69096	Date	05-05-2010
Standby Value after Calibration				Date		Bath T (°C)	24	Analyst	CS
Standardize Dial Value after Calibration				Salinity (PSU)		Lab T (°C)	22.7°C		
Final Standby Value (end of analysis)	246088								
Sample	Cast	Station	Conductivity #1	Conductivity #2	Conductivity #3	Comments			
841	41	0670	192100	192101					
842			191258	191250					
843			189724	189724					
844			188607	188608					
845			187337	187332					
846			186801	186800					
847			186026	186026					
848			185116	185215					
849			184156	184455					
850			182331	182338	187334				
851			179835	178831					
852			175434	165422	165419				
853			167068	167010					
14/16/15	LOOP	06.3	199779	199786	199786				
	LOOP	LOOP	173169	173769					
10			167316	167306	167310				
17			168352	168325	168334				
22			148461	148482					
27			158529	158530					
31			158321	150319					
34			145280	145276	145274				
40			146019	146021					
43			156724	156728	156728				
47			160843	160843					
51			162059	162061					
55			176182	176187	176189				
60			178135	148723	148723				
64			147867	147867					
67			147203	147201					
73			145654	145655					
76			146116	146117					

DATAED 26/05/10, WAY OFF

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Calibration Information				Standard Information		Autosalinometer Information		Cruise Information	
Initial Standby Value		2416089		K ₁₅	Batch #	Model #	Cruise ID		
Initial Standardize Dial Value		92.1				Serial Number	Date		
Standby Value after Calibration		92.1		Date		Bath T (°C)	Analyst		
Standardize Dial Value after Calibration		92.1		Salinity (PSU)		Lab T (°C)			
Final Standby Value (end of analysis)		2416088							
Sample	Cast	Station	Conductivity #1	Conductivity #2	Conductivity #3	Comments			
80	1000	1000	1.452669	1.452668					
85			1.53709	1.52556	1.53564	DELETED READING 1 - FUGURITING			
90			1.51391	1.51396	1.51400				
97			1.53362	1.53364					
114/165	ref	2010.07.08.3	1.99771	1.99782	1.99784	DELETED READING 1 - LOWER THAN OTHER 2			
854	472	08-11	1.99775	1.99781	1.99783				
855			1.99782	1.99782					
856			1.99761	1.99763					
857			1.99761	1.99767	1.99782				
858			1.99543	1.99544					
859			1.99358	1.99341					
860			1.99302	1.99302					
861			1.99256	1.99257					
862			1.99705	1.99707					
863			1.99154	1.99152					
864			1.98962	1.98962					
865			1.98928	1.98928					
866			1.98559	1.98561					
867			1.97112	1.97111					
868			1.95718	1.95715	1.95715				
869			1.93259	1.93254	1.93259				
870			1.90680	1.90678	1.90676				
871			1.89806	1.89801					
872			1.88159	1.88158					
873			1.86758	1.86764	1.86749	DELETED READING 3 - LOWER THAN 1 & 2			
874			1.84377	1.84360	1.84376	DELETED READING 2 - FUGURITING DID NOT FILL			
875			1.79644	1.79651	1.79656				
876			1.65584	1.65564	1.65566	DELETED READING 1 - "			
877			1.61534	1.61533					
114/165	ref	2010.07.08.3	1.99705	1.99775	1.99779	DELETED READING 1 - LOW			

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Calibration Information				Standard Information		Autosalinometer Information		Cruise Information	
Initial Standby Value		Standby Value after Calibration		K ₁₅	Batch #	Model #	Cruise ID		
2416088/9		2416088/9		0.99997	PK1	8400A	2010-07		
Standardize Dial Value after Calibration		Standardize Dial Value after Calibration		Date	Bath T (°C)	Serial Number	Date	Analyst	
610 (no change)		610 (no change)		20 MAY 2012	24	69086	06-05-2010	CS	
Final Standby Value (end of analysis)		Final Standby Value (end of analysis)		Salinity (PSU)	Lab T (°C)				
2416088		2416088		34.999	22.70				
Sample	Cast	Station	Conductivity #1	Conductivity #2	Conductivity #3	Comments			
6141615	11	20107 CB3	199789	199789					
878	CB-9	43	199378	199378					
879			199372	199372					
880			199370	199372					
881			199374	199375					
883			199310	199311					
884			199286	199288					
885			199312	199306	199311	DELETED 2ND READING - FURTHER LEADING FILLING			
886			199283	199281					
888			199242	199247					
889			199253	199254					
890			199246	199246					
891			199251	199253	199251				
893			198953	18951					
894			198946	198946					
895			198941	198943					
896			198943	198943					
898			197688	197685	197686	DELETED READING 1 - FLUCTUATED A LOT			
899			197685	197685					
900			197668	197667					
901			197661	197661					
902	CB-9	14	199780	199784	199784				
903			199781	199781					
904			199765	199763					
6111615	11	20107 CB3	199786	199786					
905	CB-9	44	199764	199764					
906			199356	199357					
907			199376	199375					
908			199304	199305					
909			199750	199751					
910			199774	199775					

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Calibration Information				Standard Information		Autosalinometer Information		Cruise Information	
Initial Standby Value		246048		K ₁₅	Batch #	Model #	Serial Number	Cruise ID	Cruise Information
Initial Standardize Dial Value		16.1		Batch #	Date	Serial Number	Bath T (°C)	Date	Analyst
Standby Value after Calibration		16.1		Date	Salinity (PSU)	Bath T (°C)	Lab T (°C)	Analyst	
Standardize Dial Value after Calibration		16.1							
Final Standby Value (end of analysis)		16.1							
Sample	Cast	Station	Conductivity #1	Conductivity #2	Conductivity #3	Comments			
911	44	16.9	1.99162	1.99162					
912			1.99351	1.98952					
913			1.98565	1.98565					
914			1.97592	1.97589	1.97590				
915			1.95438	1.95431	1.95435				
916			1.97859	1.97856					
917			1.91076	1.91675					
918			1.90072	1.90672					
919			1.88401	1.88154	1.88752				
920			1.87655	1.87651	1.87652				
921			1.86473	1.86473					
922			1.84621	1.84321					
923			1.66206	1.66206	1.66204				
614/1615	ref	2010-08-03	1.53176	1.53170	1.53168				
926	45	16.12	1.99771	1.99778	1.99779				
927			1.99385	1.99384					
928			1.99382	1.99381					
929			1.99381	1.99382					
930			1.99304	1.99304					
931			1.99308	1.99309	1.99510				
932			1.99310	1.99310					
933			1.99795	1.99797					
934			1.99181	1.99180					
935			1.99238	1.99239					
936			1.99220	1.99222					
937			1.99248	1.99247					
938			1.99014	1.99015					
939			1.99016	1.99016					
940			1.99037	1.99037					
941			1.99049	1.99048					

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Calibration Information

Initial Standby Value	241 6093/9	Standard Information	K ₁₅ 0.99997	Autosalinometer Information	Model # 3400B	Cruise Information	Cruise ID 2010-07
Initial Standardize Dial Value	610	Batch #	P151	Serial Number	62036	Date	Oct 08/10
Standby Value after Calibration	241 6095	Date	20-NAJ-2012	Bath T (°C)	24	Analyst	CS/KS
Standardize Dial Value after Calibration	620	Salinity (PSU)	34.999	Lab T (°C)	21.9°C		
Final Standby Value (end of analysis)							

Sample	Cast	Station	Conductivity #1	Conductivity #2	Conductivity #3	Comments
614/615	ref	2010-07 CB3	199695	199745	199763	199772 1/1 99779
614/615	ref	2010-07 CB3	199785	199795	199804	- just a bit - not logged
614/615	ref	CB3	199778	199781	199791	" "
614/615	ref	CB3	199778	199777	199781	" "
614/615	ref	CB3	199781	199781	199781	- This one was logged
614/615	ref	CB3	199775	199774	199774	Calibration
950	47	CB-12	199782	199783	199783	display #1 9987
951			199781	199781	199782	display #2 9992
952			199764	199763	199763	→ deleted reading 2 - arm didn't fill - didn't notice
953			199711	199711	199711	
954			199562	199561	199561	
955			199498	199500	199499	- no insert installed
956			199322	199322	199322	
957			198859	198859	198859	- bad bottle
958			199211	199212	199212	
959			199174	199176	199176	- deleted reading 3
960			199009	199008	199008	
961			198774	198776	198776	
962			197969	197919	197919	
963			196535	196534	196534	
964			194852	194851	194851	
965			191952	191951	191951	
966			190555	190556	190556	
967			188973	188973	188973	
968			187639	187639	187639	
969			185873	185873	185873	
970			184246	184245	184245	
971			180019	180017	180017	
972	↓	↓	164981	164980	164980	
973	47	CB-12	155518	155516	155516	
614/615	ref	2010-07 CB-3	199761	199765	199772	- seems low

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Salinity Analysis Log Sheet

[illegible]