

LSSL 2010-07

(32 pages)

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Water Properties Group

Institute of Ocean Sciences, Ocean Sciences Division

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2010-07</u>	Cast/Station Name: <u>CB-6</u>	Analysis Date (dd mmm yyyy): <u>02 FEB 2011</u>
Autosal Model: <u>8400B</u>	Serial Number: <u>68572</u>	
Initial Standby Value: <u>24+5985</u>	Ratio After Standardization: <u>5.52</u>	
Cell Standardization (Daily)	Standardization Values:	Standard Info.
Conductivity must be ± 0.00001 compared to Standard <u>ZERO - 0.00001</u>	Before: <u>24+5984</u> After: <u>24+5984</u> Notes: _____	K ₁₅ VALUE: <u>0.99997</u> Batch #: <u>P151</u> Batch Date: <u>20 MAY 2012</u>
		Bath Temperature: <u>24</u> °C Sample Temperature: _____ °C Room Temperature: <u>22.9</u> °C Analyst: <u>D.G.S.</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
1262	CB-DW	60-1	1.99714	1.99714		
1263		60-2	1.99659	1.99659		
1264		-3	1.99578	1.99576		
1265		-4	1.99409	1.99410		
1266		-5	1.99326	1.99327		
1267		-6	1.99258	1.99259		
1268		-7	1.99221	1.99220		
1269		-8	1.99104	1.99104		
1270		-9	1.99127	1.99126		
1271		10	1.99063	1.99063		
1272		11	1.98883	1.98882		
1273		12	1.98402	1.98401		
1274		13	1.97155	1.97157		
1275		14	1.94957	1.94957		
1276		15	1.93522	1.93522		
1277		16	1.90016	1.90014		
1278		17	1.89321	1.89320		
1279		18	1.87828	1.87826		
1280		19	1.85991	1.85991		
1281		20	1.83967	1.83968		
1282		21	1.81450	1.81451		
1283		22	1.66070	1.66068		
1284		23	1.54014	1.54011		
1285		24	1.52750	1.52750		
REF		CB-3	1.99762	1.99764	4 FLUSHES	Final Standby Value: <u>24+5984</u>
REF	AGAIN	CB-3	1.99768	1.99775	SAME	

Notes: AGAIN 1.99774 1.99772 BOTTLE

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2010-07</u>		Cast/Station Name: <u>CB-6</u>		Analysis Date (dd mmm yyyy): <u>02 FEB. 2011</u>	
Autosal Model: <u>8400B</u>		Serial Number: <u>68572</u>			
Initial Standby Value: <u>24+5984</u>		Ratio After Standardization: _____			
Cell Standardization (Daily)		Standardization Values:		Standard Info.	
Conductivity must be ± 0.00001 compared to Standard 		Before: <u>24+5984</u>		K ₁₅ VALUE: <u>0.999 97</u>	
		After: <u>24+5984</u>		Batch #: <u>D151</u>	
		Notes: _____		Batch Date: <u>20 MAY 2012</u>	
				Bath Temperature: <u>24</u> °C	
				Sample Temperature: _____ °C	
				Room Temperature: <u>22.6</u> °C	
				Analyst: <u>D. G. S.</u>	

[illegible]

Notes:

AUTOSAL ANALYSIS LOGSHEET

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Cruise ID: <u>2010-07</u>	Cast/Station Name: <u>CB-21</u>	Analysis Date (dd mmm yyyy): <u>02 FEB 2011</u>
Autosal Model: <u>8400B</u>	Serial Number: <u>68572</u>	
Initial Standby Value: <u>24+5984</u>	Ratio After Standardization:	
Cell Standardization (Daily)	Standardization Values:	Standard Info.
Conductivity must be ± 0.00001 compared to Standard	Before: <u>24+5984</u> After: <u>24+5984</u> Notes:	K ₁₅ VALUE: <u>0.99997</u> Batch #: <u>P151</u> Batch Date: <u>20 MAY 2012</u>
		Bath Temperature: <u>24</u> °C Sample Temperature: <u>22.7</u> °C Room Temperature: <u>21.4</u> °C Analyst:

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
49	1358	CB-21	64-1	1.99411	1.99410	
50	1359	"	2	1.99401	1.99402	3 FLUSHES
51	1360	"	3	1.99387	1.99386	↓
52	1361	"	4	1.99399	1.99400	
53	1362	"	5	1.99312	1.99312	
54	1363	"	6	1.99303	1.99303	
55	1364	"	7	1.99312	1.99312	
56	1365	"	8	1.99312	1.99313	
57	1366	"	9	1.99225	1.99224	
58	1367	"	10	1.99218	1.99218	
59	1368	"	11	1.99235	1.99236	
60	1369	"	12	1.99241	1.99240	
61	1370	"	13	1.99054	1.99054	
62	1371	"	14	1.99057	1.99058	
63	1372	"	15	1.99142	1.99144	
64	1373	"	16	1.99076	1.99081	1.99086
65	1374	"	17	1.97770	1.97769	1.99085
66	1375	"	18	1.97772	1.97771	F4
67	1376	"	19	1.97777	1.97777	
68	1377	"	20	1.97780	1.97780	
69	1378	"	21	1.48346	1.48344	
70	1379	"	22	1.48252	1.48252	
71	1380	"	23	1.48246	1.48245	
72	1381	"	24	1.48237	1.48237	
73	REF	CB-3	614/615	1.99770	1.99770	1.99769
					Final Standby Value:	<u>24+5984</u>

Notes:

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2010-07</u>	Cast/Station Name: <u>CB-15</u>	Analysis Date (dd mmm yyyy): <u>03 FEB 2011</u>
Autosal Model: <u>8400B</u>	Serial Number: <u>68572</u>	
Initial Standby Value: <u>24+5984</u>	Ratio After Standardization: _____	
Cell Standardization (Daily)	Standardization Values:	Standard Info.
Conductivity must be ± 0.00001 compared to Standard	Before: <u>24+5984</u>	K ₁₅ VALUE: <u>0.999 97</u>
	After: _____	Batch #: <u>P151</u>
	Notes: _____	Batch Date: <u>20 MAY 2012</u>
		Bath Temperature: <u>24</u> °C
		Sample Temperature: <u>21.8</u> °C
		Room Temperature: <u>23.1</u> °C
		Analyst: <u>D.G.S.</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
CALIBRATION			1.99991	1.99991		
1118	CB-15	54-1	1.99760	1.99760		CORRECTION 0.00002
1119	"	2	1.99726	1.99727		
1120	"	3	1.99751	1.99749		
1121	"	4	1.99695	1.99694		
1122	"	5	1.99560	1.99560		
1123	"	6	1.99390	1.99389		
1124	"	7	1.99328	1.99327		
1125	"	8	1.99255	1.99256		
1126	"	9	1.99245	1.99243		
1127	"	10	1.99147	1.99148		
1128	"	11	1.99089	1.99088		
1129	"	12	1.98860	1.98861		
1130	"	13	1.97884	1.97884		
1131	"	14	1.95221	1.95220		
1132	"	15	1.95294	1.95291		
1133	"	16	1.92401	1.92400		
1134	"	17	1.90674	1.90675		
1135	"	18	1.89528	1.89525		
1136	"	19	1.87760	1.87758		
1137	"	20	1.86636	1.86637		
1138	"	21	1.84598	1.84596		
1139	"	22	1.73266	1.73262	1.73261	
1140	"	23	1.66814	1.66812		
1141	"	24	1.56959	1.56960		
REF	CB-3	674/615	1.99764	1.99765	4 FLUSHES	Final Standby Value: <u>24+5984</u>

Notes: _____

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2010-07</u>		Cast/Station Name: _____		Analysis Date (dd mmm yyyy):	
Autosal Model: <u>8400B</u>		Serial Number: <u>68572</u>		<u>03 FEB. 2011</u>	
Initial Standby Value: <u>24+5985</u>		Ratio After Standardization: <u>5.52</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</u>		Sample Temperature: <u>22.1</u> °C	
	After: _____	Batch #: _____		Room Temperature: <u>22.6</u> °C	
	Notes: _____	Batch Date: _____		Analyst: <u>D.G.S.</u>	

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
1046	CB-13	51-1	1.99779	1.99781		
1047	"	2	1.99779	1.99779		
1048	"	3	1.99780	1.99782		
1049	"	4	1.99699	1.99698		
1050	"	5	1.99564	1.99564		
1051	"	6	1.99384	1.99381		
1052	"	7	1.99313	1.99314		
1053	"	8	1.99223	1.99220		
1054	"	9	1.99204	1.99202		
1055	"	10	1.99174	1.99172		
1056	"	11	1.99014	1.99013		
1057	"	12	1.98774	1.98773		
1058	"	13	1.97899	1.97898		
1059	"	14	1.96354	1.96353		
1060	"	15	1.94635	1.94635		
1061	"	16	1.91762	1.91760		
1062	"	17	1.90785	1.90783		
1063	"	18	1.88766	1.88764		
1064	"	19	1.87451	1.87450		
1065	"	20	1.86389	1.86387		
1066	"	21	1.83932	1.83932		
1067	"	22	1.77665	1.77664		
1068	"	23	1.67092	1.67090		
1069	"	24	1.59366	1.59366		
REF	CB-3		1.99770	1.99770	4 FLUSHES	Final Standby Value:
			1.99771			<u>24+5985</u>

Notes: _____

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2010-07</u>		Cast/Station Name: <u>PP-6</u>	Analysis Date (dd mmm yyyy): <u>03 FEB 2011</u>
Autosal Model: <u>8400 B</u>		Serial Number: <u>68572</u>	
Initial Standby Value: <u>2415985</u>		Ratio After Standardization: _____	
Cell Standardization (Daily) Conductivity must be ± 0.00001 compared to Standard	Standardization Values:	Standard Info.	Bath Temperature: <u>24.0</u> °C
	Before: _____	K ₁₅ VALUE: <u>0.999</u>	Sample Temperature: _____ °C
	After: _____	Batch #: _____	Room Temperature: <u>22.4</u> °C
	Notes: _____	Batch Date: _____	Analyst: <u>D.G.S.</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
1214	PP-6	58-1	1.99407	1.99418	1.99421	
1215	"	2	1.99418	1.99417		
1216	"	3	1.99410	1.99409		
1217	"	4	1.99411	1.99411		
1218	"	5	1.99344	1.99343		
1219	"	6	1.99303	1.99304		
1220	"	7	1.99358	1.99355		
1221	"	8	1.99338	1.99336		
1222	"	9	1.99253	1.99252		
1223	"	10	1.99273	1.99273		
1224	"	11	1.99273	1.99274		
1225	"	12	1.99275	1.99273		
1226	"	13	1.99130	1.99128		
1227	"	14	1.99143	1.99146		
1228	"	15	1.99161	1.99159		
1229	"	16	1.99130	1.99129		
1230	"	17	1.98306	1.98306		
1231	"	18	1.98296	1.98294		
1232	"	19	1.98283	1.98281		
1233	"	20	1.98250	1.98250		
1234	"	21	1.56026	1.56026		
1235	"	22	1.56013	1.56013		
1236	"	23	1.56012	1.56010		
1237	"	24	1.56010	1.56010		
REF	CB-3	614/615	1.99770	1.99770	4 FLUSHES	
			1.99769			
						Final Standby Value: <u>2415985</u>

Notes: _____

AUTOSAL ANALYSIS LOGSHEET

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Cruise ID: <u>2610-07</u>		Cast/Station Name: <u>CB17</u>	Analysis Date (dd mmm yyyy): <u>03 FEB 2011</u>
Autosal Model: <u>8400B</u>		Serial Number: <u>68572</u>	
Initial Standby Value: <u>2445986</u>		Ratio After Standardization: _____	
Cell Standardization (Daily) Conductivity must be ± 0.00001 compared to Standard	Standardization Values:	Standard Info.	Bath Temperature: <u>24.0</u> °C
	Before: _____	K ₁₅ VALUE: <u>0.999</u>	Sample Temperature: _____ °C
	After: _____	Batch #: _____	Room Temperature: <u>21.7</u> °C
	Notes: _____	Batch Date: _____	Analyst: <u>D.G.S</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
1142	CB-17	55-1	1.99770	1.99771		
1143	"	2	1.99771	1.99770		
1144	"	3	1.99752	1.99752		
1145	"	4	1.99696	1.99695		
1146	"	5	1.99541	1.99540		
1147	"	6	1.99392	1.99390		
1148	"	(7)	1.99345	1.99342		
1150	"	(9)	1.99176	1.99178		-1149 missing -
1151	"	10	1.99128	1.99126		
1152	"	11	1.99047	1.99047		
1153	"	12	1.98906	1.98906		
1154	"	13	1.98689	1.98689		
1155	"	14	1.97190	1.97189		
1156	"	15	1.95851	1.95850		
1157	"	16	1.93143	1.93143		
1158	"	17	1.89564	1.89564		
1159	"	18	1.89719	1.89718		
1160	"	19	1.88117	1.88115		
1161	"	20	1.86773	1.86771		
1162	"	21	1.83906	1.83906		
1163	"	22	1.78305	1.78305		
1164	"	23	1.61215	1.61214		
1165	"	24	1.51808	1.51806		
REF	CB-3	614/615	1.99769	1.99770	4 FLUSHES	
			1.99774			
						Final Standby Value: <u>2445985</u>

Notes: _____

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2010-07</u>	Cast/Station Name: <u>CB-54 + PP-6</u>	Analysis Date (dd mmm yyyy): <u>03 Feb 2011</u>
Autosal Model: <u>8400B</u>	Serial Number: <u>68572</u>	
Initial Standby Value: <u>24+5985</u>	Ratio After Standardization: _____	
Cell Standardization (Daily)	Standardization Values:	Standard Info.
Conductivity must be ± 0.00001 compared to Standard 	Before: _____	K ₁₅ VALUE: <u>0.999</u>
	After: _____	Batch #: _____
	Notes: _____	Batch Date: _____
		Bath Temperature: <u>24.0</u> °C
		Sample Temperature: <u>21.3</u> °C
		Room Temperature: <u>21.8</u> °C
		Analyst: <u>D.G.S.</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
1550	CB-54	72-1	1.96094	1.96093		
1551	"	2	1.95150	1.95149		
1552	"	3	1.93716	1.93715		
1553	"	4	1.90303	1.90303		
1554	"	5	1.87382	1.87381		
1555	"	6	1.84669	1.84669		
1556	"	7	1.80258	1.80256		
1557	"	8	1.72466	1.72465		
1558	"	9	1.67609	1.67608		
1559	"	10	1.67605	1.67604		
REF	CB-3	614/615	1.99772	1.99772		
1238	PP-6	59-1	1.99772	1.99771		
1239	"	2	1.99761	1.99761		
1240	"	3	1.99701	1.99700		
1241	"	4	1.99586	1.99585		
1242	"	5	1.99414	1.99414		
1243	"	6	1.99353	1.99351		
1244	"	7	1.99276	1.99276		
1245	"	8	1.99214	1.99214		
1246	"	9	1.99143	1.99143		
1247	"	10	1.99138	1.99137		
1248	"	11	1.98880	1.98880		
1249	"	12	1.98262	1.98261		
1250	"	13	1.97083	1.97083		
1251	"	14	1.96346	1.96344		
1252	"	15	1.95138	1.95137		
						Final Standby Value:

Notes: _____

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2010-07</u>		Cast/Station Name: <u>PP-6</u>		Analysis Date (dd mmm yyyy):	
Autosal Model: <u>8400B</u>		Serial Number: <u>68572</u>		<u>03</u> <u>FEB</u> <u>2011</u>	
Initial Standby Value: <u>24+59.85</u>		Ratio After Standardization: _____			
Cell Standardization (Daily)		Standardization Values:		Standard Info.	
Conductivity must be ± 0.00001 compared to Standard 	Before: _____		K ₁₅ VALUE: <u>0.999</u>		Bath Temperature: <u>24.0</u> °C
	After: _____		Batch #: _____		Sample Temperature: _____ °C
	Notes: _____		Batch Date: _____		Room Temperature: <u>22.9</u> °C
				Analyst: <u>D. G. S.</u>	

[illegible]

Notes:

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2010-07</u>		Cast/Station Name: <u>CB-51</u>		Analysis Date (dd mmm yyyy):	
Autosal Model: <u>8400B</u>		Serial Number: <u>68572</u>		<u>04 FEB 2010</u>	
Initial Standby Value: <u>24+5985</u>		Ratio After Standardization: _____			
Cell Standardization (Daily)	Standardization Values:	Standard Info.		Bath Temperature: <u>24.0</u> °C	
Conductivity must be ± 0.00001 compared to Standard	Before: <u>24+5985</u>	K ₁₅ VALUE: <u>0.99997</u>		Sample Temperature: <u>21.8</u> °C	
	After: <u>0.99997</u>	Batch #: <u>P151</u>		Room Temperature: <u>22.0</u> °C	
	Notes: <u>NO CHANGE</u>	Batch Date: <u>20 MAY 2012</u>		Analyst: <u>D.G.S.</u>	

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
1478	CB-51	69- 1	1.99758	1.99756		
1479	"	2	1.99718	1.99718		
* 1480	"	3	1.99567	1.99579	1.99586	COMMUNICATION LOST
1481	"	4	1.99493	1.99492		- NO DATA RECORDED -
1482	"	5	1.994268	1.994268		- POWER BUMP -
1483	"	6	1.99358	1.99356		34.91677
1484	"	7	1.99269	1.99267		used SALINOM.EXE Program
1485	"	8	1.99200	1.99200		
1486	"	9	1.99098	1.99096		
* 1487	"	(10)	1.98959	1.98959		* NO NISKEN * 11
* 1489	"	(12)	1.98172	1.98172		SAMPLE #1488
1490	"	13	1.97230	1.97229		
1491	"	14	1.95835	1.95834		
1492	"	15	1.93495	1.93495		
1493	"	16	1.91114	1.91112		
1494	"	17	1.90613	1.90611		
1495	"	18	1.89184	1.89183		
1496	"	19	1.86778	1.86777		
1497	"	20	1.84901	1.84901		
1498	"	21	1.80877	1.80875		
1499	"	22	1.76796	1.76796		
1500	"	23	1.67528	1.67526		
						Final Standby Value:
						<u>24+5986</u>

Notes:

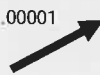
AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2010-07</u>		Cast/Station Name: <u>CB-50</u>		Analysis Date (dd mmm yyyy): <u>04 FEB 2010</u>	
Autosal Model: <u>8400 B</u>		Serial Number: <u>68572</u>			
Initial Standby Value: <u>24+5986</u>		Ratio After Standardization: _____			
Cell Standardization (Daily)		Standardization Values:		Standard Info.	
Conductivity must be ± 0.00001 compared to Standard		Before: _____		K ₁₅ VALUE: <u>0.99997</u>	
		After: <u>0.99997</u>		Batch #: <u>P151</u>	
		Notes: <u>NO ADJUSTMENT</u>		Batch Date: <u>20 MAY 2012</u>	
				Bath Temperature: <u>24.0</u> °C	
				Sample Temperature: <u>22.4</u> °C	
				Room Temperature: <u>21.9</u> °C	
				Analyst: <u>D.G.S.</u>	

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
1454	CB-50	68-1	1.99775	1.99774		
1455	"	2	1.99771	1.99772		
1456	"	3	1.99712	1.99712		
1457	"	4	1.99581	1.99581		
1458	"	5	1.99421	1.99420		
1459	"	6	1.99351	1.99352		
1460	"	7	1.99266	1.99266		
1461	"	8	1.99199	1.99199		
1462	"	9	1.99133	1.99134		
1463	"	10	1.99114	1.99112		
1464	"	11	1.98864	1.98864		
1465	"	12	1.98337	1.98337		
1466	"	13	1.97926	1.97925		
1467	"	14	1.97226	1.97227		
1468	"	15	1.96333	1.96331		
1469	"	16	1.91541	1.91541		
1470	"	17	1.88990	1.88990		
1471	"	18	1.89069	1.89068		
1472	"	19	1.87078	1.87076		
1473	"	20	1.85057	1.85057		
1474	"	21	1.80824	1.80823		
1475	"	22	1.74748	1.74746		
1476	"	23	1.63962	1.63961		
1477	"	24	1.59601	1.59601		
REF.	CB-3	614/615	1.99829	1.99827	4 FLUSHES	Final Standby Value:
			1.99828			<u>24+5986</u>

Notes: _____ _____ _____

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2010-07</u>		Cast/Station Name: <u>CB-21</u>		Analysis Date (dd mmm yyyy): <u>04 FEB 2010</u>	
Autosal Model: <u>8400B</u>		Serial Number: <u>68572</u>			
Initial Standby Value: <u>24+5986</u>		Ratio After Standardization: _____			
Cell Standardization (Daily)	Standardization Values:	Standard Info.		Bath Temperature: <u>24.0</u> °C	
Conductivity must be ± 0.00001 compared to Standard 	Before: _____	K ₁₅ VALUE: <u>0.99997</u>		Sample Temperature: <u>21.5</u> °C	
	After: _____	Batch #: <u>P151</u>		Room Temperature: <u>21.5</u> °C	
	Notes: <u>N/C</u>	Batch Date: <u>20 MAY 2012</u>		Analyst: <u>D.G.S.</u>	

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
1406	CB-21	66-1	1.99776	1.99776		
1407	"	2	1.99774	1.99774		
1408	"	3	1.99756	1.99756		
1409	"	4	1.99703	1.99701		
1410	"	5	1.99569	1.99569		
1411	"	6	1.99404	1.99403		
1412	"	7	1.99325	1.99324		
1413	"	8	1.99234	1.99234		
1414	"	9	1.99156	1.99154		
1415	"	10	1.99144	1.99144		
1416	"	11	1.99022	1.99021		
1417	"	12	1.98738	1.98737		
1418	"	13	1.97775	1.97776		
1419	"	14	1.96236	1.96235		
1420	"	15	1.91063	1.91064		
1421	"	16	1.90584	1.90585		
1422	"	17	1.89199	1.89198		
1423	"	18	1.87946	1.87947		
1424	"	19	1.86511	1.86510		
1425	"	20	1.84559	1.84559		
1426	"	21	1.80633	1.80632		
1427	"	22	1.75452	1.75451		
1428	"	23	1.55051	1.55051		
1429	"	24	1.48135	1.48134		
REF	CB-3	614/615	1.99768	1.99768	4 FLUSHES	Final Standby Value:
			1.99769			<u>24+5987</u>

Notes: REF CB-3 614/615 1.99778 1.99773 4 FLUSHES
1.99773

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2010-07</u>	Cast/Station Name: <u>CB-40</u>	Analysis Date (dd mmm yyyy): <u>07 FEB 2011</u>
Autosal Model: <u>8400B</u>	Serial Number: <u>68572</u>	
Initial Standby Value: <u>2445986</u>	Ratio After Standardization: _____	
Cell Standardization (Daily)	Standardization Values:	Standard Info:
Conductivity must be ± 0.00001 compared to Standard	Before: _____	K ₁₅ VALUE: <u>0.99997</u>
	After: <u>NO ADJUSTMENT</u>	Batch #: <u>P151</u>
	Notes: _____	Batch Date: <u>20 MAY 2012</u>
		Bath Temperature: <u>24.0</u> °C
		Sample Temperature: _____ °C
		Room Temperature: <u>21.3</u> °C
		Analyst: <u>D.G.S.</u>

Sample	Station Name	Depth/Misk#	Salinity 1	Salinity 2	Salinity 3	Comments
CALIBRATION			1.99987			corr. val = 0.000040
1430	CB-40	67-1	1.99775	1.99776		
1431	"	2	1.99762	1.99762		
1432	"	3	1.99710	1.99708		
1433	"	4	1.99589	1.99588		
1434	"	5	1.99403	1.99402		
1435	"	6	1.99350	1.99353		
1436	"	7	1.99273	1.99272		
1437	"	8	1.99217	1.99216		
1438	"	9	1.99139	1.99139		
1439	"	10	1.99045	1.99045		
1440	"	11	1.98957	1.98958		
1441	"	12	1.98741	1.98742		
1442	"	13	1.98214	1.98213		
1443	"	14	1.97226	1.97227		
1444	"	15	1.95776	1.95776		
1445	"	16	1.93719	1.93718		
1446	"	17	1.88254	1.88255		
1447	"	18	1.92585	1.92586		??
1448	"	19	1.88441	1.88441		
1449	"	20	1.86712	1.86712		
1450	"	21	1.84472	1.84474		
1451	"	22	1.79207	1.79206		
1452	"	23	1.60664	1.60665		
1453	"	24	1.53913	1.53914		
REF	CB-3	614/615	1.99760	1.99768		Final Standby Value: 24 + 5985

Notes: _____

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2010-07</u>		Cast/Station Name: <u>CB-53</u>	Analysis Date (dd mmm yyyy): <u>07 FEB. 2011</u>
Autosal Model: <u>8400B</u>		Serial Number: <u>68572</u>	
Initial Standby Value: <u>24 + 5985</u>		Ratio After Standardization: _____	
Cell Standardization (Daily)	Standardization Values:	Standard Info.	Bath Temperature: <u>24.0</u> °C
Conductivity must be ± 0.00001 compared to Standard 	Before: _____	K ₁₅ VALUE: <u>0.999</u> <u>97</u>	Sample Temperature: <u>21.4</u> °C
	After: _____	Batch #: <u>P151</u>	Room Temperature: <u>22.9</u> °C
	Notes: _____	Batch Date: <u>20 MAY 2012</u>	Analyst: <u>J. G. S.</u>

[illegible]

Notes: _____

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2010-07</u>		Cast/Station Name: <u>CB-52</u>		Analysis Date (dd mmm yyyy):	
Autosal Model: <u>8400B</u>		Serial Number: <u>68572</u>		<u>07 FEB 2011</u>	
Initial Standby Value: <u>24+5986</u>		Ratio After Standardization: _____			
Cell Standardization (Daily)		Standardization Values:		Standard Info.	
Conductivity must be ± 0.00001 compared to Standard 		Before: _____		K ₁₅ VALUE: <u>0.99997</u>	
		After: <u>N/C</u>		Batch #: <u>P151</u>	
		Notes: _____		Batch Date: <u>20 MAY 2012</u>	
				Bath Temperature: <u>24.0</u> °C	
				Sample Temperature: <u>20.3</u> °C	
				Room Temperature: <u>22.6</u> °C	
				Analyst: <u>D.G.S.</u>	

Sample	Station Name	Depth/Misk#	Salinity 1	Salinity 2	Salinity 3	Comments
1502	CB-52	70 - 1	1.99453	1.99453		
1503	"	2	1.99389	1.99388		
1504	"	3	1.99355	1.99355		
1505	"	4	1.99308	1.99308		
1506	"	5	1.99259	1.99259		
1507	"	6	1.99188	1.99189		
1508	"	7	1.99156	1.99155		
1509	"	8	1.99088	1.99088		
1510	"	9	1.99094	1.99093		
1511	"	10	1.99012	1.99013		
1512	"	11	1.98754	1.98754		
1513	"	12	1.97870	1.97869		
1514	"	13	1.97219	1.97220		
1515	"	14	1.94911	1.94913		
1516	"	15	1.94991	1.94991		
1517	"	16	1.93277	1.93276		
1518	"	17	1.86654	1.86656		
1519	"	18	1.89037	1.89037		LOOSE CAP - LOOSE INSERT
1520	"	19	1.86796	1.86796		
1521	"	20	1.85123	1.85123		
1522	"	21	1.79279	1.79281		
1523	"	22	1.74231	1.74231		
1524	"	23	1.68579	1.68579		
1525	"	24	1.66996	1.66995		
REF	CB-3	614/615	1.99768	1.99771		Final Standby Value:
			1.99771			<u>24+5986</u>

Notes: _____

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2010-07</u>	Cast/Station Name: <u>CB-16</u>	Analysis Date (dd mmm yyyy): <u>07 FEB 2011</u>
Autosal Model: <u>8400B</u>	Serial Number: <u>68572</u>	
Initial Standby Value: <u>24.5986</u>	Ratio After Standardization: _____	
Cell Standardization (Daily)	Standardization Values:	Standard Info.
Conductivity must be ± 0.00001 compared to Standard	Before: _____ After: <u>N/C</u> Notes: _____	K ₁₅ VALUE: <u>0.999 97</u> Batch #: <u>P151</u> Batch Date: <u>20 MAY 2012</u>
		Bath Temperature: <u>24.0</u> °C Sample Temperature: <u>21.0</u> °C Room Temperature: <u>22.5</u> °C Analyst: <u>J.G.S.</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
998	CB-16	49-1	1.997706	1.997706		
999	"	2	1.99763	1.99763		
1000	"	3	1.99751	1.99751		
1001	"	4	1.99697	1.99699		
1002	"	5	1.99555	1.99555		
1003	"	6	1.99400	1.99400		
1004	"	7	1.99327	1.99326		
1005	"	8	1.99239	1.99241		
1006	"	9	1.99239	1.99239		
1007	"	10	1.99149	1.99149		
1008	"	11	1.99084	1.99084		
1009	"	12	1.98914	1.98916		
1010	"	13	1.98622	1.98625		
1011	"	14	1.97092	1.97092		
1012	"	15	1.95804	1.95803		
1013	"	16	1.93759	1.93757		
1014	"	17	1.90705	1.90706		
1015	"	18	1.89501	1.89501		
1016	"	19	1.88071	1.88071		
1017	"	20	1.86743	1.86741		
1018	"	21	1.84607	1.84606		
1019	"	22	1.80431	1.80431		
1020	"	23	1.66837	1.66837		
1021	"	24	1.64547	1.64545		
REF	CB-3	614-615	1.99776	1.99776	FOUR FLUSHES	Final Standby Value: <u>24.5985</u>
			1.99777	1.99777		

Notes: _____

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AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2010-07</u>	Cast/Station Name: <u>CB-18</u>	Analysis Date (dd mmm yyyy): <u>07 FEB 2011</u>
Autosal Model: <u>8400B</u>	Serial Number: <u>68572</u>	
Initial Standby Value: <u>24+5985</u>	Ratio After Standardization: _____	
Cell Standardization (Daily)	Standardization Values:	Standard Info.
Conductivity must be ± 0.00001 compared to Standard	Before: _____	K ₁₅ VALUE: <u>0.999 97</u>
	After: <u>N/C</u>	Batch #: <u>P151</u>
	Notes: _____	Batch Date: <u>20-MAY-2012</u>
		Bath Temperature: <u>24.0</u> °C
		Sample Temperature: <u>20.9</u> °C
		Room Temperature: <u>20.4</u> °C
		Analyst: <u>D.G.S.</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
1286	CB-18	61-1	1.99699	1.99699		
1287	"	2	1.99560	1.99559		
1288	"	3	1.99453	1.99453		
1289	"	4	1.99389	1.99388		
1290	"	5	1.99308	1.99308		
1291	"	6	1.99230	1.99229		
1292	"	7	1.99186	1.99185		
1293	"	8	1.99145	1.99146		
1294	"	9	1.99146	1.99146		
1295	"	10	1.98991	1.98991		
1296	"	11	1.98936	1.98935		
1297	"	12	1.98623	1.98623		
1298	"	13	1.97070	1.97070		
1299	"	14	1.95639	1.95638		
1300	"	15	1.93293	1.93294		
1301	"	16	1.90795	1.90796		
1302	"	17	1.89709	1.89708		
1303	"	18	1.88173	1.88172		
1304	"	19	1.86914	1.86913		
1305	"	20	1.84211	1.84210		
1306	"	21	1.77544	1.77543		
1307	"	22	1.76171	1.76172		
1308	"	23	1.55390	1.55390		
1309	"	24	1.49128	1.49127		
REF	CB-3	614/615	1.99758	1.99759		Final Standby Value:
			1.99759	1.99760		<u>24+5985</u>

Notes: _____

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2010-07</u>	Cast/Station Name: <u>CB-19</u>	Analysis Date (dd mmm yyyy): <u>09 FEB 2011</u>
Autosal Model: <u>8400B</u>	Serial Number: <u>68572</u>	
Initial Standby Value: <u>24+5984</u>	Ratio After Standardization: <u>0.99968</u>	
Cell Standardization (Daily)	Standardization Values:	Standard Info.
Conductivity must be ± 0.00001 compared to Standard	Before: <u>0.99930</u> After: <u>0.99968</u> Notes: <u>RS #5.54</u>	K ₁₅ VALUE: <u>0.99997</u> Batch #: <u>P151</u> Batch Date: <u>20 MAY 2012</u>
		Bath Temperature: <u>24.0</u> °C Sample Temperature: <u>23.3</u> °C Room Temperature: <u>22.8</u> °C Analyst: <u>D. G. S.</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
CAL #5			999968			CORRECTION 0.000002
1310	CB-19	62-1	1.99766	1.99766		STANDARD 24+5986
1311	"	2	1.99756	1.99760	1.99762	
1312	"	3	1.99738	1.99738		
1313	"	4	1.99675	1.99677		
1314	"	5	1.99549	1.99548		
1315	"	6	1.99365	1.99365		
1316	"	7	1.99295	1.99295		
1317	"	8	1.99232	1.99232		
1318	"	9	1.99140	1.99140		
1319	"	10	1.99149	1.9914		
1320	"	11	1.98941	1.98940		
1321	"	12	1.98879	1.98878		
1322	"	13	1.98519	1.98521		
1323	"	14	1.97105	1.97106		
1324	"	15	1.95920	1.95920		
1325	"	16	1.93871	1.93871		
1326	"	17	1.91378	1.91380		
1327	"	18	1.91125	1.91127		
1328	"	19	1.88284	1.88284		
1329	"	20	1.87980	1.87979		
1330	"	21	1.84644	1.84644		
1331	"	22	1.74398	1.74398		
1332	"	23	1.51946	1.51947		
1333	"	24	1.46984	1.46982		
REF 1334	1335 CB+6	DWR	1.99770	1.99775		Final Standby Value: <u>24+5987</u>

Notes:	<u>1.99777, 1.99779</u>
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Cruise ID: <u>2010-07</u>		Cast/Station Name: <u>DUPLICATES</u>		Analysis Date (dd mmm yyyy):	
Autosal Model: <u>B400B</u>		Serial Number: <u>68572</u>		<u>09</u> <u>FEB</u> <u>2011</u>	
Initial Standby Value: <u>24+586</u>		Ratio After Standardization: _____			
Cell Standardization (Daily)	Standardization Values:	Standard Info.		Bath Temperature: <u>24.0</u> °C	
Conductivity must be ± 0.00001 compared to Standard	Before: _____	K ₁₅ VALUE: <u>0.99997</u>		Sample Temperature: <u>22.3</u> °C	
	After: <u>N/A</u>	Batch #: <u>P151</u>		Room Temperature: <u>23.1</u> °C	
	Notes: _____	Batch Date: <u>20 MAY 2012</u>		Analyst: <u>D.G.S.</u>	

[illegible]

Notes: _____

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2010-07</u>		Cast/Station Name: <u>DUPLICATES</u>		Analysis Date (dd mmm yyyy):	
Autosal Model: <u>8400 B</u>		Serial Number: <u>68572</u>		<u>09</u> <u>FEB</u> <u>2011</u>	
Initial Standby Value: <u>24+5986</u>		Ratio After Standardization: _____			
Cell Standardization (Daily)	Standardization Values:	Standard Info.		Bath Temperature: <u>24.0</u> °C	
Conductivity must be ± 0.00001 compared to Standard 	Before: _____	K ₁₅ VALUE: <u>0.99997</u>		Sample Temperature: <u>21.4</u> °C	
	After: <u>N/C</u>	Batch #: <u>P151</u>		Room Temperature: <u>21.8</u> °C	
	Notes: _____	Batch Date: <u>20 MAR 2012</u>		Analyst: <u>D.G.S.</u>	

[illegible]

Notes: _____

Duplicates Cases 5 ✓

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AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2010-07</u>	Cast/Station Name: <u>DUPLICATES</u>	Analysis Date (dd mmm yyyy): <u>09 FEB 2011</u>
Autosal Model: <u>8400 B</u>	Serial Number: <u>68572</u>	
Initial Standby Value: <u>2445987</u>	Ratio After Standardization: _____	
Cell Standardization (Daily)	Standardization Values:	Standard Info.
Conductivity must be ± 0.00001 compared to Standard	Before: <u>N/C</u>	K ₁₅ VALUE: <u>0.999 97</u>
	After: _____	Batch #: <u>P151</u>
	Notes: _____	Batch Date: <u>20/MAY/2012</u>
		Bath Temperature: <u>24.0</u> °C
		Sample Temperature: <u>22.6</u> °C
		Room Temperature: <u>22.9</u> °C
		Analyst: <u>J.G.S.</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
1334	CB-6	63 - 1	1.99770	1.99771		
1312	" -19	62 - 3	1.99767	1.99767		
1240	PP-6	59 - 3	1.99706	1.99706		
1264	CB-DW	60 - 3	1.99583	1.99584		
1265	CB-DW	60 - 4	1.99417	1.99416		
1289	CB-18	61 - 4	1.99391	1.99390		
1293	" -18	61 - 8	1.99150	1.99151		
1319	" -19	62 - 10	1.99145	1.99145		
1204	PP-7	57 - 15	1.95836	1.95836		
1386	CB-21	65 - 5	1.95668	1.95668		
1275	CB-DW	60 - 14	1.94964	1.94964		
1300	CB-18	61 - 15	1.93298	1.93298		
1253	PP-6	59 - 16	1.90879	1.90878		
1277	CB-DW	60 - 16	1.90051	1.90051		
1351	CB-6	63 - 18	1.87879	1.87879		
1279	CB-DW	60 - 18	1.87832	1.87831		
1256	PP-6	59 - 19	1.86489	1.86489		
1281	CB-DW	60 - 20	1.83953	1.83954		
1401	CB-21	65 - 26	1.76754	1.76753		
1213	PP-7	57 - 24	1.55382	1.55381		
1285	CB-DW	60 - 24	1.52763	1.52762		
1405	CB-21	65 - 24	1.48433	1.48433		
1333	CB-19	62 - 24	1.46987	1.46987		
REF	1334-1335	DWR	1.99781	1.99782	CB-6	Final Standby Value:

Notes: _____

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Cruise ID: <u>2010-07</u>		Cast/Station Name: <u>DUPLICATES</u>		Analysis Date (dd mmm yyyy):	
Autosal Model: <u>8400 B</u>		Serial Number: <u>68572</u>		<u>09 FEB 2011</u>	
Initial Standby Value: <u>24+5986</u>		Ratio After Standardization: _____			
Cell Standardization (Daily)	Standardization Values:	Standard Info.		Bath Temperature: <u>24.0</u> °C	
Conductivity must be ± 0.00001 compared to Standard	Before: _____	K ₁₅ VALUE: <u>0.99997</u>		Sample Temperature: <u>22.1</u> °C	
	After: <u>N/C</u>	Batch #: <u>P151</u>		Room Temperature: <u>22.9</u> °C	
	Notes: _____	Batch Date: <u>20 MAY 2012</u>		Analyst: <u>D.G.S.</u>	

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
1047	CB-13	51- 2	1.99774	1.99774		
1003	" -16	49- 6	1.99400	1.99401		
957	" -12	47- 8	1.98864	1.98864		
1055	" -13	51- 10	1.99286	1.99286		
1007	" -16	49- 10	1.99151	1.99150		
1070	" -15	52- 1	1.98851	1.98850		
974	" -12a	48- 1	1.98687	1.98687		
963	" -12	47- 4	1.96520	1.96520		
915	" -9	44- 14	1.95429	1.95429		
980	" -12a	48- 7	1.94801	1.94801		
1014	" -16	49- 17	1.90714	1.90713		
968	" -12	47- 19	1.87636	1.87635		
920	" -9	44- 19	1.87650	1.87650		
989	" -12a	48- 16	1.86009	1.86009		
923	" -9	44- 22	1.78370	1.78369		
1068	" -13	51- 23	1.67055	1.67054		
REF	133A/133S	DWR	1.99772 1.99779	1.99775		CB-6
						Final Standby Value: 24.5987

Notes: _____

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2010-07</u>	Cast/Station Name: <u>CB-13</u>	Analysis Date (dd mmm yyyy): <u>10 FEB. 2011</u>
Autosal Model: <u>8400B</u>	Serial Number: <u>68572</u>	
Initial Standby Value: <u>24+5985</u>	Ratio After Standardization: <u>24+5985</u>	
Cell Standardization (Daily)	Standardization Values:	Standard Info.
Conductivity must be ± 0.00001 compared to Standard	Before: <u>0.999949</u>	K ₁₅ VALUE: <u>0.999 97</u>
	After: <u>0.999968</u>	Batch #: <u>P151</u>
	Notes: _____	Batch Date: <u>20 MAY 2012</u>
	Bath Temperature: <u>24.0</u> °C	Sample Temperature: <u>24.1</u> °C
	Room Temperature: <u>23.6</u> °C	Analyst: <u>J.G.S.</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
CAL			0.999968			
1022	CB-13	50-1	1.99378	1.99380		
1023	CB-13	2	1.99376	1.99377		
1024	"	3	1.99351	1.99351		
1025	"	4	1.99370	1.99370		
1026	"	5	1.99310	1.99310		
1027	"	6	1.99307	1.99306		
1028	"	7	1.99274	1.99274		
1029	"	8	1.99286	1.99286		
1030	"	9	1.99234	1.99234		
1031	"	10	1.99231	1.99231		
1032	"	11	1.99219	1.99220		
1033	"	12	1.99235	1.99234		
1034	"	13	1.98971	1.98971		
1035	"	14	1.98972	1.98972		
1036	"	15	1.98991	1.98991		
1037	"	16	1.99008	1.99007		
1038	"	17	1.97983	1.97984		
1039	"	18	1.97985	1.97985		
1040	"	19	1.97938	1.97938		
1041	"	20	1.97939	1.97940		
1042	"	21	1.59492	1.594991		
1043	"	22	1.59505	1.59505		
1044	"	23	1.59509	1.59509		
1045	"	24	1.59509	1.59510		
REF	CB-6	1334/1335	1.99782	1.99783		Final Standby Value: <u>24+5985</u>

 Notes: 1.99783

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2010-07</u>		Cast/Station Name: <u>PP-7</u>		Analysis Date (dd mmm yyyy):	
Autosal Model: <u>8400B</u>		Serial Number: <u>68572</u>		<u>10 FEB 2011</u>	
Initial Standby Value: <u>24+5985</u>		Ratio After Standardization: _____			
Cell Standardization (Daily)	Standardization Values:	Standard Info.		Bath Temperature: <u>24.0</u> °C	
Conductivity must be ± 0.00001 compared to Standard 	Before: _____	K ₁₅ VALUE: <u>0.99997</u>		Sample Temperature: _____ °C	
	After: _____	Batch #: <u>P151</u>		Room Temperature: <u>22.8</u> °C	
	Notes: _____	Batch Date: <u>20 MAY 2012</u>		Analyst: <u>D.G.S.</u>	

Sample	Station Name	-Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
1190	PP-7	57-1	1.99773	1.99773		
1191	"	2	1.99773	1.99773		
1192	"	3	1.99760	1.99760		
1193	"	4	1.99708	1.99709		
1194	"	5	1.99577	1.99578		
1195	"	6	1.99403	1.99406		
1196	"	7	1.99333	1.99333		
1197	"	8	1.99268	1.99268		
1198	"	9	1.99231	1.99231		
1199	"	10	1.99136	1.99136		
1200	"	11	1.99074	1.99075		
1201	"	12	1.98880	1.98880		
1202	"	13	1.97946	1.97946		
1203	"	14	1.96722	1.96722		
1204	"	15	1.95820	1.95819		
1205	"	16	1.93547	1.93548		
1206	"	17	1.90508	1.90508		
1207	"	18	1.88674	1.88674		
1208	"	19	1.87583	1.87583		
1209	"	20	1.86259	1.86259		
1210	"	21	1.83837	1.83838		
1211	"	22	1.67272	1.67271		
1212	"	23	1.65399	1.65398		
1213	"	24	1.55376	1.55375		
REF	C-B-6	1334/1335	1.99793	1.99793		Final Standby Value:
			1.99795			<u>24+5985</u>

Notes: _____

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2010-07</u>	Cast/Station Name: <u>CB-15</u>	Analysis Date (dd mmm yyyy): <u>10 FEB 2011</u>
Autosal Model: <u>8400 B</u>	Serial Number: <u>68572</u>	
Initial Standby Value: <u>24.5986</u>	Ratio After Standardization: _____	
Cell Standardization (Daily)	Standardization Values:	Standard Info.
Conductivity must be ± 0.00001 compared to Standard 	Before: _____ After: <u>N/C</u> Notes: _____	K ₁₅ VALUE: <u>0.999 97</u> Batch #: <u>P151</u> Batch Date: <u>20/MAY/12</u>
		Bath Temperature: <u>24.0</u> °C Sample Temperature: <u>21.9</u> °C Room Temperature: <u>23.0</u> °C Analyst: <u>D. G. S.</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
1070	CB-15	52-1	1.98854	1.98852		
1071	"	2	1.98338	1.98338		
1072	"	3	1.97919	1.97920		
1073	"	4	1.97465	1.97464		
1074	"	5	1.96860	1.96860		
1075	"	6	1.96136	1.96169		
1076	"	7	1.94541	1.94539		
1077	"	8	1.93408	1.93408		
1078	"	9	1.92259	1.92258		
1079	"	10	1.91208	1.91209		
1080	"	11	1.90573	1.90572		
1081	"	12	1.89893	1.89893		
1082	"	13	1.89319	1.89320		
1083	"	14	1.88289	1.88290		
1084	"	15	1.87176	1.87176		
1085	"	16	1.86024	1.86023		
1086	"	17	1.85661	1.85661		
1087	"	18	1.85868	1.85869		
1088	"	19	1.83850	1.83850		
1089	"	20	1.82206	1.82210	1.82207	
1090	"	21	1.76035	1.76036		
1091	"	22	1.72697	1.72697		
1092	"	23	1.67277	1.67276		
1093	"	24	1.58777	1.58777		
REF	CB-6	1334/1335	1.99787	1.99785		Final Standby Value:
			1.99786			<u>24.5988</u>

Notes: _____

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2010-07</u>	Cast/Station Name: <u>CB-122</u>	Analysis Date (dd mmm yyyy): <u>10 Feb. 2011</u>
Autosal Model: <u>8400B</u>	Serial Number: <u>68572</u>	
Initial Standby Value: <u>24+5988</u>	Ratio After Standardization: _____	
Cell Standardization (Daily)	Standardization Values:	Standard Info.
Conductivity must be ± 0.00001 compared to Standard 	Before: _____ After: <u>NC</u> Notes: _____	K ₁₅ VALUE: <u>0.999 97</u> Batch #: <u>P151</u> Batch Date: <u>20 MAY 2012</u>
		Bath Temperature: <u>24.0</u> °C Sample Temperature: _____ °C Room Temperature: <u>23.2</u> °C Analyst: <u>J. G. S.</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
974	CB-122	48 ~ 1	1.98686	1.98686		
975	"	2	1.98475	1.98475		
976	"	3	1.97975	1.97977		
977	"	4	1.97797	1.97795		
978	"	5	1.96834	1.96835		
979	"	6	1.96185	1.96185		
980	"	7	1.94714	1.94715		
981	"	8	1.93306	1.93304		
982	"	9	1.92466	1.92466		
983	"	10	1.91427	1.91427		
984	"	11	1.90818	1.90819		
985	"	12	1.90205	1.90205		
986	"	13	1.89804	1.89803		
987	"	14	1.88586	1.88585		
988	"	15	1.87506	1.87505		
989	"	16	1.86035	1.86036		
990	"	17	1.85094	1.85094		
991	"	18	1.84443	1.84442		
992	"	19	1.82328	1.82328		
993	"	20	1.80814	1.80815		
994	"	21	1.78590	1.78591		
995	"	22	1.74916	1.74916		
996	"	23	1.63921	1.63922		
997	"	24	1.56133	1.56132		
REF	CB-6	1334/1335	1.99772	1.99773		Final Standby Value:
			1.99775			<u>24 + 5987</u>

Notes: _____

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Water Properties Group

Institute of Ocean Sciences, Ocean Sciences Division

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2010-07</u>		Cast/Station Name: <u>CB-21</u>		Analysis Date (dd mmm yyyy):	
Autosal Model: <u>8400B</u>		Serial Number: <u>68572</u>		<u>10 FEB 2011</u>	
Initial Standby Value: <u>2415988</u>		Ratio After Standardization: _____			
Cell Standardization (Daily)	Standardization Values:	Standard Info.		Bath Temperature: <u>24.0</u> °C	
Conductivity must be ± 0.00001 compared to Standard 	Before: _____	K ₁₅ VALUE: <u>0.999</u>		Sample Temperature: <u>22.2</u> °C	
	After: <u>N/C</u>	Batch #: _____		Room Temperature: <u>23.4</u> °C	
	Notes: _____	Batch Date: _____		Analyst: <u>D.G.S.</u>	

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
1382	CB-21	65-1	1.98107	1.98107		
1383	"	2	1.97359	1.97358		
1384	"	3	1.96678	1.96678		
1385	"	4	1.96252	1.96252		
1386	"	5	1.95711	1.95712		
1387	"	6	1.94880	1.94881		
1388	"	7	1.93965	1.93966		
1389	"	8	1.92650	1.92654	1.92652	
1390	"	9	1.91411	1.91411		
1391	"	10	1.90238	1.90231		
1392	"	11	1.89501	1.89500		
1393	"	12	1.88932	1.88931		
1394	"	13	1.88405	1.88406		
1395	"	14	1.87206	1.87206		
1396	"	15	1.86160	1.86161		
1397	"	16	1.84721	1.84722		
1398	"	17	1.83627	1.83627		
1399	"	18	1.81796	1.81796		
1400	"	19	1.79289	1.79288		
1401	"	20	1.77081	1.77081		
1402	"	21	1.71559	1.71559		
1403	"	22	1.66598	1.66598		
1404	"	23	1.56433	1.56432		
1405	"	24	1.48517	1.48516		
REF	CB-6	1334/1335	1.99774	1.99774		Final Standby Value:
		DUR	1.99774			<u>2415988</u>

Notes: _____

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2010-07</u>	Cast/Station Name: <u>PP-7</u>	Analysis Date (dd mmm yyyy): <u>11 FEB 2011</u>
Autosal Model: <u>8400B</u>	Serial Number: <u>68572</u>	
Initial Standby Value: <u>24+5987</u>	Ratio After Standardization: _____	
Cell Standardization (Daily)	Standardization Values:	Standard Info.
Conductivity must be ± 0.00001 compared to Standard 	Before: <u>1.99989</u> After: <u>1.99993</u> Notes: _____	K ₁₅ VALUE: <u>0.999 97</u> Batch #: <u>P151</u> Batch Date: <u>20 MAY 2012</u>
		Bath Temperature: <u>24.0</u> °C Sample Temperature: <u>22.2</u> °C Room Temperature: <u>22.8</u> °C Analyst: <u>D.G.S.</u>

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
CAL			1.99992			
1166	PP-7	56 - 1	1.99432	1.99432		
1167	"	2	1.99431	1.99434	1.99430	
1168	"	3	1.99424	1.99424		
1169	"	4	1.99409	1.99410		
1170	"	5	1.99377	1.99378		
1171	"	6	1.99346	1.99346		
1172	"	7	1.99335	1.99334		
1173	"	8	1.99409	1.99409		
1174	"	9	1.99324	1.99324		
1175	"	10	1.99274	1.99275		
1176	"	11	1.99274	1.99279	1.99278	
1177	"	12	1.99283	1.99283		
1178	"	13	1.99154	1.99154		
1179	"	14	1.99077	1.99075		
1180	"	15	1.99086	1.99085		
1181	"	16	1.99080	1.99079		
1182	"	17	1.99083	1.99084		
1183	"	18	1.98132	1.98133		
1184	"	19	1.98127	1.98127		
1185	"	20	1.98135	1.98135		
1186	"	21	1.98076	1.98076		
1187	"	22	1.88777	1.88777		
1188	"	23	1.74759	1.74759		
1189	"	24	1.55410	1.55410		
REF	CB-6	1334/1335	1.99779	1.99779		Final Standby Value: <u>24+5988</u>

Notes: <u>DUK 1.99781</u>

AUTOSAL ANALYSIS LOGSHEET

Cruise ID: <u>2010-07</u>		Cast/Station Name: <u>CB-15</u>		Analysis Date (dd mmm yyyy): <u>11 FEB 2011</u>	
Autosal Model: <u>8400B</u>		Serial Number: <u>68572</u>			
Initial Standby Value: <u>24+5988</u>		Ratio After Standardization: _____			
Cell Standardization (Daily)	Standardization Values:	Standard Info.		Bath Temperature: <u>24.0</u> °C	
Conductivity must be ± 0.00001 compared to Standard 	Before: _____	K ₁₅ VALUE: <u>0.999</u>		Sample Temperature: <u>22.2</u> °C	
	After: <u>N/C</u>	Batch #: _____		Room Temperature: <u>22.5</u> °C	
	Notes: _____	Batch Date: _____		Analyst: <u>D.G.S.</u>	

Sample	Station Name	Depth/Nisk#	Salinity 1	Salinity 2	Salinity 3	Comments
1094	CB-15	53 - 1	1.99404	1.99402		
1095	"	2	1.99384	1.99384		
1096	"	3	1.99402	1.99403		
1097	"	4	1.99403	1.99402		
1098	"	5	1.99311	1.99311		
1099	"	6	1.99319	1.99319		
1100	"	7	1.99311	1.99311		
1101	"	8	1.99317	1.99317		
1102	"	9	1.99235	1.99234		
1103	"	10	1.99222	1.99222		
1104	"	11	1.99233	1.99232		
1105	"	12	1.99245	1.99243		
1106	"	13	1.99065	1.99066		
1107	"	14	1.99076	1.99076		
1108	"	15	1.99084	1.99084		
1109	"	16	1.99086	1.99086		
1110	"	17	1.98018	1.98016		
1111	"	18	1.98139	1.98138		
1112	"	19	1.97998	1.97998		
1113	"	20	1.97953	1.97953		
1114	"	21	1.58291	1.58291		
1115	"	22	1.57938	1.57938		
1116	"	23	1.57875	1.57874		
1117	"	24	1.57873	1.57874		
REF	CB-6	1334/1335	1.99777	1.99777		Final Standby Value:
		DWR	1.99778			<u>24+5989</u>

Notes: _____

Notes: _____
