

SALINITY/METALS CORRELATION  
 SAMPLES COLLECTED FROM SOUTH BAY SALT PONDS  
 24 OCTOBER 2002

**SOUTH BAY DATA FROM HANSEN/FRONTIER - SAMPLES COLLECTED 24OCT2002**

Pond ID	Salinity (g/L)	Dissolved Concentration									
		Cr (ug/l)	Ni (ug/l)	Cu (ug/l)	Zn (ug/l)	As (ug/l)	Se (ug/l)	Ag (ug/l)	Cd (ug/l)	Hg (ng/l)	Pb (ug/l)
A2W	31.6	1.22	8.05	1.06	1.21	6.27	0.199	0.012	0.049	0.00126	0.264
A3W	42	1.22	7.45	1.1	0.65	10.7	0.128	0.01	0.044	0.00126	0.307
B2C	54.6	1.24	4.96	1.29	1.18	1.14	0.055	0.016	0.054	0.00036	0.28
A15	89.4	1.12	10.8	0.86	1.29	14	0.094	0.021	0.077	0.00138	0.313
A15 (DUP)	89.8	1.16	10.6	0.89	1.83	14.5	0.124	0.027	0.067	0.00128	0.33
A14	92.6	1.35	11	0.97	1.15	18.3	0.111	0.055	0.039	0.00221	0.309
A16	109	1.27	12.8	1.07	2.25	14.4	0.141	0.04	0.053	0.0014	0.446
A18	146	1.35	19.7	1.92	2.88	48.3	0.224	0.023	.899 <sup>a</sup>	0.00114	0.748
I-3 <sup>b</sup>	194	1.16	10.8	0.57	2.87	3.52	0.304	0.015	0.096	0.00056	0.572
I-3B <sup>b</sup>	224	1.47	13.3	2.64	4.02	3.14	0.142	0.039	0.124	0.00069	1.33
B9	279	1.34	14.5	2.21	3.8	30.9	0.14	0.028	0.423	0.00041	7.18

Pond ID	Salinity (g/L)	Total Recoverable Concentration									
		Cr (ug/l)	Ni (ug/l)	Cu (ug/l)	Zn (ug/l)	As (ug/l)	Se (ug/l)	Ag (ug/l)	Cd (ug/l)	Hg (ng/l)	Pb (ug/l)
A2W	31.6	2.36	11.8	2.15	1.8	6.36	0.274	0.022	0.063	0.0118	0.843
A3W	42	0.67	8.42	1.24	0.79	11.9	0.173	0.015	0.045	0.00478	0.324
B2C	54.6	0.67	7.09	1.59	1.28	1	0.092	0.013	0.05	0.00337	0.392
A15	89.4	0.83	14.3	1.37	1.82	15.1	0.16	0.03	0.054	0.032	0.351
A15 (DUP)	89.8	1.07	15.7	1.59	3.07	15.7	0.135	0.02	0.054	0.032	0.371
A14	92.6	1.17	13.5	2.04	3.16	20.1	0.22	0.063	0.053	0.0445	0.395
A16	109	1.23	18.1	2.01	3.38	17.1	0.159	0.15	0.062	0.0395	0.619
A18	146	1.3	21.8	3.39	4.49	56.2	0.31	0.045	0.119	0.0497	1.37
I-3 <sup>b</sup>	194	1.47	9.73	2.07	6.77	4.28	0.295	0.128	0.119	0.0356	0.892
I-3B <sup>b</sup>	224	1.38	12.3	2.45	7.22	5.18	0.352	0.044	0.136	0.041	1.15
B9	279	1.12	15.1	2.61	4.28	33.1	0.143	0.416	0.123	0.03	6.48

SALINITY/METALS CORRELATION  
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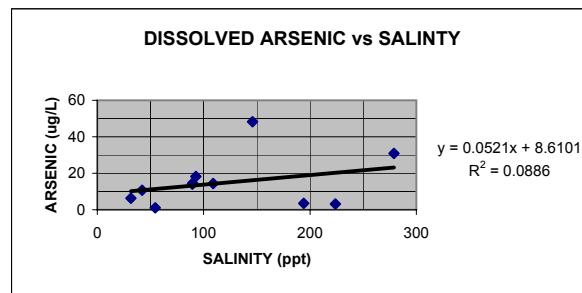
**SOUTH BAY DATA FROM HANSEN/FRONTIER - SAMPLES COLLECTED 24OCT2002**  
**ANALYSIS OF CORRELATIONS**

**SUMMARY**

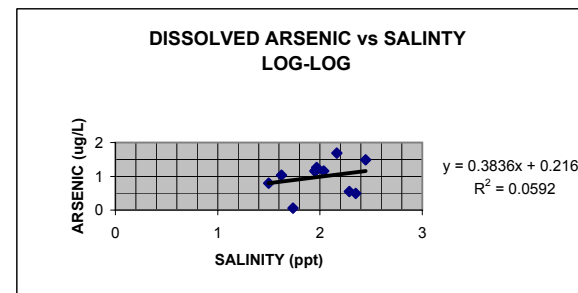
METAL	BEST RELATION	R SQUARED CORRELATION COEFFICIENT	METAL	BEST RELATION	R SQUARED CORRELATION COEFFICIENT
Arsenic	Total, log-log	0.1032	Zinc	Dissolved	0.8831
Cadmium	Total	0.7891	Cadmium	Total	0.7891
Chromium	Dissolved	0.2556	Lead	Dissolved, lol-log	0.625
Copper	Dissolved	0.3914	Silver	Total, log-log	0.5831
Lead	Dissolved, lol-log	0.625	Nickel	Disolved, log-log	0.5295
Mercury	Total, log-log	0.4946	Mercury	Total, log-log	0.4946
Nickel	Disolved, log-log	0.5295	Copper	Dissolved	0.3914
Selenium	Dissolved	0.1117	Chromium	Dissolved	0.2556
Silver	Total, log-log	0.5831	Selenium	Dissolved	0.1117
Zinc	Dissolved	0.8831	Arsenic	Total, log-log	0.1032

SALINITY/METALS CORRELATION  
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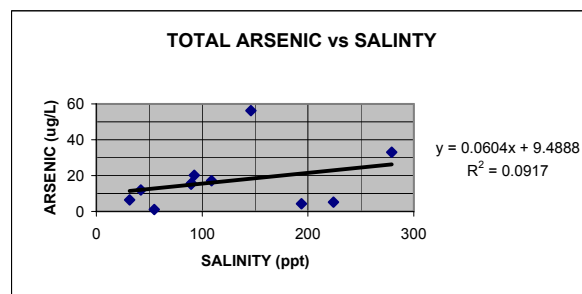
POND	SALINITY	ARSENIC DISSOLVED
A2W	31.6	6.27
A3W	42	10.7
B2C	54.6	1.14
A15	89.4	14
A15(DUP)	89.8	14.5
A14	92.6	18.3
A16	109	14.4
A18	146	48.3
I-3	194	3.52
I-3B	224	3.14
B9	279	30.9



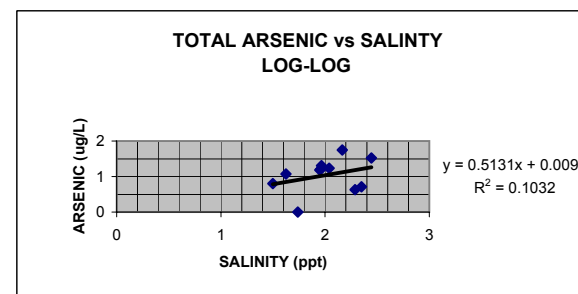
LOG SALINITY	LOG As DISSOLVED
1.4996871	0.7972675
1.6232493	1.0293838
1.7371926	0.0569049
1.9513375	1.146128
1.9532763	1.161368
1.966611	1.2624511
2.0374265	1.1583625
2.1643529	1.6839471
2.2878017	0.5465427
2.350248	0.4969296
2.4456042	1.4899585



POND	SALINITY	ARSENIC TOTAL
A2W	31.6	6.36
A3W	42	11.9
B2C	54.6	1
A15	89.4	15.1
A15(DUP)	89.8	15.7
A14	92.6	20.1
A16	109	17.1
A18	146	56.2
I-3	194	4.28
I-3B	224	5.18
B9	279	33.1

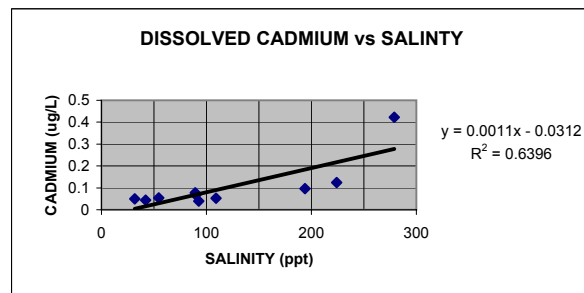


LOG SALINITY	LOG As TOTAL
1.4996871	0.8034571
1.6232493	1.075547
1.7371926	0
1.9513375	1.1789769
1.9532763	1.1958997
1.966611	1.3031961
2.0374265	1.2329961
2.1643529	1.7497363
2.2878017	0.6314438
2.350248	0.7143298
2.4456042	1.519828

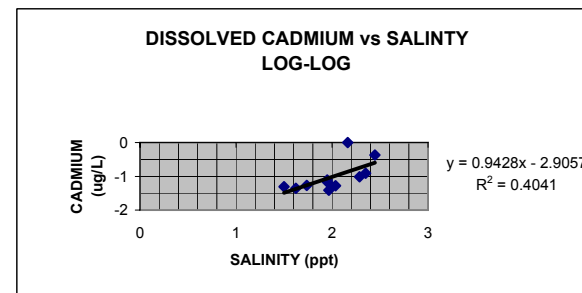


SALINITY/METALS CORRELATION  
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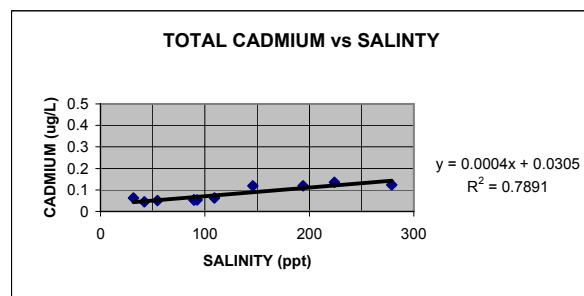
POND	SALINITY	CADMIUM DISSOLVED
A2W	31.6	0.049
A3W	42	0.044
B2C	54.6	0.054
A15	89.4	0.077
A15(DUP)	89.8	0.067
A14	92.6	0.039
A16	109	0.053
A18	146	
I-3	194	0.096
I-3B	224	0.124
B9	279	0.423



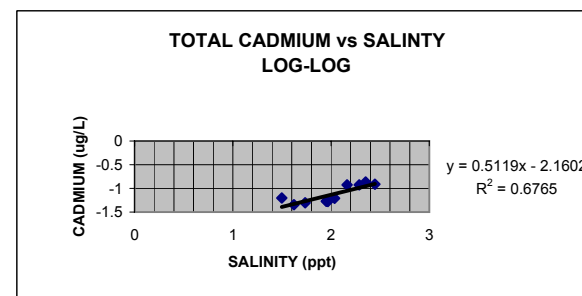
LOG SALINITY	LOG Cd DISSOLVED
1.4996871	-1.309804
1.6232493	-1.356547
1.7371926	-1.267606
1.9513375	-1.113509
1.9532763	-1.173925
1.966611	-1.408935
2.0374265	-1.275724
2.1643529	#NUM!
2.2878017	-1.017729
2.350248	-0.906578
2.4456042	-0.37366



POND	SALINITY	CADMIUM TOTAL
A2W	31.6	0.063
A3W	42	0.045
B2C	54.6	0.05
A15	89.4	0.054
A15(DUP)	89.8	0.054
A14	92.6	0.053
A16	109	0.062
A18	146	0.119
I-3	194	0.119
I-3B	224	0.136
B9	279	0.123

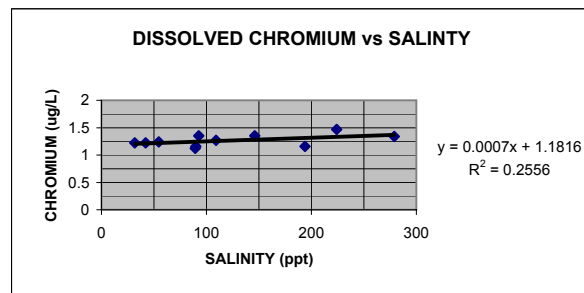


LOG SALINITY	LOG Cd TOTAL
1.4996871	-1.200659
1.6232493	-1.346787
1.7371926	-1.30103
1.9513375	-1.267606
1.9532763	-1.267606
1.966611	-1.275724
2.0374265	-1.207608
2.1643529	-0.924453
2.2878017	-0.924453
2.350248	-0.866461
2.4456042	-0.910095

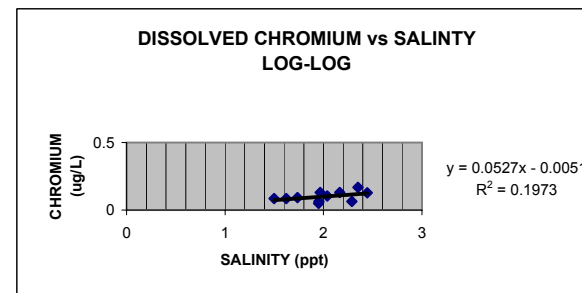


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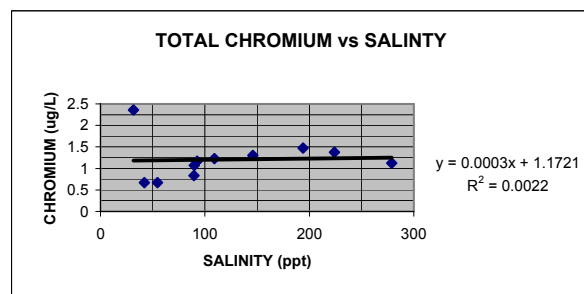
POND	SALINITY	CHROMIUM DISSOLVED
A2W	31.6	1.22
A3W	42	1.22
B2C	54.6	1.24
A15	89.4	1.12
A15(DUP)	89.8	1.16
A14	92.6	1.35
A16	109	1.27
A18	146	1.35
I-3	194	1.16
I-3B	224	1.47
B9	279	1.34



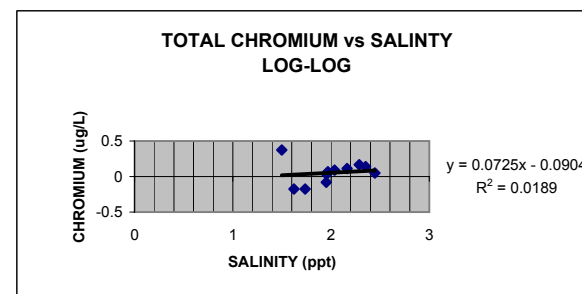
LOG SALINITY	LOG Cr DISSOLVED
1.4996871	0.0863598
1.6232493	0.0863598
1.7371926	0.0934217
1.9513375	0.049218
1.9532763	0.064458
1.966611	0.1303338
2.0374265	0.1038037
2.1643529	0.1303338
2.2878017	0.064458
2.350248	0.1673173
2.4456042	0.1271048



POND	SALINITY	CHROMIUM TOTAL
A2W	31.6	2.36
A3W	42	0.67
B2C	54.6	0.67
A15	89.4	0.83
A15(DUP)	89.8	1.07
A14	92.6	1.17
A16	109	1.23
A18	146	1.3
I-3	194	1.47
I-3B	224	1.38
B9	279	1.12

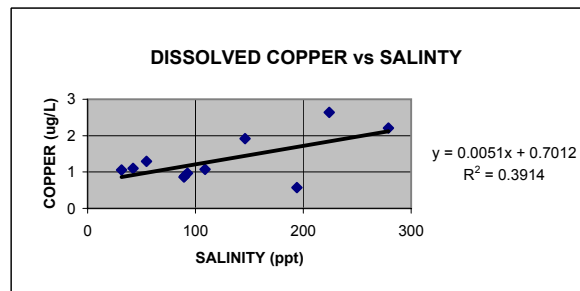


LOG SALINITY	LOG Cr TOTAL
1.4996871	0.372912
1.6232493	-0.173925
1.7371926	-0.173925
1.9513375	-0.080922
1.9532763	0.0293838
1.966611	0.0681859
2.0374265	0.0899051
2.1643529	0.1139434
2.2878017	0.1673173
2.350248	0.1398791
2.4456042	0.049218

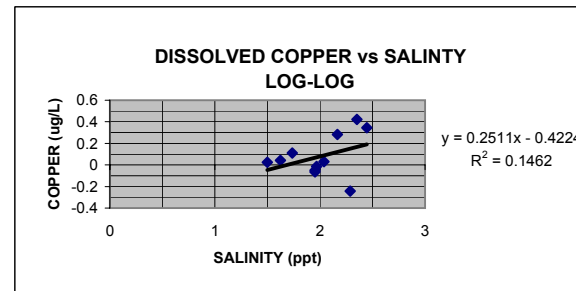


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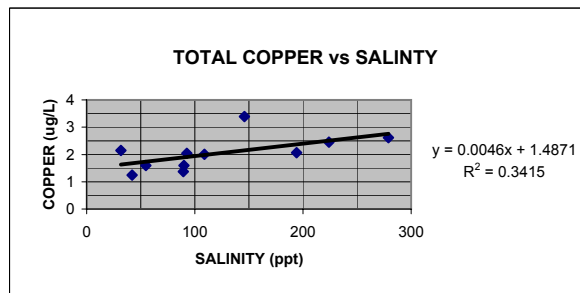
POND	SALINITY	COPPER DISSOLVED
A2W	31.6	1.06
A3W	42	1.1
B2C	54.6	1.29
A15	89.4	0.86
A15(DUP)	89.8	0.89
A14	92.6	0.97
A16	109	1.07
A18	146	1.92
I-3	194	0.57
I-3B	224	2.64
B9	279	2.21



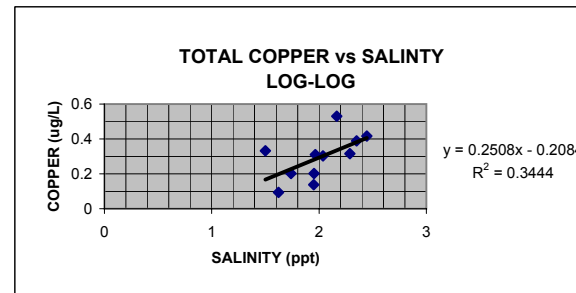
LOG SALINITY	LOG Cu DISSOLVED
1.4996871	0.0253059
1.6232493	0.0413927
1.7371926	0.1105897
1.9513375	-0.065502
1.9532763	-0.05061
1.966611	-0.013228
2.0374265	0.0293838
2.1643529	0.2833012
2.2878017	-0.244125
2.350248	0.4216039
2.4456042	0.3443923



POND	SALINITY	COPPER TOTAL
A2W	31.6	2.15
A3W	42	1.24
B2C	54.6	1.59
A15	89.4	1.37
A15(DUP)	89.8	1.59
A14	92.6	2.04
A16	109	2.01
A18	146	3.39
I-3	194	2.07
I-3B	224	2.45
B9	279	2.61

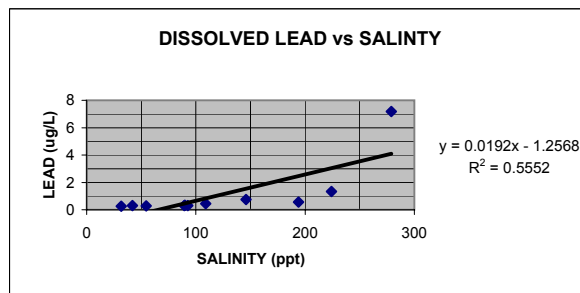


LOG SALINITY	LOG Cu TOTAL
1.4996871	0.3324385
1.6232493	0.0934217
1.7371926	0.2013971
1.9513375	0.1367206
1.9532763	0.2013971
1.966611	0.3096302
2.0374265	0.3031961
2.1643529	0.5301997
2.2878017	0.3159703
2.350248	0.3891661
2.4456042	0.4166405

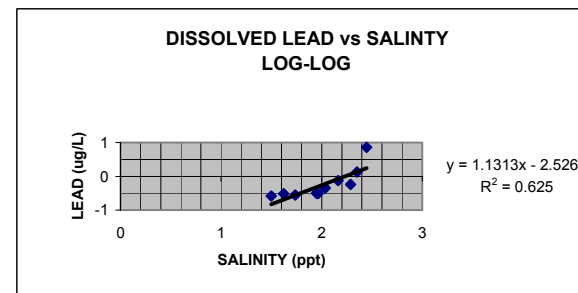


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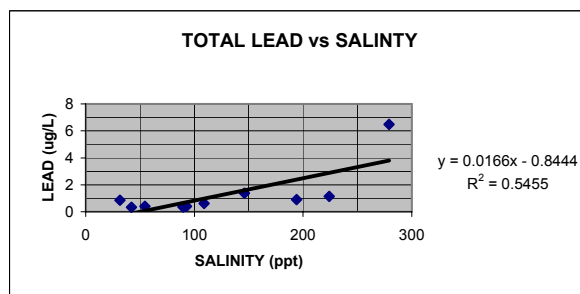
POND	SALINITY	LEAD DISSOLVED
A2W	31.6	0.264
A3W	42	0.307
B2C	54.6	0.28
A15	89.4	0.313
A15(DUP)	89.8	0.33
A14	92.6	0.309
A16	109	0.446
A18	146	0.748
I-3	194	0.572
I-3B	224	1.33
B9	279	7.18



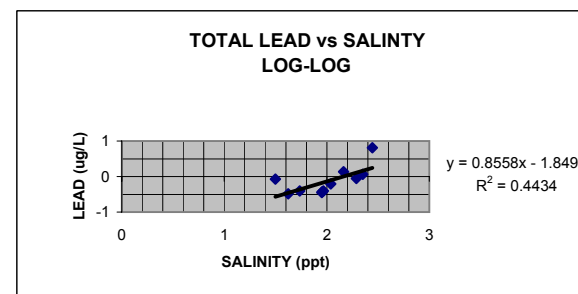
LOG SALINITY	LOG Pb DISSOLVED
1.4996871	-0.578396
1.6232493	-0.512862
1.7371926	-0.552842
1.9513375	-0.504456
1.9532763	-0.481486
1.966611	-0.510042
2.0374265	-0.350665
2.1643529	-0.126098
2.2878017	-0.242604
2.350248	0.1238516
2.4456042	0.8561244



POND	SALINITY	LEAD TOTAL
A2W	31.6	0.843
A3W	42	0.324
B2C	54.6	0.392
A15	89.4	0.351
A15(DUP)	89.8	0.371
A14	92.6	0.395
A16	109	0.619
A18	146	1.37
I-3	194	0.892
I-3B	224	1.15
B9	279	6.48

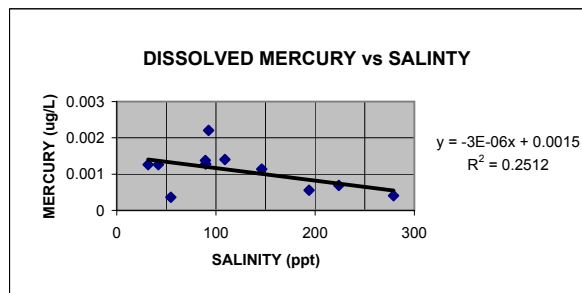


LOG SALINITY	LOG Pb TOTAL
1.4996871	-0.074172
1.6232493	-0.489455
1.7371926	-0.406714
1.9513375	-0.454693
1.9532763	-0.430626
1.966611	-0.403403
2.0374265	-0.208309
2.1643529	0.1367206
2.2878017	-0.049635
2.350248	0.0606978
2.4456042	0.811575

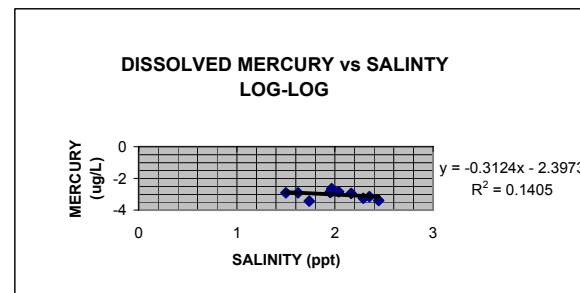


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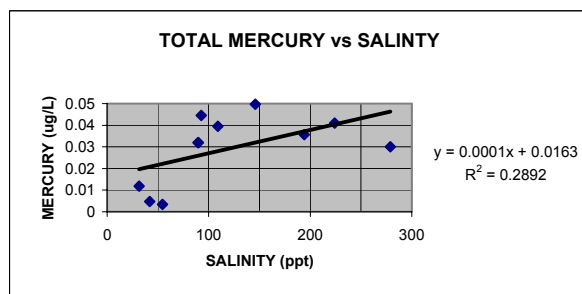
POND	SALINITY	MERCURY DISSOLVED
A2W	31.6	0.00126
A3W	42	0.00126
B2C	54.6	0.00036
A15	89.4	0.00138
A15(DUP)	89.8	0.00128
A14	92.6	0.00221
A16	109	0.0014
A18	146	0.00114
I-3	194	0.00056
I-3B	224	0.00069
B9	279	0.00041



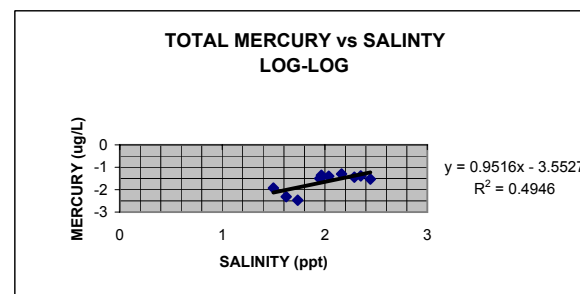
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1.4996871	-2.899629
1.6232493	-2.899629
1.7371926	-3.443697
1.9513375	-2.860121
1.9532763	-2.89279
1.966611	-2.655608
2.0374265	-2.853872
2.1643529	-2.943095
2.2878017	-3.251812
2.350248	-3.161151
2.4456042	-3.387216



POND	SALINITY	MERCURY TOTAL
A2W	31.6	0.0118
A3W	42	0.00478
B2C	54.6	0.00337
A15	89.4	0.032
A15(DUP)	89.8	0.032
A14	92.6	0.0445
A16	109	0.0395
A18	146	0.0497
I-3	194	0.0356
I-3B	224	0.041
B9	279	0.03



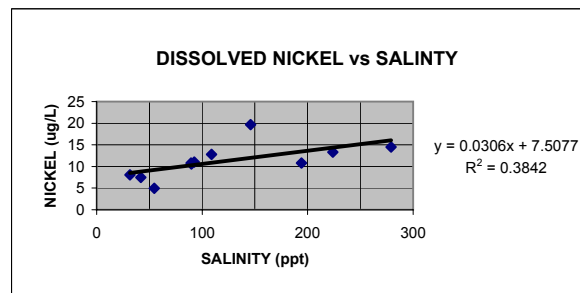
LOG SALINITY	LOG Hg TOTAL
1.4996871	-1.928118
1.6232493	-2.320572
1.7371926	-2.47237
1.9513375	-1.49485
1.9532763	-1.49485
1.966611	-1.35164
2.0374265	-1.403403
2.1643529	-1.303644
2.2878017	-1.44855
2.350248	-1.387216
2.4456042	-1.522879



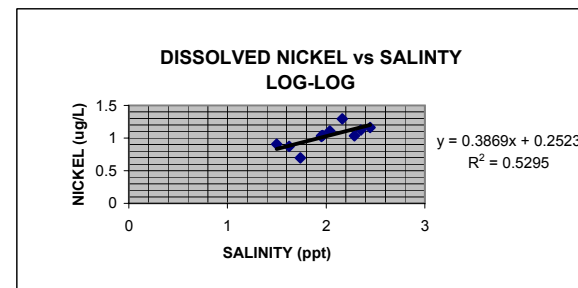


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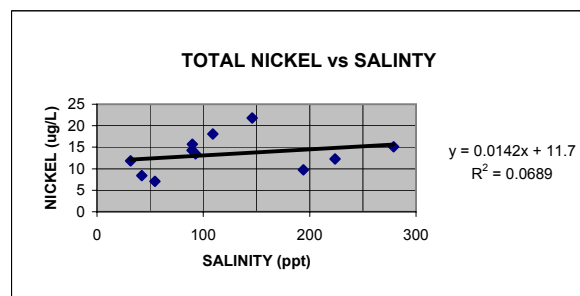
POND	SALINITY	NICKEL DISSOLVED
A2W	31.6	8.05
A3W	42	7.45
B2C	54.6	4.96
A15	89.4	10.8
A15(DUP)	89.8	10.6
A14	92.6	11
A16	109	12.8
A18	146	19.7
I-3	194	10.8
I-3B	224	13.3
B9	279	14.5



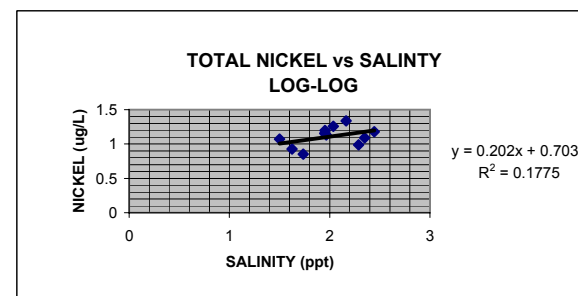
LOG SALINITY	LOG Ni DISSOLVED
1.4996871	0.9057959
1.6232493	0.8721563
1.7371926	0.6954817
1.9513375	1.0334238
1.9532763	1.0253059
1.966611	1.0413927
2.0374265	1.10721
2.1643529	1.2944662
2.2878017	1.0334238
2.350248	1.1238516
2.4456042	1.161368



POND	SALINITY	NICKEL TOTAL
A2W	31.6	11.8
A3W	42	8.42
B2C	54.6	7.09
A15	89.4	14.3
A15(DUP)	89.8	15.7
A14	92.6	13.5
A16	109	18.1
A18	146	21.8
I-3	194	9.73
I-3B	224	12.3
B9	279	15.1

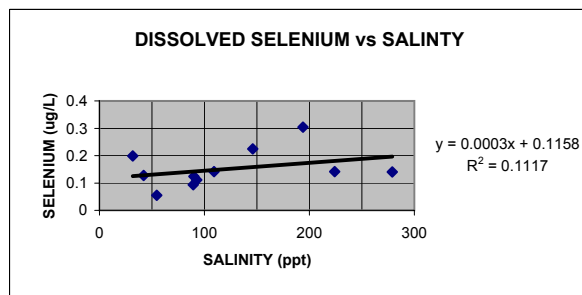


LOG SALINITY	LOG Ni TOTAL
1.4996871	1.071882
1.6232493	0.9253121
1.7371926	0.8506462
1.9513375	1.155336
1.9532763	1.1958997
1.966611	1.1303338
2.0374265	1.2576786
2.1643529	1.3384565
2.2878017	0.9881128
2.350248	1.0899051
2.4456042	1.1789769

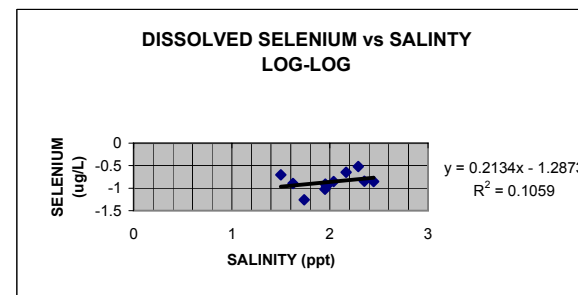


SALINITY/METALS CORRELATION  
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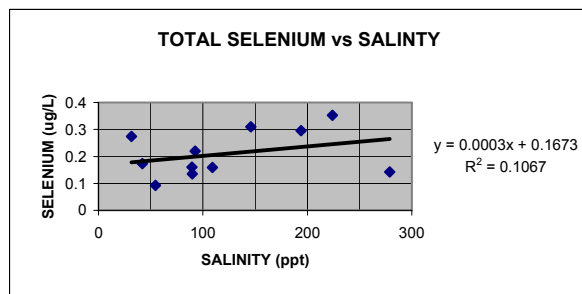
POND	SALINITY	SELENIUM DISSOLVED
A2W	31.6	0.199
A3W	42	0.128
B2C	54.6	0.055
A15	89.4	0.094
A15(DUP)	89.8	0.124
A14	92.6	0.111
A16	109	0.141
A18	146	0.224
I-3	194	0.304
I-3B	224	0.142
B9	279	0.14



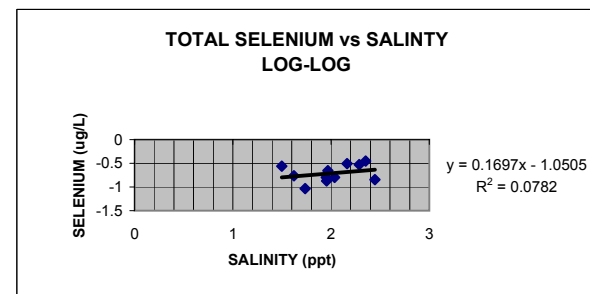
LOG SALINITY	LOG Se DISSOLVED
1.4996871	-0.701147
1.6232493	-0.89279
1.7371926	-1.259637
1.9513375	-1.026872
1.9532763	-0.906578
1.966611	-0.954677
2.0374265	-0.850781
2.1643529	-0.649752
2.2878017	-0.517126
2.350248	-0.847712
2.4456042	-0.853872



POND	SALINITY	SELENIUM TOTAL
A2W	31.6	0.274
A3W	42	0.173
B2C	54.6	0.092
A15	89.4	0.16
A15(DUP)	89.8	0.135
A14	92.6	0.22
A16	109	0.159
A18	146	0.31
I-3	194	0.295
I-3B	224	0.352
B9	279	0.143

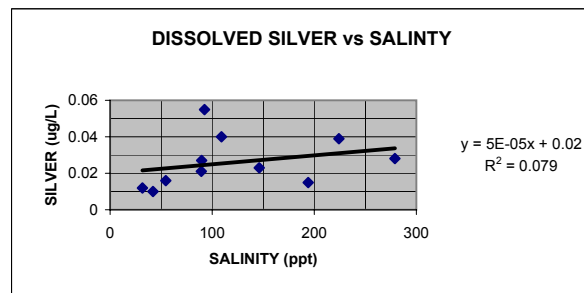


LOG SALINITY	LOG Se TOTAL
1.4996871	-0.562249
1.6232493	-0.761954
1.7371926	-1.036212
1.9513375	-0.79588
1.9532763	-0.869666
1.966611	-0.657577
2.0374265	-0.798603
2.1643529	-0.508638
2.2878017	-0.530178
2.350248	-0.453457
2.4456042	-0.844664

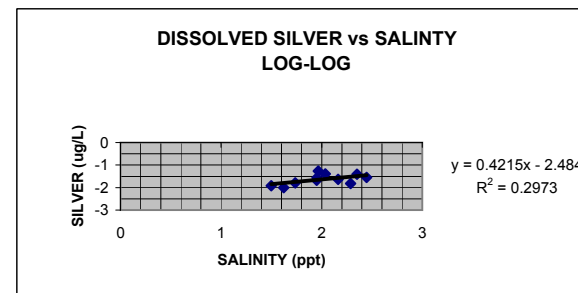


SALINITY/METALS CORRELATION  
 SAMPLES COLLECTED FROM SOUTH BAY SALT PONDS  
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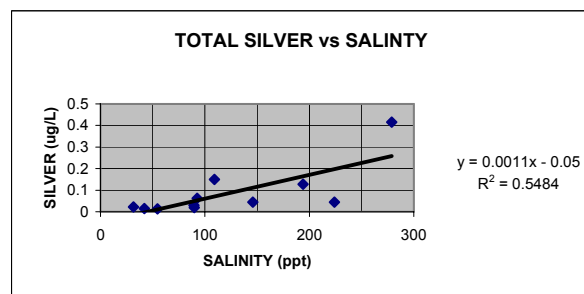
POND	SALINITY	SILVER DISSOLVED
A2W	31.6	0.012
A3W	42	0.01
B2C	54.6	0.016
A15	89.4	0.021
A15(DUP)	89.8	0.027
A14	92.6	0.055
A16	109	0.04
A18	146	0.023
I-3	194	0.015
I-3B	224	0.039
B9	279	0.028



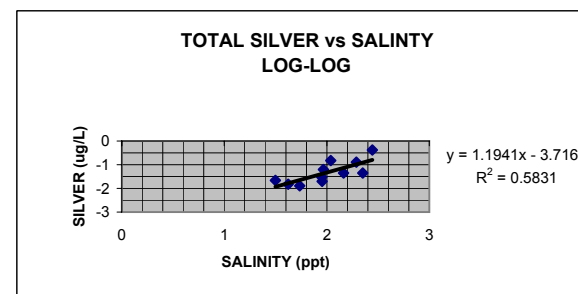
LOG SALINITY	LOG Ag DISSOLVED
1.4996871	-1.920819
1.6232493	-2
1.7371926	-1.79588
1.9513375	-1.677781
1.9532763	-1.568636
1.966611	-1.259637
2.0374265	-1.39794
2.1643529	-1.638272
2.2878017	-1.823909
2.350248	-1.408935
2.4456042	-1.552842



POND	SALINITY	SILVER TOTAL
A2W	31.6	0.022
A3W	42	0.015
B2C	54.6	0.013
A15	89.4	0.03
A15(DUP)	89.8	0.02
A14	92.6	0.063
A16	109	0.15
A18	146	0.045
I-3	194	0.128
I-3B	224	0.044
B9	279	0.416

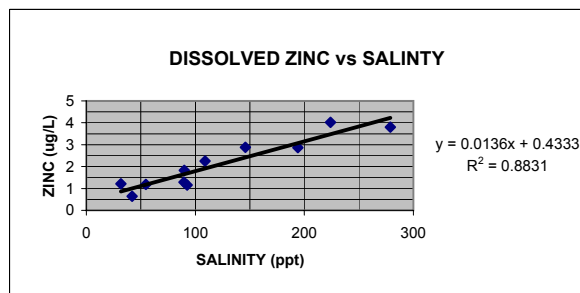


LOG SALINITY	LOG Ag TOTAL
1.4996871	-1.657577
1.6232493	-1.823909
1.7371926	-1.886057
1.9513375	-1.522879
1.9532763	-1.69897
1.966611	-1.200659
2.0374265	-0.823909
2.1643529	-1.346787
2.2878017	-0.89279
2.350248	-1.356547
2.4456042	-0.380907

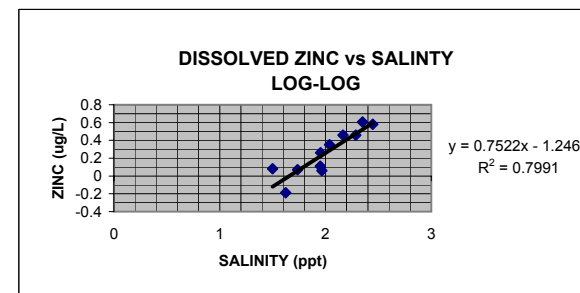


SALINITY/METALS CORRELATION  
 SAMPLES COLLECTED FROM SOUTH BAY SALT PONDS  
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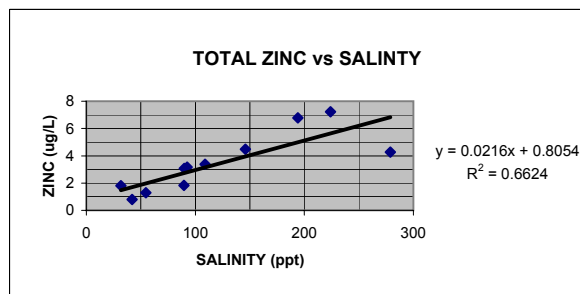
POND	SALINITY	ZINC DISSOLVED
A2W	31.6	1.21
A3W	42	0.65
B2C	54.6	1.18
A15	89.4	1.29
A15(DUP)	89.8	1.83
A14	92.6	1.15
A16	109	2.25
A18	146	2.88
I-3	194	2.87
I-3B	224	4.02
B9	279	3.80



LOG SALINITY	LOG Zn DISSOLVED
1.4996871	0.0827854
1.6232493	-0.187087
1.7371926	0.071882
1.9513375	0.1105897
1.9532763	0.2624511
1.966611	0.0606978
2.0374265	0.3521825
2.1643529	0.4593925
2.2878017	0.4578819
2.350248	0.6042261
2.4456042	0.5797836



POND	SALINITY	ZINC TOTAL
A2W	31.6	1.8
A3W	42	0.79
B2C	54.6	1.28
A15	89.4	1.82
A15(DUP)	89.8	3.07
A14	92.6	3.16
A16	109	3.38
A18	146	4.49
I-3	194	6.77
I-3B	224	7.22
B9	279	4.28



LOG SALINITY	LOG Zn TOTAL
1.4996871	0.2552725
1.6232493	-0.102373
1.7371926	0.10721
1.9513375	0.2600714
1.9532763	0.4871384
1.966611	0.4996871
2.0374265	0.5289167
2.1643529	0.6522463
2.2878017	0.8305887
2.350248	0.8585372
2.4456042	0.6314438

