



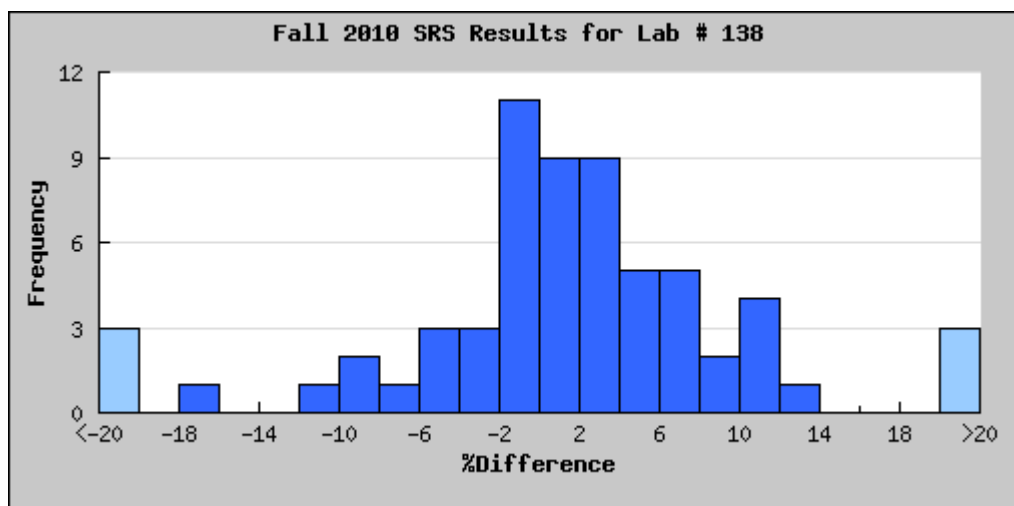
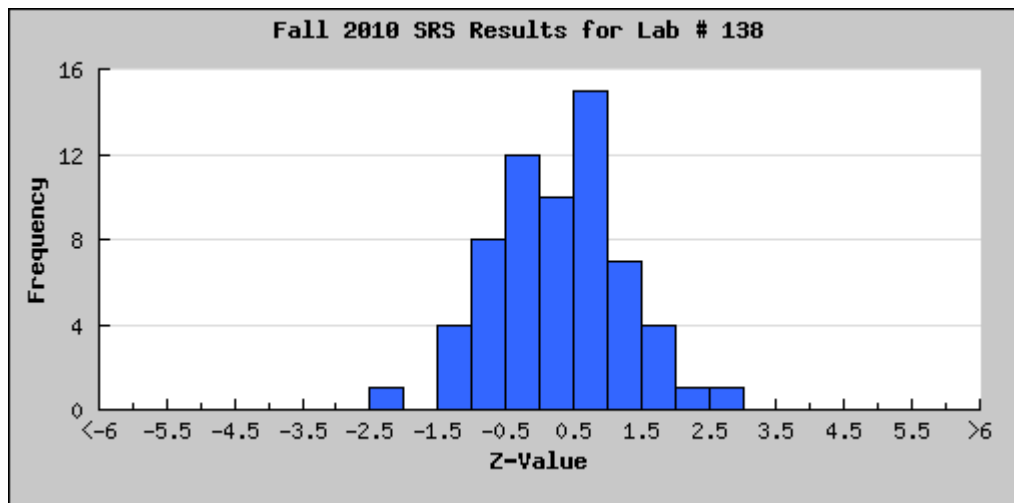
Office of Water Quality

Branch of Quality Systems

Standard Reference Sample Project

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Fall 2010 SRS Results for Lab # 138



Number of data points per sample	NUTRIENT (LOW)	NUTRIENT (HIGH)	MAJOR	TRACE	MERCURY	PRECIPITATION
	6	6	16	27	1	10

SRS	Analyte	Method	RV	MPV	Fps	Z-value	% difference
N-107	Ammonia + Organic Nitrogen as N	22 Colorimetric	0.217 mg/L	0.238	0.027	-0.78	-8.82
N-107	Ammonia as N	22 Colorimetric	0.208 mg/L	0.193	0.014	1.07	7.77
N-107	Nitrate as N	07 Ion chromatography	0.135 mg/L	0.135	0.009	0.00	0.00

N-107	Nitrite + Nitrate as N	22 Colorimetric	0.136 mg/L	0.134	0.007	0.29	1.49
N-107	Orthophosphate as P	22 Colorimetric	0.157 mg/L	0.111	0.037	1.24	41.44
N-107	Total Phosphorus as P	22 Colorimetric	0.165 mg/L	0.167	0.006	-0.33	-1.20
N-108	Ammonia + Organic Nitrogen as N	22 Colorimetric	0.511 mg/L	0.530	0.079	-0.24	-3.58
N-108	Ammonia as N	22 Colorimetric	0.432 mg/L	0.460	0.032	-0.88	-6.09
N-108	Nitrate as N	07 Ion chromatography	0.743 mg/L	0.732	0.033	0.33	1.50
N-108	Nitrite + Nitrate as N	22 Colorimetric	0.964 mg/L	0.935	0.037	0.78	3.10
N-108	Orthophosphate as P	22 Colorimetric	0.517 mg/L	0.522	0.016	-0.31	-0.96
N-108	Total Phosphorus as P	22 Colorimetric	0.512 mg/L	0.535	0.021	-1.10	-4.30
M-196	Alkalinity as CaCO3	21 Titration: electrometric	79.4 mg/L	78.9	2.26	0.22	0.63
M-196	Boron	04 Inductively coupled plasma	16.8 µg/L	13.0	3.74	1.02	29.23
M-196	Calcium	04 Inductively coupled plasma	27.0 mg/L	27.1	0.841	-0.12	-0.37
M-196	Chloride	07 Ion chromatography	33.0 mg/L	32.7	0.919	0.33	0.92
M-196	Fluoride	40 Ion selective electrode	0.897 mg/L	0.840	0.060	0.95	6.79
M-196	Magnesium	04 Inductively coupled plasma	9.62 mg/L	9.17	0.267	1.69	4.91
M-196	pH	41 Electrometric	7.88	8.03	0.208	-0.72	-1.87
M-196	Potassium	04 Inductively coupled plasma	1.84 mg/L	1.78	0.130	0.46	3.37
M-196	Residue on Evaporation	50 Gravimetric	198 mg/L	190	11.1	0.72	4.21
M-196	Silica	04 Inductively coupled plasma	6.75 mg/L	6.10	0.247	2.63	10.66
M-196	Sodium	04 Inductively coupled plasma	25.5 mg/L	25.0	0.897	0.56	2.00
M-196	Specific Conductance	41 Electrometric	358 µS/cm	339	9.64	1.97	5.60
M-196	Strontium	04 Inductively coupled plasma	217 µg/L	224	7.04	-0.99	-3.13
M-196	Sulfate	07 Ion chromatography	32.9 mg/L	33.2	0.968	-0.31	-0.90
M-196	Total Phosphorus as P	22 Colorimetric	0.0956 mg/L	0.101	0.012	-0.45	-5.35
M-196	Vanadium	04 Inductively coupled plasma	<2.00 µg/L	0.470	0.639	--	--
T-203	Aluminum	04 Inductively coupled plasma	87.0 µg/L	109	8.90	-2.47	-20.18
T-203	Antimony	06 Inductively coupled plasma/mass spectrometry	0.491 µg/L	0.458	0.034	0.97	7.21
T-203	Arsenic	06 Inductively coupled plasma/mass spectrometry	1.63 µg/L	1.61	0.111	0.18	1.24

T-203	Barium	06 Inductively coupled plasma/mass spectrometry	10.5 µg/L	10.1	0.301	1.33	3.96
T-203	Beryllium	06 Inductively coupled plasma/mass spectrometry	0.532 µg/L	0.520	0.037	0.32	2.31
T-203	Boron	04 Inductively coupled plasma	5.90 µg/L	4.58	1.60	0.83	28.82
T-203	Cadmium	06 Inductively coupled plasma/mass spectrometry	0.847 µg/L	0.864	0.050	-0.34	-1.97
T-203	Calcium	04 Inductively coupled plasma	11.3 mg/L	11.1	0.371	0.54	1.80
T-203	Chromium	06 Inductively coupled plasma/mass spectrometry	0.691 µg/L	0.880	0.152	-1.24	-21.48
T-203	Cobalt	06 Inductively coupled plasma/mass spectrometry	0.550 µg/L	0.559	0.015	-0.60	-1.61
T-203	Copper	06 Inductively coupled plasma/mass spectrometry	1.56 µg/L	1.61	0.193	-0.26	-3.11
T-203	Iron	04 Inductively coupled plasma	58.7 µg/L	52.1	4.90	1.35	12.67
T-203	Lead	06 Inductively coupled plasma/mass spectrometry	11.1 µg/L	11.0	0.471	0.21	0.91
T-203	Magnesium	04 Inductively coupled plasma	1.36 mg/L	1.25	0.059	1.86	8.80
T-203	Manganese	06 Inductively coupled plasma/mass spectrometry	125 µg/L	127	6.37	-0.31	-1.57
T-203	Molybdenum	06 Inductively coupled plasma/mass spectrometry	4.11 µg/L	4.11	0.148	0.00	0.00
T-203	Nickel	06 Inductively coupled plasma/mass spectrometry	0.279 µg/L	0.402	0.212	-0.58	-30.60
T-203	Potassium	04 Inductively coupled plasma	1.29 mg/L	1.22	0.089	0.79	5.74
T-203	Selenium	06 Inductively coupled plasma/mass spectrometry	0.36 µg/L	0.397	0.050	-0.74	-9.32
T-203	Silica	04 Inductively coupled plasma	5.25 mg/L	4.71	0.241	2.24	11.46
T-203	Silver	06 Inductively coupled plasma/mass spectrometry	2.85 µg/L	2.76	0.304	0.30	3.26
T-203	Sodium	04 Inductively coupled plasma	11.1 mg/L	10.8	0.445	0.67	2.78
T-203	Strontium	04 Inductively coupled plasma	44.8 µg/L	45.5	1.48	-0.47	-1.54
T-203	Thallium	06 Inductively coupled plasma/mass spectrometry	2.05 µg/L	1.95	0.099	1.01	5.13
T-203	Uranium	06 Inductively coupled plasma/mass spectrometry	0.767 µg/L	0.750	0.020	0.85	2.27
T-203	Vanadium	04 Inductively coupled plasma	<2.00 µg/L	1.10	0.089	--	--
T-203	Zinc	06 Inductively coupled plasma/mass spectrometry	38.3 µg/L	36.0	2.52	0.91	6.39

Hg-51	Mercury	09 Atomic fluorescence	0.0328 µg/L	0.037	0.004	-1.05	-11.35
P-55	Calcium	04 Inductively coupled plasma	0.996 mg/L	0.975	0.044	0.48	2.15
P-55	Chloride	07 Ion chromatography	2.07 mg/L	2.03	0.059	0.68	1.97
P-55	Fluoride	40 Ion selective electrode	0.0569 mg/L	0.051	0.006	0.98	11.57
P-55	Magnesium	04 Inductively coupled plasma	0.0968 mg/L	0.090	0.010	0.68	7.56
P-55	Orthophosphate as P	22 Colorimetric	0.0116 mg/L	0.014	0.003	-0.80	-17.14
P-55	pH	41 Electrometric	5.70	6.03	0.248	-1.33	-5.47
P-55	Potassium	04 Inductively coupled plasma	<0.300 mg/L	0.110	0.006	--	--
P-55	Sodium	04 Inductively coupled plasma	0.793 mg/L	0.720	0.046	1.59	10.14
P-55	Specific Conductance	41 Electrometric	14.1 µS/cm	13.6	0.693	0.72	3.68
P-55	Sulfate	07 Ion chromatography	0.710 mg/L	0.647	0.045	1.40	9.74