



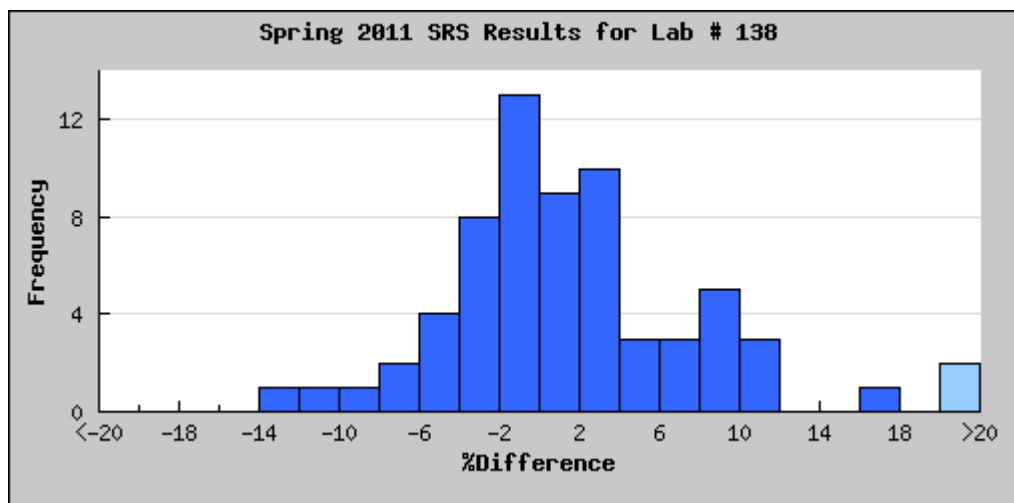
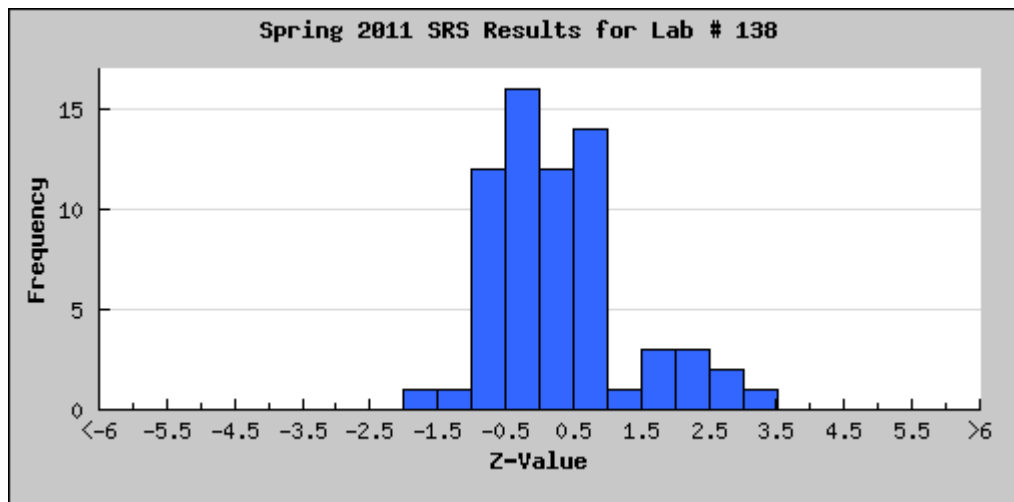
Office of Water Quality

Branch of Quality Systems

Standard Reference Sample Project

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Spring 2011 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-109	Ammonia + Organic Nitrogen as N	22 Colorimetric	0.288 mg/L	0.247	0.048	0.85	16.60
N-109	Ammonia as N	22 Colorimetric	0.189 mg/L	0.195	0.009	-0.67	-3.08
N-109	Nitrate as N	07 Ion chromatography	0.190 mg/L	0.189	0.006	0.17	0.53

N-109	Nitrite + Nitrate as N	22 Colorimetric	0.211 mg/L	0.191	0.007	2.86	10.47
N-109	Orthophosphate as P	22 Colorimetric	0.194 mg/L	0.193	0.005	0.20	0.52
N-109	Total Phosphorus as P	22 Colorimetric	0.273 mg/L	0.270	0.012	0.25	1.11
N-110	Ammonia + Organic Nitrogen as N	22 Colorimetric	0.799 mg/L	0.805	0.112	-0.05	-0.75
N-110	Ammonia as N	22 Colorimetric	0.712 mg/L	0.689	0.040	0.58	3.34
N-110	Nitrate as N	07 Ion chromatography	1.23 mg/L	1.23	0.052	0.00	0.00
N-110	Nitrite + Nitrate as N	22 Colorimetric	1.46 mg/L	1.44	0.044	0.45	1.39
N-110	Orthophosphate as P	22 Colorimetric	0.574 mg/L	0.560	0.021	0.67	2.50
N-110	Total Phosphorus as P	22 Colorimetric	0.572 mg/L	0.581	0.019	-0.47	-1.55
M-198	Alkalinity as CaCO ₃	21 Titration: electrometric	35.7 mg/L	35.3	1.70	0.24	1.13
M-198	Boron	04 Inductively coupled plasma	56.5 µg/L	52.2	2.01	2.14	8.24
M-198	Calcium	04 Inductively coupled plasma	10.8 mg/L	10.4	0.460	0.87	3.85
M-198	Chloride	07 Ion chromatography	14.8 mg/L	14.6	0.541	0.37	1.37
M-198	Fluoride	40 Ion selective electrode	0.214 mg/L	0.200	0.014	1.00	7.00
M-198	Magnesium	04 Inductively coupled plasma	4.62 mg/L	4.80	0.185	-0.97	-3.75
M-198	pH	41 Electrometric	8.16	8.52	0.474	-0.76	-4.23
M-198	Potassium	04 Inductively coupled plasma	1.49 mg/L	1.49	0.078	0.00	0.00
M-198	Residue on Evaporation	50 Gravimetric	94.0 mg/L	85.0	7.04	1.28	10.59
M-198	Silica	04 Inductively coupled plasma	8.36 mg/L	7.56	0.367	2.18	10.58
M-198	Sodium	04 Inductively coupled plasma	9.58 mg/L	9.38	0.541	0.37	2.13
M-198	Specific Conductance	41 Electrometric	146 µS/cm	147	3.15	-0.32	-0.68
M-198	Strontium	04 Inductively coupled plasma	53.2 µg/L	52.4	1.93	0.41	1.53
M-198	Sulfate	07 Ion chromatography	10.8 mg/L	10.0	0.445	1.80	8.00
M-198	Total Phosphorus as P	22 Colorimetric	0.182 mg/L	0.188	0.009	-0.67	-3.19
M-198	Vanadium	04 Inductively coupled plasma	6.79 µg/L	6.60	0.626	0.30	2.88
T-205	Aluminum	06 Inductively coupled plasma/mass spectrometry	30.6 µg/L	31.5	1.36	-0.66	-2.86
T-205	Antimony	06 Inductively coupled plasma/mass spectrometry	1.75 µg/L	1.76	0.096	-0.10	-0.57
T-205	Arsenic	06 Inductively coupled plasma/mass spectrometry	1.78 µg/L	1.78	0.089	0.00	0.00

T-205	Barium	06 Inductively coupled plasma/mass spectrometry	21.7 µg/L	21.7	0.741	0.00	0.00
T-205	Beryllium	06 Inductively coupled plasma/mass spectrometry	0.202 µg/L	0.187	0.019	0.79	8.02
T-205	Boron	04 Inductively coupled plasma	9.67 µg/L	7.52	1.36	1.58	28.59
T-205	Cadmium	06 Inductively coupled plasma/mass spectrometry	1.29 µg/L	1.18	0.041	2.68	9.32
T-205	Calcium	04 Inductively coupled plasma	8.57 mg/L	8.28	0.342	0.85	3.50
T-205	Chromium	06 Inductively coupled plasma/mass spectrometry	1.00 µg/L	1.08	0.114	-0.70	-7.41
T-205	Cobalt	06 Inductively coupled plasma/mass spectrometry	0.901 µg/L	0.924	0.042	-0.55	-2.49
T-205	Copper	06 Inductively coupled plasma/mass spectrometry	1.35 µg/L	1.38	0.137	-0.22	-2.17
T-205	Iron	04 Inductively coupled plasma	70.0 µg/L	66.9	5.26	0.59	4.63
T-205	Lead	06 Inductively coupled plasma/mass spectrometry	1.33 µg/L	1.40	0.082	-0.85	-5.00
T-205	Magnesium	04 Inductively coupled plasma	2.29 mg/L	2.32	0.087	-0.34	-1.29
T-205	Manganese	06 Inductively coupled plasma/mass spectrometry	8.89 µg/L	9.30	0.497	-0.82	-4.41
T-205	Molybdenum	06 Inductively coupled plasma/mass spectrometry	0.995 µg/L	1.00	0.051	-0.10	-0.50
T-205	Nickel	06 Inductively coupled plasma/mass spectrometry	1.05 µg/L	1.16	0.152	-0.72	-9.48
T-205	Potassium	04 Inductively coupled plasma	0.791 mg/L	0.795	0.034	-0.12	-0.50
T-205	Selenium	06 Inductively coupled plasma/mass spectrometry	0.334 µg/L	0.383	0.170	-0.29	-12.79
T-205	Silica	04 Inductively coupled plasma	9.62 mg/L	8.78	0.371	2.26	9.57
T-205	Silver	06 Inductively coupled plasma/mass spectrometry	2.15 µg/L	2.21	0.126	-0.48	-2.71
T-205	Sodium	04 Inductively coupled plasma	8.59 mg/L	8.45	0.341	0.41	1.66
T-205	Strontium	04 Inductively coupled plasma	59.6 µg/L	58.9	1.59	0.44	1.19
T-205	Thallium	06 Inductively coupled plasma/mass spectrometry	1.37 µg/L	1.37	0.096	0.00	0.00
T-205	Uranium	06 Inductively coupled plasma/mass spectrometry	0.679 µg/L	0.710	0.029	-1.07	-4.37
T-205	Vanadium	04 Inductively coupled plasma	1.45 µg/L	1.32	0.078	1.67	9.85
T-205	Zinc	06 Inductively coupled plasma/mass spectrometry	9.83 µg/L	9.40	0.549	0.78	4.57

Hg-52	Mercury	09 Atomic fluorescence	0.0144 µg/L	0.016	0.002	-0.80	-10.00
P-56	Calcium	04 Inductively coupled plasma	1.07 mg/L	1.03	0.070	0.57	3.88
P-56	Chloride	07 Ion chromatography	4.21 mg/L	4.07	0.141	0.99	3.44
P-56	Fluoride	40 Ion selective electrode	0.0624 mg/L	0.060	0.005	0.48	4.00
P-56	Magnesium	04 Inductively coupled plasma	0.118 mg/L	0.127	0.013	-0.69	-7.09
P-56	Orthophosphate as P	22 Colorimetric	0.0412 mg/L	0.039	0.004	0.55	5.64
P-56	pH	41 Electrometric	4.18	4.34	0.089	-1.80	-3.69
P-56	Potassium	04 Inductively coupled plasma	0.375 mg/L	0.361	0.020	0.70	3.88
P-56	Sodium	04 Inductively coupled plasma	0.823 mg/L	0.768	0.065	0.85	7.16
P-56	Specific Conductance	41 Electrometric	38.3 µS/cm	38.7	3.93	-0.10	-1.03
P-56	Sulfate	07 Ion chromatography	1.06 mg/L	0.864	0.059	3.32	22.69