



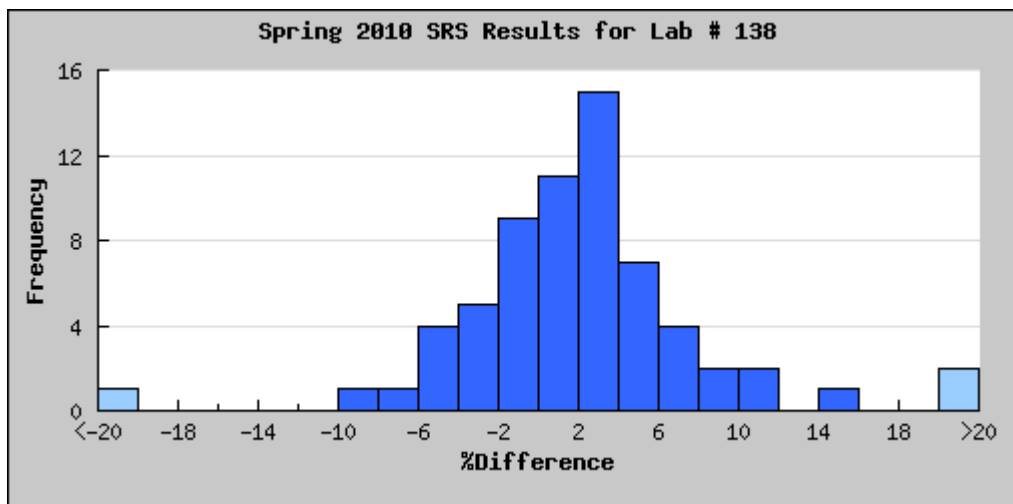
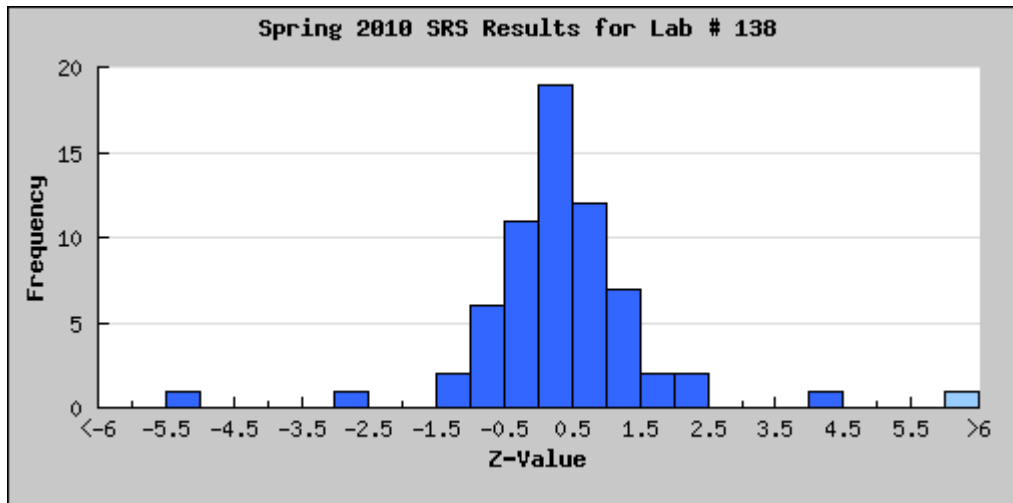
Office of Water Quality

Branch of Quality Systems

Standard Reference Sample Project

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Spring 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-105	Ammonia + Organic Nitrogen as N	22 Colorimetric	0.329 mg/L	0.304	0.077	0.32	8.22
N-105	Ammonia as N	22 Colorimetric	0.255 mg/L	0.270	0.013	-1.15	-5.56
N-105	Nitrate as N	07 Ion chromatography	0.179 mg/L	0.179	0.007	0.00	0.00

N-105	Nitrite + Nitrate as N	22 Colorimetric	0.181 mg/L	0.180	0.008	0.13	0.56
N-105	Orthophosphate as P	22 Colorimetric	0.227 mg/L	0.224	0.008	0.38	1.34
N-105	Total Phosphorus as P	22 Colorimetric	0.258 mg/L	0.260	0.013	-0.15	-0.77
N-106	Ammonia + Organic Nitrogen as N	22 Colorimetric	1.23 mg/L	1.14	0.096	0.94	7.89
N-106	Ammonia as N	22 Colorimetric	1.04 mg/L	1.10	0.056	-1.07	-5.45
N-106	Nitrate as N	07 Ion chromatography	1.13 mg/L	1.10	0.037	0.81	2.73
N-106	Nitrite + Nitrate as N	22 Colorimetric	1.15 mg/L	1.11	0.037	1.08	3.60
N-106	Orthophosphate as P	22 Colorimetric	1.14 mg/L	1.18	0.044	-0.91	-3.39
N-106	Total Phosphorus as P	22 Colorimetric	1.27 mg/L	1.30	0.043	-0.70	-2.31
M-194	Alkalinity as CaCO ₃	21 Titration: electrometric	60.6 mg/L	61.0	2.19	-0.18	-0.66
M-194	Boron	04 Inductively coupled plasma	40.2 µg/L	38.3	4.19	0.45	4.96
M-194	Calcium	04 Inductively coupled plasma	24.7 mg/L	24.4	0.875	0.34	1.23
M-194	Chloride	07 Ion chromatography	44.7 mg/L	45.2	1.19	-0.42	-1.11
M-194	Fluoride	40 Ion selective electrode	0.365 mg/L	0.350	0.030	0.50	4.29
M-194	Magnesium	04 Inductively coupled plasma	6.49 mg/L	6.21	0.245	1.14	4.51
M-194	pH	41 Electrometric	7.83	7.90	0.126	-0.56	-0.89
M-194	Potassium	04 Inductively coupled plasma	3.37 mg/L	3.29	0.163	0.49	2.43
M-194	Residue on Evaporation	50 Gravimetric	178 mg/L	182	10.4	-0.38	-2.20
M-194	Silica	04 Inductively coupled plasma	14.3 mg/L	13.4	0.519	1.73	6.72
M-194	Sodium	04 Inductively coupled plasma	26.7 mg/L	25.0	0.778	2.19	6.80
M-194	Specific Conductance	41 Electrometric	322 µS/cm	317	5.56	0.90	1.58
M-194	Strontium	04 Inductively coupled plasma	135 µg/L	135	5.19	0.00	0.00
M-194	Sulfate	07 Ion chromatography	15.7 mg/L	15.5	0.704	0.28	1.29
M-194	Total Phosphorus as P	22 Colorimetric	0.256 mg/L	0.260	0.014	-0.29	-1.54
M-194	Vanadium	04 Inductively coupled plasma	2.57 µg/L	2.80	0.549	-0.42	-8.21
T-201	Aluminum	06 Inductively coupled plasma/mass spectrometry	80.7 µg/L	77.8	9.08	0.32	3.73

T-201	Antimony	06 Inductively coupled plasma/mass spectrometry	16.2 µg/L	15.8	0.645	0.62	2.53
T-201	Arsenic	06 Inductively coupled plasma/mass spectrometry	24.9 µg/L	24.4	1.56	0.32	2.05
T-201	Barium	06 Inductively coupled plasma/mass spectrometry	47.4 µg/L	44.7	2.37	1.14	6.04
T-201	Beryllium	06 Inductively coupled plasma/mass spectrometry	8.61 µg/L	8.35	0.697	0.37	3.11
T-201	Boron	04 Inductively coupled plasma	51.9 µg/L	46.9	4.97	1.01	10.66
T-201	Cadmium	06 Inductively coupled plasma/mass spectrometry	16.1 µg/L	15.7	0.704	0.57	2.55
T-201	Calcium	04 Inductively coupled plasma	53.8 mg/L	53.1	1.93	0.36	1.32
T-201	Chromium	06 Inductively coupled plasma/mass spectrometry	34.8 µg/L	33.7	1.63	0.67	3.26
T-201	Cobalt	06 Inductively coupled plasma/mass spectrometry	17.6 µg/L	17.4	0.964	0.21	1.15
T-201	Copper	06 Inductively coupled plasma/mass spectrometry	21.0 µg/L	20.8	1.26	0.16	0.96
T-201	Iron	04 Inductively coupled plasma	1850 µg/L	1810	66.7	0.60	2.21
T-201	Lead	06 Inductively coupled plasma/mass spectrometry	77.5 µg/L	73.9	5.41	0.67	4.87
T-201	Magnesium	04 Inductively coupled plasma	24.3 mg/L	23.8	0.964	0.52	2.10
T-201	Manganese	06 Inductively coupled plasma/mass spectrometry	1860 µg/L	1797	77.8	0.81	3.51
T-201	Molybdenum	06 Inductively coupled plasma/mass spectrometry	30.2 µg/L	30.5	2.19	-0.14	-0.98
T-201	Nickel	06 Inductively coupled plasma/mass spectrometry	63.9 µg/L	64.0	2.82	-0.04	-0.16
T-201	Potassium	04 Inductively coupled plasma	5.41 mg/L	5.24	0.334	0.51	3.24
T-201	Selenium	06 Inductively coupled plasma/mass spectrometry	8.73 µg/L	9.02	1.38	-0.21	-3.22
T-201	Silica	04 Inductively coupled plasma	14.2 mg/L	12.9	0.556	2.34	10.08

T-201	Silver	06 Inductively coupled plasma/mass spectrometry	8.36 µg/L	17.3	1.78	-5.02	-51.68
T-201	Sodium	04 Inductively coupled plasma	49.9 mg/L	47.6	1.87	1.23	4.83
T-201	Strontium	04 Inductively coupled plasma	387 µg/L	396	15.6	-0.58	-2.27
T-201	Thallium	06 Inductively coupled plasma/mass spectrometry	6.91 µg/L	6.32	0.497	1.19	9.34
T-201	Uranium	06 Inductively coupled plasma/mass spectrometry	9.70 µg/L	9.22	0.282	1.70	5.21
T-201	Vanadium	04 Inductively coupled plasma	27.2 µg/L	28.4	1.74	-0.69	-4.23
T-201	Zinc	06 Inductively coupled plasma/mass spectrometry	1170 µg/L	1110	70.4	0.85	5.41
Hg-50	Mercury	09 Atomic fluorescence	30.3 µg/L	0.029	0.003	10090.33	104382.76
P-54	Calcium	04 Inductively coupled plasma	0.256 mg/L	0.250	0.015	0.40	2.40
P-54	Chloride	07 Ion chromatography	1.45 mg/L	1.43	0.059	0.34	1.40
P-54	Fluoride	40 Ion selective electrode	0.0738 mg/L	0.071	0.019	0.15	3.94
P-54	Magnesium	04 Inductively coupled plasma	0.180 mg/L	0.177	0.008	0.38	1.69
P-54	Orthophosphate as P	22 Colorimetric	0.0805 mg/L	0.085	0.006	-0.75	-5.29
P-54	pH	41 Electrometric	4.74	5.13	0.133	-2.93	-7.60
P-54	Potassium	04 Inductively coupled plasma	0.590 mg/L	0.470	0.029	4.14	25.53
P-54	Sodium	04 Inductively coupled plasma	<0.500 mg/L	0.313	0.021	--	--
P-54	Specific Conductance	41 Electrometric	11.0 µS/cm	10.8	0.667	0.30	1.85
P-54	Sulfate	07 Ion chromatography	0.304 mg/L	0.265	0.030	1.30	14.72