

Office of Water Quality
Branch of Quality Systems

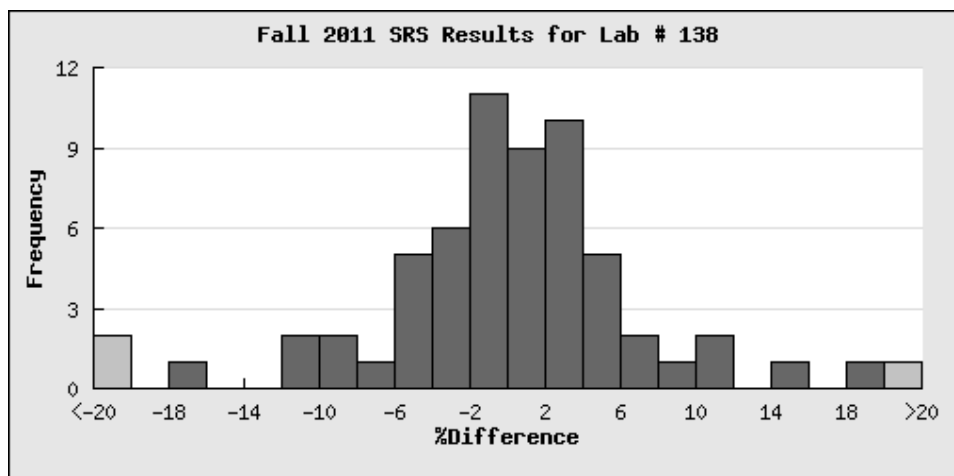
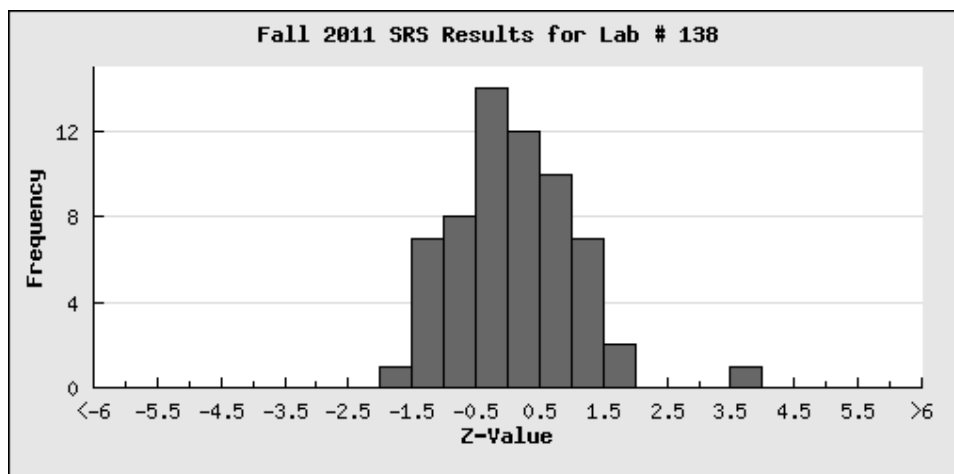
Standard Reference Sample Project

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Fall 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-111	Ammonia + Organic Nitrogen as N	22 Colorimetric	0.266 mg/L	0.300	0.055	-0.62	-11.33
N-111	Ammonia as N	22 Colorimetric	0.250 mg/L	0.280	0.019	-1.58	-10.71
N-111	Nitrate as N	07 Ion chromatography	0.304 mg/L	0.312	0.016	-0.50	-2.56

N-111	Nitrite + Nitrate as N	22 Colorimetric	0.328 mg/L	0.310	0.013	1.38	5.81
N-111	Orthophosphate as P	22 Colorimetric	0.267 mg/L	0.280	0.010	-1.30	-4.64
N-111	Total Phosphorus as P	22 Colorimetric	0.272 mg/L	0.282	0.013	-0.77	-3.55
N-112	Ammonia + Organic Nitrogen as N	22 Colorimetric	0.896 mg/L	0.850	0.082	0.56	5.41
N-112	Ammonia as N	22 Colorimetric	0.819 mg/L	0.840	0.027	-0.78	-2.50
N-112	Nitrate as N	07 Ion chromatography	1.41 mg/L	1.40	0.037	0.27	0.71
N-112	Nitrite + Nitrate as N	22 Colorimetric	1.57 mg/L	1.41	0.041	3.90	11.35
N-112	Orthophosphate as P	22 Colorimetric	1.21 mg/L	1.25	0.037	-1.08	-3.20
N-112	Total Phosphorus as P	22 Colorimetric	1.22 mg/L	1.26	0.054	-0.74	-3.17
M-200	Alkalinity as CaCO3	21 Titration: electrometric	29.3 mg/L	28.3	1.56	0.64	3.53
M-200	Boron	04 Inductively coupled plasma	15.1 µg/L	13.8	3.26	0.40	9.42
M-200	Calcium	04 Inductively coupled plasma	10.6 mg/L	10.4	0.580	0.34	1.92
M-200	Chloride	07 Ion chromatography	17.8 mg/L	17.9	0.519	-0.19	-0.56
M-200	Fluoride	40 Ion selective electrode	0.259 mg/L	0.250	0.021	0.43	3.60
M-200	Magnesium	04 Inductively coupled plasma	1.92 mg/L	1.90	0.067	0.30	1.05
M-200	pH	41 Electrometric	7.70	7.50	0.185	1.08	2.67
M-200	Potassium	04 Inductively coupled plasma	1.74 mg/L	1.73	0.089	0.11	0.58
M-200	Residue on Evaporation	50 Gravimetric	86.0 mg/L	91.0	13.1	-0.38	-5.49
M-200	Silica	04 Inductively coupled plasma	8.84 mg/L	8.57	0.474	0.57	3.15
M-200	Sodium	04 Inductively coupled plasma	15.4 mg/L	14.9	0.563	0.89	3.36
M-200	Specific Conductance	41 Electrometric	152 µS/cm	153	2.74	-0.36	-0.65
M-200	Strontium	04 Inductively coupled plasma	65.4 µg/L	63.0	2.02	1.19	3.81
M-200	Sulfate	07 Ion chromatography	11.8 mg/L	11.6	0.519	0.39	1.72
M-200	Total Phosphorus as P	22 Colorimetric	0.00780 mg/L	0.012	0.008	-0.53	-35.00
M-200	Vanadium	04 Inductively coupled plasma	<2.00 µg/L	0.373	0.430	--	--
		06 Inductively coupled					

T-207	Aluminum	06 Inductively coupled plasma/mass spectrometry	296 µg/L	324	21.1	-1.33	-8.64
T-207	Antimony	06 Inductively coupled plasma/mass spectrometry	0.134 µg/L	0.117	0.018	0.94	14.53
T-207	Arsenic	06 Inductively coupled plasma/mass spectrometry	0.863 µg/L	0.870	0.101	-0.07	-0.80
T-207	Barium	06 Inductively coupled plasma/mass spectrometry	42.5 µg/L	42.9	1.82	-0.22	-0.93
T-207	Beryllium	06 Inductively coupled plasma/mass spectrometry	0.103 µg/L	0.092	0.007	1.57	11.96
T-207	Boron	04 Inductively coupled plasma	18.1 µg/L	13.5	2.58	1.78	34.07
T-207	Cadmium	06 Inductively coupled plasma/mass spectrometry	0.561 µg/L	0.590	0.041	-0.71	-4.92
T-207	Calcium	04 Inductively coupled plasma	23.6 mg/L	23.4	1.17	0.17	0.85
T-207	Chromium	06 Inductively coupled plasma/mass spectrometry	<0.300 µg/L	0.354	0.072	F-	--
T-207	Cobalt	06 Inductively coupled plasma/mass spectrometry	0.911 µg/L	0.976	0.056	-1.16	-6.66
T-207	Copper	06 Inductively coupled plasma/mass spectrometry	8.26 µg/L	8.42	0.615	-0.26	-1.90
T-207	Iron	04 Inductively coupled plasma	455 µg/L	432	29.7	0.77	5.32
T-207	Lead	06 Inductively coupled plasma/mass spectrometry	4.74 µg/L	4.80	0.337	-0.18	-1.25
T-207	Magnesium	04 Inductively coupled plasma	6.29 mg/L	6.19	0.285	0.35	1.62
T-207	Manganese	04 Inductively coupled plasma	241 µg/L	237	14.8	0.27	1.69
T-207	Molybdenum	06 Inductively coupled plasma/mass spectrometry	4.59 µg/L	4.62	0.245	-0.12	-0.65
T-207	Nickel	06 Inductively coupled plasma/mass spectrometry	1.46 µg/L	1.74	0.252	-1.11	-16.09
T-207	Potassium	04 Inductively coupled plasma	2.18 mg/L	2.19	0.126	-0.08	-0.46
T-207	Selenium	06 Inductively coupled plasma/mass spectrometry	0.381 µg/L	0.833	0.422	-1.07	-54.26
T-207	Silica	04 Inductively coupled plasma	8.64 mg/L	8.10	0.494	1.09	6.67

T-207	Silver	06 Inductively coupled plasma/mass spectrometry	0.0496 µg/L	0.052	0.005	-0.48	-4.62
T-207	Sodium	04 Inductively coupled plasma	22.3 mg/L	21.5	0.704	1.14	3.72
T-207	Strontium	04 Inductively coupled plasma	167 µg/L	161	5.56	1.08	3.73
T-207	Thallium	06 Inductively coupled plasma/mass spectrometry	0.503 µg/L	0.477	0.042	0.62	5.45
T-207	Uranium	06 Inductively coupled plasma/mass spectrometry	1.70 µg/L	1.80	0.085	-1.18	-5.56
T-207	Vanadium	04 Inductively coupled plasma	1.12 µg/L	0.938	0.169	1.08	19.40
T-207	Zinc	04 Inductively coupled plasma	212 µg/L	200	12.6	0.95	6.00
Hg-53	Mercury	09 Atomic fluorescence	0.0460 µg/L	0.046	0.006	0.00	0.00
P-57	Calcium	04 Inductively coupled plasma	0.325 mg/L	0.325	0.026	0.00	0.00
P-57	Chloride	07 Ion chromatography	2.23 mg/L	2.24	0.063	-0.16	-0.45
P-57	Fluoride	40 Ion selective electrode	0.0995 mg/L	0.098	0.016	0.09	1.53
P-57	Magnesium	04 Inductively coupled plasma	0.269 mg/L	0.262	0.009	0.78	2.67
P-57	Orthophosphate as P	22 Colorimetric	<0.004 mg/L	0.012	0.008	F-	--
P-57	pH	41 Electrometric	4.90	5.00	0.222	-0.45	-2.00
P-57	Potassium	04 Inductively coupled plasma	<0.300 mg/L	0.165	0.014	--	--
P-57	Sodium	04 Inductively coupled plasma	0.408 mg/L	0.380	0.030	0.93	7.37
P-57	Specific Conductance	41 Electrometric	11.8 µS/cm	13.0	1.80	-0.67	-9.23
P-57	Sulfate	07 Ion chromatography	0.206 mg/L	0.200	0.028	0.21	3.00