



Office of Water Quality
Branch of Quality Systems

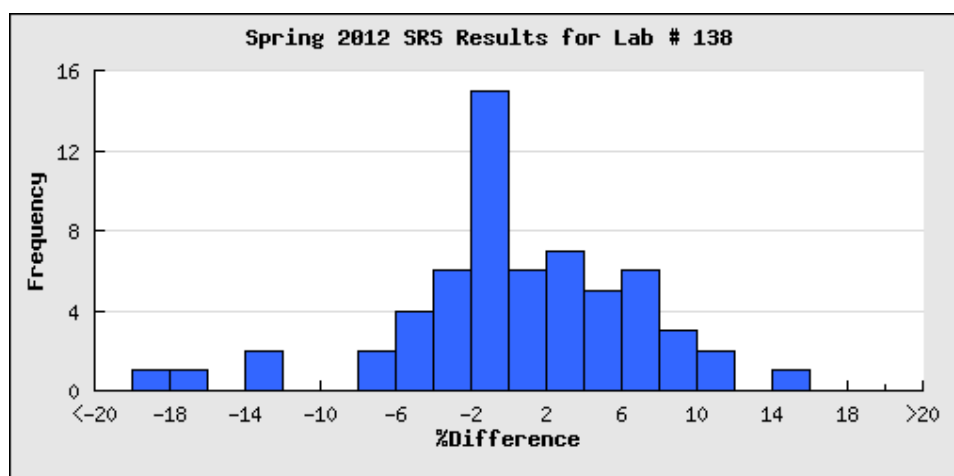
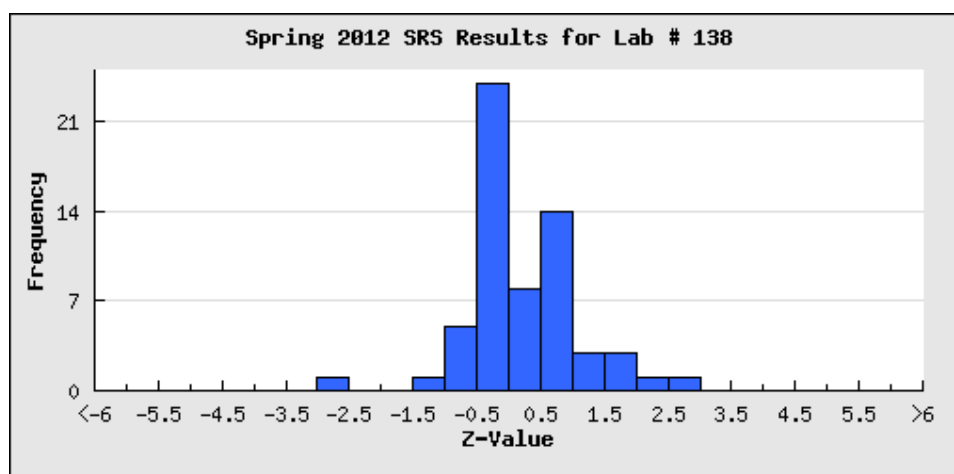
Standard Reference Sample Project

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Spring 2012 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-113	Ammonia + Organic Nitrogen as N	22 Colorimetric	0.211 mg/L	0.258	0.036	-1.31	-18.22
N-113	Ammonia as N	22 Colorimetric	0.221 mg/L	0.207	0.012	1.17	6.76

N-113	Nitrate as N	07 Ion chromatography	0.105 mg/L	0.107	0.006	-0.33	-1.87
N-113	Nitrite + Nitrate as N	22 Colorimetric	0.110 mg/L	0.107	0.005	0.60	2.80
N-113	Orthophosphate as P	22 Colorimetric	0.242 mg/L	0.212	0.021	1.43	14.15
N-113	Total Phosphorus as P	22 Colorimetric	0.246 mg/L	0.253	0.011	-0.64	-2.77
N-114	Ammonia + Organic Nitrogen as N	22 Colorimetric	1.03 mg/L	1.03	0.096	0.00	0.00
N-114	Ammonia as N	22 Colorimetric	0.920 mg/L	0.927	0.054	-0.13	-0.76
N-114	Nitrate as N	07 Ion chromatography	0.939 mg/L	0.950	0.054	-0.20	-1.16
N-114	Nitrite + Nitrate as N	22 Colorimetric	1.14 mg/L	1.13	0.052	0.19	0.88
N-114	Orthophosphate as P	22 Colorimetric	1.05 mg/L	1.05	0.095	0.00	0.00
N-114	Total Phosphorus as P	22 Colorimetric	1.07 mg/L	1.07	0.044	0.00	0.00
M-202	Alkalinity as CaCO ₃	21 Titration: electrometric	16.8 mg/L	17.5	2.00	-0.35	-4.00
M-202	Boron	06 Inductively coupled plasma/mass spectrometry	11.4 µg/L	10.2	3.80	0.32	11.76
M-202	Calcium	04 Inductively coupled plasma	5.74 mg/L	5.56	0.215	0.84	3.24
M-202	Chloride	07 Ion chromatography	10.8 mg/L	11.0	0.492	-0.41	-1.82
M-202	Fluoride	40 Ion selective electrode	0.153 mg/L	0.140	0.018	0.72	9.29
M-202	Magnesium	04 Inductively coupled plasma	1.58 mg/L	1.52	0.082	0.73	3.95
M-202	pH	41 Electrometric	7.42	7.40	0.215	0.09	0.27
M-202	Potassium	04 Inductively coupled plasma	1.31 mg/L	1.31	0.085	0.00	0.00
M-202	Residue on Evaporation	50 Gravimetric	47.5 mg/L	50.0	6.30	-0.40	-5.00
M-202	Silica	04 Inductively coupled plasma	6.69 mg/L	6.20	0.319	1.54	7.90
M-202	Sodium	04 Inductively coupled plasma	7.74 mg/L	7.41	0.371	0.89	4.45
M-202	Specific Conductance	41 Electrometric	84.9 µS/cm	85.2	2.22	-0.14	-0.35
M-202	Strontium	04 Inductively coupled plasma	37.2 µg/L	37.4	1.96	-0.10	-0.53
M-202	Sulfate	07 Ion chromatography	4.13 mg/L	4.37	0.259	-0.93	-5.49
M-202	Total Phosphorus as P	22 Colorimetric	0.0221 mg/L	0.023	0.010	-0.09	-3.91
M-202	Vanadium	04 Inductively coupled plasma	<2.00 µg/L	0.108	0.109	--	--
T-209	Aluminum	06 Inductively coupled plasma/mass spectrometry	20.5 µg/L	19.2	2.04	0.64	6.77

T-209	Antimony	06 Inductively coupled plasma/mass spectrometry	0.331 µg/L	0.341	0.024	-0.42	-2.93
T-209	Arsenic	06 Inductively coupled plasma/mass spectrometry	<0.200 µg/L	0.240	0.110	F-	--
T-209	Barium	06 Inductively coupled plasma/mass spectrometry	31.1 µg/L	31.6	0.927	-0.54	-1.58
T-209	Beryllium	06 Inductively coupled plasma/mass spectrometry	0.104 µg/L	0.110	0.027	-0.22	-5.45
T-209	Boron	06 Inductively coupled plasma/mass spectrometry	35.1 µg/L	35.3	2.85	-0.07	-0.57
T-209	Cadmium	06 Inductively coupled plasma/mass spectrometry	<0.0300 µg/L	0.020	0.006	--	--
T-209	Calcium	04 Inductively coupled plasma	19.1 mg/L	18.0	0.371	2.96	6.11
T-209	Chromium	06 Inductively coupled plasma/mass spectrometry	<0.300 µg/L	0.135	0.042	--	--
T-209	Cobalt	06 Inductively coupled plasma/mass spectrometry	0.0761 µg/L	0.088	0.021	-0.57	-13.52
T-209	Copper	06 Inductively coupled plasma/mass spectrometry	1.55 µg/L	1.59	0.150	-0.27	-2.52
T-209	Iron	04 Inductively coupled plasma	167 µg/L	158	10.0	0.90	5.70
T-209	Lead	06 Inductively coupled plasma/mass spectrometry	0.421 µg/L	0.390	0.032	0.97	7.95
T-209	Magnesium	04 Inductively coupled plasma	5.13 mg/L	4.91	0.236	0.93	4.48
T-209	Manganese	04 Inductively coupled plasma	11.1 µg/L	11.0	0.660	0.15	0.91
T-209	Molybdenum	06 Inductively coupled plasma/mass spectrometry	0.592 µg/L	0.633	0.042	-0.98	-6.48
T-209	Nickel	06 Inductively coupled plasma/mass spectrometry	0.388 µg/L	0.470	0.204	-0.40	-17.45
T-209	Potassium	04 Inductively coupled plasma	2.67 mg/L	2.66	0.107	0.09	0.38
T-209	Selenium	06 Inductively coupled plasma/mass spectrometry	0.679 µg/L	0.775	0.327	-0.29	-12.39
T-209	Silica	04 Inductively coupled plasma	13.7 mg/L	12.5	0.556	2.16	9.60
T-209	Silver	06 Inductively coupled plasma/mass spectrometry	1.59 µg/L	1.60	0.104	-0.10	-0.63
T-209	Sodium	04 Inductively coupled plasma	21.3 mg/L	20.3	0.741	1.35	4.93
T-209	Strontium	04 Inductively coupled plasma	106 µg/L	104	2.22	0.90	1.92
T-209	Thallium	06 Inductively coupled plasma/mass spectrometry	0.122 µg/L	0.110	0.013	0.92	10.91
T-209	Uranium	06 Inductively coupled plasma/mass spectrometry	1.31 µg/L	1.28	0.056	0.54	2.34
		04 Inductively coupled					

T-209	Vanadium	plasma	<2.00 µg/L	0.203	0.076	--	--
T-209	Zinc	06 Inductively coupled plasma/mass spectrometry	9.65 µg/L	9.35	0.890	0.34	3.21
Hg-54	Mercury	09 Atomic fluorescence	0.0235 µg/L	0.024	0.002	-0.25	-2.08
P-58	Calcium	04 Inductively coupled plasma	1.99 mg/L	1.89	0.063	1.59	5.29
P-58	Chloride	07 Ion chromatography	4.76 mg/L	4.87	0.282	-0.39	-2.26
P-58	Fluoride	40 Ion selective electrode	0.238 mg/L	0.221	0.024	0.71	7.69
P-58	Magnesium	04 Inductively coupled plasma	0.0915 mg/L	0.090	0.008	0.19	1.67
P-58	Orthophosphate as P	22 Colorimetric	0.0342 mg/L	0.033	0.004	0.30	3.64
P-58	pH	41 Electrometric	4.96	5.39	0.156	-2.76	-7.98
P-58	Potassium	04 Inductively coupled plasma	0.923 mg/L	0.890	0.040	0.83	3.71
P-58	Sodium	04 Inductively coupled plasma	1.75 mg/L	1.61	0.092	1.52	8.70
P-58	Specific Conductance	41 Electrometric	27.2 µS/cm	27.2	1.48	0.00	0.00
P-58	Sulfate	07 Ion chromatography	1.73 mg/L	1.73	0.104	0.00	0.00