



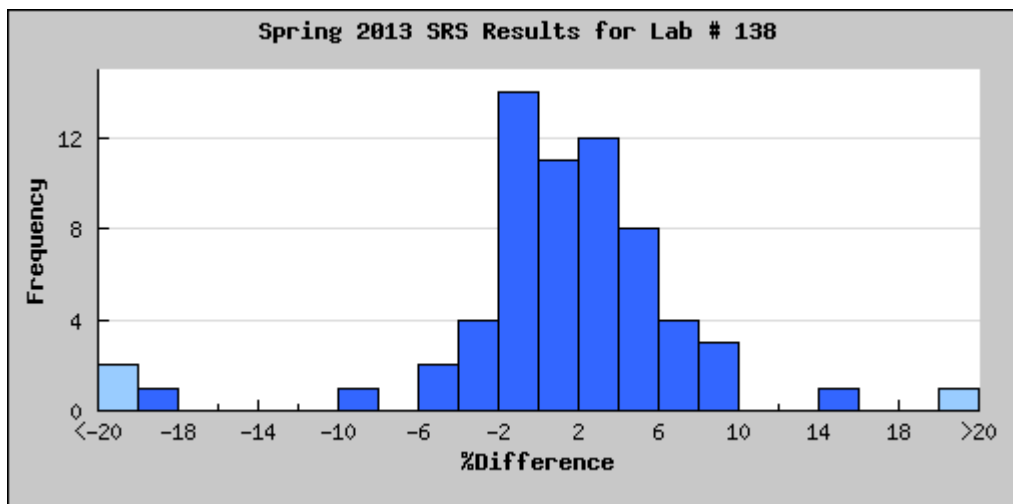
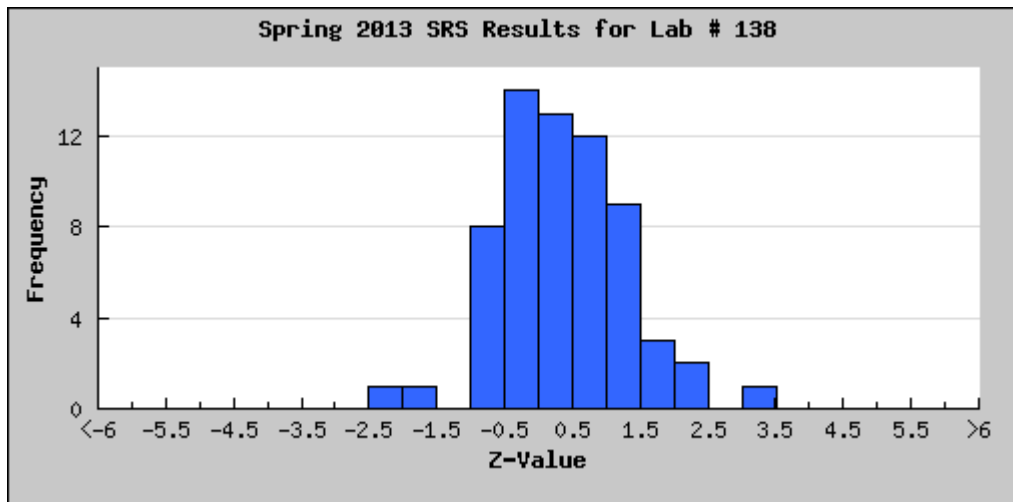
Office of Water Quality

Branch of Quality Systems

Standard Reference Sample Project

[SRS Homepage](#)
[Select a new round](#)
[More for this round](#)

Spring 2013 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-117	Ammonia + Organic Nitrogen as N	22 Colorimetric	0.445 mg/L	0.440	0.034	0.15	1.14
N-117	Ammonia as N	22 Colorimetric	0.391 mg/L	0.391	0.022	0.00	0.00
N-117	Nitrate as N	07 Ion chromatography	0.222 mg/L	0.220	0.011	0.18	0.91

N-117	Orthophosphate as P	22 Colorimetric	0.349 mg/L	0.356	0.013	-0.54	-1.97
N-117	Total Phosphorus as P	22 Colorimetric	0.418 mg/L	0.397	0.022	0.95	5.29
N-117	Nitrite + Nitrate as N	22 Colorimetric	0.216 mg/L	0.220	0.007	-0.57	-1.82
N-118	Nitrite + Nitrate as N	22 Colorimetric	0.602 mg/L	0.590	0.021	0.57	2.03
N-118	Total Phosphorus as P	22 Colorimetric	0.906 mg/L	0.864	0.036	1.17	4.86
N-118	Orthophosphate as P	22 Colorimetric	0.700 mg/L	0.715	0.026	-0.58	-2.10
N-118	Nitrate as N	07 Ion chromatography	0.577 mg/L	0.584	0.023	-0.30	-1.20
N-118	Ammonia as N	22 Colorimetric	0.798 mg/L	0.799	0.029	-0.03	-0.13
N-118	Ammonia + Organic Nitrogen as N	22 Colorimetric	0.984 mg/L	0.930	0.072	0.75	5.81
M-206	Alkalinity as CaCO ₃	21 Titration: electrometric	40.9 mg/L	42.0	1.41	-0.78	-2.62
M-206	Boron	06 Inductively coupled plasma/mass spectrometry	12.2 µg/L	11.7	1.68	0.30	4.27
M-206	Calcium	04 Inductively coupled plasma	20.2 mg/L	19.5	0.593	1.18	3.59
M-206	Chloride	07 Ion chromatography	18.5 mg/L	18.3	0.704	0.28	1.09
M-206	pH	41 Electrometric	7.88	7.54	0.278	1.22	4.51
M-206	Residue on Evaporation	50 Gravimetric	129 mg/L	129	7.41	0.00	0.00
M-206	Fluoride	40 Ion selective electrode	0.459 mg/L	0.430	0.030	0.97	6.74
M-206	Magnesium	04 Inductively coupled plasma	5.87 mg/L	5.50	0.167	2.22	6.73
M-206	Strontium	04 Inductively coupled plasma	144 µg/L	146	7.31	-0.27	-1.37
M-206	Sulfate	07 Ion chromatography	31.9 mg/L	32.5	0.834	-0.72	-1.85
M-206	Potassium	04 Inductively coupled plasma	2.12 mg/L	2.22	0.119	-0.84	-4.50
M-206	Silica	04 Inductively coupled plasma	7.28 mg/L	6.94	0.267	1.27	4.90
M-206	Sodium	04 Inductively coupled plasma	14.3 mg/L	13.3	0.567	1.76	7.52
M-206	Specific Conductance	41 Electrometric	225 µS/cm	224	4.60	0.22	0.45
M-206	Vanadium	04 Inductively coupled plasma	4.30 µg/L	4.46	0.397	-0.40	-3.59
M-206	Total Phosphorus as P	22 Colorimetric	0.168 mg/L	0.162	0.010	0.60	3.70
T-213	Vanadium	04 Inductively coupled plasma	<2.00 µg/L	0.875	0.063	--	--
T-213	Zinc	04 Inductively coupled plasma	190 µg/L	184	10.0	0.60	3.26

T-213	Sodium	04 Inductively coupled plasma	41.6 mg/L	38.0	2.08	1.73	9.47
T-213	Silica	04 Inductively coupled plasma	6.36 mg/L	6.18	0.315	0.57	2.91
T-213	Silver	06 Inductively coupled plasma/mass spectrometry	2.63 µg/L	2.53	0.159	0.63	3.95
T-213	Potassium	04 Inductively coupled plasma	9.11 mg/L	8.88	0.282	0.82	2.59
T-213	Strontium	04 Inductively coupled plasma	276 µg/L	276	9.41	0.00	0.00
T-213	Uranium	06 Inductively coupled plasma/mass spectrometry	1.82 µg/L	1.79	0.078	0.38	1.68
T-213	Selenium	06 Inductively coupled plasma/mass spectrometry	0.432 µg/L	0.607	0.116	-1.51	-28.83
T-213	Thallium	06 Inductively coupled plasma/mass spectrometry	4.63 µg/L	4.40	0.222	1.04	5.23
T-213	Magnesium	04 Inductively coupled plasma	4.43 mg/L	4.09	0.138	2.46	8.31
T-213	Manganese	04 Inductively coupled plasma	685 µg/L	678	40.8	0.17	1.03
T-213	Iron	04 Inductively coupled plasma	546 µg/L	500	31.1	1.48	9.20
T-213	Lead	06 Inductively coupled plasma/mass spectrometry	3.13 µg/L	3.04	0.141	0.64	2.96
T-213	Molybdenum	06 Inductively coupled plasma/mass spectrometry	17.4 µg/L	17.3	1.11	0.09	0.58
T-213	Nickel	06 Inductively coupled plasma/mass spectrometry	0.871 µg/L	1.36	1.13	-0.43	-35.96
T-213	Chromium	06 Inductively coupled plasma/mass spectrometry	6.16 µg/L	6.10	0.319	0.19	0.98
T-213	Cobalt	06 Inductively coupled plasma/mass spectrometry	0.666 µg/L	0.708	0.062	-0.68	-5.93
T-213	Copper	06 Inductively coupled plasma/mass spectrometry	5.56 µg/L	5.56	0.441	0.00	0.00
T-213	Calcium	04 Inductively coupled plasma	65.7 mg/L	62.9	2.45	1.14	4.45
T-213	Boron	06 Inductively coupled plasma/mass spectrometry	12.7 µg/L	13.0	1.70	-0.18	-2.31
T-213	Cadmium	06 Inductively coupled plasma/mass spectrometry	0.452 µg/L	0.438	0.040	0.35	3.20
T-213	Aluminum	06 Inductively coupled plasma/mass spectrometry	291 µg/L	288	21.0	0.14	1.04
T-213	Antimony	06 Inductively coupled plasma/mass spectrometry	1.38 µg/L	1.38	0.044	0.00	0.00
T-213	Arsenic	06 Inductively coupled plasma/mass spectrometry	1.08 µg/L	1.00	0.057	1.40	8.00

T-213	Barium	06 Inductively coupled plasma/mass spectrometry	21.6 µg/L	21.0	0.667	0.90	2.86
T-213	Beryllium	06 Inductively coupled plasma/mass spectrometry	0.198 µg/L	0.199	0.037	-0.03	-0.50
Hg-56	Mercury	09 Atomic fluorescence	0.0461 µg/L	0.057	0.005	-2.18	-19.12
P-60	Magnesium	04 Inductively coupled plasma	0.103 mg/L	0.100	0.004	0.75	3.00
P-60	Fluoride	40 Ion selective electrode	0.0720 mg/L	0.071	0.019	0.05	1.41
P-60	Orthophosphate as P	22 Colorimetric	0.0172 mg/L	0.019	0.002	-0.90	-9.47
P-60	pH	41 Electrometric	4.60	4.60	0.126	0.00	0.00
P-60	Calcium	04 Inductively coupled plasma	0.668 mg/L	0.643	0.019	1.32	3.89
P-60	Chloride	07 Ion chromatography	2.98 mg/L	3.00	0.111	-0.18	-0.67
P-60	Sulfate	07 Ion chromatography	0.679 mg/L	0.500	0.101	1.77	35.80
P-60	Potassium	04 Inductively coupled plasma	<0.300 mg/L	0.128	0.015	--	--
P-60	Sodium	04 Inductively coupled plasma	2.48 mg/L	2.14	0.104	3.27	15.89
P-60	Specific Conductance	41 Electrometric	28.2 µS/cm	27.7	1.56	0.32	1.81