

WP		Metals		Summary - All Studies															
Lab Group	Study Type	Study Open Date Minimum	Study Open Date Maximum	Class Name	Number of Analytes	Number of individual Labs	Average Number PT per Year	Total Number Data Points	Total Number Not Acceptable	Failure Rate	Average Absolute z score	Average Recovery	Average Recovery Standard Deviation	Z <sub>CALC</sub> Failure Rate	Significance of difference H0:p1=p2 Failure Rate	H0: p1=p2 (< 5% Significant) Failure Rate	F <sub>CALC</sub> Average Recovery Variance	Critical F at p=0.05 for Average Recovery Variance / probability H0:V1=V2	F Test Average Recovery Variance (F <sub>CALC</sub> < Critical F)
1PT	WP	6/6/2005	12/10/2007	Metals	25	38	1.13	1690	87	5.15%	0.9709	99.5%	12.2%	5.656	0.000	Significantly Different	2.486	1.071	Significantly Different
2PT	WP	6/6/2005	4/14/2008	Metals	25	17	3.14	3519	78	2.22%	0.8355	100.4%	7.8%					0.0000	prob H0: V1=V2
<b>Studies by Accreditation Period (12 months)</b>																			
1PT	WP	6/18/2007	12/10/2007	Metals	25	33	NA	645	37	5.74%	1.0815	98.7%	11.9%	3.023	0.001	Significantly Different	2.747	1.115	Significantly Different
2PT	WP	6/18/2007	4/14/2008	Metals	25	17	NA	1469	44	3.00%	0.9242	100.8%	7.2%					0.0000	prob H0: V1=V2
1PT	WP	6/12/2006	3/12/2007	Metals	25	37	NA	701	39	5.56%	0.9414	99.7%	12.9%	4.427	0.000	Significantly Different	2.652	1.113	Significantly Different
2PT	WP	6/12/2006	5/14/2007	Metals	25	17	NA	1340	26	1.94%	0.7569	100.8%	7.9%					0.0000	prob H0: V1=V2
1PT	WP	6/6/2005	5/15/2006	Metals	25	22	NA	344	11	3.20%	0.8235	100.3%	11.5%	2.369	0.009	Significantly Different	1.835	1.163	Significantly Different
2PT	WP	6/6/2005	4/17/2006	Metals	25	13	NA	710	8	1.13%	0.8002	99.0%	8.5%					0.0000	prob H0: V1=V2

<b>WP Analyte Summary</b>					
Lab Group	Number of Analytes	Failure Rate Number of analytes Significantly Different High	Failure Rate Percentage of Analytes Significantly Different High	Average Recovery Variance Number of analytes Significantly Different High	Average Recovery Variance Percentage Significantly Different High
1PT	25	13	52.0%	16	64.0%
2PT	25	1	4.0%	2	8.0%
Same	25	11	44.0%	7	28.0%

Lab Group	Study Type	Study Open Date Minimum	Study Open Date Maximum	Analyte Name	NELAC Analyte Number	Number of individual Labs	Average Number PT per Year	Total Number Data Points	Total Number Not Acceptable	Failure Rate	Average Absolute z score	Average Recovery	Average Recovery Standard Deviation	Z <sub>CALC</sub> Failure Rate	Significance of difference H0:p1=p2 Failure Rate	H0: p1=p2 (< 5% Significant) Failure Rate	F <sub>CALC</sub> Average Recovery Variance	Critical F at p=0.05 for Average Recovery Variance / probability H0:V1=V2	F Test Average Recovery Variance (F <sub>CALC</sub> < Critical F)
1PT	WP	6/6/2005	12/10/2007	Aluminum	1000	20	1.13	57	3	5.26%	0.8885	97.6%	16.4%	2.745	0.003	Significantly Different	5.859	1.424	Significantly Different
2PT	WP	6/6/2005	4/14/2008	Aluminum	1000	17	2.90	141	0	0.00%	0.8113	100.5%	6.8%					0.0000	prob H0: V1=V2
1PT	WP	6/6/2005	12/10/2007	Antimony	1005	25	1.19	75	1	1.33%	0.7337	98.8%	16.7%	1.459	0.072	Same	11.916	1.374	Significantly Different
2PT	WP	6/6/2005	4/14/2008	Antimony	1005	16	3.48	159	0	0.00%	0.6042	99.4%	4.8%					0.0000	prob H0: V1=V2
1PT	WP	6/6/2005	12/10/2007	Arsenic	1010	28	1.14	80	2	2.50%	0.8768	97.6%	9.9%	2.027	0.021	Significantly Different	3.939	1.364	Significantly Different
2PT	WP	6/6/2005	4/14/2008	Arsenic	1010	16	3.57	163	0	0.00%	0.7366	98.8%	5.0%					0.0000	prob H0: V1=V2
1PT	WP	6/6/2005	12/10/2007	Barium	1015	24	1.14	69	3	4.35%	1.0669	102.0%	9.9%	0.041	0.484	Same	3.452	1.396	Significantly Different
2PT	WP	6/6/2005	4/14/2008	Barium	1015	16	3.11	142	6	4.23%	0.9439	101.6%	5.3%					0.0000	prob H0: V1=V2
1PT	WP	6/6/2005	12/10/2007	Beryllium	1020	25	1.11	70	7	10.00%	1.1872	100.5%	20.6%	2.958	0.002	Significantly Different	20.579	1.392	Significantly Different
2PT	WP	6/6/2005	4/14/2008	Beryllium	1020	16	3.17	145	2	1.38%	0.7214	99.5%	4.5%					0.0000	prob H0: V1=V2
1PT	WP	6/6/2005	12/10/2007	Boron	1025	9	1.42	32	1	3.13%	0.7885	99.9%	6.4%	0.840	0.200	Same	1.185	1.570	Same
2PT	WP	6/6/2005	4/14/2008	Boron	1025	14	2.45	98	1	1.02%	0.7764	100.5%	5.9%					0.2615	prob H0: V1=V2
1PT	WP	6/6/2005	12/10/2007	Cadmium	1030	34	1.10	94	6	6.38%	1.1866	96.4%	7.3%	2.188	0.014	Significantly Different	1.532	1.351	Significantly Different
2PT	WP	6/6/2005	4/14/2008	Cadmium	1030	16	3.35	153	2	1.31%	0.8759	98.0%	5.9%					0.0098	prob H0: V1=V2
1PT	WP	6/6/2005	12/10/2007	Chromium	1040	31	1.14	89	5	5.62%	0.9284	99.4%	6.2%	2.472	0.007	Significantly Different	2.152	1.353	Significantly Different
2PT	WP	6/6/2005	4/14/2008	Chromium	1040	17	3.31	161	1	0.62%	0.7426	100.8%	4.2%					0.0000	prob H0: V1=V2
1PT	WP	6/6/2005	12/10/2007	Hexavalent Chromium	1045	15	1.09	41	1	2.44%	0.7906	96.7%	6.7%	0.366	0.357	Same	0.090	1.505	Significantly Different
2PT	WP	6/6/2005	4/14/2008	Hexavalent Chromium	1045	14	2.75	110	4	3.64%	0.7939	100.2%	22.5%					1.0000	prob H0: V1=V2
1PT	WP	6/6/2005	12/10/2007	Cobalt	1050	20	1.03	52	1	1.92%	0.9126	101.8%	4.5%	0.726	0.234	Same	0.851	1.435	Same
2PT	WP	6/6/2005	4/14/2008	Cobalt	1050	16	3.22	147	6	4.08%	1.1134	103.3%	4.9%					0.7435	prob H0: V1=V2
1PT	WP	6/6/2005	12/10/2007	Copper	1055	36	1.04	94	3	3.19%	1.0606	99.5%	6.8%	0.431	0.333	Same	1.294	1.345	Same
2PT	WP	6/6/2005	4/14/2008	Copper	1055	17	3.38	164	7	4.27%	1.0631	101.3%	6.0%					0.0761	prob H0: V1=V2
1PT	WP	6/6/2005	12/10/2007	Iron	1070	31	1.04	81	2	2.47%	0.8499	100.3%	7.7%	1.783	0.037	Significantly Different	0.484	1.376	Significantly Different
2PT	WP	6/6/2005	4/14/2008	Iron	1070	17	2.90	141	12	8.51%	1.2536	104.5%	11.1%					0.9998	prob H0: V1=V2
1PT	WP	6/6/2005	12/10/2007	Lead	1075	35	1.19	105	11	10.48%	1.2167	99.5%	9.8%	2.058	0.020	Significantly Different	3.087	1.331	Significantly Different
2PT	WP	6/6/2005	4/14/2008	Lead	1075	16	3.70	169	7	4.14%	0.9385	101.6%	5.6%					0.0000	prob H0: V1=V2
1PT	WP	6/6/2005	12/10/2007	Manganese	1090	31	1.07	83	5	6.02%	1.0341	100.3%	8.0%	0.056	0.478	Same	2.582	1.365	Significantly Different
2PT	WP	6/6/2005	4/14/2008	Manganese	1090	17	3.17	154	9	5.84%	1.2169	103.0%	5.0%					0.0000	prob H0: V1=V2
1PT	WP	6/6/2005	12/10/2007	Mercury	1095	24	1.00	60	1	1.67%	0.8509	102.7%	25.9%	1.042	0.149	Same	3.494	1.450	Significantly Different
2PT	WP	6/6/2005	4/14/2008	Mercury	1095	15	2.40	103	5	4.85%	0.6565	98.9%	13.8%					0.0000	prob H0: V1=V2

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1PT	WP	6/6/2005	12/10/2007	Molybdenum	1100	16	1.12	45	1	2.22%	0.7247	100.2%	5.7%	1.775	0.038	Significantly Different	1.944	1.463	Significantly Different
2PT	WP	6/6/2005	4/14/2008	Molybdenum	1100	16	3.08	141	0	0.00%	0.6015	100.3%	4.1%					0.0019	prob H0: V1=V2
1PT	WP	6/6/2005	12/10/2007	Nickel	1105	33	1.12	93	7	7.53%	1.1633	96.6%	14.7%	1.796	0.036	Significantly Different	8.113	1.353	Significantly Different
2PT	WP	6/6/2005	4/14/2008	Nickel	1105	16	3.32	152	4	2.63%	1.1014	101.8%	5.2%					0.0000	prob H0: V1=V2
1PT	WP	6/6/2005	12/10/2007	Selenium	1140	27	1.18	80	5	6.25%	1.1016	98.6%	12.8%	2.631	0.004	Significantly Different	6.621	1.366	Significantly Different
2PT	WP	6/6/2005	4/14/2008	Selenium	1140	16	3.50	160	1	0.63%	0.5954	98.6%	5.0%					0.0000	prob H0: V1=V2
1PT	WP	6/6/2005	12/10/2007	Silver	1150	31	1.17	91	10	10.99%	1.1940	98.4%	13.8%	2.370	0.009	Significantly Different	1.336	1.357	Same
2PT	WP	6/6/2005	4/14/2008	Silver	1150	16	3.26	149	5	3.36%	0.9363	98.7%	11.9%					0.0592	prob H0: V1=V2
1PT	WP	6/6/2005	12/10/2007	Strontium	1160	6	1.59	24	1	4.17%	0.8075	105.5%	27.2%	0.859	0.195	Same	34.132	1.676	Significantly Different
2PT	WP	6/6/2005	4/14/2008	Strontium	1160	10	2.62	75	1	1.33%	0.7069	99.2%	4.6%					0.0000	prob H0: V1=V2
1PT	WP	6/6/2005	12/10/2007	Thallium	1165	25	1.16	73	2	2.74%	0.7101	99.6%	6.5%	2.116	0.017	Significantly Different	1.065	1.376	Same
2PT	WP	6/6/2005	4/14/2008	Thallium	1165	16	3.54	162	0	0.00%	0.6814	100.7%	6.3%					0.3662	prob H0: V1=V2
1PT	WP	6/6/2005	12/10/2007	Tin	1175	10	1.19	30	3	10.00%	0.8679	100.2%	14.5%	3.528	0.000	Significantly Different	6.270	1.561	Significantly Different
2PT	WP	6/6/2005	4/14/2008	Tin	1175	15	2.85	122	0	0.00%	0.6483	98.3%	5.8%					0.0000	prob H0: V1=V2
1PT	WP	6/6/2005	12/10/2007	Titanium	1180	9	1.28	29	0	0.00%	0.5389	99.6%	3.8%	0.700	0.242	Same	0.893	1.571	Same
2PT	WP	6/6/2005	4/14/2008	Titanium	1180	15	2.80	120	2	1.67%	0.6097	99.3%	4.1%					0.6233	prob H0: V1=V2
1PT	WP	6/6/2005	12/10/2007	Vanadium	1185	18	1.13	51	1	1.96%	0.7926	99.2%	4.5%	0.754	0.225	Same	1.271	1.442	Same
2PT	WP	6/6/2005	4/14/2008	Vanadium	1185	16	3.08	141	1	0.71%	0.7283	100.1%	4.0%					0.1400	prob H0: V1=V2
1PT	WP	6/6/2005	12/10/2007	Zinc	1190	34	1.08	92	5	5.43%	0.9229	101.6%	11.8%	1.907	0.028	Significantly Different	1.765	1.352	Significantly Different
2PT	WP	6/6/2005	4/14/2008	Zinc	1190	17	3.21	156	2	1.28%	0.7992	100.8%	8.9%					0.0009	prob H0: V1=V2



<b>Soil Analyte Summary</b>					
Lab Group	Number of Analytes	Failure Rate Number of Analytes Significantly Different High	Failure Rate Percentage of Analytes Significantly Different High	Average Recovery Variance Number of analytes Significantly Different High	Average Recovery Variance Percentage Significantly Different High
1PT	29	10	34.5%	14	48.3%
2PT	29	0	0.0%	2	6.9%
Same	29	19	65.5%	13	44.8%

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1PT	SOIL	7/25/2005	4/21/2008	Aluminum	1000	14	1.28	49	0	0.00%	0.9001	94.1%	21.9%	0.894	18.56%	Same	0.924	1.461	Same
2PT	SOIL	4/25/2005	4/21/2008	Aluminum	1000	16	2.59	124	2	1.61%	0.8029	89.8%	22.8%					0.6137	prob H0: V1=V2
1PT	SOIL	7/25/2005	4/21/2008	Antimony	1005	16	1.37	60	4	6.67%	0.9542	40.3%	27.1%	3.064	0.11%	Significantly Different	1.150	1.418	Same
2PT	SOIL	4/25/2005	4/21/2008	Antimony	1005	16	2.88	138	0	0.00%	0.6570	43.7%	25.3%					0.2517	prob H0: V1=V2
1PT	SOIL	7/25/2005	4/21/2008	Arsenic	1010	18	1.26	62	5	8.06%	0.9164	84.5%	12.3%	2.495	0.63%	Significantly Different	1.741	1.406	Significantly Different
2PT	SOIL	4/25/2005	4/21/2008	Arsenic	1010	16	3.13	150	2	1.33%	0.7355	86.4%	9.3%					0.0036	prob H0: V1=V2
1PT	SOIL	7/25/2005	4/21/2008	Barium	1015	15	1.34	55	2	3.64%	0.8923	98.9%	16.1%	0.880	18.95%	Same	2.633	1.439	Significantly Different
2PT	SOIL	4/25/2005	4/21/2008	Barium	1015	16	2.67	128	2	1.56%	0.8051	96.9%	9.9%					0.0000	prob H0: V1=V2
1PT	SOIL	7/25/2005	4/21/2008	Beryllium	1020	19	1.11	58	1	1.72%	0.6715	91.0%	7.7%	0.119	45.27%	Same	0.207	1.426	Significantly Different
2PT	SOIL	4/25/2005	4/21/2008	Beryllium	1020	16	2.80	134	2	1.49%	0.8505	93.5%	17.0%					1.0000	prob H0: V1=V2
1PT	SOIL	7/25/2005	4/21/2008	Boron	1025	8	1.28	28	1	3.57%	0.9526	84.5%	16.5%	0.944	17.26%	Same	2.257	1.602	Significantly Different
2PT	SOIL	4/25/2005	4/21/2008	Boron	1025	14	2.32	97	1	1.03%	0.7322	85.6%	11.0%					0.0020	prob H0: V1=V2
1PT	SOIL	7/25/2005	4/21/2008	Cadmium	1030	21	1.11	64	0	0.00%	0.7896	87.8%	8.7%	#DIV/0!	#DIV/0!	#DIV/0!	1.342	1.407	Same
2PT	SOIL	4/25/2005	4/21/2008	Cadmium	1030	16	2.95	141	0	0.00%	0.6838	89.8%	7.5%					0.0781	prob H0: V1=V2
1PT	SOIL	7/25/2005	4/21/2008	Calcium	1035	16	1.19	52	4	7.69%	1.1597	102.2%	29.3%	3.124	0.09%	Significantly Different	11.590	1.451	Significantly Different
2PT	SOIL	4/25/2005	4/21/2008	Calcium	1035	16	2.59	124	0	0.00%	0.7560	97.8%	8.6%					0.0000	prob H0: V1=V2
1PT	SOIL	7/25/2005	4/21/2008	Chromium	1040	19	1.13	59	0	0.00%	0.6914	91.1%	7.9%	0.639	26.13%	Same	0.833	1.416	Same
2PT	SOIL	4/25/2005	4/21/2008	Chromium	1040	16	3.03	145	1	0.69%	0.6801	91.2%	8.7%					0.7844	prob H0: V1=V2
1PT	SOIL	7/25/2005	4/21/2008	Chromium VI	1045	8	1.19	26	2	7.69%	0.8459	64.0%	29.7%	0.672	25.08%	Same	1.586	1.629	Same
2PT	SOIL	4/25/2005	4/21/2008	Chromium VI	1045	14	2.17	91	4	4.40%	0.7535	67.8%	23.6%					0.0599	prob H0: V1=V2
1PT	SOIL	7/25/2005	4/21/2008	Cobalt	1050	13	1.18	42	0	0.00%	0.6839	89.5%	7.3%	0.561	28.72%	Same	0.637	1.481	Same
2PT	SOIL	4/25/2005	4/21/2008	Cobalt	1050	16	2.80	134	1	0.75%	0.7569	89.9%	9.1%					0.9516	prob H0: V1=V2
1PT	SOIL	7/25/2005	4/21/2008	Copper	1055	21	1.18	68	3	4.41%	0.8922	96.4%	14.5%	1.372	8.51%	Same	2.725	1.395	Significantly Different
2PT	SOIL	4/25/2005	4/21/2008	Copper	1055	16	3.05	146	2	1.37%	0.8094	94.4%	8.8%					0.0000	prob H0: V1=V2
1PT	SOIL	7/25/2005	4/21/2008	Iron	1070	16	1.30	57	1	1.75%	0.8090	96.1%	24.7%	0.609	27.13%	Same	1.990	1.431	Significantly Different
2PT	SOIL	4/25/2005	4/21/2008	Iron	1070	16	2.74	131	1	0.76%	0.6207	95.0%	17.5%					0.0007	prob H0: V1=V2
1PT	SOIL	7/25/2005	4/21/2008	Lead	1075	22	1.13	68	1	1.47%	0.8297	93.4%	13.1%	0.091	46.36%	Same	2.236	1.391	Significantly Different
2PT	SOIL	4/25/2005	4/21/2008	Lead	1075	16	3.18	152	2	1.32%	0.7104	90.0%	8.8%					0.0000	prob H0: V1=V2
1PT	SOIL	7/25/2005	4/21/2008	Magnesium	1085	14	1.30	50	2	4.00%	0.9147	95.5%	16.9%	0.636	26.23%	Same	2.199	1.451	Significantly Different
2PT	SOIL	4/25/2005	4/21/2008	Magnesium	1085	16	2.76	132	3	2.27%	0.7494	95.9%	11.4%					0.0002	prob H0: V1=V2

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1PT	SOIL	7/25/2005	4/21/2008	Manganese	1090	15	1.29	53	3	5.66%	0.9551	103.0%	13.0%	1.612	5.35%	Same	1.983	1.439	Significantly Different
2PT	SOIL	4/25/2005	4/21/2008	Manganese	1090	16	2.84	136	2	1.47%	0.7245	100.1%	9.2%					0.0009	prob H0: V1=V2
1PT	SOIL	7/25/2005	4/21/2008	Mercury	1095	16	1.03	45	0	0.00%	0.7327	96.9%	15.5%	0.684	24.71%	Same	0.656	1.503	Same
2PT	SOIL	4/25/2005	4/21/2008	Mercury	1095	16	2.03	97	1	1.03%	0.6520	101.4%	19.2%					0.9398	prob H0: V1=V2
1PT	SOIL	7/25/2005	4/21/2008	Molybdenum	1100	16	1.07	47	1	2.13%	0.8171	86.9%	9.5%	0.773	21.96%	Same	1.315	1.461	Same
2PT	SOIL	4/25/2005	4/21/2008	Molybdenum	1100	16	2.78	133	1	0.75%	0.7442	86.8%	8.3%					0.1167	prob H0: V1=V2
1PT	SOIL	7/25/2005	4/21/2008	Nickel	1105	21	1.15	66	3	4.55%	0.8730	92.3%	11.2%	1.832	3.35%	Significantly Different	1.631	1.405	Significantly Different
2PT	SOIL	4/25/2005	4/21/2008	Nickel	1105	16	2.86	137	1	0.73%	0.7657	89.4%	8.8%					0.0089	prob H0: V1=V2
1PT	SOIL	7/25/2005	4/21/2008	Potassium	1125	16	1.21	53	1	1.89%	0.7605	95.4%	12.9%	0.129	44.86%	Same	0.846	1.448	Same
2PT	SOIL	4/25/2005	4/21/2008	Potassium	1125	16	2.59	124	2	1.61%	0.7313	96.2%	14.0%					0.7495	prob H0: V1=V2
1PT	SOIL	7/25/2005	4/21/2008	Selenium	1140	18	1.26	62	5	8.06%	1.1546	94.0%	23.5%	2.529	0.57%	Significantly Different	4.305	1.404	Significantly Different
2PT	SOIL	4/25/2005	4/21/2008	Selenium	1140	16	3.20	153	2	1.31%	0.6920	92.4%	11.3%					0.0000	prob H0: V1=V2
1PT	SOIL	7/25/2005	4/21/2008	Silver	1150	17	1.22	57	10	17.54%	1.2523	81.8%	23.6%	5.173	0.00%	Significantly Different	5.026	1.421	Significantly Different
2PT	SOIL	4/25/2005	4/21/2008	Silver	1150	16	3.03	145	0	0.00%	0.7208	91.6%	10.5%					0.0000	prob H0: V1=V2
1PT	SOIL	7/25/2005	4/21/2008	Sodium	1155	12	1.34	44	5	11.36%	1.0033	100.4%	22.1%	1.766	3.87%	Significantly Different	0.885	1.480	Same
2PT	SOIL	4/25/2005	4/21/2008	Sodium	1155	16	2.59	124	5	4.03%	0.8648	101.5%	23.5%					0.6704	prob H0: V1=V2
1PT	SOIL	7/25/2005	4/21/2008	Strontium	1160	5	1.46	20	0	0.00%	0.5725	96.4%	7.3%	0.764	22.23%	Same	0.301	1.739	Significantly Different
2PT	SOIL	4/25/2005	4/21/2008	Strontium	1160	11	2.13	70	2	2.86%	0.9147	95.3%	13.2%					0.9976	prob H0: V1=V2
1PT	SOIL	7/25/2005	4/21/2008	Thallium	1165	16	1.32	58	1	1.72%	0.8826	89.6%	11.6%	0.234	40.76%	Same	1.430	1.413	Same
2PT	SOIL	4/25/2005	4/21/2008	Thallium	1165	16	3.22	154	2	1.30%	0.7019	90.5%	9.7%					0.0446	prob H0: V1=V2
1PT	SOIL	7/25/2005	4/21/2008	Tin	1175	6	1.40	23	6	26.09%	1.7233	71.9%	29.6%	3.218	0.06%	Significantly Different	1.644	1.650	Same
2PT	SOIL	4/25/2005	4/21/2008	Tin	1175	14	2.41	101	5	4.95%	0.8585	91.1%	23.1%					0.0512	prob H0: V1=V2
1PT	SOIL	7/25/2005	4/21/2008	Titanium	1180	7	1.35	26	1	3.85%	1.1454	81.8%	39.6%	1.869	3.08%	Significantly Different	1.937	1.630	Significantly Different
2PT	SOIL	4/25/2005	4/21/2008	Titanium	1180	14	2.15	90	0	0.00%	0.7464	95.8%	28.4%					0.0127	prob H0: V1=V2
1PT	SOIL	7/25/2005	4/21/2008	Vanadium	1185	14	1.30	50	1	2.00%	0.9074	86.1%	11.0%	0.248	40.21%	Same	1.351	1.449	Same
2PT	SOIL	4/25/2005	4/21/2008	Vanadium	1185	16	2.82	135	2	1.48%	0.6418	88.2%	9.4%					0.0912	prob H0: V1=V2
1PT	SOIL	7/25/2005	4/21/2008	Zinc	1190	21	1.13	65	4	6.15%	0.8828	98.3%	29.8%	3.016	0.13%	Significantly Different	10.806	1.402	Significantly Different
2PT	SOIL	4/25/2005	4/21/2008	Zinc	1190	16	3.03	145	0	0.00%	0.6927	93.1%	9.1%					0.0000	prob H0: V1=V2



WS		Metals		Summary - All Studies															
Lab Group	Study Type	Study Open Date Minimum	Study Open Date Maximum	Class Name	Number of Analytes	Number of individual Labs	Average Number PT per Year	Total Number Data Points	Total Number Not Acceptable	Failure Rate	Average Absolute z score	Average Recovery	Average Recovery Standard Deviation	Z <sub>CALC</sub> Failure Rate	Significance of difference H0:p1=p2 Failure Rate	H0: p1=p2 (< 5% Significant) Failure Rate	F <sub>CALC</sub> Average Recovery Variance	Critical F at p=0.05 for Average Recovery Variance / probability H0:V1=V2	F Test Average Recovery Variance (F <sub>CALC</sub> < Critical F)
1PT	WS	5/16/2005	1/7/2008	Metals	20	31	1.48	1556	101	6.49%	0.6772	101.7%	18.1%	4.751	0.00%	Significantly Different	3.705	1.085	Significantly Different
2PT	WS	5/16/2005	4/7/2008	Metals	20	15	2.20	1684	50	2.97%	0.5040	100.3%	9.4%					0.0000	prob H0: V1=V2
<b>Studies by Accreditation Period (12 months)</b>																			
1PT	WS	3/5/2007	1/7/2008	Metals	20	29	NA	560	37	6.61%	0.7832	101.2%	16.0%	3.946	0.00%	Significantly Different	4.442	1.146	Significantly Different
2PT	WS	4/9/2007	4/7/2008	Metals	20	13	NA	608	12	1.97%	0.5496	99.5%	7.6%					0.0000	prob H0: V1=V2
1PT	WS	2/6/2006	1/8/2007	Metals	20	30	NA	522	38	7.28%	0.7399	102.5%	20.2%	2.797	0.26%	Significantly Different	5.205	1.153	Significantly Different
2PT	WS	7/10/2006	1/8/2007	Metals	20	13	NA	551	19	3.45%	0.5454	100.8%	8.8%					0.0000	prob H0: V1=V2
1PT	WS	5/16/2005	1/9/2006	Metals	20	30	NA	474	26	5.49%	0.4829	101.4%	18.1%	1.420	7.78%	Same	2.433	1.159	Significantly Different
2PT	WS	5/16/2005	1/9/2006	Metals	20	14	NA	525	19	3.62%	0.4079	100.6%	11.6%					0.0000	prob H0: V1=V2

Lab Group	Study Type	Study Open Date Minimum	Study Open Date Maximum	Analyte Name	NELAC Analyte Number
<b>WS Analyte Summary</b>					
Lab Group	Number of Analytes	Failure Rate Number of analytes Significantly Different High	Failure Rate Percentage of Analytes Significantly Different High	Average Recovery Variance Number of analytes Significantly Different High	Average Recovery Variance Percentage Significantly Different High
1PT	20	6	30.0%	14	70.0%
2PT	20	0	0.0%	2	10.0%
Same	20	14	70.0%	4	20.0%

Lab Group	Study Type	Study Open Date Minimum	Study Open Date Maximum	Analyte Name	NELAC Analyte Number	Number of individual Labs	Average Number PT per Year	Total Number Data Points	Total Number Not Acceptable	Failure Rate	Average Absolute z score	Average Recovery	Average Recovery Standard Deviation	Z <sub>CALC</sub> Failure Rate	Significance of difference H0:p1=p2 Failure Rate	H0: p1=p2 (< 5% Significant) Failure Rate	F <sub>CALC</sub> Average Recovery Variance	Critical F at p=0.05 for Average Recovery Variance / probability H0:V1=V2	F Test Average Recovery Variance (F <sub>CALC</sub> < Critical F)
1PT	WS	7/11/2005	1/7/2008	Aluminum	1000	20	1.38	69	10	14.49%	1.0114	102.2%	25.2%	2.479	0.66%	Significantly Different	13.107	1.455	Significantly Different
2PT	WS	7/11/2005	4/7/2008	Aluminum	1000	15	2.11	87	3	3.45%	0.6874	99.9%	7.0%					0.0000	prob H0: V1=V2
1PT	WS	5/16/2005	1/7/2008	Antimony	1005	18	1.43	68	5	7.35%	0.5955	100.6%	17.0%	0.929	17.65%	Same	1.533	1.474	Same
2PT	WS	7/11/2005	4/7/2008	Antimony	1005	13	2.19	78	3	3.85%	0.4618	105.7%	13.7%					0.0351	prob H0: V1=V2
1PT	WS	7/11/2005	1/7/2008	Arsenic	1010	24	1.47	88	2	2.27%	0.4249	98.8%	13.5%	0.012	49.54%	Same	2.882	1.427	Significantly Different
2PT	WS	7/11/2005	4/7/2008	Arsenic	1010	15	2.11	87	2	2.30%	0.2430	99.4%	8.0%					0.0000	prob H0: V1=V2
1PT	WS	7/11/2005	1/7/2008	Barium	1015	17	1.63	69	8	11.59%	0.8025	101.4%	16.1%	2.760	0.29%	Significantly Different	16.784	1.457	Significantly Different
2PT	WS	7/11/2005	4/7/2008	Barium	1015	15	2.09	86	1	1.16%	0.2916	100.1%	3.9%					0.0000	prob H0: V1=V2
1PT	WS	7/11/2005	1/7/2008	Beryllium	1020	18	1.74	78	10	12.82%	0.8385	103.9%	18.7%	0.223	41.18%	Same	2.282	1.429	Significantly Different
2PT	WS	7/11/2005	4/7/2008	Beryllium	1020	15	2.29	94	11	11.70%	0.6910	102.3%	12.4%					0.0001	prob H0: V1=V2
1PT	WS	7/11/2005	1/7/2008	Boron	1025	7	1.15	20	1	5.00%	0.5299	100.9%	4.0%	0.429	33.38%	Same	0.765	1.892	Same
2PT	WS	7/11/2005	4/7/2008	Boron	1025	10	1.31	36	1	2.78%	0.6546	97.2%	4.5%					0.7292	prob H0: V1=V2
1PT	WS	7/11/2005	1/7/2008	Cadmium	1030	25	1.49	93	9	9.68%	0.7326	101.6%	22.7%	1.955	2.53%	Significantly Different	11.239	1.398	Significantly Different
2PT	WS	5/16/2005	4/7/2008	Cadmium	1030	15	2.35	102	3	2.94%	0.4058	97.0%	6.8%					0.0000	prob H0: V1=V2
1PT	WS	7/11/2005	1/7/2008	Chromium	1040	22	1.60	88	4	4.55%	0.6293	102.4%	19.6%	1.508	6.58%	Same	20.492	1.407	Significantly Different
2PT	WS	7/11/2005	4/7/2008	Chromium	1040	15	2.43	100	1	1.00%	0.3197	99.7%	4.3%					0.0000	prob H0: V1=V2
1PT	WS	7/11/2005	1/7/2008	Copper	1055	30	1.59	119	3	2.52%	0.5469	101.7%	13.1%	0.490	31.21%	Same	5.244	1.365	Significantly Different
2PT	WS	7/11/2005	4/7/2008	Copper	1055	15	2.67	110	4	3.64%	0.5809	99.9%	5.7%					0.0000	prob H0: V1=V2
1PT	WS	7/11/2005	1/7/2008	Iron	1070	30	1.47	110	4	3.64%	0.7133	98.6%	13.0%	0.486	31.34%	Same	0.920	1.414	Same
2PT	WS	6/13/2005	4/7/2008	Iron	1070	14	2.10	83	2	2.41%	0.7876	101.5%	13.5%					0.6608	prob H0: V1=V2
1PT	WS	7/11/2005	1/7/2008	Lead	1075	30	1.40	105	3	2.86%	0.3888	104.1%	22.4%	1.580	5.71%	Same	18.723	1.412	Significantly Different
2PT	WS	7/11/2005	4/7/2008	Lead	1075	13	2.41	86	0	0.00%	0.2242	100.1%	5.2%					0.0000	prob H0: V1=V2
1PT	WS	7/11/2005	1/7/2008	Manganese	1090	31	1.54	119	7	5.88%	0.8687	103.9%	18.5%	1.368	8.57%	Same	2.390	1.386	Significantly Different
2PT	WS	6/13/2005	4/7/2008	Manganese	1090	14	2.41	95	2	2.11%	0.8370	102.9%	12.0%					0.0000	prob H0: V1=V2
1PT	WS	7/11/2005	1/7/2008	Mercury	1095	22	1.37	75	4	5.33%	0.6012	103.1%	21.7%	1.067	14.30%	Same	3.553	1.525	Significantly Different
2PT	WS	7/11/2005	4/7/2008	Mercury	1095	11	1.89	57	1	1.75%	0.3648	98.9%	11.5%					0.0000	prob H0: V1=V2
1PT	WS	7/11/2005	1/7/2008	Molybdenum	1100	8	1.20	24	0	0.00%	0.4697	99.0%	4.5%	0.814	20.79%	Same	0.895	1.678	Same
2PT	WS	7/11/2005	4/7/2008	Molybdenum	1100	13	2.08	74	2	2.70%	0.5507	98.8%	4.7%					0.6041	prob H0: V1=V2

Lab Group	Study Type	Study Open Date Minimum	Study Open Date Maximum	Analyte Name	NELAC Analyte Number	Number of individual Labs	Average Number PT per Year	Total Number Data Points	Total Number Not Acceptable	Failure Rate	Average Absolute z score	Average Recovery	Average Recovery Standard Deviation	Z <sub>CALC</sub> Failure Rate	Significance of difference H0:p1=p2 Failure Rate	H0: p1=p2 (< 5% Significant) Failure Rate	F <sub>CALC</sub> Average Recovery Variance	Critical F at p=0.05 for Average Recovery Variance / probability H0:V1=V2	F Test Average Recovery Variance (F <sub>CALC</sub> < Critical F)
1PT	WS	7/11/2005	1/7/2008	Nickel	1105	21	1.57	82	8	9.76%	0.7890	101.6%	22.1%	1.739	4.11%	Significantly Different	7.277	1.428	Significantly Different
2PT	WS	7/11/2005	4/7/2008	Nickel	1105	15	2.21	91	3	3.30%	0.4520	101.0%	8.2%					0.0000	prob H0: V1=V2
1PT	WS	7/11/2005	1/7/2008	Selenium	1140	23	1.40	80	7	8.75%	0.7627	101.3%	17.5%	2.194	1.41%	Significantly Different	5.096	1.449	Significantly Different
2PT	WS	7/11/2005	4/7/2008	Selenium	1140	13	2.27	81	1	1.23%	0.4490	98.7%	7.8%					0.0000	prob H0: V1=V2
1PT	WS	7/11/2005	1/7/2008	Silver	1150	22	1.62	89	10	11.24%	0.9056	99.9%	7.7%	2.137	1.63%	Significantly Different	2.353	1.413	Significantly Different
2PT	WS	7/11/2005	4/7/2008	Silver	1150	15	2.31	95	3	3.16%	0.6152	100.4%	5.0%					0.0000	prob H0: V1=V2
1PT	WS	7/11/2005	1/7/2008	Thallium	1165	17	1.46	62	5	8.06%	0.6767	104.9%	32.6%	1.409	7.94%	Same	2.671	1.495	Significantly Different
2PT	WS	7/11/2005	4/7/2008	Thallium	1165	13	2.08	74	2	2.70%	0.3538	102.1%	19.9%					0.0000	prob H0: V1=V2
1PT	WS	7/11/2005	1/7/2008	Vanadium	1185	10	1.08	27	0	0.00%	0.5154	99.7%	3.3%	0.851	19.73%	Same	0.096	1.644	Significantly Different
2PT	WS	7/11/2005	4/7/2008	Vanadium	1185	13	2.13	76	2	2.63%	0.5670	98.8%	10.8%					1.0000	prob H0: V1=V2
1PT	WS	7/11/2005	1/7/2008	Zinc	1190	26	1.40	91	1	1.10%	0.4928	101.2%	3.7%	1.000	15.86%	Same	0.614	1.415	Significantly Different
2PT	WS	7/11/2005	4/7/2008	Zinc	1190	15	2.24	92	3	3.26%	0.5438	99.6%	4.7%					0.9894	prob H0: V1=V2