

ALP Program

Participant Web Summary Report

2014 Round #23



The Agriculture Laboratory Proficiency (ALP) Program is operated by Collaborative Testing Services, Inc. in cooperation with Robert O. Miller, PhD, Program Technical Director

ALP Program - Spring 2014 Round Overview

The Agriculture Laboratory Proficiency (ALP) Program Spring 2014 (Cycle 23) was completed in June, 2014, with participation by 85 labs from the United States, Canada, Guatemala and South Africa. Proficiency samples consisted of five soils, three botanical and three water samples. Analytical methods evaluated are based on those published by AOAC, four regional soil work groups, the Soil Plant Analysis Council and Forestry Canada.



Special Topics:

**Discussion of Statistics
in ALP Reports.**

**Quick Key to Analysis
Tables.**

**Means and medians /
standard deviations
and M.A.D.s**

Standard Reference Soils (SRS), materials used for the soils and environmental programs were: SRS-1401 an Arisburg silt loam collected from Boone City, SD; SRS-1402 a sandy loam collected near Westmoreland, NB Canada; SRS-1403 a sandy loam collected from Brookings City, SD; SRS-1404 a Brady silt loam collected from Wilson City, TN; and SRS-1405 a Delhi loamy sand collected from Fresno City, CA. Standard Reference Botanical (SRB) materials were: grape petiole from Washington, potato blend composite from Washington and corn leaves from Indiana. Standard Reference Water (SRW) solutions represent agriculture water samples collected from: an irrigation canal near Mountain View, AB Canada; the San Miguel River in Colorado; and an irrigation well in Sydney, NE.

Laboratory Results were compiled and analyzed for each interlaboratory material and property. All analyses in the ALP Program are based on consensus and comparative statistics. Although the analysis techniques chosen to provide a robust evaluation, small group statistics are less reliable than large group statistics. No comparative results are provided for analyses with fewer than 4 reported results.

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Discussion of Statistics in ALP Reports

Reports in the ALP Program contain a variety of statistical terms and measures, such as: mean, median, median absolute deviation (M.A.D.), average standard deviation, z-score, etc. that must be understood to accurately interpret your laboratory's results. The following sections describe the statistics used in the Participant Web Summary Report and the Individual Performance Analysis Report.

Laboratory Statistics:

For each property three replicate determinations were collected for each sample. From these determinations, we calculated your laboratory results as the arithmetic mean and standard deviation of the three determinations. These results form the basis for all other statistics used in the reports.

$$\text{Arithmetic Mean} \quad \bar{x} = \frac{1}{n} \cdot \sum_{i=1}^n x_i \quad \text{Standard Deviation} \quad \sigma = \sqrt{\frac{1}{N} \sum_{i=1}^N (x_i - \bar{x})^2}$$

Consensus Statistics:

From the laboratory means a Grand Median is determined. The dispersion around this consensus value is calculated by the Median Absolute Deviation (M.A.D.). The M.A.D. is the median of the absolute values of the differences between the Laboratory Means and the Grand Median. Finally, the standard deviations between the triplicate determinations for each sample-property within each lab are averaged (by the sum of squares method) to determine the Within Lab Average Standard Deviation. These three consensus values, Grand Median, M.A.D. and Within Lab Avg STD form the basic estimates of value, dispersion, and within laboratory consistency.

$$MAD = \text{med}_i (|x_i - \text{med}_j (x_j)|)$$

Please note that the calculation of the M.A.D. as detailed above differs from conventional usage.

continued on the following page



Discussion of Statistics in ALP Reports

Performance Statistics:

Performance Statistics are generated by combinations of the two Laboratory Statistics (arithmetic mean and standard deviation) and the Consensus Statistics (Grand Median, M.A.D. and Within Lab Avg STD).

The Individual Performance Analysis Report, contains two Performance Statistics and an associated range. The WithinLab Performance is the laboratory standard deviation divided by the Within Lab Average Standard Deviation. A value greater than 1 for this ratio would indicate that the variation of the three replicate determinations for this sample-property from your laboratory was greater than the other participants; a ratio less than 1 indicates less variation than other participants. The Laboratory-Sample Bias results on the Laboratory Summary Performance page are z-scores calculated by dividing the difference between your laboratory mean and the Grand Median by the M.A.D. A value closer to zero for this performance statistic indicates that your laboratory mean agreed with the other participants. Positive values indicate that your laboratory mean was greater than the Grand Median; negative values indicate that your laboratory mean was less than the Grand Median. The larger this value is, whether positive or negative, the less agreement between your laboratory mean and the Grand Median. The confidence interval is calculated from the Grand Median and the M.A.D.

$$\text{WithinLab Performance} = \frac{\text{laboratory standard deviation}}{\text{Within Lab Average Standard Deviation}}$$

$$\text{Laboratory-Sample Bias} = \frac{(\text{laboratory mean} - \text{Grand Median})}{\text{M.A.D.}}$$

In the Participant Web Summary Report the k Score is the same as the WithinLab Performance; it is simply a common technical term. The Z Score does differ from the Laboratory-Sample Bias, however these two performance measures share the same purpose - to judge the bias between your laboratory mean and the consensus results. The Z Score is calculated by dividing the difference between your laboratory mean and the Grand Median by the product of the M.A.D. and a factor of 1.48 (rounded). This denominator is used to give a rough estimate of the between laboratory standard deviation, if a normal distribution is assumed. The Z Score then gives us something that approximates a traditional z-score, so that on average 68% of values fall in the range of +1.00 to -1.00.

$$\text{k Score} = \frac{\text{laboratory standard deviation}}{\text{Within Lab Average Standard Deviation}}$$

$$\text{Z Score} = \frac{(\text{laboratory mean} - \text{Grand Median})}{1.48(\text{M.A.D.})}$$



Key to Data Tables

Laboratory Results

			Sample Mean	arithmetic mean of the three determinations for the sample-property
			Difference	difference between your laboratory mean and the Grand Median
Sample Mean	Z Score	k Score	Z Score	difference divided by the product of the M.A.D. and 1.48 (rounded)
	Difference	W/L STD	W/L STD	standard deviation of the three determinations for the sample-property
			k Score	laboratory standard deviation divided by the Within Lab Average STD

Consensus Results

Grand Median	median of all included sample means
Median Abs Dev	median of all included absolute differences between the sample means and the grand median
Avg Within Lab SD	average of all included laboratory standard deviations
Labs Included	number of laboratories included in calculation of consensus statistics for this sample-property
Labs Reporting	number of laboratories submitting data for this sample-property

Consensus results were reported only for analyses with five or more included laboratories. Analyses with fewer than five included laboratories are missing both consensus and performance statistics.



Choosing the Statistics Used

In this report and the Individual Performance Analysis Report, ALP participants should note that CTS has used means and medians to calculate averages, as well as standard deviations and Median Absolute Deviation (M.A.D.) to estimate dispersion about these averages. The use of multiple averages and multiple measures of dispersion has the potential to lead to confusion. This note is intended to explain the rationale behind the choice of statistics used. **As a guideline, we have chosen means and standard deviations to describe within laboratory measures and the median and M.A.D. to describe between laboratory measures.**

Why did we decide this?

This decision is based upon the assumption that within each laboratory there measurement process is "in-control." If one of the triplicate determinations was very different from the other results, it would likely be discarded as an outlier and the sample tested again. Additionally, laboratories use training, maintenance, calibration and check samples to produce reliable results based on a historical perspective. Because of these two factors, absence of outliers and relative consistency, the assumption is made that the results will be normally distributed. Although in reality this is often not true, it is the conventional practice. Mean and standard deviations provide good estimates of value and dispersion in this case.

On the other hand, we have not made this same "in-control" assumption about the between laboratory comparisons. As a result, we have chosen more robust estimators of value and dispersion. In many cases, the median will be less affected by outliers than the mean when dealing with a small number of measurements. Similarly, the average difference and the M.A.D. will often yield more accurate estimates of dispersion than the standard deviation when dealing with a "flawed sample." Here the term flawed sample refers to a group of measurements that differs from the idealized normal distribution. Moreover, the M.A.D. will also make the dispersion estimate less susceptible to outliers than the use of standard deviations. Unlike the M.A.D., a standard deviation emphasizes larger deviations by the squaring of the difference.



The choice of statistics used is not the only choice that may be made, nor were the presented statistics the only ones calculated for the Demonstration Round. CTS, in conjunction with Dr. Miller, chose the measures used in the report based on the utility the measures provide to the participants. We will continue to evaluate our statistical choices and make changes to provide the best tools for evaluating your laboratory's measurement performance. However we will balance this need with our ongoing commitment to simplicity of interpretation.



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

Saturated Paste Moisture (SubTestCode 101) in the Salinity Property Groups															Data units: Percent		
	SRS1401			SRS1402			SRS1403			SRS1404			SRS1405				
XQ6Y6J	43.1	0.1	0.1	31.9	0.5	0.0	25.0	-0.3	0.9	31.3	0.0	1.3	29.6	-0.7	0.1		
		0.4	0.2		1.9	0.0		-1.0	1.0		-0.1	1.3		-3.4	0.1		
X8RE9F	37.0	-1.0	0.4	26.2	-0.9	0.1	22.2	-1.2	0.2	30.7	-0.2	0.1	27.6	-1.2	0.1		
		-5.6	0.5		-3.8	0.2		-3.8	0.3		-0.7	0.1		-5.4	0.1		
MM2LUN	49.9	1.3	2.2	30.3	0.1	0.8	26.6	0.2	0.6	29.7	-0.4	0.1	39.9	1.5	3.0		
		7.3	3.1		0.3	0.9		0.6	0.7		-1.7	0.1		6.9	6.1		
KKY4HM	42.7	0.0	0.4	31.7	0.4	0.6	26.0	0.0	0.0	34.7	0.7	0.6	33.3	0.1	0.3		
		0.0	0.6		1.7	0.6		0.0	0.0		3.2	0.6		0.3	0.6		
LEBJDL	49.6	1.3	3.3	34.7	1.2	2.0	29.3	1.0	3.3	34.9	0.8	1.0	39.6	1.4	1.4		
		6.9	4.6		4.7	2.1		3.3	3.7		3.4	1.0		6.6	2.9		
VFBYEB	38.2	-0.8	0.2	29.0	-0.2	0.1	25.6	-0.1	0.1	30.7	-0.2	0.1	32.1	-0.2	0.1		
		-4.5	0.3		-1.0	0.1		-0.4	0.1		-0.7	0.1		-0.9	0.2		
8JTXZT	41.7	-0.2	0.9	28.2	-0.4	0.6	26.4	0.1	0.7	30.2	-0.3	1.0	32.3	-0.2	1.5		
		-0.9	1.2		-1.8	0.7		0.4	0.8		-1.3	1.1		-0.7	3.0		
P7RC69	47.7	0.9	0.6	34.9	1.2	0.8	31.5	1.7	1.6	33.7	0.5	1.2	37.5	1.0	2.0		
		5.0	0.9		4.9	0.8		5.5	1.9		2.2	1.3		4.5	4.1		
C3CKCJ	43.7	0.2	0.8	32.0	0.5	1.0	29.0	0.9		34.7	0.7	0.6	36.0	0.6	1.3		
		1.0	1.2		2.0	1.0		3.0	0.0		3.2	0.6		3.0	2.6		
T3CD22	39.6	-0.6	0.2	29.4	-0.1	0.7	22.8	-1.0	0.4	28.0	-0.8	1.6	29.6	-0.7	0.6		
		-3.0	0.3		-0.6	0.8		-3.2	0.4		-3.5	1.7		-3.4	1.3		
3AXLEP	39.7	-0.6	0.4	27.7	-0.6	0.6	23.7	-0.7	0.5	29.7	-0.4	1.1	29.3	-0.8	0.3		
		-3.0	0.6		-2.3	0.6		-2.3	0.6		-1.8	1.2		-3.7	0.6		
RXKMFY	43.5	0.2	0.9	28.4	-0.4	0.8	25.1	-0.3	0.2	31.5	0.0	1.6	28.8	-0.9	0.1		
		0.8	1.3		-1.6	0.8		-0.9	0.2		0.1	1.6		-4.2	0.2		
XBN6AL	33.8	-1.6	0.6	25.6	-1.1	3.3	21.0	-1.6	0.8	26.0	-1.2	1.0	23.9	-1.9	0.9		
		-8.9	0.8		-4.4	3.4		-5.0	0.9		-5.4	1.0		-9.1	1.7		
FWAPXZ	44.3	0.3	0.4	33.3	0.8	0.6	30.0	1.3	0.9	39.0	1.7	2.6	35.7	0.6	0.3		
		1.7	0.6		3.3	0.6		4.0	1.0		7.6	2.6		2.7	0.6		
QWWVMG	40.0	-0.5		24.0	-1.5		25.0	-0.3		29.0	-0.5		33.0	0.0			
		-2.7	0.0		-6.0	0.0		-1.0	0.0		-2.4	0.0		0.0	0.0		
99PAHV	38.5	-0.8	0.4	29.2	-0.2	0.7	23.4	-0.8	0.4	29.5	-0.4	0.5	28.3	-1.0	0.2		
		-4.2	0.5		-0.8	0.8		-2.6	0.5		-1.9	0.5		-4.7	0.4		
2Y3ZTZ	42.0	-0.1	1.2	30.0	0.0	1.0	25.3	-0.2	0.5	31.7	0.1	0.6	31.3	-0.4	0.8		
		-0.7	1.7		0.0	1.0		-0.7	0.6		0.2	0.6		-1.7	1.5		
D6PWDR	41.3	-0.2	0.4	28.3	-0.4	0.6	27.0	0.3	0.9	33.3	0.4	0.6	33.0	0.0	0.5		
		-1.3	0.6		-1.7	0.6		1.0	1.0		1.9	0.6		0.0	1.0		
4P7QD2	49.1	1.2	0.2	34.2	1.0	1.0	27.8	0.6	0.4	34.4	0.7	1.0	33.6	0.1	0.5		
		6.4	0.3		4.2	1.0		1.8	0.4		3.0	1.0		0.6	1.0		
PZEKPF	44.5	0.3		31.6	0.4		26.1	0.0		31.4	0.0		33.4	0.1			
		1.8	0.0		1.6	0.0		0.1	0.0		0.0	0.0		0.4	0.0		



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	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		
JUBP4K	57.2	2.7		39.4	2.3		31.7	1.8		53.1	4.9		39.1	1.3	
		14.5	0.0		9.4	0.0		5.7	0.0		21.7	0.0		6.1	0.0
4872WX	40.7	-0.4	0.3	28.8	-0.3	0.5	23.8	-0.7	0.8	31.4	0.0	0.7	29.2	-0.8	0.3
		-1.9	0.5		-1.2	0.6		-2.2	1.0		0.0	0.8		-3.8	0.6
6V7P2W	44.3	0.3	1.2	33.4	0.9	0.6	26.7	0.2	2.0	34.4	0.7	0.7	33.6	0.1	1.0
		1.6	1.7		3.4	0.6		0.7	2.3		3.0	0.8		0.6	2.1
Grand Median		42.7			30.0			26.0			31.4			33.0	
Median Abs Dev		2.7			1.9			1.8			1.9			3.4	
Avg Within Lab SD		1.4			1.0			1.1			1.0			2.0	
Labs Included		23			23			23			23			23	
Labs Reporting		23			23			23			23			23	



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

pH - sp (SubTestCode 102)	in the Salinity Property Groups												Data units: Unit		
	SRS1401			SRS1402			SRS1403			SRS1404			SRS1405		
X8RE9F	6.52	-0.28	0.86	5.27	-0.14	0.66	5.94	-0.26	1.05	6.87	0.18	1.08	6.73	-0.18	0.53
		-0.10	0.05		-0.06	0.05		-0.08	0.06		0.05	0.05		-0.06	0.03
MM2LUN	6.95	0.95	0.67	5.47	0.34	0.06	6.13	0.36	0.09	6.89	0.25	0.77	6.96	0.50	0.61
		0.33	0.04		0.14	0.01		0.11	0.01		0.07	0.04		0.17	0.04
KKY4HM	6.62	0.00	0.19	5.28	-0.12	0.07	5.97	-0.16	0.11	6.74	-0.30	0.13	6.57	-0.67	0.00
		0.00	0.01		-0.05	0.01		-0.05	0.01		-0.08	0.01		-0.22	0.00
LEBJDL	6.73	0.33	1.59	5.40	0.18	0.78	6.17	0.51	1.26	6.94	0.47	1.58	6.93	0.42	1.56
		0.11	0.08		0.07	0.06		0.16	0.07		0.12	0.07		0.14	0.09
VFBYEB	6.62	0.00	0.50	5.25	-0.18	0.07	5.99	-0.10	0.28	6.79	-0.12	0.22	6.70	-0.26	0.10
		0.00	0.03		-0.07	0.01		-0.03	0.02		-0.03	0.01		-0.09	0.01
8JTXZT	6.38	-0.71	0.94	5.04	-0.71	0.50	5.85	-0.54	2.03	6.53	-1.13	0.95	6.62	-0.50	1.13
		-0.24	0.05		-0.29	0.04		-0.16	0.11		-0.29	0.04		-0.17	0.06
P7RC69	6.77	0.43	1.10	5.53	0.51	4.01	6.07	0.16	1.07	6.77	-0.21	1.26	6.90	0.33	0.00
		0.15	0.06		0.21	0.32		0.05	0.06		-0.05	0.06		0.11	0.00
C3CKCJ	6.63	0.02	0.11	5.33	0.00	0.19	6.07	0.19	1.09	6.83	0.04	0.79	6.71	-0.24	0.93
		0.01	0.01		0.00	0.02		0.06	0.06		0.01	0.04		-0.08	0.05
T3CD22	6.62	0.00	0.87	5.42	0.24	0.19	6.02	0.00	0.28	6.82	0.00	1.79	7.01	0.66	0.44
		0.00	0.05		0.10	0.02		0.00	0.02		0.00	0.08		0.22	0.03
3AXLEP	6.55	-0.19	0.11	5.15	-0.44	0.19	5.91	-0.35	0.67	6.64	-0.69	0.25	6.93	0.41	1.27
		-0.07	0.01		-0.18	0.02		-0.11	0.04		-0.18	0.01		0.14	0.07
4NTEEW	6.51	-0.32	1.37	5.10	-0.55	0.26	5.91	-0.36	0.77	6.75	-0.29	0.33	6.74	-0.15	2.48
		-0.11	0.07		-0.22	0.02		-0.11	0.04		-0.07	0.02		-0.05	0.14
XBN6AL	6.60	-0.07	1.08	5.14	-0.45	0.19	5.86	-0.51	0.49	6.65	-0.68	0.13	6.79	0.00	1.67
		-0.02	0.06		-0.18	0.02		-0.16	0.03		-0.17	0.01		0.00	0.10
FWAPXZ	6.38	-0.70	0.87	5.13	-0.48	0.43	5.94	-0.26	1.17	6.59	-0.91	0.13	6.52	-0.83	1.47
		-0.24	0.05		-0.20	0.03		-0.08	0.06		-0.23	0.01		-0.27	0.08
QWWVMG	7.30	1.98		6.40	2.64		7.10	3.55		7.60	3.05		7.60	2.45	
		0.68	0.00		1.07	0.00		1.08	0.00		0.78	0.00		0.81	0.00
99PAHV	7.08	1.34	1.63	5.51	0.44	1.44	6.19	0.58	0.31	6.96	0.53	2.41	7.04	0.77	0.66
		0.46	0.09		0.18	0.12		0.18	0.02		0.14	0.11		0.25	0.04
2Y3ZTZ	6.38	-0.71	0.40	5.23	-0.25	0.63	5.94	-0.24	1.43	6.67	-0.57	0.25	6.66	-0.38	0.54
		-0.24	0.02		-0.10	0.05		-0.07	0.08		-0.15	0.01		-0.13	0.03
4X72UR	6.88	0.77	2.98	5.57	0.61	1.26	6.27	0.84	2.35	6.98	0.64	2.02	6.97	0.54	1.56
		0.26	0.16		0.25	0.10		0.26	0.13		0.16	0.09		0.18	0.09
D6PWDR	6.64	0.05	0.29	5.38	0.13	0.45	6.09	0.23	0.11	6.86	0.17	0.46	6.79	0.00	0.18
		0.02	0.02		0.05	0.04		0.07	0.01		0.04	0.02		0.00	0.01
4P7QD2	6.37	-0.73	0.19	5.07	-0.62	0.07	5.79	-0.74	0.18	6.57	-0.99	0.25	6.58	-0.63	0.27
		-0.25	0.01		-0.25	0.01		-0.23	0.01		-0.25	0.01		-0.21	0.02
PZEKPF	6.74	0.35		5.43	0.25		6.05	0.11		6.89	0.27		6.93	0.42	
		0.12	0.00		0.10	0.00		0.03	0.00		0.07	0.00		0.14	0.00



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	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		
JUBP4K	7.09	1.37		6.45	2.76		6.51	1.62		6.92	0.39		7.10	0.94	
		0.47	0.00		1.12	0.00		0.49	0.00		0.10	0.00		0.31	0.00
4872WX	8.02	4.06	0.11	6.73	3.44	0.85	7.15	3.72	0.85	7.60	3.06	0.83	8.03	3.74	0.96
		1.40	0.01		1.40	0.07		1.13	0.05		0.78	0.04		1.24	0.06
6V7P2W	6.56	-0.17	0.69	5.32	-0.02	0.50	5.98	-0.11	1.61	6.68	-0.56	1.10	6.63	-0.47	0.83
		-0.06	0.04		-0.01	0.04		-0.03	0.09		-0.14	0.05		-0.16	0.05
Grand Median		6.62			5.33			6.02			6.82			6.79	
Median Abs Dev		0.12			0.18			0.11			0.12			0.16	
Avg Within Lab SD		0.05			0.08			0.05			0.05			0.06	
Labs Included		23			23			23			23			23	
Labs Reporting		23			23			23			23			23	



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

ECe - sp (SubTestCode 103)	in the Salinity Property Groups															Data units: dS/m
	SRS1401			SRS1402			SRS1403			SRS1404			SRS1405			
XQ6Y6J	0.51	-0.28	0.42	1.66	-0.47	0.40	0.99	-0.47	2.07	1.41	-0.38	1.31	1.77	-0.10	1.50	
		-0.04	0.02		-0.18	0.10		-0.06	0.11		-0.08	0.11		-0.04	0.17	
X8RE9F	0.60	0.33	0.66	2.32	1.28	1.17	1.18	1.04	0.66	1.46	-0.14	0.20	2.79	2.30	0.50	
		0.05	0.03		0.48	0.29		0.14	0.04		-0.03	0.02		0.98	0.06	
MM2LUN	0.40	-0.99	0.01	1.84	0.00	0.04	0.98	-0.52	0.75	1.46	-0.15	0.60	1.88	0.15	1.31	
		-0.15	0.00		0.00	0.01		-0.07	0.04		-0.03	0.05		0.06	0.15	
KKY4HM	0.54	-0.09	0.42	1.92	0.20	0.27	1.05	0.00	0.10	1.45	-0.19	0.52	2.14	0.75	0.71	
		-0.01	0.02		0.08	0.07		0.00	0.01		-0.04	0.04		0.32	0.08	
LEBJDL	0.53	-0.11	0.91	1.81	-0.09	0.41	0.99	-0.46	2.14	1.52	0.13	0.30	1.79	-0.07	1.53	
		-0.02	0.05		-0.03	0.10		-0.06	0.12		0.03	0.03		-0.03	0.18	
VFBYEB	0.44	-0.73	0.20	1.70	-0.37	0.04	0.90	-1.10	0.10	1.30	-0.85	0.07	1.60	-0.51	0.00	
		-0.11	0.01		-0.14	0.01		-0.14	0.01		-0.19	0.01		-0.22	0.00	
8JTXZT	0.61	0.37	0.84	1.88	0.12	0.39	1.00	-0.33	1.46	1.60	0.48	0.95	1.77	-0.10	1.41	
		0.06	0.04		0.04	0.10		-0.04	0.08		0.11	0.08		-0.04	0.16	
P7RC69	0.38	-1.11	0.65	1.29	-1.47	0.97	0.82	-1.71	0.73	1.27	-1.00	0.32	1.21	-1.44	0.92	
		-0.17	0.03		-0.55	0.24		-0.22	0.04		-0.22	0.03		-0.61	0.11	
C3CKCJ	0.52	-0.18	0.95	1.74	-0.27	0.04	0.92	-0.97	1.06	1.43	-0.31	0.18	1.80	-0.03	1.18	
		-0.03	0.05		-0.10	0.01		-0.13	0.06		-0.07	0.01		-0.01	0.14	
T3CD22	0.51	-0.25	0.42	1.73	-0.28	0.06	1.05	0.00	0.38	1.49	0.00	0.18	1.71	-0.24	0.62	
		-0.04	0.02		-0.11	0.02		0.00	0.02		0.00	0.02		-0.10	0.07	
3AXLEP	0.50	-0.33	0.53	2.06	0.59	0.13	1.19	1.07	0.58	1.58	0.40	0.30	1.86	0.11	0.55	
		-0.05	0.03		0.22	0.03		0.14	0.03		0.09	0.03		0.05	0.06	
RXKMFY	0.60	0.33	0.41	2.19	0.94	0.06	1.10	0.40	0.26	1.65	0.69	0.67	2.25	1.02	0.92	
		0.05	0.02		0.35	0.02		0.05	0.01		0.15	0.06		0.43	0.11	
4NTEEW	0.56	0.04	1.68	1.69	-0.41	1.05	1.03	-0.13	0.18	1.24	-1.12	3.27	1.61	-0.48	0.96	
		0.01	0.08		-0.15	0.26		-0.02	0.01		-0.25	0.27		-0.20	0.11	
XBN6AL	1.48	6.15	3.40	1.62	-0.59	1.34	1.00	-0.37	2.16	1.07	-1.91	1.68	0.72	-2.59	0.15	
		0.93	0.17		-0.22	0.34		-0.05	0.12		-0.43	0.14		-1.10	0.02	
FWAPXZ	0.55	0.02	0.51	1.71	-0.34	0.13	0.90	-1.15	0.38	1.32	-0.76	0.18	1.82	0.00	0.33	
		0.00	0.03		-0.13	0.03		-0.15	0.02		-0.17	0.02		0.00	0.04	
QWWVMG	0.64	0.59		1.40	-1.17		1.10	0.41		1.50	0.03		1.90	0.20		
		0.09	0.00		-0.44	0.00		0.05	0.00		0.01	0.00		0.08	0.00	
99PAHV	0.66	0.75	0.94	1.87	0.08	0.15	1.29	1.85	0.88	1.77	1.23	1.23	1.72	-0.23	0.88	
		0.11	0.05		0.03	0.04		0.24	0.05		0.27	0.10		-0.10	0.10	
2Y3ZTZ	0.62	0.47	0.28	1.99	0.41	0.24	1.11	0.51	0.28	1.63	0.60	0.28	2.20	0.90	0.69	
		0.07	0.01		0.15	0.06		0.07	0.02		0.13	0.02		0.38	0.08	
4X72UR	0.55	0.00	1.57	3.08	3.29	4.29	1.11	0.50	1.27	1.64	0.64	1.00	2.55	1.72	1.12	
		0.00	0.08		1.24	1.08		0.07	0.07		0.14	0.08		0.73	0.13	
D6PWDR	0.64	0.58	0.05	2.01	0.45	0.36	1.08	0.26	0.50	1.63	0.62	0.61	2.12	0.70	0.31	
		0.09	0.00		0.17	0.09		0.03	0.03		0.14	0.05		0.30	0.04	



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	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		
4P7QD2	0.67	0.77	1.03	2.03	0.51	0.12	1.17	0.95	0.18	1.70	0.93	0.24	2.15	0.79	0.45
		0.12	0.05		0.19	0.03		0.12	0.01		0.21	0.02		0.34	0.05
PZEKPF	0.52	-0.20		2.02	0.48		1.19	1.10		1.87	1.69		2.00	0.43	
		-0.03	0.00		0.18	0.00		0.14	0.00		0.38	0.00		0.18	0.00
JUBP4K	0.39	-1.05		1.24	-1.60		1.05	0.03		1.35	-0.64		1.41	-0.96	
		-0.16	0.00		-0.60	0.00		0.00	0.00		-0.14	0.00		-0.41	0.00
4872WX	0.41	-0.90	0.68	1.42	-1.11	0.64	0.97	-0.59	0.69	1.24	-1.12	0.30	1.69	-0.30	0.09
		-0.14	0.03		-0.42	0.16		-0.08	0.04		-0.25	0.03		-0.13	0.01
6V7P2W	0.59	0.26	1.06	1.97	0.34	0.37	1.17	0.94	1.63	1.67	0.81	2.06	2.13	0.74	2.88
		0.04	0.05		0.13	0.09		0.12	0.09		0.18	0.17		0.31	0.33
Grand Median		0.55			1.84			1.05			1.49			1.82	
Median Abs Dev		0.05			0.17			0.07			0.14			0.20	
Avg Within Lab SD		0.05			0.25			0.06			0.08			0.11	
Labs Included		25			25			25			25			25	
Labs Reporting		25			25			25			25			25	



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

HCO3 -sp (SubTestCode 104)	in the Salinity Property Groups												Data units: mmolc/L		
	SRS1401			SRS1402			SRS1403			SRS1404			SRS1405		
XQ6Y6J	3.16	1.19	0.65	0.80	0.41	0.91	1.01	0.25	1.64	1.70	0.72	2.32	7.27	1.78	1.75
		1.66	0.20		0.20	0.07		0.15	0.22		0.50	0.38		4.66	0.47
MM2LUN	1.51	0.00	0.53	0.33	-0.54	0.00	0.33	-0.92	0.00	0.33	-1.23	0.00	4.01	0.53	1.24
		0.00	0.16		-0.27	0.00		-0.53	0.00		-0.87	0.00		1.39	0.33
KKY4HM	1.06	-0.32	0.08	0.05	-1.12		0.04	-1.42	0.10	0.39	-1.16	0.31	2.73	0.04	0.42
		-0.44	0.02		-0.55	0.00		-0.83	0.01		-0.81	0.05		0.11	0.11
LEBJDL	0.70	-0.58	0.26	0.32	-0.58	0.46	0.39	-0.82	0.37	0.60	-0.85	0.00	1.20	-0.54	0.53
		-0.81	0.08		-0.28	0.04		-0.47	0.05		-0.60	0.00		-1.41	0.14
VFBYEB	3.10	1.15	0.16	1.15	1.11	0.08	1.25	0.67	0.04	1.65	0.64	0.06	1.61	-0.38	0.04
		1.60	0.05		0.55	0.01		0.39	0.01		0.45	0.01		-1.00	0.01
8JTXZT	1.40	-0.07	0.65	0.80	0.41	2.64	0.80	-0.11	1.49	1.07	-0.19	0.71	2.13	-0.18	0.86
		-0.10	0.20		0.20	0.20		-0.07	0.20		-0.13	0.12		-0.48	0.23
3AXLEP	4.40	2.08	2.60	0.40	-0.41	0.00	0.93	0.11	1.72	1.33	0.19	1.41	7.60	1.90	1.49
		2.90	0.80		-0.20	0.00		0.07	0.23		0.13	0.23		4.99	0.40
QWWVMG	1.50	0.00		1.00	0.82		1.50	1.09		1.50	0.43		2.50	-0.04	
		0.00	0.00		0.40	0.00		0.63	0.00		0.30	0.00		-0.11	0.00
Grand Median		1.50			0.60			0.87			1.20			2.61	
Median Abs Dev		0.63			0.27			0.43			0.48			1.20	
Avg Within Lab SD		0.31			0.08			0.13			0.16			0.27	
Labs Included		8			8			8			8			8	
Labs Reporting		8			8			8			8			8	



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

Ca - sp (SubTestCode 105)	in the Salinity Property Groups															Data units: mmolc/L
	SRS1401			SRS1402			SRS1403			SRS1404			SRS1405			
XQ6Y6J	3.8	0.0	0.2	11.3	0.1	0.9	6.5	1.5	0.5	12.1	0.7	0.3	6.2	1.0	0.4	
		0.0	0.1		0.2	0.7		1.1	0.2		1.1	0.2		1.0	0.1	
MM2LUN	3.3	-0.7	0.1	11.2	0.0	0.0	5.5	0.1	0.4	10.3	-0.4	0.6	5.0	-0.1	0.4	
		-0.5	0.0		0.1	0.0		0.1	0.2		-0.7	0.3		-0.1	0.1	
KKY4HM	3.8	0.0	0.7	12.1	0.5	0.4	6.1	0.9	0.8	11.7	0.4	0.9	6.5	1.4	0.1	
		0.0	0.3		1.0	0.3		0.7	0.3		0.6	0.5		1.4	0.0	
LEBJDL	3.3	-0.7	0.7	9.4	-0.9	0.6	4.8	-0.7	1.4	9.7	-0.8	0.4	4.9	-0.3	2.5	
		-0.5	0.3		-1.6	0.4		-0.5	0.6		-1.3	0.2		-0.3	0.7	
VFBYEB	3.7	-0.2	0.1	10.2	-0.5	0.1	4.8	-0.8	0.1	9.5	-0.9	0.0	5.0	-0.2	0.0	
		-0.1	0.1		-0.9	0.1		-0.6	0.0		-1.5	0.0		-0.2	0.0	
8JTXZT	4.4	1.0	0.4	11.3	0.1	0.6	5.4	0.0	1.0	11.7	0.4	1.0	5.0	-0.2	1.2	
		0.6	0.2		0.2	0.5		0.0	0.4		0.6	0.5		-0.2	0.3	
P7RC69	2.9	-1.3	0.3	8.3	-1.5	0.8	4.2	-1.6	0.6	9.2	-1.2	1.1	4.0	-1.2	0.4	
		-0.9	0.1		-2.8	0.6		-1.2	0.3		-1.9	0.6		-1.2	0.1	
C3CKCJ	3.7	-0.1	0.3	10.4	-0.4	0.6	4.8	-0.8	0.1	10.2	-0.5	0.3	4.9	-0.3	0.6	
		-0.1	0.1		-0.7	0.5		-0.6	0.0		-0.8	0.2		-0.3	0.2	
T3CD22	3.6	-0.3	0.0	10.4	-0.4	0.1	5.4	0.0	0.1	11.2	0.1	0.6	5.1	-0.1	0.1	
		-0.2	0.0		-0.7	0.1		0.0	0.0		0.2	0.3		-0.1	0.0	
3AXLEP	3.5	-0.5	0.4	12.7	0.9	0.2	6.5	1.5	0.2	11.8	0.5	0.3	6.0	0.8	0.3	
		-0.3	0.2		1.6	0.2		1.1	0.1		0.8	0.2		0.8	0.1	
GRVM9A	4.5	1.1		13.6	1.3		6.8	1.9		13.2	1.4		7.4	2.2		
		0.7	0.0		2.5	0.0		1.4	0.0		2.2	0.0		2.2	0.0	
RXKMFY	3.6	-0.3	0.3	11.0	0.0	0.1	5.0	-0.4	0.2	10.5	-0.3	0.7	5.3	0.1	1.1	
		-0.2	0.1		-0.1	0.1		-0.3	0.1		-0.5	0.4		0.1	0.3	
XBN6AL	3.2	-0.9	0.7	9.8	-0.7	1.6	5.2	-0.2	1.8	11.6	0.4	1.2	4.8	-0.4	0.1	
		-0.6	0.3		-1.3	1.2		-0.2	0.8		0.6	0.6		-0.4	0.0	
FWAPXZ	4.3	0.8	0.8	11.8	0.4	0.3	5.5	0.2	0.3	10.8	-0.1	0.0	5.6	0.4	0.6	
		0.5	0.3		0.7	0.2		0.1	0.1		-0.2	0.0		0.4	0.2	
QWWVMG	3.8	0.0		7.9	-1.7		5.2	-0.2		10.3	-0.5		4.9	-0.3		
		0.0	0.0		-3.2	0.0		-0.2	0.0		-0.7	0.0		-0.3	0.0	
99PAHV	3.8	0.1	0.7	9.9	-0.6	1.6	5.3	-0.1	0.6	10.1	-0.6	1.2	5.4	0.2	0.9	
		0.1	0.3		-1.2	1.2		0.0	0.3		-0.9	0.6		0.2	0.3	
2Y3ZTZ	4.5	1.0	0.4	11.8	0.4	0.3	6.1	1.0	0.5	11.8	0.5	1.0	6.1	1.0	1.1	
		0.7	0.2		0.7	0.2		0.7	0.2		0.8	0.5		1.0	0.3	
4X72UR	5.0	1.9	4.2	13.5	1.3	3.3	5.5	0.2	3.7	12.4	0.9	3.0	7.0	1.8	1.4	
		1.3	1.7		2.5	2.5		0.1	1.6		1.4	1.6		1.8	0.4	
D6PWDR	4.8	1.5	0.2	12.5	0.7	1.1	6.0	0.9	0.8	11.9	0.5	0.7	5.9	0.7	0.2	
		1.0	0.1		1.4	0.8		0.6	0.3		0.8	0.4		0.7	0.1	
4P7QD2	4.0	0.3	0.9	10.3	-0.4	0.5	5.2	-0.2	0.6	10.5	-0.4	0.3	5.0	-0.2	0.9	
		0.2	0.4		-0.8	0.4		-0.2	0.3		-0.6	0.2		-0.2	0.3	



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ALP Program - Participant Web Summary Report - Cycle 23															
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		
PZEKPF	3.8	0.0		11.3	0.1		6.2	1.2		12.8	1.2		5.7	0.6	
		0.0	0.0		0.2	0.0		0.9	0.0		1.8	0.0		0.6	0.0
JUBP4K	2.8	-1.4		7.9	-1.7		5.3	-0.2		9.1	-1.3		3.9	-1.3	
		-1.0	0.0		-3.2	0.0		-0.1	0.0		-2.0	0.0		-1.3	0.0
4872WX	3.1	-1.0	0.6	8.2	-1.5	1.5	5.1	-0.4	0.3	8.8	-1.4	0.3	5.0	-0.2	0.1
		-0.6	0.2		-2.9	1.1		-0.3	0.1		-2.3	0.2		-0.2	0.0
6V7P2W	4.4	0.9	1.3	11.5	0.2	1.3	6.3	1.2	1.1	12.3	0.8	2.4	6.3	1.1	3.0
		0.6	0.5		0.4	1.0		0.9	0.5		1.3	1.3		1.1	0.8
Grand Median		3.79			11.1			5.38			11.0			5.19	
Median Abs Dev		0.49			1.0			0.44			0.8			0.44	
Avg Within Lab SD		0.40			0.8			0.45			0.5			0.29	
Labs Included		24			24			24			24			24	
Labs Reporting		24			24			24			24			24	



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

Mg - sp (SubTestCode 106)			in the Salinity Property Groups												Data units: mmolc/L		
SRS1401			SRS1402			SRS1403			SRS1404			SRS1405					
XQ6Y6J	0.79	-0.69	0.02	5.18	0.15	0.97	2.98	0.89	0.55	3.42	0.26	0.25	10.61	1.13	0.41		
		-0.12	0.00		0.16	0.27		0.42	0.11		0.15	0.03		2.06	0.20		
MM2LUN	0.84	-0.44	0.16	4.90	-0.11	0.08	2.48	-0.16	0.29	2.99	-0.50	0.48	8.21	-0.18	0.16		
		-0.07	0.03		-0.12	0.02		-0.08	0.06		-0.28	0.06		-0.34	0.08		
KKY4HM	0.85	-0.38	0.44	5.13	0.11	0.74	2.63	0.17	0.70	3.26	0.00	1.31	9.96	0.77	0.92		
		-0.06	0.07		0.12	0.21		0.08	0.14		0.00	0.17		1.41	0.45		
LEBJDL	0.92	0.05	0.16	4.39	-0.57	0.79	2.44	-0.23	1.56	3.10	-0.29	0.51	7.44	-0.61	2.24		
		0.01	0.03		-0.62	0.22		-0.11	0.31		-0.16	0.07		-1.11	1.09		
VFBYEB	0.93	0.11	0.10	4.84	-0.16	0.04	2.25	-0.64	0.05	2.92	-0.61	0.19	8.19	-0.20	0.03		
		0.02	0.02		-0.17	0.01		-0.31	0.01		-0.34	0.03		-0.36	0.02		
8JTXZT	0.97	0.32	0.34	5.33	0.30	1.09	2.57	0.02	1.18	3.53	0.47	1.58	8.53	-0.01	1.21		
		0.05	0.06		0.32	0.31		0.01	0.23		0.27	0.21		-0.02	0.59		
P7RC69	0.68	-1.38	0.57	3.65	-1.26	0.82	1.78	-1.62	0.53	2.64	-1.12	1.12	6.06	-1.37	0.13		
		-0.24	0.10		-1.36	0.23		-0.77	0.10		-0.63	0.15		-2.49	0.06		
C3CKCJ	0.77	-0.85	0.18	4.70	-0.29	0.56	2.17	-0.82	0.08	2.97	-0.54	0.57	8.26	-0.16	0.85		
		-0.15	0.03		-0.31	0.16		-0.39	0.02		-0.30	0.08		-0.29	0.42		
T3CD22	1.39	2.81	0.06	5.15	0.13	0.02	2.77	0.46	0.06	3.53	0.47	0.12	8.24	-0.17	0.04		
		0.48	0.01		0.14	0.01		0.22	0.01		0.27	0.02		-0.31	0.02		
3AXLEP	0.90	-0.07	0.00	5.70	0.64	0.72	3.00	0.93	0.51	3.50	0.42	0.76	9.00	0.25	0.62		
		-0.01	0.00		0.69	0.20		0.45	0.10		0.23	0.10		0.45	0.30		
GRVM9A	1.30	2.28		7.13	1.96		3.58	2.15		4.57	2.32		13.29	2.60			
		0.39	0.00		2.12	0.00		1.03	0.00		1.30	0.00		4.74	0.00		
RXKMFY	0.92	0.07	0.22	6.82	1.68	0.31	3.02	0.98	0.46	3.88	1.10	1.41	9.76	0.66	1.23		
		0.01	0.04		1.81	0.09		0.47	0.09		0.62	0.19		1.21	0.60		
XBN6AL	0.69	-1.28	0.38	4.70	-0.29	1.62	2.50	-0.11	2.02	3.36	0.16	1.20	8.56	0.01	0.20		
		-0.22	0.07		-0.31	0.45		-0.05	0.40		0.09	0.16		0.02	0.10		
FWAPXZ	1.09	1.07	0.77	5.89	0.81	0.70	2.80	0.51	0.18	3.38	0.20	0.66	10.17	0.89	0.77		
		0.18	0.13		0.87	0.20		0.25	0.03		0.11	0.09		1.62	0.38		
QWWVMG	0.90	-0.07		3.50	-1.40		2.60	0.09		3.10	-0.30		7.40	-0.63			
		-0.01	0.00		-1.51	0.00		0.05	0.00		-0.17	0.00		-1.15	0.00		
99PAHV	0.90	-0.05	0.85	4.51	-0.47	2.55	2.47	-0.17	0.56	2.96	-0.54	1.32	8.81	0.14	0.85		
		-0.01	0.14		-0.51	0.71		-0.08	0.11		-0.30	0.17		0.26	0.41		
2Y3ZTZ	0.93	0.12	0.28	5.21	0.18	0.45	2.69	0.28	0.24	3.29	0.04	0.62	10.23	0.92	1.02		
		0.02	0.05		0.20	0.13		0.13	0.05		0.02	0.08		1.68	0.50		
4X72UR	0.92	0.05	4.61	3.41	-1.48	1.83	1.17	-2.92	3.47	2.08	-2.11	2.17	6.76	-0.98	0.42		
		0.01	0.78		-1.60	0.51		-1.39	0.68		-1.18	0.29		-1.79	0.20		
D6PWDR	0.92	0.07	0.07	5.48	0.43	0.62	2.54	-0.02	0.63	3.27	0.00	0.80	9.43	0.48	0.58		
		0.01	0.01		0.46	0.17		-0.01	0.12		0.00	0.11		0.88	0.28		
4P7QD2	1.02	0.63	0.43	4.49	-0.48	0.69	2.41	-0.31	0.60	3.01	-0.46	0.82	8.36	-0.10	0.40		
		0.11	0.07		-0.52	0.19		-0.15	0.12		-0.26	0.11		-0.19	0.19		



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	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		
PZEKPF	0.88	-0.18		5.33	0.29		2.95	0.82		3.90	1.13		9.71	0.64	
		-0.03	0.00		0.31	0.00		0.39	0.00		0.63	0.00		1.16	0.00
JUBP4K	0.68	-1.36		3.63	-1.28		2.36	-0.41		2.75	-0.92		5.64	-1.59	
		-0.23	0.00		-1.38	0.00		-0.20	0.00		-0.52	0.00		-2.91	0.00
4872WX	0.70	-1.27	0.28	3.74	-1.18	1.92	2.30	-0.54	0.38	2.54	-1.29	0.49	8.14	-0.22	0.21
		-0.22	0.05		-1.28	0.54		-0.26	0.08		-0.72	0.07		-0.41	0.10
6V7P2W	1.01	0.60	0.46	5.58	0.53	1.17	2.99	0.92	1.04	3.78	0.92	2.18	11.27	1.49	3.28
		0.10	0.08		0.57	0.33		0.44	0.20		0.51	0.29		2.72	1.59
Grand Median		0.91			5.01			2.56			3.27			8.55	
Median Abs Dev		0.07			0.51			0.23			0.27			1.13	
Avg Within Lab SD		0.17			0.28			0.20			0.13			0.49	
Labs Included		24			24			24			24			24	
Labs Reporting		24			24			24			24			24	



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

Na - sp (SubTestCode 107)	in the Salinity Property Groups															Data units: mmolc/L
	SRS1401			SRS1402			SRS1403			SRS1404			SRS1405			
XQ6Y6J	0.42	0.02	0.33	0.64	0.04	0.44	0.27	0.05	0.29	0.32	0.00	0.28	4.58	0.56	0.60	
		0.00	0.04		0.01	0.07		0.01	0.03		0.00	0.03		0.43	0.10	
MM2LUN	0.42	0.00	0.09	0.74	0.43	0.10	0.34	0.35	0.35	0.35	0.16	0.16	3.86	-0.37	0.05	
		0.00	0.01		0.10	0.02		0.08	0.03		0.04	0.01		-0.28	0.01	
KKY4HM	0.42	0.04	0.29	0.73	0.42	0.16	0.41	0.71	0.08	0.37	0.21	0.14	5.12	1.25	0.56	
		0.01	0.03		0.10	0.03		0.15	0.01		0.05	0.01		0.97	0.10	
LEBJDL	0.52	0.57	0.69	0.99	1.50	4.49	0.46	0.91	1.85	0.46	0.64	2.04	3.41	-0.95	2.37	
		0.10	0.07		0.35	0.73		0.20	0.19		0.15	0.19		-0.73	0.41	
VFBYEB	0.40	-0.11	0.05	0.57	-0.28	0.09	0.17	-0.40	0.06	0.30	-0.08	0.00	3.72	-0.55	0.15	
		-0.02	0.01		-0.07	0.02		-0.09	0.01		-0.02	0.00		-0.43	0.03	
8JTXZT	0.50	0.47	0.95	0.87	0.99	1.28	0.37	0.49	0.58	0.53	0.94	1.24	4.10	-0.06	1.54	
		0.08	0.10		0.23	0.21		0.11	0.06		0.22	0.12		-0.05	0.26	
P7RC69	0.48	0.36	2.87	0.54	-0.40	0.09	0.17	-0.43	0.12	0.27	-0.20	0.28	3.02	-1.46	0.08	
		0.06	0.30		-0.09	0.01		-0.09	0.01		-0.05	0.03		-1.13	0.01	
C3CKCJ	0.42	0.00	0.33	0.71	0.33	0.77	0.27	0.03	0.12	0.35	0.14	0.64	4.27	0.15	1.57	
		0.00	0.04		0.08	0.12		0.01	0.01		0.03	0.06		0.12	0.27	
T3CD22	0.34	-0.45	0.05	0.55	-0.35	0.06	0.24	-0.11	0.03	0.30	-0.06	0.06	3.77	-0.49	0.09	
		-0.08	0.01		-0.08	0.01		-0.02	0.00		-0.01	0.01		-0.38	0.02	
3AXLEP	0.40	-0.09	0.00	0.63	0.00	0.35	0.33	0.34	0.58	0.30	-0.08	0.00	4.37	0.28	0.34	
		-0.02	0.00		0.00	0.06		0.07	0.06		-0.02	0.00		0.22	0.06	
GRVM9A	0.44	0.14		0.67	0.16		0.19	-0.32		0.32	0.01		4.96	1.05		
		0.02	0.00		0.04	0.00		-0.07	0.00		0.00	0.00		0.81	0.00	
RXKMFY	0.32	-0.54	0.09	0.50	-0.58	0.04	0.19	-0.31	0.12	0.25	-0.29	0.21	4.79	0.83	0.99	
		-0.10	0.01		-0.14	0.01		-0.07	0.01		-0.07	0.02		0.65	0.17	
XBN6AL	0.30	-0.63	0.08	0.56	-0.31	0.60	0.18	-0.37	0.41	0.24	-0.32	0.12	3.92	-0.30	0.31	
		-0.11	0.01		-0.07	0.10		-0.08	0.04		-0.07	0.01		-0.23	0.05	
FWAPXZ	0.50	0.49	0.81	0.63	0.00	0.20	0.25	-0.03	0.25	0.31	-0.02	0.68	4.35	0.26	0.57	
		0.09	0.09		0.00	0.03		-0.01	0.03		0.00	0.06		0.20	0.10	
QWWVMG	0.70	1.61		0.80	0.71		0.40	0.65		0.70	1.67		4.10	-0.06		
		0.28	0.00		0.17	0.00		0.14	0.00		0.38	0.00		-0.05	0.00	
99PAHV	1.15	4.14	0.69	1.09	1.95	0.77	1.20	4.38	1.24	1.50	5.16	0.48	4.75	0.78	1.02	
		0.73	0.07		0.46	0.13		0.94	0.12		1.18	0.04		0.61	0.18	
2Y3ZTZ	0.32	-0.55	0.24	0.48	-0.66	0.00	0.16	-0.47	0.25	0.25	-0.31	0.27	4.09	-0.08	1.77	
		-0.10	0.03		-0.15	0.00		-0.10	0.03		-0.07	0.03		-0.06	0.30	
4X72UR	0.97	3.14	3.52	1.46	3.52	0.08	0.73	2.18	4.21	1.27	4.14	3.97	6.16	2.60	1.21	
		0.56	0.37		0.83	0.01		0.47	0.42		0.95	0.37		2.02	0.21	
D6PWDR	0.39	-0.17	0.52	0.57	-0.25	0.22	0.19	-0.32	0.10	0.25	-0.28	0.06	4.36	0.27	0.36	
		-0.03	0.06		-0.06	0.04		-0.07	0.01		-0.06	0.01		0.21	0.06	
4P7QD2	0.29	-0.69	0.11	0.42	-0.91	0.11	0.80	2.50					3.98	-0.21	1.25	
		-0.12	0.01		-0.21	0.02		0.54	0.00					-0.16	0.22	



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	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		
PZEKPF	0.40	-0.09		0.60	-0.14		0.24	-0.08		0.33	0.08		4.20	0.06	
		-0.02	0.00		-0.03	0.00		-0.02	0.00		0.02	0.00		0.05	0.00
JUBP4K	0.27	-0.83		0.39	-1.03		0.23	-0.14		0.30	-0.08		2.88	-1.64	
		-0.15	0.00		-0.24	0.00		-0.03	0.00		-0.02	0.00		-1.27	0.00
4872WX	0.26	-0.90	0.11	0.38	-1.09	0.32	0.14	-0.54	0.06	0.18	-0.58	0.06	3.64	-0.66	0.17
		-0.16	0.01		-0.26	0.05		-0.12	0.01		-0.13	0.01		-0.51	0.03
6V7P2W	0.44	0.14	0.40	0.67	0.14	0.28	0.27	0.07	0.32	0.34	0.08	0.35	5.12	1.26	1.99
		0.02	0.04		0.03	0.05		0.01	0.03		0.02	0.03		0.98	0.34
Grand Median		0.42			0.63			0.26			0.32			4.15	
Median Abs Dev		0.08			0.10			0.08			0.05			0.40	
Avg Within Lab SD		0.11			0.16			0.10			0.09			0.17	
Labs Included		24			24			24			23			24	
Labs Reporting		24			24			24			23			24	



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

SAR - sp (SubTestCode 108)	in the Salinity Property Groups															Data units: value
	SRS1401			SRS1402			SRS1403			SRS1404			SRS1405			
XQ6Y6J	0.28	0.00	0.40	0.22	0.13	0.27	0.12	0.03	0.46	0.11	-0.04	0.41	1.58	0.12	1.16	
		0.00	0.02		0.01	0.03		0.00	0.02		0.00	0.01		0.03	0.04	
MM2LUN	0.29	0.11	0.10	0.26	0.49	0.05	0.17	0.44	0.60	0.14	0.29	0.16	1.50	-0.22	0.03	
		0.01	0.01		0.05	0.01		0.05	0.02		0.02	0.00		-0.05	0.00	
KKY4HM	0.28	0.00	0.21	0.25	0.40	0.09	0.20	0.73	0.30	0.13	0.19	0.00	1.78	0.93	0.95	
		0.00	0.01		0.04	0.01		0.08	0.01		0.01	0.00		0.23	0.04	
LEBJDL	0.36	0.72	0.93	0.37	1.68	2.50	0.24	1.10	2.85	0.18	0.94	3.47	1.38	-0.71	2.61	
		0.08	0.05		0.16	0.27		0.12	0.10		0.07	0.08		-0.17	0.10	
8JTXZT	0.31	0.33	0.84	0.30	0.92	0.51	0.19	0.64	0.52	0.19	1.04	1.65	1.58	0.11	0.92	
		0.04	0.05		0.09	0.06		0.07	0.02		0.07	0.04		0.03	0.04	
P7RC69	0.36	0.73	4.08	0.45	2.44	3.60	0.10	-0.23	0.35	0.12	0.00	0.53	1.35	-0.81	0.00	
		0.08	0.22		0.24	0.39		-0.03	0.01		0.00	0.01		-0.20	0.00	
C3CKCJ	0.28	0.03	0.49	0.26	0.50	0.40	0.10	-0.19	2.27	0.14	0.28	1.15	1.66	0.46	1.71	
		0.00	0.03		0.05	0.04		-0.02	0.08		0.02	0.03		0.11	0.07	
3AXLEP	0.30	0.21	0.00	0.20	-0.12	0.00	0.13	0.11	1.73	0.10	-0.24	0.00	1.60	0.20	0.00	
		0.02	0.00		-0.01	0.00		0.01	0.06		-0.02	0.00		0.05	0.00	
GRVM9A	0.26	-0.16		0.21	-0.02		0.10	-0.20		0.11	-0.09		1.54	-0.04		
		-0.02	0.00		0.00	0.00		-0.02	0.00		-0.01	0.00		-0.01	0.00	
RXKMFY	0.21	-0.59	0.11	0.17	-0.43	0.00	0.10	-0.23	0.17	0.09	-0.33	0.26	1.75	0.80	0.40	
		-0.06	0.01		-0.04	0.00		-0.03	0.01		-0.02	0.01		0.20	0.02	
XBN6AL	0.22	-0.55	0.11	0.21	-0.05	0.28	0.09	-0.26	0.46	0.09	-0.38	0.00	1.51	-0.15	0.40	
		-0.06	0.01		-0.01	0.03		-0.03	0.02		-0.03	0.00		-0.04	0.02	
FWAPXZ	0.31	0.27	0.84	0.21	0.02	0.14	0.12	0.02	0.46	0.12	0.00	1.05	1.55	0.00	0.26	
		0.03	0.05		0.00	0.02		0.00	0.02		0.00	0.02		0.00	0.01	
99PAHV	0.75	4.31	0.45	0.41	2.04	0.41	0.61	4.55	1.46	0.59	6.68	1.03	1.78	0.95	0.64	
		0.47	0.02		0.20	0.04		0.49	0.05		0.47	0.02		0.23	0.02	
4X72UR	0.04	-2.20	0.36	0.03	-1.88	0.03	0.02	-0.91	0.32	0.03	-1.24	0.49	0.14	-5.71	0.19	
		-0.24	0.02		-0.18	0.00		-0.10	0.01		-0.09	0.01		-1.41	0.01	
D6PWDR	0.23	-0.40	0.47	0.19	-0.19	0.05	0.09	-0.30	0.00	0.09	-0.38	0.00	1.57	0.08	0.26	
		-0.04	0.03		-0.02	0.01		-0.03	0.00		-0.03	0.00		0.02	0.01	
4P7QD2	0.19	-0.83	0.11	0.15	-0.61	0.05	0.42	2.79					1.55	0.00	2.51	
		-0.09	0.01		-0.06	0.01		0.30	0.00					0.00	0.10	
PZEKPF	0.26	-0.16		0.21	-0.02		0.11	-0.11		0.12	0.05		1.51	-0.16		
		-0.02	0.00		0.00	0.00		-0.01	0.00		0.00	0.00		-0.04	0.00	
JUBP4K	0.20	-0.71		0.16	-0.54		0.12	-0.02		0.12	0.05		1.33	-0.89		
		-0.08	0.00		-0.05	0.00		0.00	0.00		0.00	0.00		-0.22	0.00	
4872WX	0.18	-0.86	0.11	0.15	-0.61	0.11	0.07	-0.45	0.05	0.08	-0.56	0.03	1.42	-0.53	0.00	
		-0.09	0.01		-0.06	0.01		-0.05	0.00		-0.04	0.00		-0.13	0.00	
6V7P2W	0.31	0.30		0.25	0.40		0.14	0.17		0.12	0.05		1.70	0.61		
		0.03	0.00		0.04	0.00		0.02	0.00		0.00	0.00		0.15	0.00	



ALP Program - Participant Web Summary Report - Cycle 23

	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		
Grand Median		0.28			0.21			0.12			0.12			1.55	
Median Abs Dev		0.04			0.04			0.03			0.02			0.08	
Avg Within Lab SD		0.05			0.11			0.03			0.02			0.04	
Labs Included		20			20			20			19			20	
Labs Reporting		20			20			20			19			20	



ALP Program - Participant Web Summary Report - Cycle 23

Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

Cl - sp (SubTestCode 109)	in the Salinity Property Groups															Data units: mmolc/L
	SRS1401			SRS1402			SRS1403			SRS1404			SRS1405			
XQ6Y6J	0.49	0.16	0.38	1.03	0.41	1.08	0.41	0.32	0.08	0.51	0.37	0.79	3.42	0.64	1.20	
		0.07	0.04		0.19	0.06		0.12	0.00		0.16	0.03		0.73	0.22	
MM2LUN	0.48	0.14	0.09	0.90	0.12	0.32	0.32	0.10	0.19	0.51	0.36	2.63	4.93	1.97	0.02	
		0.06	0.01		0.06	0.02		0.04	0.01		0.16	0.12		2.24	0.00	
KKY4HM	0.34	-0.20	0.02	0.84	0.00	0.34	0.28	-0.01	0.09	0.33	-0.04	0.24	2.92	0.20	0.13	
		-0.09	0.00		0.00	0.02		0.00	0.01		-0.02	0.01		0.23	0.03	
LEBJDL	0.47	0.10	1.65	0.65	-0.40	2.29	0.29	0.01	0.83	0.36	0.01	1.51	2.62	-0.06	2.46	
		0.04	0.18		-0.19	0.13		0.00	0.05		0.01	0.07		-0.07	0.46	
VFBYEB	0.30	-0.29	0.05	0.65	-0.40	0.00	0.07	-0.58	0.10	0.29	-0.13	0.26	0.40	-2.02	0.03	
		-0.12	0.01		-0.19	0.00		-0.22	0.01		-0.06	0.01		-2.30	0.01	
P7RC69	0.32	-0.25	0.46	0.66	-0.38	0.37	0.19	-0.26	0.18	0.32	-0.06	0.73	1.78	-0.81	1.63	
		-0.11	0.05		-0.18	0.02		-0.10	0.01		-0.03	0.03		-0.92	0.30	
C3CKCJ	0.34	-0.21	0.10	0.73	-0.22	0.89	0.22	-0.19	0.10	0.30	-0.11	0.23	2.17	-0.46	0.80	
		-0.09	0.01		-0.11	0.05		-0.07	0.01		-0.05	0.01		-0.52	0.15	
T3CD22	0.43	0.00	0.04	0.77	-0.14	0.33	0.38	0.26	0.06	0.41	0.13	0.08	3.25	0.49	0.05	
		0.00	0.01		-0.07	0.02		0.10	0.00		0.06	0.00		0.56	0.01	
3AXLEP	0.42	0.00	0.68	1.01	0.37	1.28	0.29	0.01	0.65	0.39	0.09	0.82	3.02	0.29	0.70	
		0.00	0.08		0.17	0.07		0.00	0.04		0.04	0.04		0.33	0.13	
XBN6AL	0.28	-0.34	0.15	0.69	-0.31	0.55	0.21	-0.19	0.76	0.28	-0.15	0.09	1.99	-0.62	0.32	
		-0.14	0.02		-0.15	0.03		-0.07	0.04		-0.07	0.00		-0.71	0.06	
FWAPXZ	0.40	-0.05	0.05	0.84	0.00	0.61	0.24	-0.11	0.28	0.30	-0.11	0.60	2.37	-0.28	0.28	
		-0.02	0.01		0.00	0.03		-0.04	0.02		-0.05	0.03		-0.32	0.05	
QWWVMG	2.50	4.91		2.50	3.49		1.70	3.74		2.50	4.81		3.40	0.62		
		2.08	0.00		1.66	0.00		1.41	0.00		2.15	0.00		0.71	0.00	
99PAHV	2.38	4.62	3.75	3.38	5.33	2.83	2.52	5.89	3.99	2.76	5.39	1.97	6.04	2.94	2.56	
		1.95	0.42		2.54	0.16		2.23	0.22		2.41	0.09		3.35	0.48	
2Y3ZTZ	0.31	-0.27	0.00	0.81	-0.06	0.29	0.21	-0.21	0.29	0.32	-0.07	0.98	2.62	-0.06	1.09	
		-0.11	0.00		-0.03	0.02		-0.08	0.02		-0.03	0.04		-0.07	0.20	
D6PWDR	0.47	0.10	0.05	0.95	0.24	0.10	0.26	-0.06	0.28	0.38	0.07	0.23	2.48	-0.18	0.19	
		0.04	0.01		0.11	0.01		-0.02	0.02		0.03	0.01		-0.21	0.04	
4P7QD2				0.91	0.15	0.31							3.03	0.29	0.49	
					0.07	0.02								0.34	0.09	
PZEKPF	0.44	0.03		0.97	0.27		0.31	0.07		0.45	0.21		3.36	0.58		
		0.01	0.00		0.13	0.00		0.03	0.00		0.10	0.00		0.66	0.00	
JUBP4K	0.27	-0.36		0.55	-0.61		0.25	-0.10		0.34	-0.02		1.61	-0.95		
		-0.15	0.00		-0.29	0.00		-0.04	0.00		-0.01	0.00		-1.08	0.00	
4872WX	0.47	0.10	0.55	0.69	-0.30	1.35	0.30	0.04	0.18	0.34	-0.01	1.25	2.70	0.01	0.71	
		0.04	0.06		-0.15	0.08		0.01	0.01		-0.01	0.06		0.01	0.13	
6V7P2W				0.98	0.30								2.68	-0.01		
					0.14	0.00								-0.01	0.00	



ALP Program - Participant Web Summary Report - Cycle 23

	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		
Grand Median		0.42		0.84			0.29			0.35			2.69		
Median Abs Dev		0.08		0.14			0.06			0.05			0.54		
Avg Within Lab SD		0.11		0.06			0.06			0.04			0.19		
Labs Included		18		20			18			18			20		
Labs Reporting		18		20			18			18			20		



ALP Program - Participant Web Summary Report - Cycle 23

Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

SO4 - sp (SubTestCode 110)	in the Salinity Property Groups															Data units: mmol/L
	SRS1401			SRS1402			SRS1403			SRS1404			SRS1405			
XQ6Y6J	0.61	0.80	0.40	1.46	0.45	0.26	1.78	0.39	0.93	2.50	0.72	0.47	2.33	0.85	0.36	
		0.10	0.02		0.17	0.02		0.15	0.09		0.35	0.03		0.48	0.05	
MM2LUN	0.66	1.23	0.74	1.53	0.65	0.08	1.70	0.17	0.69	2.22	0.15	1.24	1.86	0.00	0.11	
		0.15	0.03		0.24	0.01		0.07	0.07		0.07	0.08		0.00	0.01	
KKY4HM	0.46	-0.43	0.24	1.29	0.00	0.41	1.63	0.00	0.36	2.04	-0.23	0.62	2.03	0.31	0.21	
		-0.05	0.01		0.00	0.03		0.00	0.03		-0.11	0.04		0.18	0.03	
LEBJDL	0.51	0.00	1.59	1.28	-0.02	1.51	1.66	0.07	2.20	2.02	-0.26	1.22	1.85	0.00	1.91	
		0.00	0.07		-0.01	0.12		0.03	0.21		-0.13	0.08		0.00	0.25	
VFBYEB	0.50	-0.05	0.13	1.39	0.28	0.15	1.40	-0.58	0.21	1.99	-0.33	0.16	1.80	-0.10	0.04	
		-0.01	0.01		0.10	0.01		-0.23	0.02		-0.16	0.01		-0.06	0.01	
P7RC69	0.46	-0.42	2.43	0.98	-0.83	0.08	1.14	-1.25	0.26	1.89	-0.53	1.54	1.20	-1.16	0.43	
		-0.05	0.11		-0.31	0.01		-0.49	0.03		-0.26	0.09		-0.65	0.06	
C3CKCJ	0.52	0.05	0.86	1.35	0.16	1.16	1.52	-0.27	0.22	2.09	-0.12	1.22	1.85	-0.01	0.70	
		0.01	0.04		0.06	0.09		-0.11	0.02		-0.06	0.08		0.00	0.09	
T3CD22	0.62	0.85	0.06	1.64	0.93	0.27	1.75	0.30	0.43	2.66	1.05	0.16	1.94	0.16	0.04	
		0.11	0.00		0.35	0.02		0.12	0.04		0.51	0.01		0.09	0.01	
3AXLEP	0.61	0.79	0.45	1.77	1.29	0.35	2.10	1.19	2.70	2.70	1.13	0.85	2.53	1.20	0.23	
		0.10	0.02		0.48	0.03		0.47	0.26		0.55	0.05		0.68	0.03	
XBN6AL	0.42	-0.71	0.91	1.26	-0.09	0.60	1.16	-1.18	1.60	2.19	0.08	1.56	1.42	-0.76	0.28	
		-0.09	0.04		-0.03	0.05		-0.47	0.15		0.04	0.10		-0.43	0.04	
FWAPXZ	0.59	0.61	1.25	1.31	0.05	0.57	1.51	-0.29	0.91	1.88	-0.55	0.66	1.69	-0.29	0.85	
		0.08	0.06		0.02	0.04		-0.12	0.09		-0.27	0.04		-0.16	0.11	
2Y3ZTZ	0.48	-0.25	0.82	1.98	1.87	3.40	1.99	0.92	0.50	2.48	0.67	2.56	3.32	2.59	3.62	
		-0.03	0.04		0.69	0.26		0.36	0.05		0.33	0.16		1.46	0.47	
4X72UR	0.08	-3.39	2.15	0.14	-3.09	0.13	0.06	-3.99	0.07	0.10	-4.22	0.74	0.19	-2.95	0.13	
		-0.43	0.09		-1.15	0.01		-1.57	0.01		-2.05	0.05		-1.67	0.02	
D6PWDR	0.50	-0.08	0.45	1.28	-0.03	0.35	1.58	-0.13	0.43	2.16	0.03	0.75	1.67	-0.32	0.47	
		-0.01	0.02		-0.01	0.03		-0.05	0.04		0.01	0.05		-0.18	0.06	
4P7QD2	0.53	0.13	0.92	1.21	-0.23	0.49	1.55	-0.19	0.47	1.96	-0.39	0.33	1.88	0.04	0.44	
		0.02	0.04		-0.08	0.04		-0.08	0.05		-0.19	0.02		0.02	0.06	
PZEKPF	0.63	0.93		1.54	0.66		1.84	0.53		2.75	1.24		2.13	0.48		
		0.12	0.00		0.25	0.00		0.21	0.00		0.60	0.00		0.27	0.00	
JUBP4K	0.42	-0.71		0.96	-0.89		1.78	0.38		2.15	0.00		1.34	-0.91		
		-0.09	0.00		-0.33	0.00		0.15	0.00		0.00	0.00		-0.51	0.00	
4872WX	0.36	-1.22	0.35	0.92	-1.01	1.50	1.34	-0.73	1.00	1.83	-0.65	0.19	1.50	-0.62	0.27	
		-0.15	0.02		-0.37	0.12		-0.29	0.10		-0.32	0.01		-0.35	0.03	
6V7P2W	0.53	0.16		1.18	-0.30		1.73	0.25		2.38	0.47		1.89	0.06		
		0.02	0.00		-0.11	0.00		0.10	0.00		0.23	0.00		0.04	0.00	



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	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		
Grand Median		0.51			1.29			1.63			2.15			1.85	
Median Abs Dev		0.08			0.17			0.15			0.23			0.18	
Avg Within Lab SD		0.04			0.08			0.10			0.06			0.13	
Labs Included		19			19			19			19			19	
Labs Reporting		19			19			19			19			19	



ALP Program - Participant Web Summary Report - Cycle 23

Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

NO3 - sp (SubTestCode 111)	in the Salinity Property Groups															Data units: mmolc/L	
	SRS1401			SRS1402			SRS1403			SRS1404			SRS1405				
XQ6Y6J	0.2	-0.7	0.1	14.1	-0.1	0.1	7.6	0.4	0.1	11.2	0.1	0.1	8.2	-0.3	1.2		
		-1.1	0.0		-0.4	0.1		0.9	0.0		0.4	0.1		-1.6	0.8		
KKY4HM	2.0	0.5	0.1	15.3	0.2	0.6	7.2	0.2	0.7	10.7	0.0	0.7	10.4	0.2	0.4		
		0.7	0.0		0.7	0.5		0.5	0.2		0.0	0.4		0.7	0.3		
LEBJDL	4.2	1.9	2.9	15.9	0.3	2.5	7.6	0.4	3.3	12.9	0.6	3.3	11.7	0.4	3.1		
		2.9	0.5		1.4	1.8		0.9	1.1		2.1	1.9		2.0	2.0		
VFBYEB	1.5	0.1	0.1	14.8	0.1	0.1	6.3	-0.2	0.1	10.0	-0.2	0.0	7.1	-0.6	0.0		
		0.2	0.0		0.3	0.1		-0.4	0.0		-0.7	0.0		-2.6	0.0		
P7RC69	0.1	-0.8	0.1	5.0	-2.3	0.5	2.2	-1.9	0.3	4.2	-1.8	0.4	1.3	-1.8	0.1		
		-1.2	0.0		-9.5	0.4		-4.5	0.1		-6.6	0.2		-8.4	0.0		
C3CKCJ	2.6	0.8	0.3	14.3	-0.1	0.8	6.3	-0.2	0.4	10.7	0.0	0.8	10.1	0.1	1.4		
		1.3	0.1		-0.3	0.6		-0.4	0.1		0.0	0.5		0.4	0.9		
XBN6AL	0.0	-0.8	0.0	2.5	-2.9	0.4	1.0	-2.4	0.5	2.2	-2.3	0.2	1.0	-1.8	0.1		
		-1.3	0.0		-12.1	0.3		-5.7	0.2		-8.6	0.1		-8.7	0.1		
FWAPXZ	2.4	0.7	0.6	13.8	-0.2	0.4	6.2	-0.2	0.9	9.1	-0.4	0.9	10.4	0.1	0.6		
		1.1	0.1		-0.8	0.3		-0.6	0.3		-1.6	0.5		0.7	0.4		
D6PWDR	3.1	1.1	0.8	15.2	0.2	1.4	7.1	0.2	0.6	11.2	0.1	0.6	11.7	0.4	0.1		
		1.8	0.1		0.6	1.0		0.4	0.2		0.5	0.3		2.0	0.0		
4P7QD2	2.3	0.7	1.9	15.2	0.1	1.1	7.5	0.3	0.7	11.7	0.3	0.8	11.4	0.4	0.8		
		1.0	0.3		0.6	0.8		0.8	0.3		1.0	0.4		1.7	0.5		
PZEKPF	0.9	-0.3		16.5	0.5		8.8	0.9		16.5	1.6		9.4	-0.1			
		-0.4	0.0		1.9	0.0		2.1	0.0		5.8	0.0		-0.4	0.0		
JUBP4K	0.6	-0.4		10.0	-1.1		4.7	-0.8		8.8	-0.5		2.4	-1.6			
		-0.7	0.0		-4.6	0.0		-2.0	0.0		-1.9	0.0		-7.3	0.0		
4872WX	0.3	-0.6	0.7	10.3	-1.0	1.7	5.3	-0.6	0.6	8.4	-0.6	0.5	4.5	-1.1	0.0		
		-1.0	0.1		-4.3	1.3		-1.4	0.2		-2.4	0.3		-5.2	0.0		
6V7P2W	1.2	-0.1		17.0	0.6		8.6	0.8		14.3	1.0		12.5	0.6			
		-0.2	0.0		2.4	0.0		1.9	0.0		3.6	0.0		2.8	0.0		
Grand Median		1.30			14.6			6.73			10.7			9.72			
Median Abs Dev		1.06			1.1			0.89			1.8			1.98			
Avg Within Lab SD		0.17			0.7			0.34			0.6			0.65			
Labs Included		14			14			14			14			14			
Labs Reporting		14			14			14			14			14			



ALP Program - Participant Web Summary Report - Cycle 23

Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

B - sp (SubTestCode 112)	in the Salinity Property Groups												Data units: mg/L		
	SRS1401			SRS1402			SRS1403			SRS1404			SRS1405		
XQ6Y6J	0.09	-0.51	0.85	0.18	-0.02	0.33	0.11	-0.01	0.83	0.02	-0.44	0.76	0.04	-0.04	0.25
		-0.02	0.02		0.00	0.01		0.00	0.01		-0.01	0.01		-0.01	0.01
KKY4HM	0.15	0.80	0.87	0.27	1.05	0.36	0.16	1.18	1.09	0.03	0.05	0.14	0.08	0.16	0.02
		0.04	0.02		0.10	0.01		0.05	0.01		0.00	0.00		0.03	0.00
LEBJDL	0.14	0.61	1.16	0.18	0.02	1.72	0.11	0.00	1.99	0.02	-0.29	0.43	0.05	0.00	0.40
		0.03	0.02		0.00	0.03		0.00	0.02		-0.01	0.01		0.00	0.01
VFBYEB	0.11	-0.06	0.32	0.20	0.27	0.33	0.13	0.45	0.75	0.03	-0.05	0.00	0.04	-0.05	0.00
		0.00	0.01		0.03	0.01		0.02	0.01		0.00	0.00		-0.01	0.00
P7RC69	0.13	0.54	2.74	0.08	-1.04	0.33	0.05	-1.26	0.00	0.07	1.25	2.83	0.05	-0.03	0.29
		0.02	0.05		-0.10	0.01		-0.06	0.00		0.04	0.04		-0.01	0.01
T3CD22	0.04	-1.53	0.10	0.13	-0.58	0.06	0.07	-0.82	0.59	0.01	-0.76	0.00	0.01	-0.20	0.00
		-0.07	0.00		-0.05	0.00		-0.04	0.00		-0.02	0.00		-0.04	0.00
3AXLEP	0.17	1.29	0.64	0.33	1.66	1.15	0.18	1.71	0.75	0.05	0.54	0.86	0.08	0.17	0.93
		0.06	0.01		0.15	0.02		0.08	0.01		0.02	0.01		0.03	0.02
XBN6AL	0.04	-1.63	0.39	0.14	-0.46	1.46	0.07	-0.91	1.75						
		-0.07	0.01		-0.04	0.03		-0.04	0.01						
FWAPXZ	0.12	0.24	0.00	0.21	0.35	0.00	0.12	0.30	0.00	0.02	-0.40	0.00	0.05	0.00	0.00
		0.01	0.00		0.03	0.00		0.01	0.00		-0.01	0.00		0.00	0.00
QWWVMG	0.10	-0.21		0.10	-0.86		0.10	-0.15		0.10	2.44		0.50	2.31	
		-0.01	0.00		-0.08	0.00		-0.01	0.00		0.07	0.00		0.45	0.00
99PAHV	0.11	0.00	0.14	0.22	0.46	1.93	0.13	0.62	0.79	0.05	0.53	0.68	0.05	0.00	0.30
		0.00	0.00		0.04	0.03		0.03	0.01		0.01	0.01		0.00	0.01
4X72UR				0.06	-1.33	1.20							0.92	4.47	3.12
					-0.12	0.02								0.87	0.08
Grand Median		0.11			0.18			0.11			0.031			0.050	
Median Abs Dev		0.02			0.05			0.03			0.014			0.010	
Avg Within Lab SD		0.02			0.02			0.01			0.013			0.025	
Labs Included		11			12			11			10			11	
Labs Reporting		11			12			11			10			11	



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

Soil EC (1:1) (SubTestCode 113)			in the Soil pH & EC Property Groups												Data units: dS/m	
SRS1401			SRS1402			SRS1403			SRS1404			SRS1405				
MBLU4T	0.24	0.39 0.02 1.04	0.58 0.01 1.46	0.46	-0.01 0.00 0.35	0.58 0.02 0.58	0.30	0.15 0.01 -0.17	0.00 0.00 1.08	0.48	-0.05 -0.01 -0.29	0.68 0.02 1.01	0.66	0.51 0.10 -0.09	0.40 0.02 0.51	
MM2LUN	0.27	0.05 0.60	0.03 0.59	0.51	0.05 0.65	0.02 0.38	0.27	-0.01 0.40	0.02 0.52	0.45	-0.04 0.30	0.03 0.59	0.55	-0.02 0.34	0.03 0.34	
XNEVBC	0.25	0.03 2.65	0.01 0.15	0.55	0.09 1.75	0.01 0.24	0.32	0.03 1.93	0.01 0.29	0.53	0.04 3.64	0.02 0.54	0.63	0.06 0.61	0.02 0.26	
KKY4HM	0.36	0.14 0.39	0.00 0.58	0.71	0.24 -0.72	0.01 0.58	0.45	0.16 0.35	0.01 0.30	0.95	0.46 -1.20	0.02 0.39	0.68	0.12 -1.10	0.01 0.33	
LEBJDL	0.24	0.02 -1.02	0.01 0.36	0.37	-0.10 -1.07	0.02 0.19	0.32	0.03 -0.71	0.01 0.96	0.33	-0.15 -1.36	0.01 0.29	0.36	-0.21 -1.04	0.02 0.09	
ARD6BU	0.17	-0.05 0.01	0.01 0.89	0.32	-0.15 0.00	0.01 1.96	0.23	-0.06 -0.10	0.02 0.20	0.31	-0.17 -0.41	0.01 1.49	0.37	-0.20 -0.71	0.00 0.31	
82U34V	0.22	0.00 -1.04	0.02 1.68	0.46	0.00 -0.11	0.05 0.00	0.28	-0.01 -0.62	0.00 0.30	0.43	-0.05 0.39	0.04 0.19	0.43	-0.13 -0.23	0.02 0.11	
PN6V2C	0.17	-0.05 -0.26	0.03 0.65	0.45	-0.01 -1.03	0.00 0.69	0.24	-0.05 -1.62	0.01 0.26	0.54	0.05 -1.27	0.01 0.37	0.52	-0.04 -1.35	0.01 0.11	
6P9R3T	0.21	-0.01 -0.48	0.01 0.37	0.32	-0.14 -0.25	0.02 0.77	0.15	-0.13 -0.13	0.00 0.39	0.33	-0.16 -0.67	0.01 0.39	0.31	-0.25 0.05	0.01 0.34	
C3CKCJ	0.20	-0.02 -0.19	0.01 0.58	0.43	-0.03 0.79	0.02 0.58	0.28	-0.01 0.03	0.01 1.55	0.40	-0.09 0.78	0.01 1.36	0.58	0.01 0.00	0.02 0.40	
GRVM9A	0.21	-0.01 0.84	0.01 0.34	0.57	0.11 0.25	0.02 1.73	0.29	0.00 -0.17	0.03 1.49	0.59	0.10 0.00	0.04 0.52	0.57	0.00 -0.55	0.02 0.48	
FHRYXC	0.26	0.04 -1.55	0.01 0.00	0.50	0.04 -0.67	0.05 0.22	0.27	-0.01 -1.18	0.03 0.00	0.49	0.00 -0.84	0.02 0.00	0.46	-0.10 -1.17	0.03 0.11	
EHV3AC	0.14	-0.08 -0.46	0.00 0.07	0.37	-0.09 1.18	0.01 2.03	0.19	-0.10 1.29	0.00 0.70	0.38	-0.11 0.67	0.00 0.37	0.35	-0.22 1.36	0.01 0.75	
TYT44W	0.20	-0.02 0.00	0.00 1.16	0.63	0.16 0.55	0.05 0.38	0.39	0.11 1.08	0.01 1.30	0.57	0.09 0.34	0.01 0.68	0.82	0.26 0.76	0.04 0.38	
EYHHD9	0.22	0.00 0.51	0.02 0.27	0.54	0.08 1.38	0.01 1.13	0.38	0.09 0.50	0.03 1.69	0.53	0.04 1.01	0.02 1.53	0.71	0.14 1.25	0.02 0.16	
XBN6AL	0.25	0.03 0.45	0.00 0.34	0.65	0.19 1.18	0.03 0.22	0.33	0.04 0.15	0.03 0.00	0.62	0.13 -0.10	0.05 0.39	0.80	0.24 0.71	0.01 0.00	
FWAPXZ	0.24	0.02 0.65	0.01 0.34	0.63	0.16 1.30	0.01 0.58	0.30	0.01 1.72	0.00 0.90	0.47	-0.01 0.31	0.01 1.03	0.70	0.13 0.99	0.00 1.25	
TB276K	0.25	0.03 0.08	0.01 0.54	0.64	0.18 0.24	0.02 0.12	0.43	0.14 0.00	0.02 0.13	0.53	0.04 0.07	0.03 0.12	0.75	0.19 -0.37	0.07 0.02	
MADJ8P	0.22	0.00 -0.39	0.01 0.58	0.50	0.03 -0.25	0.00 1.13	0.29	0.00 -0.98	0.00 0.60	0.50	0.01 0.05	0.00 2.04	0.50	-0.07 -0.44	0.00 1.46	
TMGXVF	0.20	-0.02	0.01	0.43	-0.03	0.03	0.21	-0.08	0.01	0.49	0.01	0.06	0.48	-0.08	0.08	



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	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		
99PAHV	0.02	-3.84	0.02	0.06	-2.93	0.02	0.03	-3.08	0.05	0.05	-3.40	0.10	0.08	-2.59	0.07
		-0.20	0.00		-0.40	0.00		-0.26	0.00		-0.43	0.00		-0.49	0.00
YLNT44	0.20	-0.39	0.00	0.40	-0.47	0.00	0.27	-0.25	2.99	0.37	-0.94	1.95	0.57	0.00	1.11
		-0.02	0.00		-0.06	0.00		-0.02	0.06		-0.12	0.06		0.00	0.06
VJ8PJ2	0.17	-1.04	3.36	0.63	1.22	2.18	0.40	1.36	0.00	0.57	0.63	1.95	0.73	0.89	3.99
		-0.05	0.06		0.17	0.06		0.11	0.00		0.08	0.06		0.17	0.21
D6PWDR	0.28	1.10	1.21	0.45	-0.11	1.25	0.34	0.62	0.58	0.51	0.17	0.24	0.75	1.00	0.24
		0.06	0.02		-0.01	0.03		0.05	0.01		0.02	0.01		0.19	0.01
Grand Median		0.22			0.46			0.29			0.49			0.57	
Median Abs Dev		0.02			0.09			0.04			0.05			0.13	
Avg Within Lab SD		0.02			0.03			0.02			0.03			0.05	
Labs Included		23			23			23			23			23	
Labs Reporting		23			23			23			23			23	



ALP Program - Participant Web Summary Report - Cycle 23

Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

Soil EC (1:2) (SubTestCode 114)			in the Soil pH & EC Property Groups												Data units: dS/m	
SRS1401			SRS1402			SRS1403			SRS1404			SRS1405				
NVRNBQ	0.11	-0.50	0.20	0.30	-0.32	0.17	0.16	-0.08	1.61	0.32	0.15	0.33	0.41	0.37	1.05	
		-0.03	0.00		-0.03	0.00		0.00	0.01		0.01	0.01		0.04	0.02	
MM2LUN	0.18	0.86	1.14	0.29	-0.38	1.42	0.17	-0.02	1.95	0.28	-0.32	0.70	0.34	-0.32	1.05	
		0.04	0.01		-0.04	0.02		0.00	0.02		-0.02	0.01		-0.03	0.02	
KKY4HM	0.22	1.78	0.60	0.44	1.24	0.66	0.19	0.41	0.58	0.42	1.56	0.28	0.49	1.08	0.34	
		0.09	0.00		0.11	0.01		0.02	0.00		0.11	0.00		0.12	0.00	
VFBYEB	0.14	0.14	1.97	0.32	-0.13	1.04	0.19	0.45	1.95	0.31	0.00	1.39	0.37	-0.01	1.19	
		0.01	0.01		-0.01	0.02		0.02	0.02		0.00	0.02		0.00	0.02	
ETYBXN	0.25	2.24	1.14	0.61	3.05	0.68	0.32	3.71	0.74	0.52	2.91	0.92	0.77	3.70	0.40	
		0.11	0.01		0.28	0.01		0.16	0.01		0.21	0.02		0.40	0.01	
3PWDKZ	0.17	0.73	0.00	0.24	-0.93	2.84	0.19	0.53	0.00	0.31	0.05	0.60	0.30	-0.69	0.40	
		0.04	0.00		-0.09	0.04		0.02	0.00		0.00	0.01		-0.07	0.01	
FC666L	0.12	-0.27	0.47	0.35	0.20	0.25	0.17	-0.02	0.68	0.28	-0.32	0.36	0.37	0.00	0.07	
		-0.01	0.00		0.02	0.00		0.00	0.01		-0.02	0.01		0.00	0.00	
PDLGXA	0.13	-0.12	1.28	0.34	0.07	0.75	0.16	-0.19	0.45	0.30	-0.06	0.53	0.37	-0.01	0.35	
		-0.01	0.01		0.01	0.01		-0.01	0.00		0.00	0.01		0.00	0.01	
C3CKCJ	0.16	0.46	0.69	0.33	0.00	0.66	0.17	0.16	0.86	0.32	0.14	0.34	0.38	0.10	0.77	
		0.02	0.00		0.00	0.01		0.01	0.01		0.01	0.01		0.01	0.01	
FKH4QJ	0.13	0.00	0.11	0.34	0.15	0.04	0.15	-0.33	0.07	0.29	-0.19	0.00	0.35	-0.24	0.00	
		0.00	0.00		0.01	0.00		-0.01	0.00		-0.01	0.00		-0.03	0.00	
ADE96P	0.16	0.47	0.60	0.23	-1.08	0.72	0.17	-0.01	0.39	0.30	-0.09	0.36	0.29	-0.71	1.82	
		0.02	0.00		-0.10	0.01		0.00	0.00		-0.01	0.01		-0.08	0.03	
96N7NM	0.10	-0.64	1.97	0.27	-0.60	0.79	0.16	-0.18	2.21	0.31	0.05	0.60	0.28	-0.85	0.00	
		-0.03	0.01		-0.06	0.01		-0.01	0.02		0.00	0.01		-0.09	0.00	
U6T2RR	0.14	0.14	1.97	0.46	1.39	0.79	0.26	2.20	0.00	0.44	1.80	0.70	0.57	1.86	2.48	
		0.01	0.01		0.13	0.01		0.09	0.00		0.13	0.01		0.20	0.04	
PU98PV	0.10	-0.58	1.14	0.30	-0.28	1.04	0.20	0.77	0.00	0.29	-0.23	0.60	0.38	0.08	1.38	
		-0.03	0.01		-0.03	0.02		0.03	0.00		-0.02	0.01		0.01	0.02	
FWAPXZ	0.12	-0.18	1.14	0.32	-0.06	0.39	0.16	-0.18	0.00	0.27	-0.51	0.00	0.36	-0.10	0.00	
		-0.01	0.01		-0.01	0.01		-0.01	0.00		-0.04	0.00		-0.01	0.00	
DNJMGX	0.18	0.98	0.27	0.39	0.63	0.08	0.20	0.75	0.10	0.37	0.81	0.31	0.44	0.61	0.73	
		0.05	0.00		0.06	0.00		0.03	0.00		0.06	0.01		0.07	0.01	
6W8FD7	0.00	-2.57	0.00	0.00	-3.53	0.00	0.00	-3.94	0.00	0.00	-4.20	0.00	0.00	-3.43	0.01	
		-0.13	0.00		-0.32	0.00		-0.17	0.00		-0.30	0.00		-0.37	0.00	
4DBTA3	0.09	-0.84	0.00	0.28	-0.49	0.79	0.17	0.00	0.15	0.27	-0.55	0.10	0.37	-0.03	0.64	
		-0.04	0.00		-0.05	0.01		0.00	0.00		-0.04	0.00		0.00	0.01	
HZKKTN	0.15	0.31	1.65	0.33	-0.04	0.77	0.16	-0.18	1.50	0.32	0.12	0.60	0.37	-0.01	1.93	
		0.02	0.01		0.00	0.01		-0.01	0.01		0.01	0.01		0.00	0.03	
GXDZ7N	0.10	-0.64	0.00	0.40	0.77	0.00	0.20	0.77	0.00	0.33	0.37	3.48	0.50	1.21		
		-0.03	0.00		0.07	0.00		0.03	0.00		0.03	0.06		0.13	0.00	



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	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		
999DPV	0.13	-0.10	0.60	0.34	0.13	0.52	0.16	-0.18	0.25	0.26	-0.61	0.31	0.38	0.07	0.36
		-0.01	0.00		0.01	0.01		-0.01	0.00		-0.04	0.01		0.01	0.01
99PAHV	0.01	-2.39	0.11	0.03	-3.20	0.04	0.02	-3.63	0.34	0.04	-3.70	0.12	0.06	-2.92	0.06
		-0.12	0.00		-0.29	0.00		-0.15	0.00		-0.27	0.00		-0.31	0.00
D6PWDR	0.16	0.51	0.80	0.36	0.35	0.28	0.19	0.52	0.87	0.32	0.15	0.37	0.41	0.40	0.07
		0.03	0.00		0.03	0.00		0.02	0.01		0.01	0.01		0.04	0.00
4P7QD2	0.17	0.79	0.34	0.38	0.56	0.68	0.20	0.72	0.34	0.34	0.51	0.35	0.43	0.52	0.40
		0.04	0.00		0.05	0.01		0.03	0.00		0.04	0.01		0.06	0.01
PZEKPF	0.10	-0.70	0.52	0.35	0.22	2.12	0.18	0.17	1.17	0.23	-1.01	2.40	0.42	0.49	1.40
		-0.04	0.00		0.02	0.03		0.01	0.01		-0.07	0.04		0.05	0.02
6V7P2W	0.16	0.46	0.91	0.38	0.59	1.51	0.20	0.69	1.67	0.35	0.63	0.74	0.42	0.45	1.39
		0.02	0.00		0.05	0.02		0.03	0.01		0.05	0.01		0.05	0.02
Grand Median		0.13			0.33			0.17			0.31			0.37	
Median Abs Dev		0.03			0.04			0.01			0.02			0.04	
Avg Within Lab SD		0.01			0.01			0.01			0.02			0.01	
Labs Included		25			25			25			25			25	
Labs Reporting		25			25			25			25			25	



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

pH (1:1) Water (SubTestCode 115)	in the Soil pH & EC Property Groups															Data units: Unit
	SRS1401			SRS1402			SRS1403			SRS1404			SRS1405			
XQ6Y6J	6.83	-0.17	1.12	5.73	1.25	1.41	6.37	0.51	1.63	7.13	0.73	1.32	7.10	0.48	0.00	
		-0.03	0.06		0.13	0.06		0.06	0.06		0.10	0.06		0.07	0.00	
MBLU4T	6.73	-0.69	1.36	5.48	-1.09	0.70	6.27	-0.29	1.17	7.02	-0.07	0.58	6.99	-0.29	0.81	
		-0.14	0.07		-0.12	0.03		-0.04	0.04		-0.01	0.03		-0.04	0.03	
NVRNBQ	6.94	0.37	1.36	5.76	1.50	0.24	6.39	0.67	1.44	6.94	-0.65	1.03	6.91	-0.91	0.81	
		0.07	0.07		0.16	0.01		0.08	0.05		-0.09	0.05		-0.13	0.03	
PGLRRN	6.80	-0.34	0.00	5.60	0.00	0.00	6.23	-0.56	1.63	6.97	-0.49	1.32	6.97	-0.48	1.86	
		-0.07	0.00		0.00	0.00		-0.07	0.06		-0.07	0.06		-0.07	0.06	
MM2LUN	6.90	0.15	0.74	5.58	-0.19	2.33	6.30	0.00	0.59	7.01	-0.17	0.82	7.06	0.21	0.49	
		0.03	0.04		-0.02	0.10		0.00	0.02		-0.02	0.04		0.03	0.02	
XNEVBC	6.84	-0.16	1.06	5.69	0.82	0.64	6.51	1.65	0.00	7.15	0.85	0.24	7.30	1.94	0.20	
		-0.03	0.05		0.09	0.03		0.21	0.00		0.12	0.01		0.27	0.01	
22R3Z9	6.95	0.42	0.34	5.51	-0.87	0.14	6.21	-0.75	0.28	7.01	-0.15	0.35	6.93	-0.72	0.49	
		0.08	0.02		-0.09	0.01		-0.09	0.01		-0.02	0.02		-0.10	0.02	
KKY4HM	6.73	-0.67	0.11	5.54	-0.59	0.14	6.26	-0.37	0.43	6.94	-0.70	0.35	6.91	-0.88	0.32	
		-0.13	0.01		-0.06	0.01		-0.05	0.02		-0.10	0.02		-0.12	0.01	
LEBJDL	6.83	-0.20	1.25	5.52	-0.72	1.10	6.25	-0.40	1.27	6.99	-0.34	2.24	6.98	-0.36	0.19	
		-0.04	0.06		-0.08	0.05		-0.05	0.05		-0.05	0.10		-0.05	0.01	
QDJ96F	7.00	0.67	0.00	5.60	0.00	0.00	6.43	1.04	1.63	7.10	0.49	0.00	7.10	0.48	0.00	
		0.13	0.00		0.00	0.00		0.13	0.06		0.07	0.00		0.07	0.00	
ARD6BU	6.96	0.45	0.22	5.61	0.09	0.24	6.29	-0.08	0.16	7.11	0.58	0.48	7.17	1.00	0.19	
		0.09	0.01		0.01	0.01		-0.01	0.01		0.08	0.02		0.14	0.01	
82U34V	6.80	-0.32	0.22	5.56	-0.37	0.24	6.26	-0.37	0.33	6.99	-0.29	0.13	7.00	-0.26	0.67	
		-0.06	0.01		-0.04	0.01		-0.05	0.01		-0.04	0.01		-0.04	0.02	
ETYBXN	6.67	-1.01	1.12	5.60	0.00	2.44	6.37	0.51	1.63	7.03	0.00	1.32	6.87	-1.19	1.86	
		-0.20	0.06		0.00	0.10		0.06	0.06		0.00	0.06		-0.17	0.06	
3PWDKZ	6.69	-0.87	0.11	5.62	0.22	0.86	6.11	-1.57	0.16	6.83	-1.48	1.27	6.81	-1.60	0.32	
		-0.17	0.01		0.02	0.04		-0.20	0.01		-0.20	0.06		-0.22	0.01	
PN6V2C	6.72	-0.76	0.56	5.43	-1.56	0.70	6.13	-1.36	0.81	6.88	-1.09	0.66	6.88	-1.07	0.93	
		-0.15	0.03		-0.17	0.03		-0.17	0.03		-0.15	0.03		-0.15	0.03	
PDLGXA	6.89	0.12	1.08	5.61	0.12	1.34	6.27	-0.27	1.97	7.10	0.46	0.58	7.04	0.05	0.64	
		0.02	0.06		0.01	0.06		-0.03	0.07		0.06	0.03		0.01	0.02	
6P9R3T	6.87	0.02	1.92	5.80	1.87	0.00	6.44	1.09	1.85	7.22	1.38	0.92	7.18	1.05	0.64	
		0.00	0.10		0.20	0.00		0.14	0.07		0.19	0.04		0.15	0.02	
C3CKCJ	6.71	-0.79	1.08	5.59	-0.09	0.98	6.34	0.29	1.97	6.97	-0.46	2.03	6.90	-0.93	0.98	
		-0.16	0.06		-0.01	0.04		0.04	0.07		-0.06	0.09		-0.13	0.03	
GRVM9A	6.70	-0.84	0.00	5.47	-1.25	1.41	6.30	-0.03	0.00	6.97	-0.49	1.32	6.97	-0.48	1.86	
		-0.17	0.00		-0.13	0.06		0.00	0.00		-0.07	0.06		-0.07	0.06	
UGAKVW	7.04	0.89	0.56	5.61	0.12	0.14	6.48	1.44	0.71	7.27	1.75	0.92	7.22	1.31	0.81	
		0.18	0.03		0.01	0.01		0.18	0.03		0.24	0.04		0.18	0.03	



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	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD
UAAAE7	7.06	0.99	0.11	5.66	0.56	0.24	6.36	0.43	0.43	7.20	1.19	0.58	7.14	0.74	0.49
FKH4QJ	7.00	0.20	0.01	5.60	0.06	0.01	6.30	0.05	0.02	7.13	0.16	0.03	7.10	0.10	0.02
ADE96P	6.83	0.67		5.57	0.00	0.00	6.30	-0.03	0.00	7.03	0.73	1.32	7.10	0.48	0.00
47FVHT	5.64	0.13	0.00	5.57	0.00	0.00	6.30	0.00	0.00	7.03	0.10	0.06	7.10	0.07	0.00
VFA93Z	6.81	-0.17	1.12	5.59	-0.31	1.41	6.12	-0.03	0.00	7.14	0.00	1.32	6.82	0.48	0.00
96N7NM	6.94	-0.03	0.06	5.51	-0.03	0.06	6.31	0.00	0.00	7.09	0.78	0.06	7.07	0.07	0.00
6M3BLP	6.94	-6.19		5.57	-0.09		6.28	-1.46		7.10	0.11	0.00	7.07	-0.21	0.00
8ZGHBL	6.78	-1.23	0.00	5.57	-0.84	0.00	6.31	-0.18	0.00	7.09	0.41	0.79	7.01	-0.17	0.00
FHRYXC	6.81	-0.29	0.00	5.51	-0.09	0.00	6.31	0.05	0.00	7.09	0.06	0.03	7.01	-0.02	0.00
TYT44W	6.87	0.39	0.92	5.57	-0.25	1.02	6.28	-0.19	0.49	7.10	0.49	0.23	7.07	0.26	1.40
GQ3LL8	7.00	0.08	0.05	5.57	-0.03	0.04	6.28	-0.02	0.02	7.10	0.07	0.01	7.07	0.04	0.04
EYHHD9	6.70	0.39	0.92	5.57	-0.25	1.02	6.28	-0.19	0.49	7.10	0.49	0.23	7.07	0.26	1.40
U6T2RR	6.80	0.08	0.05	5.57	-0.03	0.04	6.28	-0.02	0.02	7.10	0.07	0.01	7.07	0.04	0.04
PU98PV	7.02	-0.44	0.00	5.64	0.37	0.00	6.28	-0.19	0.00	7.09	-0.75	0.00	6.93	-0.74	0.00
XBN6AL	6.59	-0.09	0.00	5.64	0.04	0.00	6.28	-0.02	0.00	7.09	-0.10	0.00	6.93	-0.10	0.00
QGZJCR	6.96	-0.29	1.73	5.52	-0.72	1.20	6.32	0.13	2.13	7.06	0.22	1.08	7.05	0.12	1.16
BYDUL8	7.03	-0.06	0.09	5.52	-0.08	0.05	6.32	0.02	0.08	7.06	0.03	0.05	7.05	0.02	0.04
ZKNFUF	6.96	0.00	1.12	5.72	1.12	1.76	6.25	-0.43	1.41	7.00	-0.24	2.29	6.97	-0.48	1.86
FWAPXZ	6.74	0.00	0.06	5.72	0.12	0.07	6.25	-0.05	0.05	7.00	-0.03	0.10	6.97	-0.07	0.06
TB276K	6.87	0.66	0.30	5.63	0.31	0.28	6.34	0.32	0.16	7.14	0.80	0.26	7.10	0.48	0.32
MADJ8P	7.16	0.13	0.02	5.63	0.03	0.01	6.34	0.04	0.01	7.14	0.11	0.01	7.10	0.07	0.01
6W8FD7	6.66	-0.82	0.68	5.53	-0.69	0.37	6.22	-0.67	0.28	6.83	-1.50	0.35	6.86	-1.22	0.81
		-0.16	0.04	5.53	-0.07	0.02	6.22	-0.08	0.01	6.83	-0.21	0.02	6.86	-0.17	0.03
		-0.34	0.70	5.57	-0.31	0.51	6.37	0.56	0.59	6.89	-1.02	0.95	7.03	0.00	0.93
		-0.07	0.04	5.57	-0.03	0.02	6.37	0.07	0.02	6.89	-0.14	0.04	7.03	0.00	0.03
		0.76	0.59	5.93	3.06	0.61	6.55	2.00	0.43	7.12	0.61	0.35	7.10	0.45	0.19
		0.15	0.03	5.93	0.33	0.03	6.55	0.25	0.02	7.12	0.08	0.02	7.10	0.06	0.01
		-1.41	0.30	5.48	-1.15	0.14	6.18	-0.96	0.59	7.02	-0.07	0.35	6.94	-0.67	0.32
		-0.28	0.02	5.48	-0.12	0.01	6.18	-0.12	0.02	7.02	-0.01	0.02	6.94	-0.09	0.01
		0.47	0.67	5.68	0.72	0.37	6.38	0.64	1.44	7.02	-0.12	2.60	7.00	-0.24	1.11
		0.09	0.03	5.68	0.08	0.02	6.38	0.08	0.05	7.02	-0.02	0.11	7.00	-0.03	0.03
		0.84	0.30	5.70	0.94	0.42	6.43	1.01	0.28	7.12	0.65	0.26	7.16	0.93	0.37
		0.17	0.02	5.70	0.10	0.02	6.43	0.13	0.01	7.12	0.09	0.01	7.16	0.13	0.01
		0.47	0.19	5.60	-0.03	0.37	6.31	0.05	0.28	7.06	0.22	0.35	7.07	0.26	0.56
		0.09	0.01	5.60	0.00	0.02	6.31	0.01	0.01	7.06	0.03	0.02	7.07	0.04	0.02
		-0.64	4.22	5.40	-1.84	3.10	6.01	-2.37	0.90	6.74	-2.16	0.87	6.77	-1.91	0.67
		-0.13	0.22	5.40	-0.20	0.13	6.01	-0.30	0.03	6.74	-0.30	0.04	6.77	-0.27	0.02
		0.02	0.51	5.57	-0.28	0.24	6.32	0.16	0.33	7.02	-0.07	0.87	7.08	0.36	0.49
		0.00	0.03	5.57	-0.03	0.01	6.32	0.02	0.01	7.02	-0.01	0.04	7.08	0.05	0.02
		1.50	0.41	5.71	1.06	0.14	6.49	1.46	0.99	7.22	1.38	0.35	7.21	1.26	0.32
		0.30	0.02	5.71	0.11	0.01	6.49	0.18	0.04	7.22	0.19	0.02	7.21	0.18	0.01
		-1.03	0.30	5.48	-1.09	0.37	6.22	-0.67	0.49	7.00	-0.22	0.13	6.95	-0.57	0.49
		-0.20	0.02	5.48	-0.12	0.02	6.22	-0.08	0.02	7.00	-0.03	0.01	6.95	-0.08	0.02



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	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		
TMGXVF	6.97	0.50	1.12	5.70	0.94	0.00	6.37	0.51	1.63	7.03	0.00	1.32	7.13	0.72	1.86
		0.10	0.06		0.10	0.00		0.06	0.06		0.00	0.06		0.10	0.06
839E2Z	6.99	0.62	0.19	5.47	-1.19	0.56	6.32	0.13	0.74	7.09	0.41	0.00	7.04	0.07	0.93
		0.12	0.01		-0.13	0.02		0.02	0.03		0.06	0.00		0.01	0.03
4DBTA3	7.01	0.71	0.11	5.67	0.69	0.14	5.95	-2.79	0.43	7.16	0.95	0.26	7.15	0.81	0.19
		0.14	0.01		0.07	0.01		-0.35	0.02		0.13	0.01		0.11	0.01
999DPV	6.89	0.13	0.30	5.66	0.53	0.61	6.25	-0.45	1.55	6.70	-2.43	1.65	6.99	-0.33	2.68
		0.03	0.02		0.06	0.03		-0.06	0.06		-0.33	0.07		-0.05	0.08
99PAHV	6.58	-1.44	1.66	5.56	-0.34	2.01	6.20	-0.86	0.76	6.90	-1.00	0.81	6.96	-0.50	1.99
		-0.29	0.09		-0.04	0.08		-0.11	0.03		-0.14	0.04		-0.07	0.06
D7692N	6.79	-0.40	0.79	5.63	0.25	0.86	6.37	0.53	0.28	6.94	-0.70	0.35	7.18	1.03	1.49
		-0.08	0.04		0.03	0.04		0.07	0.01		-0.10	0.02		0.14	0.05
YLNT44	7.03	0.84	1.12	5.63	0.31	1.41	6.40	0.77	0.00	7.20	1.21	0.00	7.20	1.19	0.00
		0.17	0.06		0.03	0.06		0.10	0.00		0.17	0.00		0.17	0.00
VJ8PJ2	6.90	0.17	0.00	5.63	0.31	1.41	6.37	0.51	1.63	7.17	0.97	1.32	7.03	0.00	1.86
		0.03	0.00		0.03	0.06		0.06	0.06		0.13	0.06		0.00	0.06
D6PWDR	6.68	-0.92	0.96	5.72	1.09	0.28	6.38	0.64	0.81	7.03	0.00	0.48	6.97	-0.48	0.37
		-0.18	0.05		0.12	0.01		0.08	0.03		0.00	0.02		-0.07	0.01
Grand Median		6.87		5.60		6.30		7.03		7.03		7.03		7.03	
Median Abs Dev		0.10		0.06		0.06		0.08		0.07		0.07		0.07	
Avg Within Lab SD		0.05		0.04		0.04		0.04		0.03		0.03		0.03	
Labs Included		51		51		51		51		51		51		51	
Labs Reporting		51		51		51		51		51		51		51	



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

	pH (1:2) Water (SubTestCode 116)			in the Soil pH & EC Property Groups									Data units: Unit		
	SRS1401			SRS1402			SRS1403			SRS1404			SRS1405		
MM2LUN	6.97	0.71	0.11	5.71	0.08	0.08	6.43	0.11	0.22	7.12	0.07	0.46	7.18	0.52	0.17
		0.12	0.01		0.03	0.01		0.03	0.02		0.01	0.02		0.14	0.02
KKY4HM	6.91	0.36	0.05	5.72	0.11	0.08	6.49	0.34	0.28	7.09	-0.08	0.27	7.11	0.24	0.05
		0.06	0.01		0.04	0.01		0.09	0.02		-0.01	0.01		0.06	0.01
VFBYEB	6.77	-0.47	0.18	5.67	-0.06	0.14	6.28	-0.43	0.08	7.07	-0.22	0.83	6.98	-0.25	0.13
		-0.08	0.02		-0.02	0.01		-0.12	0.01		-0.04	0.04		-0.07	0.02
FC666L	7.07	1.25	0.38	5.77	0.25	0.21	6.51	0.43	0.08	7.22	0.66	0.46	7.26	0.81	0.13
		0.22	0.04		0.08	0.02		0.12	0.01		0.11	0.02		0.21	0.02
C3CKCJ	6.98	0.73	0.63	5.79	0.31	1.29	6.79	1.48	3.67	7.13	0.11	1.04	7.10	0.20	0.83
		0.13	0.07		0.10	0.09		0.40	0.26		0.02	0.05		0.05	0.10
VFA93Z	6.90	0.28	0.00	5.60	-0.27	0.00	6.40	0.01	0.00	7.17	0.35	1.33	7.10	0.21	0.00
		0.05	0.00		-0.09	0.00		0.00	0.00		0.06	0.06		0.06	0.00
FWAPXZ	6.88	0.15	1.76	5.56	-0.41	1.25	6.12	-1.03	0.73	6.76	-2.02	0.74	6.82	-0.84	0.26
		0.03	0.19		-0.13	0.09		-0.28	0.05		-0.34	0.03		-0.22	0.03
DNJMGX	6.83	-0.15	0.19	5.57	-0.36	1.41	6.32	-0.29	0.28	7.07	-0.20	0.74	6.40	-2.43	0.26
		-0.03	0.02		-0.11	0.10		-0.08	0.02		-0.03	0.03		-0.64	0.03
HZKKTN	7.00	0.86		6.27	1.81	3.21	6.50	0.38		7.30	1.13	0.00	6.77	-1.04	1.77
		0.15	0.00		0.58	0.23		0.10	0.00		0.19	0.00		-0.28	0.21
GXDZ7N	6.80	-0.30	0.00	5.60	-0.27	0.00	6.30	-0.37	0.00	7.03	-0.44	1.33	7.07	0.09	0.49
		-0.05	0.00		-0.09	0.00		-0.10	0.00		-0.07	0.06		0.02	0.06
99PAHV	6.63	-1.32	0.48	5.70	0.02	0.14	6.14	-0.98	1.00	7.10	-0.07	0.33	7.09	0.19	0.43
		-0.23	0.05		0.01	0.01		-0.26	0.07		-0.01	0.01		0.05	0.05
2Y3ZTZ	6.60	-1.48	1.35	5.56	-0.39	1.04	6.22	-0.65	1.28	6.81	-1.77	2.53	7.01	-0.13	0.47
		-0.26	0.15		-0.12	0.08		-0.18	0.09		-0.30	0.11		-0.03	0.06
D6PWDR	6.75	-0.61	0.28	5.83	0.44	0.77	6.49	0.33	0.22	7.16	0.31	0.23	7.13	0.34	0.13
		-0.11	0.03		0.14	0.06		0.09	0.02		0.05	0.01		0.09	0.02
4P7QD2	6.69	-0.94	0.24	5.53	-0.50	0.45	6.24	-0.59	0.25	6.89	-1.28	0.23	6.91	-0.49	0.20
		-0.16	0.03		-0.16	0.03		-0.16	0.02		-0.22	0.01		-0.13	0.02
PZEKPF	6.98	0.77	0.14	5.68	-0.02	0.24	6.40	-0.01	0.08	7.19	0.46	0.35	7.14	0.36	0.15
		0.13	0.02		-0.01	0.02		0.00	0.01		0.08	0.02		0.10	0.02
JUBP4K	6.82	-0.18		6.02	1.04		6.53	0.49		7.21	0.60		7.02	-0.09	
		-0.03	0.00		0.33	0.00		0.13	0.00		0.10	0.00		-0.02	0.00
4872WX	6.88	0.18	3.40	7.37	5.25	0.32	7.31	3.42	0.33	7.23	0.72	1.59	6.16	-3.33	3.62
		0.03	0.37		1.68	0.02		0.92	0.02		0.12	0.07		-0.88	0.42
6V7P2W	6.61	-1.41	0.72	5.51	-0.54	0.58	6.19	-0.79	0.96	6.83	-1.65	1.35	6.89	-0.58	0.39
		-0.24	0.08		-0.17	0.04		-0.21	0.07		-0.28	0.06		-0.15	0.05



ALP Program - Participant Web Summary Report - Cycle 23

	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		
Grand Median		6.85			5.69			6.40			7.11			7.04	
Median Abs Dev		0.11			0.11			0.12			0.08			0.09	
Avg Within Lab SD		0.11			0.07			0.07			0.04			0.12	
Labs Included		18			18			18			18			18	
Labs Reporting		18			18			18			18			18	



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

	pH (1:1) 0.01M CaCl ₂ (SubTestCode 117) in the Soil pH & EC Property Groups														
	SRS1401			SRS1402			SRS1403			SRS1404			SRS1405		
NVRNBQ	6.24	-0.94	1.61	5.32	0.16	0.12	5.83	-0.84	0.24	6.64	-1.31	1.17	6.62	-0.82	0.33
		-0.14	0.07		0.02	0.01		-0.07	0.01		-0.16	0.06		-0.09	0.02
MM2LUN	6.42	0.29	1.05	5.28	-0.22	0.23	5.91	0.08	0.74	6.69	-0.89	0.19	6.71	0.00	0.28
		0.04	0.04		-0.02	0.01		0.01	0.03		-0.11	0.01		0.00	0.02
KKY4HM	6.26	-0.76	0.14	5.26	-0.41	0.23	5.84	-0.72	0.24	6.65	-1.20	0.29	6.60	-1.07	0.09
		-0.11	0.01		-0.04	0.01		-0.06	0.01		-0.14	0.02		-0.11	0.01
LEBJDL	6.42	0.27	0.14	5.30	-0.03	0.59	5.92	0.28	1.01	6.81	0.08	1.06	6.73	0.22	0.33
		0.04	0.01		0.00	0.03		0.02	0.04		0.01	0.06		0.02	0.02
3PWDKZ	6.62	1.61	1.24	5.62	3.02	0.12	6.08	2.15	0.24	6.98	1.50	0.45	6.74	0.25	0.65
		0.24	0.05		0.32	0.01		0.18	0.01		0.18	0.02		0.03	0.04
PDLGXA	6.38	0.00	0.78	5.32	0.19	0.41	5.88	-0.28	1.01	6.83	0.25	0.49	6.74	0.25	0.24
		0.00	0.03		0.02	0.02		-0.02	0.04		0.03	0.03		0.03	0.02
C3CKCJ	6.00	-2.52	1.45	5.00	-2.86	3.39	6.01	1.27	3.54	6.48	-2.62	3.43	6.34	-3.47	3.78
		-0.38	0.06		-0.30	0.17		0.11	0.15		-0.31	0.18		-0.37	0.24
ADE96P	6.43	0.38	1.39	5.30	0.00	0.00	5.90	0.00	0.00	6.80	0.03	0.00	6.70	-0.09	0.00
		0.06	0.06		0.00	0.00		0.00	0.00		0.00	0.00		-0.01	0.00
TU3VJ3	6.77	2.63	1.58	5.56	2.51	0.82	6.17	3.19	0.61	6.83	0.28	0.00	6.93	2.08	0.00
		0.39	0.07		0.26	0.04		0.27	0.03		0.03	0.00		0.22	0.00
96N7NM	6.38	0.00	1.24	5.27	-0.29	1.24	5.85	-0.56	0.28	6.77	-0.22	0.51	6.71	-0.03	0.56
		0.00	0.05		-0.03	0.06		-0.05	0.01		-0.03	0.03		0.00	0.04
6M3BLP	6.38	0.00	1.24	5.27	-0.29	1.24	5.85	-0.56	0.28	6.77	-0.22	0.51	6.71	-0.03	0.56
		0.00	0.05		-0.03	0.06		-0.05	0.01		-0.03	0.03		0.00	0.04
EHV3AC	6.45	0.51	0.98	5.30	-0.03	0.31	5.93	0.40	0.51	6.80	0.00	0.40	6.77	0.57	0.28
		0.08	0.04		0.00	0.02		0.03	0.02		0.00	0.02		0.06	0.02
GQ3LL8	6.37	-0.07	0.28	5.32	0.22	0.51	5.90	-0.04	0.37	6.81	0.11	0.33	6.74	0.25	0.40
		-0.01	0.01		0.02	0.03		0.00	0.02		0.01	0.02		0.03	0.03
PU98PV	6.36	-0.09	0.14	5.33	0.29	0.70	5.92	0.24	0.49	6.70	-0.81	0.19	6.69	-0.16	0.18
		-0.01	0.01		0.03	0.03		0.02	0.02		-0.10	0.01		-0.02	0.01
4DBTA3	6.50	0.83		5.33	0.29	0.00	5.95	0.64	0.37	6.87	0.61	0.19	6.81	0.92	0.24
		0.12	0.00		0.03	0.00		0.05	0.02		0.07	0.01		0.10	0.02
VJ8PJ2	6.40	0.16	0.00	5.30	0.00	0.00	5.90	0.00	0.00	6.87	0.58	1.11	6.73	0.22	0.92
		0.02	0.00		0.00	0.00		0.00	0.00		0.07	0.06		0.02	0.06
D6PWDR	6.31	-0.42	0.70	5.37	0.67	0.54	5.88	-0.24	0.64	6.71	-0.75	0.29	6.60	-1.01	0.33
		-0.06	0.03		0.07	0.03		-0.02	0.03		-0.09	0.02		-0.11	0.02
Grand Median		6.38		5.30			5.90			6.80			6.71		
Median Abs Dev		0.06		0.03			0.03			0.07			0.03		
Avg Within Lab SD		0.04		0.05			0.04			0.05			0.06		
Labs Included		17		17			17			17			17		
Labs Reporting		17		17			17			17			17		



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

pH (1:2) 0.01M CaCl ₂ (SubTestCode 118)	in the Soil pH & EC Property Groups															Data units: Unit
	SRS1401	SRS1402	SRS1403	SRS1404	SRS1405											
KKY4HM	6.33	0.00	0.16	5.29	0.14	0.09	5.85	0.53	0.44	6.65	0.42	0.34	6.61	0.53	1.05	
		0.00	0.01		0.02	0.01		0.08	0.02		0.08	0.03		0.09	0.03	
C3CKCJ	6.49	0.92	1.37	5.32	0.34	2.50	5.74	-0.17	1.92	6.19	-1.86	2.10	6.34	-0.98	2.24	
		0.16	0.08		0.05	0.27		-0.03	0.08		-0.37	0.16		-0.17	0.07	
FWAPXZ	6.02	-1.83	1.72	5.10	-1.17	0.95	5.53	-1.51	1.35	6.34	-1.13	2.01	6.29	-1.28	1.32	
		-0.31	0.10		-0.17	0.10		-0.24	0.05		-0.23	0.15		-0.23	0.04	
DNJMGX	6.38	0.28	0.25	5.27	0.00	0.48	5.94	1.09	0.39	6.84	1.36	0.08	6.73	1.21	0.30	
		0.05	0.02		0.00	0.05		0.17	0.02		0.27	0.01		0.21	0.01	
2Y3ZTZ	6.09	-1.43	1.65	5.10	-1.13	0.37	5.67	-0.64	0.89	6.56	0.00	0.28	6.49	-0.17	0.46	
		-0.24	0.10		-0.17	0.04		-0.10	0.04		0.00	0.02		-0.03	0.02	
D6PWDR	6.34	0.08	0.09	5.32	0.36	1.17	5.92	1.00	0.78	6.76	1.00	0.28	6.70	1.02	0.18	
		0.01	0.01		0.05	0.13		0.16	0.03		0.20	0.02		0.18	0.01	
4P7QD2	6.27	-0.37	1.09	5.12	-1.02	0.16	5.75	-0.09	1.03	6.53	-0.18	0.51	6.48	-0.19	0.88	
		-0.06	0.07		-0.15	0.02		-0.01	0.04		-0.04	0.04		-0.03	0.03	
JUBP4K	6.43	0.59		5.47	1.35		5.93	1.04		6.56	-0.02		6.64	0.70		
		0.10	0.00		0.20	0.00		0.16	0.00		0.00	0.00		0.12	0.00	
6V7P2W	6.23	-0.57	0.41	5.19	-0.56	0.28	5.77	0.00	0.82	6.58	0.10	0.20	6.52	0.00	0.18	
		-0.10	0.03		-0.08	0.03		0.00	0.03		0.02	0.02		0.00	0.01	
Grand Median	6.33			5.27			5.77			6.56			6.52			
Median Abs Dev		0.10			0.08			0.10			0.08			0.12		
Avg Within Lab SD		0.06			0.11			0.04			0.07			0.03		
Labs Included		9			9			9			9			9		
Labs Reporting		9			9			9			9			9		



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

Soil EC (1:5) H2O (SubTestCode 119)	in the Soil pH & EC Property Groups										Data units: dS/m
	SRS1401		SRS1402		SRS1403		SRS1404		SRS1405		
DNJMGX	0.08	0.00	0.17	0.14	0.08	1.24	0.16	1.29	0.20	0.55	
		0.00		0.00		0.00		0.00		0.00	
99PAHV	0.01	0.00	0.02	1.04	0.01	0.04	0.01	0.32	0.02	0.68	
		0.00		0.00		0.00		0.00		0.00	
D6PWDR	0.28	1.73	0.15	1.38	0.09	1.21	0.16	1.11	0.19	1.50	
		0.36		0.00		0.00		0.00		0.00	
Grand Median	0.084		0.15		0.084		0.16		0.19		
Median Abs Dev											
Avg Within Lab SD	0.209		0.00		0.002		0.00		0.00		
Labs Included	3		3		3		3		3		
Labs Reporting	3		3		3		3		3		



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

	Soil pH (1:5) 0.01 M CaCl2 (SubTestCode 120)					in the Soil pH & EC Property Groups					Data units: Unit
	SRS1401		SRS1402		SRS1403		SRS1404		SRS1405		SRS1405
D6PWDR	2.35	1.00 0.06	2.39	1.00 0.04	2.35	1.00 0.01	2.41	1.00 0.03	2.41	1.00 0.02	1.00 0.02
Grand Median	2.35		2.39		2.35		2.41		2.41		
Median Abs Dev	0.06		0.04		0.01		0.03		0.02		
Avg Within Lab SD	0.06		0.04		0.01		0.03		0.02		
Labs Included	1		1		1		1		1		
Labs Reporting	1		1		1		1		1		



ALP Program - Participant Web Summary Report - Cycle 23

Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

SMP Buffer pH (SubTestCode 121)	in the Buffer pH, Lime Requirement Property Groups															Data units: Unit
	SRS1401			SRS1402			SRS1403			SRS1404			SRS1405			
NVRNBQ	7.34	0.36	1.44	6.61	0.24	1.66	7.15	0.59	1.09	7.24	-0.15	1.62	7.32	-0.09	1.28	
		0.06	0.06		0.05	0.08		0.10	0.06		-0.02	0.05		-0.01	0.04	
MM2LUN	7.04	-1.54	0.79	6.04	-2.49	1.12	6.82	-1.49	0.61	7.09	-1.40	0.47	7.23	-0.86	0.45	
		-0.24	0.03		-0.52	0.06		-0.24	0.04		-0.17	0.02		-0.10	0.02	
KKY4HM	7.12	-1.03	1.35	6.44	-0.54	0.77	7.06	0.03	0.63	7.21	-0.39	0.81	7.32	-0.12	0.90	
		-0.16	0.06		-0.11	0.04		0.01	0.04		-0.05	0.03		-0.01	0.03	
VFBYEB	7.36	0.44	0.51	7.01	2.18	0.54	7.40	2.17	0.82	7.46	1.62	0.18	7.48	1.33	0.29	
		0.07	0.02		0.45	0.03		0.35	0.05		0.20	0.01		0.15	0.01	
ARD6BU	7.17	-0.76	0.14	6.40	-0.77	0.12	6.90	-0.95	0.27	7.18	-0.67	0.47	7.31	-0.21	0.34	
		-0.12	0.01		-0.16	0.01		-0.15	0.02		-0.08	0.02		-0.02	0.01	
PDLGXA	7.32	0.23	1.40	6.48	-0.38	0.82	7.05	-0.03	1.25	7.33	0.58	0.00	7.39	0.56	0.45	
		0.04	0.06		-0.08	0.04		-0.01	0.07		0.07	0.00		0.06	0.02	
VFA93Z	6.93	-2.24	1.42	6.70	0.69	2.03	6.73	-2.01	2.66	7.10	-1.29	0.00	7.10	-2.04	2.94	
		-0.35	0.06		0.14	0.10		-0.32	0.15		-0.16	0.00		-0.23	0.10	
TU3VJ3	7.31	0.17	2.23	6.68	0.58	1.69	7.05	-0.03	1.22	7.28	0.20	2.38	7.36	0.24	1.19	
		0.03	0.09		0.12	0.08		-0.01	0.07		0.03	0.08		0.03	0.04	
96N7NM	7.31	0.15	0.49	6.58	0.11	0.41	7.05	-0.03	0.80	7.27	0.10	0.81	7.33	0.00	0.78	
		0.02	0.02		0.02	0.02		-0.01	0.05		0.01	0.03		0.00	0.03	
6M3BLP	7.31	0.15	0.49	6.58	0.11	0.41	7.05	-0.03	0.80	7.27	0.10	0.81	7.33	0.00	0.78	
		0.02	0.02		0.02	0.02		-0.01	0.05		0.01	0.03		0.00	0.03	
PU98PV	7.27	-0.08	0.51	6.61	0.27	0.31	7.07	0.11	0.36	7.21	-0.42	0.35	7.29	-0.38	0.34	
		-0.01	0.02		0.06	0.02		0.02	0.02		-0.05	0.01		-0.04	0.01	
XBN6AL	7.40	0.72	0.00	6.67	0.53	1.17	7.23	1.11	1.00	7.43	1.43	1.77	7.60	2.39	0.00	
		0.11	0.00		0.11	0.06		0.18	0.06		0.18	0.06		0.27	0.00	
ZKNFUF	7.30	0.08	0.25	6.53	-0.11	0.31	7.11	0.36	0.20	7.31	0.45	0.47	7.38	0.47	0.61	
		0.01	0.01		-0.02	0.02		0.06	0.01		0.06	0.02		0.05	0.02	
999DPV	7.24	-0.32	0.28	6.53	-0.13	0.20	7.15	0.57	0.20	7.32	0.50	0.53	7.41	0.68	0.17	
		-0.05	0.01		-0.03	0.01		0.09	0.01		0.06	0.02		0.08	0.01	
99PAHV	7.03	-1.63	0.16	6.28	-1.34	0.91	6.87	-1.16	0.45	7.09	-1.41	0.56	7.18	-1.33	0.14	
		-0.26	0.01		-0.28	0.04		-0.19	0.03		-0.17	0.02		-0.15	0.00	
4X72UR	7.15	-0.89	1.16	6.49	-0.32	0.81	7.07	0.11	0.70	7.25	-0.10	1.08	7.34	0.09	1.06	
		-0.14	0.05		-0.07	0.04		0.02	0.04		-0.01	0.04		0.01	0.04	
Grand Median		7.29			6.56			7.06			7.26			7.33		
Median Abs Dev		0.06			0.10			0.08			0.06			0.05		
Avg Within Lab SD		0.04			0.05			0.06			0.03			0.03		
Labs Included		16			16			16			16			16		
Labs Reporting		16			16			16			16			16		



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

Sikora Buffer pH (SubTestCode 122)			in the Buffer pH, Lime Requirement Property Groups												Data units: Unit	
SRS1401			SRS1402			SRS1403			SRS1404			SRS1405				
XQ6Y6J	7.33	0.58	1.23	6.73	0.62	1.17	7.23	0.92	1.91	7.37	1.31	1.90	7.47	1.08	1.74	
		0.07	0.06		0.13	0.06		0.13	0.06		0.13	0.06		0.10	0.06	
PGLRRN	7.27	0.00	1.23	6.57	-0.18	1.17	7.03	-0.46	1.91	7.20	-0.41	0.00	7.40	0.38	0.00	
		0.00	0.06		-0.04	0.06		-0.07	0.06		-0.04	0.00		0.04	0.00	
LEBJDL	7.17	-0.87	0.25	6.49	-0.53	0.62	7.03	-0.46	0.51	7.20	-0.38	1.48	7.28	-0.87	0.60	
		-0.10	0.01		-0.11	0.03		-0.07	0.02		-0.04	0.05		-0.08	0.02	
QDJ96F	7.20	-0.58	0.00	6.70	0.46	0.00	7.17	0.46	1.91	7.30	0.62	0.00	7.40	0.38	0.00	
		-0.07	0.00		0.10	0.00		0.07	0.06		0.06	0.00		0.04	0.00	
VFBYEB	7.34	0.67	0.25	6.98	1.79	0.51	7.29	1.28	1.06	7.38	1.45	0.99	7.38	0.14	0.97	
		0.08	0.01		0.37	0.03		0.19	0.03		0.14	0.03		0.01	0.03	
82U34V	7.33	0.52	0.33	6.76	0.75	0.73	7.19	0.62	0.57	7.32	0.83	0.66	7.43	0.66	0.46	
		0.06	0.02		0.16	0.04		0.09	0.02		0.08	0.02		0.06	0.02	
FC666L	7.22	-0.43	0.33	6.66	0.26	0.42	7.19	0.62	0.33	7.32	0.83	0.33	7.43	0.69	0.00	
		-0.05	0.02		0.05	0.02		0.09	0.01		0.08	0.01		0.07	0.00	
PN6V2C	7.02	-2.17	0.62	6.18	-2.01	0.58	6.80	-2.06	1.66	7.08	-1.62	0.95	7.18	-1.88	0.87	
		-0.25	0.03		-0.42	0.03		-0.30	0.05		-0.16	0.03		-0.18	0.03	
ADE96P	7.13	-1.16	2.47	6.60	-0.02	0.00	7.10	0.00	0.00	7.23	-0.07	1.90	7.35	-0.14	2.13	
		-0.13	0.12		0.00	0.00		0.00	0.00		-0.01	0.06		-0.01	0.07	
VFA93Z	7.03	-2.03	1.23	6.63	0.14	2.33	6.80	-2.06	0.00	7.20	-0.41	0.00	7.10	-2.74	0.00	
		-0.23	0.06		0.03	0.12		-0.30	0.00		-0.04	0.00		-0.26	0.00	
96N7NM	7.30	0.29	1.13	6.60	-0.03	1.35	7.09	-0.09	0.83	7.21	-0.31	0.87	7.34	-0.24	1.88	
		0.03	0.05		-0.01	0.07		-0.01	0.03		-0.03	0.03		-0.02	0.06	
6M3BLP	7.30	0.29	1.13	6.60	-0.03	1.35	7.09	-0.09	0.83	7.21	-0.31	0.87	7.34	-0.24	1.88	
		0.03	0.05		-0.01	0.07		-0.01	0.03		-0.03	0.03		-0.02	0.06	
TYT44W				6.50	-0.50	2.02										
					-0.10	0.10										
GQ3LL8	7.30	0.26	0.12	6.66	0.26	0.23	7.12	0.16	0.19	7.28	0.45	0.19	7.36	0.00	0.35	
		0.03	0.01		0.05	0.01		0.02	0.01		0.04	0.01		0.00	0.01	
QGZJCR				7.53	4.44	1.07										
					0.93	0.05										
MADJ8P	7.25	-0.14		6.60	0.00	0.12	7.20	0.69	0.00	7.35	1.10	0.19	7.44	0.83	0.17	
		-0.02	0.00		0.00	0.01		0.10	0.00		0.11	0.01		0.08	0.01	
TMGXVF	7.17	-0.87	1.23	6.60	-0.02	0.00	7.00	-0.69	0.00	7.17	-0.76	1.90	7.30	-0.66	0.00	
		-0.10	0.06		0.00	0.00		-0.10	0.00		-0.07	0.06		-0.06	0.00	
839E2Z	7.27	0.03	0.00	6.54	-0.32	0.47	7.08	-0.11	0.19	7.24	0.00	0.00	7.35	-0.14	0.00	
		0.00	0.00		-0.07	0.02		-0.02	0.01		0.00	0.00		-0.01	0.00	
YLNT44	7.33	0.58	1.23	6.70	0.46	0.00	7.20	0.69	0.00	7.30	0.62	0.00	7.40	0.38	0.00	
		0.07	0.06		0.10	0.00		0.10	0.00		0.06	0.00		0.04	0.00	



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	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		
Grand Median		7.27			6.60			7.10			7.24			7.36	
Median Abs Dev		0.07			0.07			0.09			0.06			0.04	
Avg Within Lab SD		0.05			0.05			0.03			0.03			0.03	
Labs Included		17			19			17			17			17	
Labs Reporting		17			19			17			17			17	



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

Adams-Evans Buffer pH (SubTestCode 123)				in the Buffer pH, Lime Requirement Property Groups								Data units: Unit			
SRS1401				SRS1402			SRS1403			SRS1404		SRS1405			
MBLU4T				7.46	-0.47	1.52	7.71	-0.74	0.90						
					-0.04	0.03		-0.02	0.02						
NVRNBQ	7.82	0.00	0.43	7.64	1.69	1.01	7.75	0.42	1.02	7.80	0.78	1.07	7.84	0.45	0.50
		0.00	0.01		0.14	0.02		0.01	0.02		0.03	0.02		0.01	0.01
PDLGXA	7.82	0.00	1.72	7.55	0.55	0.67	7.76	0.84	1.23	7.79	0.52	1.19	7.81	-0.45	1.65
		0.00	0.04		0.05	0.02		0.03	0.02		0.02	0.02		-0.01	0.04
FKH4QJ	7.83	0.77	0.66	7.50	0.00		7.74	0.00	1.23	7.75	-0.52	1.19	7.86	1.22	0.91
		0.01	0.02		0.00	0.00		0.00	0.02		-0.02	0.02		0.03	0.02
U6T2RR	7.79	-1.93	0.66	7.44	-0.67	1.10	7.69	-1.37	0.34	7.74	-0.87	0.00	7.81	-0.58	0.44
		-0.03	0.02		-0.06	0.03		-0.04	0.01		-0.03	0.00		-0.02	0.01
Grand Median	7.82			7.50			7.74			7.77			7.83		
Median Abs Dev	0.01			0.05			0.02			0.03			0.01		
Avg Within Lab SD	0.02			0.02			0.02			0.02			0.02		
Labs Included	4			5			5			4			4		
Labs Reporting	4			5			5			4			4		



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

Woodruff Buffer pH (SubTestCode 124)	in the Buffer pH, Lime Requirement Property Groups												Data units: Unit		
	SRS1401			SRS1402			SRS1403			SRS1404			SRS1405		
NVRNBQ	6.91	-0.88	0.48	6.47	0.30	0.11	6.77	-0.27	0.57	6.89	-0.98	1.11	6.93	-1.23	0.40
		-0.06	0.01		0.04	0.01		-0.03	0.02		-0.11	0.02		-0.08	0.01
MM2LUN	6.94	-0.56	0.63	6.23	-1.53	0.75	6.78	-0.24	0.57	6.98	-0.14	0.64	6.97	-0.54	1.05
		-0.04	0.02		-0.20	0.04		-0.02	0.02		-0.02	0.01		-0.04	0.02
LEBJDL	6.90	-1.11	0.48	6.38	-0.38	0.49	6.80	-0.02	0.43	6.92	-0.67	2.25	6.99	-0.34	1.05
		-0.08	0.01		-0.05	0.03		0.00	0.01		-0.07	0.04		-0.02	0.02
3PWDKZ	7.09	1.58	1.10	6.73	2.34	1.30	6.98	2.02	0.43	7.44	4.18	0.37	7.04	0.44	1.38
		0.11	0.03		0.30	0.07		0.19	0.01		0.45	0.01		0.03	0.02
PDLGXA	6.90	-1.11	1.27	6.35	-0.61	1.13	6.74	-0.67	1.30	6.94	-0.51	0.00	6.95	-0.94	1.05
		-0.08	0.03		-0.08	0.06		-0.06	0.04		-0.06	0.00		-0.06	0.02
GRVM9A	6.97	-0.14	2.40	6.27	-1.27	1.07	6.73	-0.71	2.14	7.00	0.05		7.00	-0.15	
		-0.01	0.06		-0.16	0.06		-0.07	0.06		0.01	0.00		-0.01	0.00
ADE96P	7.00	0.32		6.43	0.04	2.14	6.90	1.11	0.00	7.00	0.05		7.10	1.33	0.00
		0.02	0.00		0.01	0.12		0.10	0.00		0.01	0.00		0.09	0.00
GQ3LL8	7.01	0.42	0.48	6.42	-0.04	0.28	6.87	0.78	0.98	7.01	0.14	0.64	7.11	1.43	0.40
		0.03	0.01		-0.01	0.02		0.07	0.03		0.02	0.01		0.10	0.01
PU98PV	6.98	0.00	1.05	6.44	0.07	0.60	6.80	0.02	1.11	6.99	-0.02	1.61	7.02	0.20	1.05
		0.00	0.03		0.01	0.03		0.00	0.03		0.00	0.03		0.01	0.02
TB276K	6.98	0.00	0.48	6.45	0.17	0.19	6.88	0.89	0.74	7.00	0.02	0.37	7.02	0.15	1.83
		0.00	0.01		0.02	0.01		0.08	0.02		0.00	0.01		0.01	0.03
GXDZ7N	7.07	1.30	0.00												
		0.09	0.00												
Grand Median		6.98		6.43			6.80			7.00			7.01		
Median Abs Dev		0.04		0.04			0.06			0.02			0.03		
Avg Within Lab SD		0.02		0.05			0.03			0.02			0.01		
Labs Included		11		10			10			10			10		
Labs Reporting		11		10			10			10			10		



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

Mehlich Buffer pH (SubTestCode 125)	in the Buffer pH, Lime Requirement Property Groups										Data units: Unit			
SRS1401	SRS1402	SRS1403	SRS1404	SRS1405										
ADE96P	6.37	1.41 0.06	5.97	1.00 0.06	6.27	1.00 0.06	6.60	1.00 0.00	6.50	0.00				
VJ8PJ2	6.50	0.00	6.03	1.00 0.06	6.37	1.00 0.06								
Grand Median	6.43		6.00		6.32		6.60		6.50					
Median Abs Dev														
Avg Within Lab SD	0.04		0.06		0.06		0.00		0.00					
Labs Included	2		2		2		1		1					
Labs Reporting	2		2		2		1		1					



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

NO3-N Cd. Rd. (SubTestCode 126)				in the Inorganic Nitrogen (NO3-N & NH4-N) Property Groups												Data units: mg/kg		
SRS1401				SRS1402			SRS1403			SRS1404			SRS1405					
XQ6Y6J	22.5	0.3	0.2	72.0	0.1	0.1	28.5	-0.3	0.4	55.5	-0.3	0.9	58.3	-0.2	0.7			
		1.4	0.5		0.6	0.5		-1.7	0.5		-1.9	1.7		-1.7	1.4			
NVRNBQ	17.7	-0.7	0.5	79.9	1.0	0.3	30.8	0.1	0.1	61.0	0.6	0.3	61.3	0.2	0.3			
		-3.4	1.2		8.5	1.0		0.6	0.2		3.6	0.5		1.2	0.6			
X8RE9F	24.5	0.7	5.6	78.3	0.8	4.2	34.4	0.8	0.9	54.3	-0.5	1.1	63.1	0.4	0.9			
		3.4	12.9		6.9	14.2		4.2	1.2		-3.1	2.0		3.0	1.8			
PGLRRN	23.8	0.5	0.4	71.1	0.0	0.5	29.5	-0.1	0.3	58.3	0.2	0.7	60.0	0.0	0.7			
		2.7	0.9		-0.4	1.8		-0.8	0.5		0.9	1.2		-0.1	1.6			
MM2LUN	22.2	0.2	0.2	69.7	-0.2	1.3	39.8	1.7	2.5	62.1	0.8	1.6	62.6	0.3	2.1			
		1.1	0.5		-1.7	4.5		9.6	3.4		4.7	3.0		2.6	4.5			
XNEVBC	15.7	-1.1	0.1	82.4	1.3	0.2	23.4	-1.2	0.2	58.6	0.2	0.2	60.0	0.0	0.3			
		-5.4	0.1		10.9	0.6		-6.8	0.3		1.3	0.4		0.0	0.6			
KKY4HM	15.6	-1.1	0.8	48.2	-2.8	1.1	18.8	-2.1	1.5	43.4	-2.5	2.2	43.7	-2.1	2.5			
		-5.5	1.8		-23.2	3.7		-11.5	2.0		-14.0	4.1		-16.4	5.3			
LEBJDL	17.7	-0.7	0.5	71.0	-0.1	1.4	30.7	0.1	0.4	64.0	1.2	4.1	62.3	0.3	1.9			
		-3.4	1.2		-0.4	4.6		0.5	0.6		6.6	0.0		2.3	4.0			
VFBYEB	17.7	-0.7	0.2	69.3	-0.3	0.7	34.7	0.8	1.1	59.0	0.3	1.9	68.3	1.1	1.1			
		-3.4	0.6		-2.1	2.5		4.5	1.5		1.6	3.6		8.3	2.3			
ARD6BU	27.2	1.2	0.4	90.0	2.2	0.3	32.3	0.4	0.5	59.2	0.3	1.0	50.9	-1.2	0.2			
		6.1	0.9		18.6	1.2		2.1	0.7		1.8	1.8		-9.2	0.4			
82U34V	21.3	0.0	0.6	75.1	0.4	0.7	40.7	1.9	1.2	61.9	0.8	0.1	71.4	1.5	0.5			
		0.2	1.3		3.6	2.5		10.5	1.7		4.5	0.1		11.4	1.0			
ETYBXN	14.9	-1.2	0.0	45.8	-3.1	0.1	24.4	-1.1	0.1	45.4	-2.1	0.1	45.2	-1.9	0.1			
		-6.2	0.1		-25.7	0.3		-5.8	0.1		-12.0	0.1		-14.8	0.2			
PN6V2C	12.3	-1.7	0.2	62.3	-1.1	0.5	33.3	0.6	0.4	60.3	0.5	0.3	65.7	0.7	0.5			
		-8.8	0.6		-9.1	1.5		3.1	0.6		2.9	0.6		5.6	1.2			
8JTXZT	21.8	0.1	0.3	73.2	0.2	0.1	26.8	-0.6	0.4	55.0	-0.4	0.5	54.3	-0.7	0.4			
		0.7	0.7		1.7	0.5		-3.5	0.6		-2.4	0.9		-5.7	0.9			
PDLGXA	19.9	-0.2	0.2	68.4	-0.4	0.2	25.1	-0.9	1.0	52.3	-0.9	0.4	54.0	-0.8	0.9			
		-1.2	0.5		-3.0	0.7		-5.1	1.3		-5.1	0.7		-6.1	2.0			
6P9R3T	21.1	0.0	0.3	74.3	0.3	0.4	37.1	1.2	2.9	61.9	0.8	1.3	61.6	0.2	2.1			
		0.0	0.6		2.9	1.5		6.8	4.0		4.5	2.4		1.6	4.4			
P7RC69	23.7	0.5	0.6	79.3	0.9	0.3	32.0	0.3	0.6	62.4	0.9	0.2	62.0	0.3	1.0			
		2.7	1.4		7.8	1.0		1.8	0.8		5.0	0.4		2.0	2.1			
T3CD22	25.5	0.9	0.2	85.3	1.7	0.2	37.9	1.4	0.2	67.5	1.8	0.6	73.5	1.7	0.3			
		4.4	0.5		13.9	0.8		7.6	0.2		10.1	1.2		13.5	0.6			
GRVM9A	17.3	-0.8	0.1	76.2	0.6	0.2	32.3	0.4	0.4	60.8	0.6	0.4	72.4	1.6	0.2			
		-3.8	0.3		4.7	0.7		2.1	0.6		3.4	0.8		12.4	0.4			
UAAAE7	17.0	-0.8	0.2	71.4	0.0	1.1	33.4	0.6	0.5	59.7	0.4	1.6	66.9	0.9	0.3			
		-4.1	0.5		0.0	3.7		3.2	0.6		2.3	3.0		6.9	0.7			



ALP Program - Participant Web Summary Report - Cycle 23

	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		
FKH4QJ	14.7	-1.3	0.3	65.0	-0.8	1.0	27.3	-0.5	0.1	52.9	-0.8	0.8	52.4	-1.0	1.0
ADE96P	20.1	-6.3	0.8	66.3	-6.5	3.2	23.8	-2.9	0.1	51.5	-4.5	1.5	52.0	-7.7	2.0
47FVHT	22.7	-0.2	0.1	72.7	-0.6	0.2	184.7	-1.2	2.2	51.4	-1.0	0.3	67.5	-1.0	0.8
96N7NM	21.3	-1.0	0.3	73.8	-5.2	0.6	28.5	-6.4	2.9	57.7	-5.9	0.6	57.2	-8.0	1.7
FHRYXC	24.7	0.3	0.5	72.8	0.1	0.3	32.5	28.1	1.2	59.3	-1.0	0.5	55.1	1.0	0.4
EHV3AC	27.1	1.6	1.1	70.9	1.2	1.1	31.3	154.5	1.6	58.0	-5.9	0.9	59.3	7.4	0.8
TYT44W	14.5	0.0	0.1	68.5	0.3	0.5	34.2	-0.3	0.6	55.8	0.1	0.4	64.8	-0.4	0.5
EYHHD9	14.2	0.2	0.2	60.8	2.3	1.8	29.8	-1.7	0.8	52.9	0.3	0.7	61.1	-2.8	1.1
QEAEJK	21.1	0.7	0.3	71.5	0.2	0.7	27.5	0.4	0.2	55.6	0.3	0.2	54.9	-0.6	0.7
TMGXVF	15.5	3.6	0.7	77.3	1.4	2.2	28.4	2.3	0.3	55.8	2.0	0.3	60.4	-5.0	1.4
839E2Z	15.0	1.2	0.3	71.3	-0.1	0.3	33.0	0.2	0.4	60.2	0.1	0.6	65.5	-0.1	0.3
HZKKTN	22.7	6.0	0.7	66.3	-0.5	0.9	27.7	1.1	0.5	51.7	0.6	1.1	55.3	-0.7	0.7
999DPV	21.3	-1.3	0.2	72.3	-0.4	1.5	28.3	0.7	0.9	55.0	-0.3	1.1	60.0	0.6	1.1
99PAHV	23.3	-6.6	0.5	72.0	-3.0	5.1	29.1	4.0	1.2	57.1	-1.6	2.0	60.0	4.8	2.4
PZEKPF	22.3	-1.4	0.2	67.5	-1.3	0.3	27.4	-0.1	0.5	53.2	-0.8	0.6	55.6	0.1	0.6
		-6.9	0.4		-10.7	1.1		-0.5	0.7		-4.5	1.0		1.1	1.2
		0.0	0.1		0.0	0.1		-0.5	0.4		-0.3	0.1		-0.7	0.8
		0.0	0.3		0.0	0.2		-2.7	0.5		-1.8	0.2		-5.2	1.7
		-1.1	0.2		0.7	1.9		-0.3	1.8		-0.3	3.2		0.0	1.9
		-5.6	0.5		5.9	6.3		-1.9	2.5		-1.6	6.0		0.4	4.0
		-1.2	0.0		0.0	0.2		0.5	0.2		0.5	0.4		0.7	0.5
		-6.1	0.1		-0.1	0.8		2.8	0.3		2.8	0.8		5.5	1.0
		0.3	0.2		-0.6	0.5		-0.5	0.4		-1.0	0.3		-0.6	0.3
		1.6	0.6		-5.1	1.5		-2.6	0.6		-5.7	0.6		-4.7	0.6
		0.0	0.0		0.1	0.0		-0.4	0.1		-0.4	0.1		-0.5	0.4
		0.2	0.1		0.9	0.1		-1.9	0.2		-2.4	0.1		-3.7	0.8
		0.4	0.1		0.1	0.3		-0.2	0.5		-0.1	0.2		0.0	0.2
		2.2	0.3		0.6	1.1		-1.1	0.7		-0.3	0.4		0.0	0.4
		0.2	0.1		-0.5	0.1		-0.5	0.3		-0.7	0.3		-0.6	0.5
		1.2	0.2		-4.0	0.5		-2.8	0.4		-4.2	0.6		-4.5	1.1
Grand Median		21.1		71.4			30.2			57.4			60.0		
Median Abs Dev		3.4		3.0			2.8			3.0			4.7		
Avg Within Lab SD		2.3		3.4			1.3			1.9			2.1		
Labs Included		34		34			34			34			34		
Labs Reporting		34		34			34			34			34		



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

NO3-N ISE (SubTestCode 127)	in the Inorganic Nitrogen (NO3-N & NH4-N) Property Groups															Data units: mg/kg
	SRS1401	SRS1402	SRS1403	SRS1404	SRS1405											
3AXLEP	19.4	0.2	1.0	66.9	0.3	0.4	25.5	-0.3	0.7	54.1	-0.1	0.1	56.4	0.1	0.8	
		0.5	0.6		3.9	0.9		-1.8	0.5		-0.8	0.5		0.8	1.3	
4NTEEW	140.3	35.9	23.0	56.0	-0.6	3.8	21.3	-0.9	5.5	40.0	-1.9	1.2	38.7	-1.5	2.0	
		121.5	13.8		-7.0	9.2		-6.0	4.2		-14.8	5.0		-16.9	3.1	
VFA93Z	15.8	-0.9	0.8	66.2	0.3	0.8	32.1	0.7	1.5	55.6	0.1	0.3	62.5	0.6	0.5	
		-3.1	0.5		3.2	1.9		4.8	1.1		0.8	1.2		6.9	0.8	
PU98PV	19.9	0.3	0.9	53.1	-0.8	0.7	29.1	0.3	0.8	62.7	1.0	1.8	54.8	-0.1	0.6	
		1.1	0.5		-9.9	1.6		1.8	0.6		7.9	7.4		-0.8	1.0	
MADJ8P	14.3	-1.3	1.6	59.8	-0.3	0.6	20.8	-1.0	1.5	45.7	-1.1	0.2	47.1	-0.8	0.8	
		-4.5	1.0		-3.2	1.5		-6.6	1.1		-9.1	0.7		-8.5	1.3	
QWWVMG	22.8	1.2		76.0	1.1		32.0	0.7		56.0	0.1		64.0	0.8		
		3.9	0.0		13.0	0.0		4.7	0.0		1.2	0.0		8.4	0.0	
YLNT44	18.3	-0.2	1.0	79.3	1.3	2.1	35.3	1.2	0.8	67.3	1.6	1.6	74.7	1.7	2.0	
		-0.5	0.6		16.4	5.0		8.0	0.6		12.5	6.5		19.1	3.1	
Grand Median		18.9		63.0			27.3			54.8			55.6			
Median Abs Dev		2.1		5.5			4.7			4.5			7.6			
Avg Within Lab SD		0.6		2.4			0.8			4.1			1.5			
Labs Included		6		6			6			6			6			
Labs Reporting		6		6			6			6			6			



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

NO3-N CTA (SubTestCode 128)	in the Inorganic Nitrogen (NO3-N & NH4-N) Property Groups										Data units: mg/kg
SRS1401	SRS1402		SRS1403		SRS1404		SRS1405				
MBLU4T	21.6	0.5	67.3	0.3	26.3	0.1	49.7	0.4	57.6	0.2	
		0.3		0.8		0.2		0.8		0.2	
FC666L	16.3	0.5	57.0	0.6	24.4	1.1	42.0	1.0	42.6	0.8	
		0.3		1.4		1.6		1.7		1.0	
4X72UR	22.2	1.6	68.8	1.6	30.1	1.4	54.9	1.4	57.9	1.5	
		0.9		3.8		2.1		2.4		1.9	
Grand Median	21.6		67.3		26.3		49.7		57.6		
Median Abs Dev											
Avg Within Lab SD	0.6		2.4		1.5		1.8		1.3		
Labs Included	3		3		3		3		3		
Labs Reporting	3		3		3		3		3		



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

NO3-N Ion Chr. (SubTestCode 129)	in the Inorganic Nitrogen (NO3-N & NH4-N) Property Groups										Data units: mg/kg
	SRS1401		SRS1402		SRS1403		SRS1404		SRS1405		
XBN6AL	20.2	1.3	67.0	1.6	25.3	0.4	53.4	0.7	54.1	0.9	
		0.9		1.5		0.5		0.5		2.1	
TB276K	20.8	1.2	77.4	0.6	29.5	1.7	59.0	1.6	64.1	1.5	
		0.8		0.5		2.2		1.2		3.6	
6V7P2W	21.2	0.0	70.6	0.0	27.5	0.0	55.4	0.0	55.8	0.0	
Grand Median	20.8		70.6		27.5		55.4		55.8		
Median Abs Dev											
Avg Within Lab SD	0.7		0.9		1.3		0.7		2.4		
Labs Included	3		3		3		3		3		
Labs Reporting	3		3		3		3		3		



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

NH4 - N (KCl Extr.) (SubTestCode 130)	in the Inorganic Nitrogen (NO3-N & NH4-N) Property Groups															Data units: mg/kg
	SRS1401			SRS1402			SRS1403			SRS1404			SRS1405			
XQ6Y6J	2.4	0.0	0.3	11.1	0.1	0.4	18.0	0.1	0.2	7.7	0.0	0.5	4.4	-0.2	0.1	
		-0.1	0.2		0.3	0.2		0.4	0.2		0.0	0.2		-0.4	0.1	
MBLU4T	1.5	-0.6	0.1	9.4	-0.5	0.3	15.1	-0.5	0.3	6.1	-0.5	0.2	3.5	-0.6	0.3	
		-0.9	0.1		-1.5	0.2		-2.6	0.3		-1.6	0.1		-1.2	0.1	
MM2LUN	3.7	0.8	0.3	11.6	0.2	2.4	19.1	0.3	1.0	12.9	1.6	1.5	6.8	1.0	1.3	
		1.3	0.1		0.8	1.5		1.5	1.0		5.1	0.7		2.1	0.5	
XNEVBC	2.8	0.2	0.3	10.8	0.0	0.3	14.7	-0.6	0.1	6.1	-0.5	1.1	4.3	-0.2	1.2	
		0.4	0.1		-0.1	0.2		-3.0	0.1		-1.7	0.5		-0.5	0.5	
KKY4HM				9.3	-0.5	0.7	14.7	-0.6	0.6	5.8	-0.6	0.5	2.4	-1.1	0.4	
					-1.5	0.4		-3.0	0.6		-1.9	0.2		-2.4	0.2	
LEBJDL	1.5	-0.6	0.1	10.3	-0.2	1.1	20.2	0.5	1.0	8.3	0.2	1.4	4.8	0.0	0.8	
		-0.9	0.0		-0.5	0.7		2.5	0.9		0.6	0.6		0.0	0.3	
VFBYEB	3.3	0.6	1.2	14.0	1.0		20.3	0.5	1.2	12.3	1.4	1.3	8.7	1.8	1.4	
		0.9	0.6		3.2	0.0		2.7	1.2		4.6	0.6		3.9	0.6	
ETYBXN	2.4	0.0	0.2	2.9	-2.6	0.2	7.1	-2.0	0.2	12.9	1.6	0.3	7.4	1.2	0.3	
		0.0	0.1		-7.9	0.1		-10.6	0.2		5.1	0.1		2.7	0.1	
FC666L	1.7	-0.5	0.6	8.7	-0.7	0.6	13.2	-0.8	0.3	5.2	-0.8	0.5	3.1	-0.8	0.0	
		-0.8	0.3		-2.1	0.4		-4.4	0.3		-2.5	0.2		-1.7	0.0	
P7RC69	10.9	5.5	1.8	41.0	10.0	1.3	60.9	8.2	3.1	23.8	5.0	2.0	7.0	1.0	2.5	
		8.4	0.9		30.1	0.8		43.2	3.0		16.1	0.9		2.3	1.0	
GRVM9A	2.0	-0.3	0.6	13.3	0.8	1.5	23.9	1.2	1.0	8.7	0.3	0.6	5.2	0.2	0.4	
		-0.4	0.3		2.5	0.9		6.2	1.0		1.0	0.3		0.5	0.2	
FKH4QJ	1.8	-0.4	0.5	11.6	0.3	0.8	19.3	0.3	1.1	8.2	0.1	1.4	4.8	0.0	1.8	
		-0.6	0.3		0.8	0.5		1.6	1.1		0.5	0.6		0.0	0.7	
ADE96P	9.0	4.3	4.1	16.0	1.7		22.7	1.0	1.2	12.3	1.4	1.3	8.7	1.8	1.4	
		6.6	2.0		5.2	0.0		5.0	1.2		4.6	0.6		3.9	0.6	
47FVHT	3.5	0.7	0.5	10.9	0.0	0.4	13.1	-0.9	0.2	5.2	-0.8	0.1	5.9	0.5	0.5	
		1.1	0.3		0.1	0.3		-4.6	0.2		-2.6	0.0		1.1	0.2	
96N7NM	2.7	0.1	0.3	13.3	0.8	1.3	19.0	0.3	0.4	11.4	1.2	1.5	6.5	0.8	1.1	
		0.2	0.2		2.5	0.8		1.3	0.4		3.7	0.7		1.7	0.5	
EHV3AC	3.6	0.7	0.2	10.3	-0.2	0.3	14.4	-0.6	0.1	6.8	-0.3	0.7	5.0	0.1	1.1	
		1.1	0.1		-0.6	0.2		-3.3	0.1		-1.0	0.3		0.2	0.5	
EYHHD9	2.0	-0.3	0.3	12.8	0.7	2.5	22.2	0.9	2.2	8.1	0.1	1.7	4.3	-0.2	0.5	
		-0.4	0.1		2.0	1.5		4.6	2.2		0.4	0.8		-0.5	0.2	
XBN6AL	0.7	-1.1	0.0	7.2	-1.2	0.6	11.2	-1.2	2.7	4.2	-1.1	1.3	1.6	-1.5	1.5	
		-1.8	0.0		-3.6	0.4		-6.5	2.6		-3.6	0.6		-3.2	0.6	
TB276K	3.4	0.6	0.7	3.3	-2.5	1.0	6.7	-2.1	1.5	3.3	-1.4	1.1	1.5	-1.5	1.5	
		1.0	0.3		-7.6	0.6		-10.9	1.4		-4.4	0.5		-3.2	0.6	
QEAEJK	4.0	1.0	0.5	11.6	0.3	0.2	17.7	0.0	0.1	7.7	0.0	0.5	4.3	-0.2	0.1	
		1.6	0.2		0.8	0.1		0.0	0.1		0.0	0.2		-0.4	0.0	



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	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		
839E2Z	2.1	-0.3	0.1	10.9	0.0	0.2	20.0	0.4	0.0	7.9	0.0	0.4	4.9	0.1	0.3
		-0.4	0.1		0.0	0.2		2.4	0.0		0.1	0.2		0.1	0.1
HZKKTN	4.3	1.2	1.1	12.9	0.7	1.3	18.0	0.1	0.9	10.0	0.7	1.4	6.4	0.8	2.0
		1.9	0.5		2.1	0.8		0.3	0.9		2.3	0.6		1.7	0.8
999DPV	2.5	0.0	0.3	10.8	0.0	0.0	16.4	-0.2	0.1	7.3	-0.1	0.1	3.8	-0.5	0.1
		0.0	0.1		-0.1	0.0		-1.3	0.1		-0.4	0.1		-1.0	0.1
PZEKPF	2.1	-0.2	0.3	9.7	-0.4	0.1	14.6	-0.6	0.3	6.1	-0.5	0.1	3.5	-0.6	0.1
		-0.4	0.2		-1.1	0.1		-3.1	0.3		-1.7	0.1		-1.2	0.1
Grand Median		2.45			10.9			17.7			7.73			4.78	
Median Abs Dev		0.83			1.5			3.0			1.67			1.25	
Avg Within Lab SD		0.49			0.6			1.0			0.44			0.42	
Labs Included		22			23			23			23			23	
Labs Reporting		22			23			23			23			23	



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	Sample Mean			Z Score			k Score			Sample Mean			Z Score			k Score			Sample Mean			Z Score			k Score					
		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD			
PO4-P Bray P1 (1:10) (SubTestCode 132) in the Phosphorus and Sulfur Property Groups																														
	SRS1401						SRS1402						SRS1403						SRS1404						SRS1405					
MBLU4T	30.0	0.7			143.0	0.3			11.8	-1.2	0.7			5.8	0.3	0.3			17.7	-0.7	0.6									
		2.5	0.0			4.8	0.0			-4.1	0.7				0.4	0.1				-2.7	0.6									
NVRNBQ	28.0	0.1	0.9		143.3	0.3	0.9		16.7	0.2	1.6			6.3	0.8	1.5			23.3	0.8	0.6									
		0.5	1.0			5.1	4.0			0.8	1.5				0.9	0.6				3.0	0.6									
PGLRRN	26.5	-0.3	0.2		141.5	0.2	0.1		13.4	-0.7	0.1			5.3	-0.1	0.3			19.3	-0.3	0.2									
		-1.0	0.3			3.3	0.6			-2.5	0.1				-0.1	0.1				-1.0	0.2									
MM2LUN	26.4	-0.3	0.7		138.3	0.0	1.0		17.4	0.5	2.4			4.6	-0.7	0.6			20.0	-0.1	1.5									
		-1.1	0.8			0.1	4.5			1.6	2.3				-0.8	0.2				-0.3	1.4									
KKY4HM	32.7	1.4	0.8		136.0	-0.1	0.7		12.9	-0.9	0.2			6.7	1.1	0.5			34.9	4.0	1.2									
		5.2	0.9			-2.2	3.0			-2.9	0.2				1.3	0.2				14.6	1.1									
LEBJDL	28.7	0.3	0.5		158.7	1.3	1.1		15.7	0.0	0.6			5.0	-0.4				22.7	0.6	0.6									
		1.2	0.6			20.5	5.0			-0.2	0.6				-0.4	0.0				2.3	0.6									
ARD6BU	29.6	0.6	0.4		138.1	0.0	0.2		24.4	2.6	0.3			6.6	1.1	0.7			21.5	0.3	0.3									
		2.1	0.5			-0.1	1.0			8.6	0.3				1.2	0.3				1.2	0.3									
82U34V	25.3	-0.6	0.5		146.0	0.5	0.4		16.3	0.1	0.6			5.0	-0.4				22.3	0.5	1.6									
		-2.2	0.6			7.8	2.0			0.5	0.6				-0.4	0.0				2.0	1.5									
3PWDKZ	29.4	0.5	1.0		112.9	-1.6	0.4		28.1	3.6	0.9			5.5	0.1	0.3			25.7	1.5	0.6									
		1.9	1.1			-25.3	2.0			12.2	0.9				0.1	0.1				5.4	0.6									
PN6V2C	19.3	-2.2	0.5		136.3	-0.1	0.7		13.3	-0.7	0.6			4.0	-1.2				16.3	-1.1	0.6									
		-8.2	0.6			-1.9	3.2			-2.5	0.6				-1.4	0.0				-4.0	0.6									
PDLGXA	30.5	0.8	0.7		162.2	1.5	0.2		16.5	0.2	0.6			5.1	-0.3	0.5			19.6	-0.2	0.5									
		3.0	0.8			24.0	0.9			0.7	0.6				-0.3	0.2				-0.8	0.5									
GRVM9A	25.3	-0.6	0.5		128.0	-0.6	0.6		14.0	-0.5				6.0	0.5				20.3	0.0	0.6									
		-2.2	0.6			-10.2	2.6			-1.8	0.0				0.6	0.0				0.0	0.6									
UAAAE7	28.7	0.3	0.9		125.7	-0.8	0.8		11.3	-1.3	2.0			6.5	1.0	2.1			16.5	-1.1	1.0									
		1.2	1.0			-12.6	3.5			-4.5	1.9				1.1	0.8				-3.9	1.0									
FKH4QJ	31.3	1.0	1.5		162.9	1.5	0.5		16.6	0.2	1.0			5.0	-0.3	2.3			19.4	-0.2	0.9									
		3.8	1.7			24.7	2.3			0.7	1.0				-0.4	0.9				-0.9	0.9									
VFA93Z	28.0	0.1			165.7	1.7	1.5		18.3	0.7	0.6			8.7	2.9	1.5			25.0	1.3	1.1									
		0.5	0.0			27.5	6.7			2.5	0.6				3.3	0.6				4.7	1.0									
96N7NM	25.0	-0.7			136.3	-0.1	0.1		13.3	-0.7	0.6			4.3	-0.9	1.5			20.0	-0.1										
		-2.5	0.0			-1.9	0.6			-2.5	0.6				-1.1	0.6				-0.3	0.0									
TYT44W	27.3	0.0	1.9		149.3	0.7	3.6		16.0	0.0	2.0			5.7	0.2	1.5			22.7	0.6	1.6									
		-0.2	2.1			11.1	16.2			0.2	2.0				0.3	0.6				2.3	1.5									
GQ3LL8	20.6	-1.9	0.0		118.0	-1.3	0.9		16.4	0.2	0.1			4.8	-0.6	0.3			16.4	-1.1	0.3									
		-6.9	0.0			-20.2	4.0			0.5	0.1				-0.6	0.1				-3.9	0.3									
PU98PV	22.7	-1.3	0.5		120.7	-1.1	0.8		15.3	-0.1	0.6			6.0	0.5				22.3	0.5	1.6									
		-4.8	0.6			-17.6	3.8			-0.5	0.6				0.6	0.0				2.0	1.5									
BYDUL8	27.7	0.0	0.5		149.3	0.7	0.3		15.7	0.0	0.3			5.5	0.1				22.7	0.6	0.3									
		0.2	0.6			11.1	1.2			-0.2	0.3				0.1	0.0				2.3	0.3									



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	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		
TMGXVF	28.0	0.1	0.9	140.7	0.2	0.5	16.3	0.1	1.6	5.3	-0.1	1.5	20.0	-0.1	1.1
		0.5	1.0		2.5	2.1		0.5	1.5		-0.1	0.6		-0.3	1.0
839E2Z	26.0	-0.4	0.1	138.0	0.0	0.2	14.0	-0.6	0.1	5.2	-0.2	0.1	19.9	-0.1	0.1
		-1.5	0.1		-0.2	1.0		-1.9	0.1		-0.2	0.0		-0.5	0.1
4DBTA3	23.7	-1.1	0.5	126.3	-0.7	0.7	15.3	-0.1	0.6	4.3	-0.9	1.5	21.3	0.3	2.2
		-3.8	0.6		-11.9	3.1		-0.5	0.6		-1.1	0.6		1.0	2.1
YLNT44	25.3	-0.6	3.1	127.0	-0.7	0.2	17.3	0.4	0.6	7.0	1.4		20.3	0.0	0.6
		-2.2	3.5		-11.2	1.0		1.5	0.6		1.6	0.0		0.0	0.6
Grand Median		27.5			138.2			15.8			5.40			20.3	
Median Abs Dev		2.1			10.7			1.6			0.60			2.0	
Avg Within Lab SD		1.1			4.5			1.0			0.40			0.9	
Labs Included		24			24			24			24			24	
Labs Reporting		24			24			24			24			24	



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

PO4-P Bray P (1:7) (SubTestCode 133)	in the Phosphorus and Sulfur Property Groups												Data units: mg/kg		
	SRS1401			SRS1402			SRS1403			SRS1404			SRS1405		
VFBYEB	22.0	0.7	0.5	104.7	0.6	0.8	13.7	2.1	0.6	5.7	0.4	0.6	19.3	0.6	0.6
		3.0	1.0		19.3	5.5		5.3	0.6		1.5	0.6		3.8	0.6
FC666L	15.6	-0.8	1.3	89.3	0.1	1.8	7.6	-0.3	1.2	2.6	-0.4	0.9	11.6	-0.6	1.0
		-3.3	2.7		4.0	12.3		-0.8	1.1		-1.5	0.9		-3.9	1.0
47FVHT	21.7	0.6	0.6	81.3	-0.1	0.4	8.0	-0.1	1.1	2.3	-0.5	0.6	11.7	-0.6	0.6
		2.7	1.2		-4.0	2.5		-0.4	1.0		-1.8	0.6		-3.8	0.6
TB276K	16.3	-0.6	1.3	28.6	-1.8	0.3	8.7	0.1	0.9	9.2	1.4	1.6	21.9	1.0	1.6
		-2.7	2.6		-56.7	1.9		0.4	0.9		5.0	1.7		6.4	1.6
Grand Median		19.0		85.3			8.35			4.15			15.5		
Median Abs Dev		2.9		11.7			0.56			1.67			3.9		
Avg Within Lab SD		2.0		6.9			0.92			1.04			1.0		
Labs Included		4		4			4			4			4		
Labs Reporting		4		4			4			4			4		



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

PO4-P Olsen/Bicarb (1:20) (SubTestCode 134)	in the Phosphorus and Sulfur Property Groups															Data units: mg/kg
	SRS1401			SRS1402			SRS1403			SRS1404			SRS1405			
MBLU4T	13.3	0.3	0.7	39.0	-0.5	0.3	6.0	-0.2	0.7	4.4	-0.2	0.1	7.8	-0.3	0.3	
		1.6	0.6		-4.5	1.0		-0.7	0.6		-0.6	0.1		-0.8	0.3	
X8RE9F	8.8	-0.5	0.6	42.0	-0.2	1.0	5.4	-0.4	0.4	3.0	-0.7	1.0	6.9	-0.6	0.7	
		-3.0	0.6		-1.4	3.6		-1.3	0.4		-2.0	0.8		-1.8	0.6	
MM2LUN	19.1	1.2	0.5	61.1	2.1	2.1	7.8	0.3	0.3	5.1	0.0	0.1	12.8	1.3	0.7	
		7.4	0.5		17.7	7.3		1.2	0.3		0.1	0.0		4.1	0.5	
XNEVBC	15.9	0.6	0.6	46.0	0.3	0.2	5.7	-0.3	0.5	5.4	0.1	0.3	7.7	-0.3	0.4	
		4.1	0.5		2.6	0.5		-0.9	0.4		0.4	0.2		-1.0	0.3	
LEBJDL	11.0	-0.1	0.0	50.0	0.8	0.5	7.7	0.3	0.7	5.0	0.0	0.0	8.7	0.0	0.8	
		-0.8	0.0		6.6	1.7		1.0	0.6		0.0	0.0		0.0	0.6	
VFBYEB	10.7	-0.2	0.7	42.7	-0.1	0.4	9.3	0.7	0.7	9.0	1.5	1.3	11.7	1.0	0.8	
		-1.1	0.6		-0.8	1.5		2.7	0.6		4.0	1.0		3.0	0.6	
ARD6BU	26.5	2.3	1.8	44.0	0.1	0.7	12.9	1.7	1.1	11.0	2.2	1.3	6.5	-0.7	0.5	
		14.8	1.6		0.6	2.4		6.2	0.9		6.0	1.0		-2.2	0.4	
82U34V	11.7	0.0	0.7	44.7	0.1	0.2	6.7	0.0	0.7	5.0	0.0	0.0	8.7	0.0	0.8	
		-0.1	0.6		1.2	0.6		0.0	0.6		0.0	0.0		0.0	0.6	
ETYBXN	20.3	1.4	0.7	47.7	0.5	0.2	11.7	1.4	0.7	7.3	0.9	0.8	15.3	2.1	0.8	
		8.6	0.6		4.2	0.6		5.0	0.6		2.3	0.6		6.7	0.6	
FC666L	13.5	0.3	1.7	45.1	0.2	0.5	6.1	-0.2	0.1	4.5	-0.2	0.5	7.9	-0.2	1.1	
		1.7	1.5		1.6	1.7		-0.6	0.1		-0.5	0.4		-0.8	0.8	
PN6V2C	11.7	0.0	0.7	43.3	0.0	0.2	6.7	0.0	0.7	4.0	-0.4		10.3	0.5	0.8	
		-0.1	0.6		-0.1	0.6		0.0	0.6		-1.0	0.0		1.7	0.6	
8JTXZT	12.8	0.2	0.3	39.5	-0.5	0.1	5.0	-0.5	0.7	3.9	-0.4	1.1	6.3	-0.7	0.7	
		1.1	0.3		-4.0	0.5		-1.7	0.6		-1.1	0.9		-2.3	0.5	
6P9R3T	13.7	0.3	0.3	50.9	0.9	0.1	7.9	0.3	0.2	5.3	0.1	0.2	9.1	0.1	0.9	
		1.9	0.3		7.4	0.5		1.2	0.2		0.3	0.2		0.4	0.7	
P7RC69	27.8	2.5	2.8	51.7	1.0	1.4	16.1	2.6	1.1	9.7	1.7	0.3	13.2	1.4	0.9	
		16.1	2.5		8.3	4.8		9.4	1.0		4.7	0.2		4.5	0.7	
T3CD22	7.5	-0.7	0.1	28.1	-1.8	0.0	5.6	-0.3	0.0	4.2	-0.3	0.0	5.6	-1.0	0.0	
		-4.2	0.1		-15.3	0.0		-1.1	0.0		-0.8	0.0		-3.1	0.0	
3AXLEP	17.5	0.9	0.3	53.2	1.2	0.1	7.4	0.2	0.3	5.7	0.3	0.4	8.8	0.0	0.4	
		5.7	0.3		9.8	0.5		0.7	0.3		0.7	0.3		0.1	0.3	
GRVM9A	8.0	-0.6		36.7	-0.8	0.7	5.0	-0.5		4.3	-0.2	0.8	7.0	-0.5		
		-3.8	0.0		-6.8	2.5		-1.7	0.0		-0.7	0.6		-1.7	0.0	
4NTEEW	11.3	-0.1	2.3	43.4	0.0	0.3	10.1	1.0	4.0	7.5	0.9	4.0	11.2	0.8	3.3	
		-0.4	2.1		0.0	1.2		3.4	3.5		2.5	3.1		2.6	2.4	
ADE96P	14.0	0.4		45.3	0.2	0.2	7.7	0.3	0.7	6.3	0.5	0.8	8.7	0.0	0.8	
		2.3	0.0		1.9	0.6		1.0	0.6		1.3	0.6		0.0	0.6	
96N7NM	10.7	-0.2	0.7	46.7	0.4	0.4	5.3	-0.4	0.7	4.3	-0.2	0.8	7.0	-0.5		
		-1.1	0.6		3.2	1.5		-1.3	0.6		-0.7	0.6		-1.7	0.0	



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	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		
FHRYXC	18.7	1.1	0.6	43.5	0.0	0.5	10.6	1.1	0.8	10.2	1.9	0.6	11.2	0.8	0.7
		7.0	0.5		0.0	1.7		3.9	0.7		5.2	0.5		2.5	0.5
TYT44W	11.1	-0.1	1.3	49.8	0.8	0.8	8.5	0.5	1.4	6.2	0.5	0.4	8.9	0.1	1.0
		-0.7	1.2		6.4	2.9		1.8	1.2		1.2	0.3		0.2	0.8
XBN6AL				27.1	-1.9	0.4							9.4	0.2	2.3
					-16.3	1.2								0.8	1.7
MADJ8P	11.8	0.0	0.9	38.9	-0.5	0.2	5.2	-0.4	0.4	4.1	-0.3	0.2	7.0	-0.5	0.2
		0.1	0.8		-4.5	0.8		-1.5	0.3		-0.9	0.2		-1.6	0.2
TMGXVF	10.3	-0.2	0.7	41.0	-0.3	0.3	6.7	0.0	0.7	6.0	0.4	1.3	9.0	0.1	1.4
		-1.4	0.6		-2.5	1.0		0.0	0.6		1.0	1.0		0.3	1.0
QWWVMG	8.1	-0.6		28.8	-1.7		4.5	-0.6		4.5	-0.2		5.4	-1.0	
		-3.7	0.0		-14.7	0.0		-2.2	0.0		-0.5	0.0		-3.3	0.0
HZKKTN	5.2	-1.0	0.2	37.7	-0.7	0.7	1.9	-1.3	0.6	1.3	-1.3	0.6	2.4	-2.0	0.4
		-6.5	0.2		-5.8	2.5		-4.8	0.5		-3.7	0.4		-6.3	0.3
99PAHV	30.0	2.9	0.6	48.6	0.6	0.2	17.6	3.0	0.6	11.3	2.3	1.0	13.0	1.4	0.2
		18.3	0.5		5.1	0.7		11.0	0.5		6.3	0.8		4.4	0.1
YLNT44	7.3	-0.7	0.7	38.0	-0.6		6.0	-0.2		4.3	-0.2	0.8	7.0	-0.5	
		-4.4	0.6		-5.5	0.0		-0.7	0.0		-0.7	0.6		-1.7	0.0
4X72UR	7.4	-0.7	1.0	30.7	-1.5	4.2	2.5	-1.1	1.7	0.7	-1.6	0.7	4.1	-1.5	0.5
		-4.3	0.9		-12.8	14.3		-4.1	1.4		-4.3	0.5		-4.6	0.4
PZEKPF	13.9	0.3	1.3	48.4	0.6	1.4	4.7	-0.5	0.3	3.4	-0.6	0.3	10.7	0.7	1.6
		2.2	1.2		5.0	4.8		-1.9	0.2		-1.6	0.2		2.1	1.2
Grand Median		11.8			43.5			6.67			5.00			8.67	
Median Abs Dev		2.6			4.5			1.42			1.00			1.67	
Avg Within Lab SD		0.9			3.4			0.86			0.76			0.74	
Labs Included		30			31			30			30			31	
Labs Reporting		30			31			30			30			31	



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

PO4-P M. Morgan (SubTestCode 135)	in the Phosphorus and Sulfur Property Groups										Data units: mg/kg				
SRS1401	SRS1402	SRS1403	SRS1404	SRS1405											
VJ8PJ2	8.67	1.00 0.29	7.17	1.00 0.29	1.50	1.00 0.50	1.00	0.00	10.00	1.00 0.50					
Grand Median	8.67		7.17		1.50		1.00		10.00						
Median Abs Dev															
Avg Within Lab SD	0.29		0.29		0.50		0.00		0.50						
Labs Included	1		1		1		1		1						
Labs Reporting	1		1		1		1		1						



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

PO4-P Mod. Kelowna (SubTestCode 136)	in the Phosphorus and Sulfur Property Groups										Data units: mg/kg
	SRS1401		SRS1402		SRS1403		SRS1404		SRS1405		
HZKKTN	21.0	1.1	84.0	1.4	9.1	0.8	4.1	1.4	12.3	1.3	
		1.0		4.0		0.3		0.6		0.6	
PZEKPF	16.2	0.8	8.0	0.1	8.6	1.2	2.5	0.3	12.3	0.5	
		0.8		0.3		0.5		0.1		0.2	
Grand Median	18.6		46.0		8.83		3.32		12.3		
Median Abs Dev											
Avg Within Lab SD	0.9		2.8		0.39		0.40		0.4		
Labs Included	2		2		2		2		2		
Labs Reporting	2		2		2		2		2		



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

PO4-P Strong Bray (1:10) (SubTestCode 137)	in the Phosphorus and Sulfur Property Groups															Data units: mg/kg
	SRS1401			SRS1402			SRS1403			SRS1404			SRS1405			
MBLU4T	58.1	1.0	0.3	252.7	0.7	0.5	18.7	-0.9	0.0	15.8	-0.4	0.4	53.1	-1.0	0.2	
		6.4	0.7		20.3	4.6		-7.1	0.0		-2.7	0.6		-10.8	0.6	
MM2LUN	57.0	0.9	1.3	217.2	-0.5	1.5	33.1	0.9	1.6	24.8	1.0	1.5	74.6	1.0	1.7	
		5.3	3.2		-15.1	15.1		7.3	2.0		6.3	2.3		10.8	6.1	
LEBJDL	54.7	0.5	1.3	284.0	1.8	0.7	29.3	0.4	1.2	21.3	0.4	1.0	72.0	0.7	0.7	
		3.0	3.1		51.7	7.2		3.5	1.5		2.8	1.5		8.2	2.6	
82U34V	47.7	-0.7	0.5	230.0	-0.1	0.2	28.0	0.3	1.4	17.0	-0.2	1.1	63.7	0.0	0.9	
		-4.0	1.2		-2.3	2.0		2.2	1.7		-1.5	1.7		-0.2	3.2	
GRVM9A	53.0	0.2	0.7	227.0	-0.2	0.4	23.7	-0.3	0.5	21.7	0.5	1.3	76.3	1.1	1.0	
		1.3	1.7		-5.3	3.6		-2.2	0.6		3.2	2.1		12.5	3.8	
47FVHT	50.0	-0.3	0.8	185.0	-1.7	0.7	15.7	-1.3	0.5	8.7	-1.6	0.7	47.7	-1.4	0.2	
		-1.7	2.0		-47.3	7.0		-10.2	0.6		-9.8	1.2		-16.2	0.6	
96N7NM	41.7	-1.6	0.5	234.7	0.1	0.2	19.7	-0.8	0.5	12.3	-1.0	0.4	62.3	-0.1	0.3	
		-10.0	1.2		2.3	2.1		-6.2	0.6		-6.2	0.6		-1.5	1.2	
TMGXVF	50.3	-0.2	1.7	242.3	0.3	2.0	29.7	0.5	1.2	20.0	0.2	1.1	64.0	0.0	1.7	
		-1.3	4.2		10.0	19.9		3.8	1.5		1.5	1.7		0.2	6.1	
Grand Median		51.7		232.3			25.8			18.5			63.8			
Median Abs Dev		3.5		12.6			5.0			3.0			9.5			
Avg Within Lab SD		2.4		9.8			1.3			1.6			3.7			
Labs Included		8		8			8			8			8			
Labs Reporting		8		8			8			8			8			



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

SO4 - S (PO4 Extr.) (SubTestCode 139)			in the Phosphorus and Sulfur Property Groups												Data units: mg/kg	
SRS1401			SRS1402			SRS1403			SRS1404			SRS1405				
XQ6Y6J	3.5	-0.2	12.0	0.3	10.3	0.2	0.5	21.0	0.4	15.0	0.3	0.4				
		-0.6		1.5		0.7	0.3		2.3		1.8	0.5				
MM2LUN	13.5	2.6	25.1	3.2	15.4	1.6	1.7	20.9	0.3	30.6	2.5	1.5				
		9.4		14.6		5.7	1.0		2.2		17.4	1.7				
XNEVBC	3.9	0.0	8.5	0.3	8.3	-0.4	0.2	14.9	-0.6	9.6	-0.5	0.1				
		-0.2		-2.0		-1.3	0.1		-3.8		-3.6	0.1				
KKY4HM	1.1	-0.8	4.9	0.6	5.8	-1.1	1.2	12.7	-0.9	5.5	-1.1	0.5				
		-3.0		-5.5		-3.9	0.7		-6.0		-7.7	0.6				
LEBJDL	3.7	-0.1	9.7	1.0	10.0	0.1		18.0	-0.1	10.3	-0.4	0.5				
		-0.4		-0.8		0.3	0.0		-0.7		-2.9	0.6				
82U34V	4.3	0.1	10.0	0.6	10.5	0.2	0.3	17.8	-0.1	12.3	-0.1	0.3				
		0.2		-0.5		0.9	0.2		-0.9		-0.9	0.3				
FC666L	6.8	0.7	11.7	0.3	12.2	0.7	0.7	22.5	0.6	14.0	0.1	0.4				
		2.7		1.2		2.6	0.4		3.8		0.8	0.5				
PN6V2C	5.3	0.3	11.3	1.0	13.0	0.9		19.3	0.1	31.7	2.6	0.5				
		1.2		0.8		3.3	0.0		0.7		18.5	0.6				
8JTXZT	2.0	-0.6	7.9	0.6	4.9	-1.3	0.4	17.2	-0.2	7.0	-0.9	0.3				
		-2.1		-2.6		-4.8	0.2		-1.5		-6.2	0.4				
GRVM9A	5.3	0.3	11.7	1.0	9.0	-0.2		20.7	0.3	13.0	0.0					
		1.2		1.2		-0.7	0.0		2.0		-0.2	0.0				
4NTEEW	11.6	2.1	16.8	2.3	15.0	1.5	3.3	37.9	3.0	23.1	1.4	3.9				
		7.5		6.3		5.4	1.9		19.2		9.9	4.7				
VFA93Z	3.5	-0.2	11.0	0.5	10.2	0.1	0.8	20.1	0.2	15.1	0.3	0.3				
		-0.6		0.5		0.5	0.5		1.5		1.9	0.4				
TYT44W	4.2	0.0	8.8	0.0	9.4	-0.1	0.5	26.3	1.2	13.4	0.0	0.6				
		0.1		-1.7		-0.3	0.3		7.6		0.2	0.7				
U6T2RR	2.3	-0.5	8.3	1.0	9.3	-0.1	1.0	15.3	-0.5	11.7	-0.2	0.5				
		-1.8		-2.2		-0.4	0.6		-3.3		-1.5	0.6				
TMGXVF	4.0	0.0	8.3	1.7	9.0	-0.2		15.3	-0.5	11.7	-0.2	0.5				
		-0.1		-2.2		-0.7	0.0		-3.3		-1.5	0.6				
4DBTA3	3.0	-0.3	9.0	1.0	7.0	-0.7		11.0	-1.2	15.0	0.3					
		-1.1		-1.5		-2.7	0.0		-7.7		1.8	0.0				
HZKKTN	3.9	0.0	8.5	0.4	8.4	-0.4	0.4	14.3	-0.7	11.0	-0.3					
		-0.2		-2.0		-1.3	0.2		-4.3		-2.2	0.0				
99PAHV	5.1	0.3	11.6	0.1	7.7	-0.5	0.4	19.8	0.2	12.1	-0.2	0.2				
		1.0		1.2		-2.0	0.2		1.1		-1.1	0.2				
YLNT44	17.3	3.6	23.0	1.0	18.3	2.4	1.0	31.3	2.0	28.3	2.1	0.5				
		13.2		12.5		8.7	0.6		12.7		15.1	0.6				
PZEKPF	6.7	0.7	11.5	0.4	13.1	0.9	0.2	17.7	-0.2	13.8	0.1	0.3				
		2.6		1.0		3.4	0.1		-1.0		0.6	0.4				



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	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		
Grand Median	4.10			10.5			9.68			18.7			13.2		
Median Abs Dev	1.17			1.6			1.66			2.8			1.8		
Avg Within Lab SD	0.58			0.7			0.56			1.7			1.2		
Labs Included	20			20			20			20			20		
Labs Reporting	20			20			20			20			20		



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

K Ammonium Acetate (SubTestCode 140)			in the Bases (1:10) Property Groups									Data units: mg/kg			
SRS1401			SRS1402			SRS1403			SRS1404			SRS1405			
NVRNBQ	73.0	-0.4	0.5	160.7	0.2	0.4	173.7	0.4	0.5	82.3	0.0	0.1	335.3	0.7	1.0
		-10.1	2.0		4.4	3.1		11.5	4.9		0.8	0.6		35.0	12.5
X8RE9F	88.1	0.2	0.2	174.7	0.9	0.9	185.6	0.8	0.5	92.8	0.7	1.4	315.1	0.3	0.5
		5.0	1.0		18.5	6.4		23.5	4.9		11.2	6.4		14.7	5.6
MM2LUN	119.0	1.2	1.1	157.4	0.1	2.7	179.0	0.6	3.3	90.7	0.6	1.8	292.8	-0.2	2.2
		35.8	4.8		1.1	20.3		16.8	31.1		9.2	8.1		-7.6	27.5
XNEVBC	100.0	0.6	0.4	147.2	-0.4	0.2	147.3	-0.5	0.2	74.7	-0.4	0.4	263.7	-0.7	0.1
		16.9	1.7		-9.1	1.5		-14.8	1.5		-6.8	1.7		-36.6	1.6
KKY4HM	105.4	0.8	1.7	147.6	-0.4	1.4	139.8	-0.7	1.3	77.6	-0.2	1.4	254.1	-0.9	1.1
		22.2	7.4		-8.7	10.1		-22.4	12.3		-4.0	6.1		-46.2	13.0
LEBJDL	81.7	-0.1	1.3	157.7	0.1	0.3	174.0	0.4	0.7	88.7	0.4	0.6	298.0	0.0	1.3
		-1.5	5.9		1.4	2.3		11.8	6.6		7.1	2.5		-2.3	15.6
VFBYEB	73.3	-0.3	1.2	145.3	-0.5	0.1	155.0	-0.2	0.1	74.0	-0.5	0.6	269.3	-0.6	0.2
		-9.8	5.0		-10.9	0.6		-7.2	1.0		-7.6	2.6		-31.0	3.1
ARD6BU	1,970.3	65.7	9.1	1,258.3	52.0	2.5	1,286.3	37.2	5.0	1,455.3	85.7	2.9	927.3	12.5	2.2
		1,887.2	39.7		1,102.1	18.6		1,124.2	47.2		1,373.8	12.7		627.0	27.3
ETYBXN	118.3	1.2	0.3	155.7	0.0	0.1	158.3	-0.1	0.1	81.7	0.0	0.1	300.7	0.0	0.1
		35.2	1.5		-0.6	0.6		-3.8	0.6		0.1	0.6		0.3	1.5
3PWDKZ	80.6	-0.1	0.9	148.2	-0.4	0.1	155.8	-0.2	0.5	75.5	-0.4	0.9	268.6	-0.6	1.3
		-2.5	3.8		-8.1	0.6		-6.4	5.1		-6.1	4.1		-31.7	15.9
FC666L	113.5	1.1	2.3	161.8	0.3	2.1	158.9	-0.1	1.1	86.9	0.3	2.0	324.4	0.5	3.9
		30.4	9.8		5.5	15.5		-3.3	9.9		5.4	9.0		24.1	48.1
PN6V2C	84.0	0.0	0.2	171.3	0.7	0.4	200.0	1.3	0.5	98.7	1.1	1.0	352.3	1.0	0.5
		0.9	1.0		15.1	3.2		37.8	5.0		17.1	4.6		52.0	6.7
8JTXZT	86.0	0.1	0.5	132.7	-1.1	0.3	128.7	-1.1	0.2	64.0	-1.1	0.4	238.3	-1.2	0.4
		2.9	2.0		-23.6	2.3		-33.5	1.5		-17.6	2.0		-62.0	5.5
PDLGXA	93.7	0.4	0.1	152.3	-0.2	0.3	149.9	-0.4	0.4	75.9	-0.4	0.5	288.4	-0.2	0.4
		10.5	0.4		-4.0	2.0		-12.3	3.9		-5.6	2.1		-11.9	5.3
6P9R3T	70.5	-0.4	0.3	166.0	0.5	1.0	189.6	0.9	0.9	83.4	0.1	0.5	333.8	0.7	1.0
		-12.6	1.3		9.7	7.5		27.4	8.3		1.9	2.1		33.5	12.8
P7RC69	104.7	0.7	0.7	155.3	0.0	0.5	145.7	-0.5	0.1	74.7	-0.4	0.3	272.7	-0.6	1.4
		21.5	3.1		-0.9	4.0		-16.5	0.6		-6.9	1.5		-27.7	17.2
T3CD22	63.5	-0.7	0.4	124.5	-1.5	0.2	125.7	-1.2	0.2	60.3	-1.3	0.2	228.2	-1.4	0.1
		-19.7	1.6		-31.8	1.3		-36.4	1.6		-21.3	0.9		-72.2	1.0
3AXLEP	109.3	0.9	0.1	165.7	0.4	0.7	149.7	-0.4	0.2	75.7	-0.4	0.5	308.7	0.2	0.6
		26.2	0.6		9.4	5.5		-12.5	1.5		-5.9	2.1		8.3	7.1
GRVM9A	82.0	0.0	0.4	149.0	-0.3	0.2	152.7	-0.3	0.3	79.3	-0.1	0.3	324.0	0.5	0.2
		-1.1	1.7		-7.3	1.7		-9.5	3.1		-2.2	1.2		23.7	2.0
UGAKVW	82.3	0.0	1.2	150.9	-0.3	0.1	157.7	-0.1	0.0	80.1	-0.1	0.0	277.0	-0.5	0.3
		-0.9	5.1		-5.3	0.7		-4.5	0.4		-1.5	0.2		-23.4	3.6



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	Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		
4NTEEW	103.9	0.7	0.8	156.9	0.0	1.4	151.0	-0.4	1.3	80.3	-0.1	2.1	286.2	-0.3	1.4
		20.8	3.7		0.6	10.4		-11.2	12.1		-1.2	9.3		-14.1	17.1
UAAAE7	80.9	-0.1	0.3	168.8	0.6	0.1	191.6	1.0	0.7	88.7	0.4	0.2	340.0	0.8	0.2
		-2.2	1.3		12.5	1.0		29.5	6.3		7.2	1.0		39.7	2.9
47FVHT	81.7	-0.1	0.5	129.7	-1.3	0.3	120.3	-1.4	0.2	62.7	-1.2	0.3	254.3	-0.9	0.5
		-1.5	2.3		-26.6	2.1		-41.8	1.5		-18.9	1.2		-46.0	6.0
VFA93Z	68.3	-0.5	0.7	148.0	-0.4	0.8	166.0	0.1	0.3	82.0	0.0	0.4	356.0	1.1	0.9
		-14.8	2.9		-8.3	6.1		3.8	2.6		0.5	2.0		55.7	10.6
96N7NM	72.6	-0.4	0.3	160.8	0.2	0.4	186.3	0.8	0.3	83.6	0.1	0.3	353.1	1.1	0.4
		-10.6	1.4		4.5	3.3		24.1	2.7		2.0	1.2		52.8	4.6
6M3BLP	72.6	-0.4	0.3	160.8	0.2	0.4	186.3	0.8	0.3	83.6	0.1	0.3	353.1	1.1	0.4
		-10.6	1.4		4.5	3.3		24.1	2.7		2.0	1.2		52.8	4.6
FHRYXC	116.8	1.2	1.0	165.0	0.4	0.2	158.2	-0.1	0.3	88.5	0.4	0.4	252.0	-1.0	0.7
		33.7	4.5		8.7	1.7		-4.0	2.9		6.9	1.9		-48.3	8.0
TYT44W	81.0	-0.1	0.8	171.7	0.7	0.2	188.3	0.9	1.4	94.3	0.8	0.3	348.0	1.0	0.3
		-2.1	3.6		15.4	1.5		26.2	13.2		12.8	1.5		47.7	4.0
GQ3LL8	68.9	-0.5	0.1	152.3	-0.2	0.4	167.7	0.2	0.5	76.0	-0.3	0.5	322.0	0.4	0.2
		-14.2	0.3		-3.9	3.1		5.5	4.5		-5.5	2.2		21.7	3.0
PU98PV	72.3	-0.4	1.3	139.7	-0.8	0.1	176.7	0.5	0.2	76.0	-0.3	0.4	280.7	-0.4	0.9
		-10.8	5.7		-16.6	0.6		14.5	2.1		-5.6	2.0		-19.7	10.5
XBN6AL	104.5	0.7	1.6	157.0	0.0	3.5	150.7	-0.4	3.4	95.8	0.9	4.0	300.0	0.0	1.4
		21.4	6.8		0.7	25.9		-11.5	31.6		14.3	17.7		-0.3	17.4
ZKNFUF	85.0	0.1	0.2	153.3	-0.1	0.2	160.7	0.0	0.2	81.4	0.0	0.1	286.7	-0.3	0.2
		1.9	1.0		-2.9	1.5		-1.5	1.5		-0.1	0.5		-13.7	3.1
TB276K	36.5	-1.6	0.1	80.1	-3.6	0.8	84.1	-2.6	0.7	46.7	-2.2	0.2	185.7	-2.3	0.7
		-46.7	0.3		-76.1	6.2		-78.1	6.9		-34.9	1.0		-114.6	8.1
MADJ8P	155.3	2.5	1.7	225.3	3.3	0.6	218.7	1.9	0.7	124.0	2.6	0.4	341.7	0.8	0.0
		72.2	7.5		69.1	4.5		56.5	6.7		42.5	1.7		41.3	0.6
TMGXVF	76.7	-0.2	0.7	161.0	0.2	1.1	174.0	0.4	0.7	83.7	0.1	0.9	329.3	0.6	1.1
		-6.5	3.2		4.7	7.9		11.8	7.0		2.1	4.0		29.0	13.4
QWWVMG	162.0	2.7		224.0	3.2		224.0	2.0		142.0	3.8		358.0	1.2	
		78.9	0.0		67.7	0.0		61.8	0.0		60.5	0.0		57.7	0.0
4DBTA3	52.0	-1.1	0.2	159.0	0.1	0.4	186.3	0.8	2.2	71.0	-0.7	0.4	349.7	1.0	0.4
		-31.1	1.0		2.7	2.6		24.2	21.0		-10.6	2.0		49.3	4.5
HZKKTN	113.3	1.1	3.5	146.7	-0.5	1.6	136.7	-0.8	0.6	71.7	-0.6	1.4	250.0	-1.0	
		30.2	15.3		-9.6	11.5		-25.5	5.8		-9.9	6.1		-50.3	0.0
99PAHV	155.3	2.5	0.1	202.6	2.2	0.3	198.3	1.2	0.5	128.5	2.9	0.5	318.1	0.4	0.7
		72.2	0.4		46.3	2.2		36.2	4.9		47.0	2.1		17.8	8.9
YLNT44	78.0	-0.2		144.3	-0.6	0.4	173.0	0.4		87.0	0.3	0.2	328.3	0.6	0.5
		-5.1	0.0		-11.9	3.1		10.8	0.0		5.5	1.0		28.0	6.7
PZEKPF	105.0	0.8	0.7	153.7	-0.1	1.6	163.7	0.0	0.4	76.7	-0.3	0.1	293.3	-0.1	0.4
		21.9	3.0		-2.6	11.7		1.5	3.5		-4.9	0.6		-7.0	5.5



ALP Program - Participant Web Summary Report - Cycle 23

	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		
Grand Median	83.1			156.3			162.2			81.6			300.3		
Median Abs Dev	13.4			8.5			14.7			6.5			31.4		
Avg Within Lab SD	4.4			7.4			9.4			4.5			12.2		
Labs Included	40			40			40			40			40		
Labs Reporting	40			40			40			40			40		



ALP Program - Participant Web Summary Report - Cycle 23

Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

Ca Ammonium Acetate (SubTestCode 141)	in the Bases (1:10) Property Groups															Data units: mg/kg
	SRS1401			SRS1402			SRS1403			SRS1404			SRS1405			
NVRNBQ	1,783.7	-0.2	1.3	1,300.7	0.4	1.0	1,371.3	0.4	1.0	1,467.0	0.2	1.2	1,088.3	0.3	1.5	
X8RE9F	1,935.0	0.1	0.9	1,332.7	0.6	0.9	1,315.3	0.3	0.1	1,518.0	0.4	2.7	1,070.0	0.2	0.3	
MM2LUN	2,272.0	0.8	0.8	1,409.7	0.9	0.4	1,465.7	0.7	2.7	1,523.0	0.4	0.7	1,124.0	0.5	0.5	
XNEVBC	2,505.7	391.3	59.9	1,339.7	195.7	18.7	1,215.7	225.7	119.1	1,451.7	101.6	39.3	1,006.0	102.4	24.3	
KKY4HM	2,292.0	1.3	0.6	1,304.0	0.6	0.7	1,115.3	-0.1	0.5	1,421.4	0.1	0.8	994.8	-0.1	0.4	
LEBJDL	2,031.0	625.0	44.1	1,362.0	125.7	34.1	1,424.0	-24.3	23.7	1,475.3	30.3	40.2	1,081.7	-15.6	18.0	
VFBYEB	1,354.0	0.8	3.6	1,066.7	0.4	2.3	1,129.7	-0.4	2.3	1,176.7	0.0	2.0	938.0	-0.1	1.9	
ARD6BU	145.0	411.4	274.9	191.3	90.0	106.6	196.0	-124.7	100.4	173.3	0.0	102.7	457.0	-26.8	84.5	
82U34V	1,813.3	0.3	1.3	1,368.7	0.7	0.5	1,418.3	0.6	1.5	1,459.3	0.2	0.5	1,134.7	0.3	0.2	
ETYBXN	2,042.0	150.3	96.7	1,029.3	148.0	20.8	984.0	184.0	63.6	1,139.3	53.9	24.0	968.7	60.1	8.4	
3PWDKZ	1,106.2	-1.1	1.3	889.7	-0.7	0.2	862.2	-0.4	0.5	888.1	-0.9	1.7	737.5	-0.4	0.9	
FC666L	2,119.6	-526.7	101.6	1,163.0	-147.3	8.1	1,076.8	-110.3	23.7	1,235.1	-244.7	91.5	986.0	-83.6	41.4	
PN6V2C	1,953.3	-3.5	0.1	1,435.3	-4.9	0.2	1,591.7	-3.5	0.2	1,610.7	-4.8	0.1	1,305.0	-2.6	0.4	
8JTXZT	1,996.7	-1,735.7	6.1	1,094.0	-1,022.7	7.6	973.0	-1,044.0	7.9	1,155.0	-1,248.1	6.7	809.0	-564.6	19.0	
PDLGXA	2,325.0	-0.1	1.0	1,179.3	0.7	1.8	1,072.3	0.6	0.6	1,312.7	0.1	1.0	906.8	0.5	0.2	
P7RC69	2,566.7	-67.3	77.2	1,466.7	154.7	82.7	1,240.0	178.3	27.3	1,536.7	37.9	54.9	1,071.0	113.1	10.8	
T3CD22	1,381.3	0.3	0.0	951.0	-0.9	0.0	950.9	-0.9	0.0	1,082.0	-1.1	0.1	768.0	-0.2	0.3	
3AXLEP	2,119.3	161.3	2.0	1,118.7	-184.7	1.2	1,054.0	-256.0	2.0	1,264.0	-282.1	3.1	947.0	-52.9	11.5	
GRVM9A	1,702.3	-1.6	0.3	1,156.7	-1.5	0.4	1,303.3	-1.3	0.7	1,350.0	-2.0	0.6	1,140.0	-1.3	0.7	
UGAKVW	1,445.7	-774.5	23.6	1,062.7	-324.3	17.7	1,052.0	-377.8	30.6	1,164.0	-533.3	32.5	803.3	-284.0	30.9	
		0.5	0.2		-0.2	0.1		-0.5	0.8		-0.7	0.7		-0.2	1.6	
		238.9	12.7		-51.0	6.4		-163.2	35.2		-186.3	36.0		-35.6	74.2	
		0.1	0.5		1.1	0.2		1.2	0.3		0.7	0.3		1.3	0.3	
		72.7	42.2		221.3	9.3		351.7	14.4		189.3	16.0		283.4	13.2	
		0.2	1.1		-0.6	1.1		-0.9	1.2		-1.0	1.5		-1.0	0.6	
		116.0	88.1		-120.0	49.1		-267.0	52.0		-266.4	79.7		-212.6	27.6	
		0.9	0.8		-0.2	1.0		-0.6	1.0		-0.4	1.1		-0.5	1.6	
		444.3	57.8		-34.7	46.5		-167.7	44.9		-108.7	55.2		-114.8	71.1	
		1.4	1.0		1.2	1.1		0.0			0.4	0.5		0.2	2.0	
		686.0	80.2		252.7	51.3		0.0	0.0		115.3	25.2		49.4	90.0	
		-1.0	0.0		-1.3	0.2		-1.0	0.6		-1.3	0.3		-1.2	0.0	
		-499.3	3.2		-263.0	9.5		-289.1	25.3		-339.4	16.6		-253.6	2.0	
		0.5	0.6		-0.5	0.2		-0.6	0.7		-0.6	0.5		-0.3	0.3	
		238.7	43.8		-95.3	9.7		-186.0	32.0		-157.4	27.4		-74.6	12.2	
		-0.4	0.3		-0.3	2.0		0.2	0.7		-0.3	0.2		0.5	1.1	
		-178.3	22.5		-57.3	90.2		63.3	32.1		-71.4	10.0		118.4	50.0	
		-0.9	0.2		-0.7	0.2		-0.6	0.3		-1.0	0.1		-1.0	0.3	
		-435.0	12.9		-151.3	9.3		-188.0	11.2		-257.4	7.3		-218.3	12.5	



ALP Program - Participant Web Summary Report - Cycle 23

	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD
4NTEEW	2,214.0	0.7	1.8	1,278.7	0.3	1.7	1,141.0	-0.3	1.6	1,427.0	0.0	2.2	1,068.9	0.2	2.2
		333.3	140.8		64.7	79.1		-99.0	70.3		5.6	113.0		47.3	99.6
UAAAE7	2,129.0	0.5	0.4	1,447.3	1.1	0.7	1,692.0	1.5	0.8	1,727.3	1.2	1.3	1,267.7	1.1	0.7
		248.3	33.3		233.3	30.6		452.0	35.4		305.9	68.3		246.1	32.7
47FVHT	1,880.7	0.0	0.6	993.3	-1.1	0.3	835.0	-1.3	0.3	1,020.7	-1.5	0.2	785.0	-1.1	0.2
		0.0	47.5		-220.7	12.1		-405.0	14.2		-400.7	9.5		-236.6	7.9
VFA93Z	1,712.0	-0.3	0.5	1,252.3	0.2	1.2	1,336.0	0.3	0.6	1,506.3	0.3	0.7	1,226.3	0.9	1.6
		-168.7	36.4		38.3	53.5		96.0	24.1		84.9	38.3		204.8	73.2
96N7NM	1,728.0	-0.3	0.4	1,251.3	0.2	0.6	1,404.7	0.5	0.4	1,496.3	0.3	0.8	1,144.3	0.6	0.4
		-152.7	27.5		37.3	28.7		164.7	17.2		74.9	41.4		122.8	19.9
6M3BLP	1,728.0	-0.3	0.4	1,251.3	0.2	0.6	1,404.7	0.5	0.4	1,496.3	0.3	0.8	1,144.3	0.6	0.4
		-152.7	27.5		37.3	28.7		164.7	17.2		74.9	41.4		122.8	19.9
FHRYXC	2,315.4	0.9	0.6	1,214.0	0.0	0.6	1,247.9	0.0	1.0	1,429.3	0.0	0.4	967.9	-0.2	0.4
		434.8	43.0		0.0	28.9		7.9	44.5		7.9	20.7		-53.7	16.4
TYT44W	1,553.7	-0.7	0.8	1,199.5	-0.1	1.9	1,398.7	0.5	1.5	1,322.9	-0.4	0.6	1,082.4	0.3	1.9
		-326.9	62.3		-14.5	89.0		158.7	64.7		-98.5	31.2		60.8	88.2
GQ3LL8	1,633.7	-0.5	0.2	1,203.0	-0.1	0.3	1,305.3	0.2	0.3	1,392.3	-0.1	0.2	1,081.3	0.3	0.1
		-247.0	17.6		-11.0	11.5		65.3	11.9		-29.1	10.6		59.8	4.2
PU98PV	1,659.0	-0.5	1.7	1,177.7	-0.2	0.8	1,429.7	0.6	0.6	1,451.0	0.1	1.5	1,003.0	-0.1	2.1
		-221.7	133.1		-36.3	34.9		189.7	25.3		29.6	77.2		-18.6	96.3
TB276K	508.5	-2.8	0.2	474.1	-3.5	0.4	248.4	-3.3	0.6	383.2	-4.0	0.5	247.7	-3.5	0.2
		-1,372.2	13.9		-739.9	17.3		-991.6	25.5		-1,038.2	25.7		-773.8	9.2
TMGXVF	1,849.7	-0.1	1.7	1,314.3	0.5	1.7	1,361.7	0.4	1.6	1,511.3	0.3	1.3	1,136.3	0.5	1.2
		-31.0	129.7		100.3	79.7		121.7	67.7		89.9	66.5		114.8	54.6
QWWVMG	2,940.0	2.2	0.0	1,660.0	2.1	0.0	1,560.0	1.1	0.0	1,940.0	2.0	0.0	1,460.0	2.0	0.0
		1,059.3	0.0		446.0	0.0		320.0	0.0		518.6	0.0		438.4	0.0
4DBTA3	1,792.0	-0.2	0.0	1,383.0	0.8	0.0	1,513.0	0.9	0.0	1,619.0	0.8	0.0	1,342.0	1.5	0.0
		-88.7	0.0		169.0	0.0		273.0	0.0		197.6	0.0		320.4	0.0
HZKKTN	1,966.7	0.2	0.8	1,100.0	-0.5	0.0	910.0	-1.1	1.8	1,200.0	-0.8	0.0	810.0	-1.0	0.2
		86.0	57.7		-114.0	0.0		-330.0	78.1		-221.4	0.0		-211.6	10.0
99PAHV	2,447.5	1.2	0.5	1,294.0	0.4	0.2	1,168.1	-0.2	1.0	1,384.9	-0.1	0.6	1,021.6	0.0	0.6
		566.8	38.9		80.0	7.2		-71.9	45.1		-36.5	30.5		0.0	25.3
YLNT44	1,769.3	-0.2	0.2	1,234.7	0.1	0.9	1,410.0	0.6	0.0	1,503.0	0.3	0.5	1,178.0	0.7	0.4
		-111.3	16.6		20.7	40.1		170.0	1.0		81.6	24.6		156.4	16.8
PZEKPF	2,330.0	0.9	0.8	1,176.7	-0.2	2.0	1,173.3	-0.2	0.5	1,316.7	-0.4	0.9	950.0	-0.3	0.2
		449.3	60.0		-37.3	90.7		-66.7	20.8		-104.7	45.1		-71.6	10.0
Grand Median		1,880.7		1,214.0			1,240.0			1,421.4			1,021.6		
Median Abs Dev		238.9		114.0			167.7			101.6			113.1		
Avg Within Lab SD		77.0		46.1			43.6			52.5			45.6		
Labs Included		37		37			37			37			37		
Labs Reporting		37		37			37			37			37		



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

	Mg Ammonium Acetate (SubTestCode 142)			in the Bases (1:10) Property Groups						Data units: mg/kg					
	SRS1401			SRS1402			SRS1403			SRS1404			SRS1405		
NVRNBQ	137.0	-0.1	0.9	204.0	0.5	0.6	205.0	0.4	1.1	189.0	0.6	0.3	573.0	0.9	1.5
		-3.3	5.0		16.3	4.0		19.0	6.2		20.4	1.7		82.8	23.6
X8RE9F	153.7	0.4	0.9	215.7	0.8	0.6	208.3	0.5	0.3	192.3	0.7	2.8	555.0	0.7	0.2
		13.3	5.0		28.0	4.2		22.3	1.5		23.8	15.9		64.8	2.6
MM2LUN	154.1	0.4	2.9	199.1	0.3	0.8	217.0	0.7	3.1	166.4	-0.1	1.6	536.2	0.5	0.4
		13.8	16.8		11.4	5.4		31.0	18.1		-2.2	9.1		46.0	6.5
XNEVBC	178.6	1.2	0.6	207.8	0.6	0.4	186.3	0.0	0.2	183.3	0.4	0.6	521.9	0.3	0.3
		38.3	3.2		20.1	3.0		0.3	0.9		14.8	3.2		31.8	4.6
KKY4HM	161.3	0.7	3.0	188.7	0.0	2.3	157.8	-0.7	2.3	166.5	-0.1	2.1	469.0	-0.2	2.0
		21.0	17.5		1.0	15.1		-28.2	13.3		-2.1	12.0		-21.1	33.1
LEBJDL	132.0	-0.3	1.2	186.0	0.0	0.7	187.0	0.0	1.1	179.7	0.3	0.6	460.3	-0.3	0.3
		-8.3	7.0		-1.7	4.4		1.0	6.6		11.1	3.5		-29.8	5.5
VFBYEB	124.3	-0.5	0.5	176.3	-0.3	0.3	182.3	-0.1	0.4	154.7	-0.4	0.4	481.7	-0.1	0.3
		-16.0	3.1		-11.3	2.1		-3.7	2.3		-13.9	2.5		-8.5	5.7
ARD6BU	17.0	-3.9	0.3	14.7	-5.1	0.2	13.3	-4.1	0.4	13.3	-4.4	0.4	73.0	-4.4	0.4
		-123.3	1.7		-173.0	1.2		-172.7	2.3		-155.2	2.3		-417.2	6.1
82U34V	135.0	-0.2	1.7	207.7	0.6	1.3	205.3	0.5	1.1	184.0	0.4	0.4	496.7	0.1	0.0
		-5.3	9.5		20.0	8.4		19.3	6.7		15.4	2.0		6.5	0.6
ETYBXN	156.0	0.5	0.3	170.1	-0.5	0.0	158.0	-0.7		135.1	-0.9	0.2	490.2	0.0	0.4
		15.6	1.9		-17.6	0.0		-28.0	0.0		-33.5	1.2		0.0	7.0
3PWDKZ	107.2	-1.0	0.3	144.7	-1.3	0.5	142.9	-1.0	0.3	134.8	-0.9	1.0	391.5	-1.1	1.4
		-33.1	2.0		-43.0	3.5		-43.2	1.8		-33.8	5.7		-98.6	22.2
FC666L	165.2	0.8	0.8	181.0	-0.2	0.6	163.6	-0.5	0.4	164.4	-0.1	1.5	452.0	-0.4	0.3
		24.9	4.4		-6.6	4.2		-22.4	2.5		-4.1	8.6		-38.2	4.2
PN6V2C	156.7	0.5	0.5	221.7	1.0	0.9	240.0	1.3	0.9	207.7	1.1	0.4	613.7	1.3	0.5
		16.3	2.9		34.0	5.8		54.0	5.0		39.1	2.1		123.5	7.8
8JTXZT	135.7	-0.1	0.7	156.3	-0.9	0.5	137.7	-1.1	0.8	139.7	-0.8	1.0	375.0	-1.2	0.5
		-4.7	3.8		-31.3	3.2		-48.3	4.7		-28.9	5.7		-115.2	8.7
PDLGXA	185.1	1.4	0.8	195.2	0.2	1.2	178.1	-0.2	0.9	178.2	0.3	1.6	421.2	-0.7	1.0
		44.7	4.6		7.6	7.9		-7.9	5.4		9.6	9.1		-69.0	16.4
P7RC69	186.7	1.4	0.9	218.3	0.9	1.1	186.0	0.0	0.2	191.0	0.6	0.6	535.0	0.5	2.8
		46.3	5.0		30.7	7.0		0.0	1.0		22.4	3.6		44.8	45.8
T3CD22	86.6	-1.7	0.2	126.4	-1.8	0.2	122.8	-1.5	0.6	112.3	-1.6	0.4	336.0	-1.6	0.2
		-53.8	1.4		-61.3	1.6		-63.2	3.3		-56.2	2.5		-154.2	4.0
3AXLEP	150.0	0.3	0.3	168.7	-0.6	0.4	152.0	-0.8	0.6	146.7	-0.6	0.5	449.0	-0.4	0.8
		9.7	1.7		-19.0	2.5		-34.0	3.5		-21.9	3.1		-41.2	13.1
GRVM9A	129.7	-0.3	0.5	171.3	-0.5	0.1	179.3	-0.2	0.7	158.7	-0.3	0.4	574.0	0.9	0.5
		-10.7	3.1		-16.3	0.6		-6.7	4.2		-9.9	2.1		83.8	8.9
UGAKVW	124.1	-0.5	0.3	166.0	-0.6	0.0	161.9	-0.6	0.2	159.3	-0.3	0.0	433.9	-0.6	0.2
		-16.3	2.0		-21.6	0.3		-24.1	1.0		-9.2	0.2		-56.3	3.2



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	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		
4NTEEW	181.7	1.3	0.3	207.7	0.6	2.1	184.0	0.0	0.9	182.7	0.4	1.2	500.9	0.1	1.1
		41.3	1.5		20.0	13.9		-2.0	5.0		14.1	7.0		10.7	18.5
UAAAE7	149.9	0.3	1.0	212.2	0.7	0.8	237.7	1.2	1.5	209.1	1.1	1.3	587.7	1.0	0.2
		9.6	5.7		24.6	5.6		51.7	9.1		40.5	7.3		97.6	3.2
47FVHT	152.0	0.4	1.0	157.7	-0.9	0.5	132.7	-1.3	0.9	130.0	-1.1	0.6	404.7	-0.9	0.4
		11.7	6.0		-30.0	3.1		-53.3	5.0		-38.6	3.6		-85.5	6.1
VFA93Z	140.3	0.0	0.8	202.7	0.4	1.2	213.0	0.6	0.9	201.3	0.9	1.0	637.3	1.6	1.6
		0.0	4.7		15.0	8.1		27.0	5.3		32.8	5.7		147.2	26.4
96N7NM	135.7	-0.1	0.4	201.4	0.4	0.4	217.8	0.8	0.2	192.9	0.7	0.0	582.0	1.0	0.2
		-4.6	2.1		13.7	2.7		31.8	1.5		24.4	0.3		91.9	2.7
6M3BLP	135.7	-0.1	0.4	201.4	0.4	0.4	217.8	0.8	0.2	193.0	0.7	0.1	582.0	1.0	0.2
		-4.6	2.1		13.7	2.7		31.8	1.5		24.5	0.8		91.9	2.7
FHRYXC	184.0	1.4	0.9	194.4	0.2	0.1	193.0	0.2	0.9	171.4	0.1	0.5	452.2	-0.4	0.3
		43.6	5.3		6.7	0.8		7.0	5.5		2.9	2.6		-38.0	5.5
TYT44W	119.2	-0.7	0.6	168.9	-0.5	2.5	209.6	0.6	1.4	168.6	0.0	0.5	520.8	0.3	2.7
		-21.1	3.2		-18.8	16.8		23.6	8.2		0.0	2.7		30.7	43.4
GQ3LL8	125.7	-0.5	0.3	187.7	0.0	0.4	200.7	0.3	0.5	170.3	0.0	0.5	545.7	0.6	0.2
		-14.7	1.5		0.0	2.5		14.7	3.1		1.8	3.1		55.5	3.1
PU98PV	122.3	-0.6	1.6	179.3	-0.2	0.1	210.0	0.6	0.3	166.7	-0.1	0.4	484.3	-0.1	1.2
		-18.0	9.0		-8.3	0.6		24.0	2.0		-1.9	2.1		-5.8	19.9
TB276K	55.5	-2.7	0.1	90.7	-2.8	0.6	70.0	-2.7	1.1	73.2	-2.7	0.3	251.6	-2.5	0.3
		-84.9	0.5		-97.0	4.0		-116.0	6.2		-95.3	1.9		-238.6	4.6
TMGXVF	145.0	0.1	1.1	209.7	0.6	1.5	213.3	0.6	1.4	195.7	0.8	1.5	576.7	0.9	1.4
		4.7	6.1		22.0	10.1		27.3	8.4		27.1	8.3		86.5	22.1
QWWVMG	200.0	1.9		220.0	0.9		200.0	0.3		220.0	1.4		560.0	0.7	
		59.7	0.0		32.3	0.0		14.0	0.0		51.4	0.0		69.8	0.0
4DBTA3	136.0	-0.1		290.0	3.0		283.0	2.3		295.0	3.5		452.0	-0.4	
		-4.3	0.0		102.3	0.0		97.0	0.0		126.4	0.0		-38.2	0.0
HZKKTN	143.3	0.1	1.0	166.7	-0.6	0.9	143.3	-1.0	1.0	150.0	-0.5	1.8	416.7	-0.8	0.4
		3.0	5.8		-21.0	5.8		-42.7	5.8		-18.6	10.0		-73.5	5.8
99PAHV	162.3	0.7	0.1	192.6	0.1	0.5	170.7	-0.4	1.3	162.8	-0.2	0.9	515.1	0.3	1.3
		21.9	0.4		4.9	3.2		-15.3	7.4		-5.8	5.3		24.9	21.4
YLNT44	126.0	-0.4	0.8	170.7	-0.5	0.3	197.3	0.3	0.6	176.0	0.2	0.4	524.3	0.4	1.0
		-14.3	4.6		-17.0	2.1		11.3	3.5		7.4	2.0		34.2	15.9
PZEKPF	182.0	1.3	0.5	180.3	-0.2	2.5	177.7	-0.2	0.7	164.0	-0.1	0.8	486.7	0.0	0.3
		41.7	3.0		-7.3	16.3		-8.3	4.2		-4.6	4.6		-3.5	4.5
Grand Median		140.3		187.7			186.0			168.6			490.2		
Median Abs Dev		15.6		18.8			24.0			18.6			55.5		
Avg Within Lab SD		5.8		6.6			5.9			5.6			16.3		
Labs Included		37		37			37			37			37		
Labs Reporting		37		37			37			37			37		



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

	Na Ammonium Acetate (SubTestCode 143)			in the Bases (1:10) Property Groups									Data units: mg/kg		
	SRS1401			SRS1402			SRS1403			SRS1404			SRS1405		
NVRNBQ	13.2	-0.2	0.2	13.4	0.0	0.2	8.9	0.0	0.1	9.8	0.0	0.1	78.9	0.7	0.9
		-1.9	0.5		-0.6	0.3		-0.1	0.2		-0.1	0.2		11.9	2.8
X8RE9F	52.3	3.0	2.3	46.0	2.5	2.9	36.0	2.9	0.7	41.8	3.2	2.6	101.2	1.9	1.1
		37.2	5.7		32.0	4.8		27.0	1.0		31.9	3.7		34.2	3.6
MM2LUN	12.1	-0.2	0.2	10.8	-0.2	1.4	3.9	-0.5	0.1	6.8	-0.3	0.4	67.3	0.0	0.6
		-3.0	0.4		-3.2	2.2		-5.1	0.1		-3.1	0.6		0.3	1.8
XNEVBC	15.5	0.0	0.2	12.3	-0.1	0.3	7.7	-0.1	0.2	9.3	-0.1	0.0	63.6	-0.2	0.1
		0.4	0.4		-1.7	0.5		-1.3	0.2		-0.6	0.1		-3.4	0.4
KKY4HM	13.0	-0.2	0.6	10.4	-0.3	1.0	7.8	-0.1	3.4	9.5	0.0	1.5	62.1	-0.3	1.6
		-2.1	1.4		-3.6	1.6		-1.2	4.7		-0.4	2.2		-4.9	5.0
LEBJDL	8.3	-0.6	0.2	10.3	-0.3	0.4	5.0	-0.4		6.7	-0.3	0.8	60.3	-0.4	0.7
		-6.8	0.6		-3.7	0.6		-4.0	0.0		-3.2	1.2		-6.7	2.1
VFBYEB	13.0	-0.2	0.4	18.3	0.3	0.9	9.0	0.0	0.7	8.0	-0.2		63.0	-0.2	0.3
		-2.1	1.0		4.3	1.5		0.0	1.0		-1.9	0.0		-4.0	1.0
ARD6BU	90.3	6.2	0.2	180.3	12.9	4.8	196.7	19.9	1.5	89.7	8.0	1.4	355.0	16.3	3.9
		75.2	0.6		166.3	7.8		187.7	2.1		79.8	2.1		288.0	12.2
82U34V	17.1	0.2	0.5	14.4	0.0	0.8	9.8	0.1	0.9	12.2	0.2	0.2	71.8	0.3	0.6
		2.0	1.2		0.4	1.3		0.8	1.2		2.3	0.3		4.8	1.9
ETYBXN	16.1	0.1	0.0	11.5	-0.2		6.9	-0.2	0.0	6.9	-0.3	0.0	66.7	0.0	0.0
		1.0	0.0		-2.5	0.0		-2.1	0.0		-3.0	0.0		-0.3	0.0
FC666L	23.8	0.7	0.5	21.5	0.6	0.8	14.6	0.6	1.0	14.6	0.5	0.9	82.8	0.9	1.9
		8.7	1.3		7.5	1.3		5.5	1.3		4.7	1.3		15.8	6.1
PN6V2C	17.7	0.2	0.2	17.3	0.3	0.4	14.3	0.6	0.4	15.7	0.6	0.4	83.7	0.9	0.2
		2.6	0.6		3.3	0.6		5.3	0.6		5.8	0.6		16.7	0.6
8JTXZT	10.0	-0.4	0.8	8.0	-0.5	0.6	2.3	-0.7	0.4	5.7	-0.4	1.1	50.3	-0.9	1.3
		-5.1	2.0		-6.0	1.0		-6.7	0.6		-4.2	1.5		-16.7	4.0
P7RC69	10.3	-0.4	0.2	5.7	-0.6	0.7	1.7	-0.8	0.8	3.3	-0.7	0.8	57.3	-0.5	1.6
		-4.8	0.6		-8.3	1.2		-7.4	1.2		-6.5	1.2		-9.7	5.0
T3CD22	2.6	-1.0	0.1	8.5	-0.4	0.1	1.6	-0.8	0.0	6.5	-0.3	0.1	52.0	-0.9	0.3
		-12.5	0.1		-5.5	0.2		-7.4	0.1		-3.4	0.2		-15.0	1.0
3AXLEP	14.7	0.0	0.2	12.0	-0.2	1.1	5.0	-0.4	1.2	6.7	-0.3	0.8	67.0	0.0	0.6
		-0.4	0.6		-2.0	1.7		-4.0	1.7		-3.2	1.2		0.0	1.7
GRVM9A	20.0	0.4	1.1	18.0	0.3	1.6	9.0	0.0	0.7	11.0	0.1	0.7	74.7	0.4	0.8
		4.9	2.6		4.0	2.6		0.0	1.0		1.1	1.0		7.7	2.5
4NTEEW	17.3	0.2	1.6	21.0	0.5	1.8	17.0	0.8	0.7	15.3	0.5	2.8	40.0	-1.5	0.6
		2.2	4.0		7.0	3.0		8.0	1.0		5.5	4.0		-27.0	2.0
UAAAE7	13.5	-0.1	0.1	14.2	0.0	0.9	9.0	0.0	0.3	12.0	0.2	1.1	75.1	0.5	0.3
		-1.6	0.3		0.2	1.5		0.0	0.4		2.1	1.6		8.1	0.9
47FVHT	23.0	0.6	0.8	13.3	-0.1	0.9	7.3	-0.2	0.4	7.3	-0.3	0.8	65.0	-0.1	1.3
		7.9	2.0		-0.7	1.5		-1.7	0.6		-2.5	1.2		-2.0	4.0



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	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD
96N7NM	16.3	0.1	0.9	15.8	0.1	1.0	11.7	0.3	1.4	12.8	0.3	0.9	79.1	0.7	0.7
		1.2	2.3		1.9	1.7		2.7	1.9		2.9	1.3		12.1	2.1
6M3BLP	16.3	0.1	0.9	15.8	0.1	1.0	11.7	0.3	1.4	12.8	0.3	0.9	79.1	0.7	0.7
		1.2	2.3		1.9	1.7		2.7	1.9		2.9	1.3		12.1	2.1
FHRYXC	23.6	0.7	0.2	22.4	0.7	0.4	13.1	0.4	0.8	19.3	0.9	0.1	61.1	-0.3	0.3
		8.5	0.6		8.4	0.6		4.1	1.2		9.4	0.2		-5.9	1.1
TYT44W	12.2	-0.2	0.7	13.8	0.0	0.3	10.4	0.1	0.4	9.9	0.0	0.5	73.3	0.4	2.9
		-2.9	1.7		-0.2	0.5		1.4	0.6		0.1	0.7		6.3	9.2
PU98PV	14.6	0.0	1.2	12.7	-0.1	0.3	9.0	0.0	0.7	11.8	0.2	0.5	67.1	0.0	0.8
		-0.5	3.0		-1.3	0.6		0.0	1.0		1.9	0.8		0.1	2.4
TB276K	7.4	-0.6	0.4	5.5	-0.7	0.2	2.0	-0.7	0.2	4.5	-0.5	0.4	53.9	-0.7	0.6
		-7.7	0.9		-8.5	0.3		-7.0	0.2		-5.4	0.5		-13.1	2.0
TMGXVF	14.7	0.0	1.8	12.0	-0.2	0.6	8.7	0.0	1.8	9.3	-0.1	1.4	77.0	0.6	1.4
		-0.4	4.6		-2.0	1.0		-0.4	2.5		-0.5	2.1		10.0	4.4
QWWVMG	100.0	6.9		140.0	9.8		80.0	7.5		80.0	7.1		140.0	4.1	
		84.9	0.0		126.0	0.0		71.0	0.0		70.1	0.0		73.0	0.0
4DBTA3	8.0	-0.6		16.0	0.2		11.0	0.2		6.0	-0.4		33.0	-1.9	
		-7.1	0.0		2.0	0.0		2.0	0.0		-3.9	0.0		-34.0	0.0
HZKKTN	28.7	1.1	2.7	18.7	0.4	1.9	13.7	0.5	1.8	17.3	0.8	1.4	66.0	-0.1	0.3
		13.6	6.7		4.7	3.1		4.7	2.5		7.5	2.1		-1.0	1.0
99PAHV	27.4	1.0	2.1	21.6	0.6	0.1	16.3	0.8	0.1	20.7	1.1	0.3	78.0	0.6	1.0
		12.3	5.2		7.6	0.1		7.3	0.2		10.9	0.4		11.0	3.0
PZEKPF													66.0	-0.1	0.3
														-1.0	1.0
Grand Median		15.1			14.0			9.02			9.87			67.0	
Median Abs Dev		3.0			3.5			3.37			3.16			8.1	
Avg Within Lab SD		2.5			1.6			1.39			1.44			3.1	
Labs Included		30			30			30			30			31	
Labs Reporting		30			30			30			30			31	



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

Bray Extractable K (SubTestCode 144)	in the Bases (1:10) Property Groups										Data units: mg/kg
	SRS1401		SRS1402		SRS1403		SRS1404		SRS1405		
PGLRRN	55.5	0.2	119.1	0.6	127.0	0.3	60.5	1.3	256.9	1.4	
		0.4		1.7		0.8		1.1		3.5	
VFA93Z	70.0	1.4	134.0	1.3	153.7	1.4	65.7	0.6	284.3	0.2	
		2.6		3.6		3.5		0.6		0.6	
Grand Median	62.8		126.6		140.4		63.1		270.6		
Median Abs Dev											
Avg Within Lab SD	1.9		2.8		2.5		0.9		2.5		
Labs Included	2		2		2		2		2		
Labs Reporting	2		2		2		2		2		



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

K- Bicarb. (SubTestCode 145)	in the Bases (1:10) Property Groups										Data units: mg/kg	
	SRS1401	SRS1402	SRS1403	SRS1404	SRS1405							
MBLU4T	79.3	0.8	134.7	0.7	119.3	0.1	63.3	0.2	258.7	0.3		
		2.9		3.5		2.9		1.5		3.5		
FC666L	97.3	1.3	157.1	1.5	142.6	0.1	76.1	0.0	280.9	0.4		
		4.7		7.8		2.0		0.2		4.1		
4X72UR	139.1	0.9	247.2	0.5	267.2	1.7	120.5	1.7	466.1	1.7		
		3.4		2.8		44.7		13.3		17.4		
Grand Median	97.3		157.1		142.6		76.1		280.9			
Median Abs Dev												
Avg Within Lab SD	3.8		5.2		25.9		7.7		10.5			
Labs Included	3		3		3		3		3			
Labs Reporting	3		3		3		3		3			



ALP Program - Participant Web Summary Report - Cycle 23

Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

K Modified Morgan (SubTestCode 146)	in the Bases (1:10) Property Groups										Data units: mg/kg
	SRS1401		SRS1402		SRS1403		SRS1404		SRS1405		
VJ8PJ2	93.5	1.0 1.0	146.3	1.0 4.4	140.5	1.0 7.8	70.3	1.0 0.3	260.8	1.0 14.6	
Grand Median	93.5		146.3		140.5		70.3		260.8		
Median Abs Dev											
Avg Within Lab SD	1.0		4.4		7.8		0.3		14.6		
Labs Included	1		1		1		1		1		
Labs Reporting	1		1		1		1		1		



ALP Program - Participant Web Summary Report - Cycle 23

Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

Ca Modified Morgan (SubTestCode 147)	in the Bases (1:10) Property Groups										Data units: mg/kg
SRS1401	SRS1402		SRS1403		SRS1404		SRS1405				
VJ8PJ2	2,240.8	1.0	1,207.0	1.0	1,050.0	1.0	1,346.8	1.0	862.2	1.0	
	5.5		12.6		79.5		32.7		32.2		
Grand Median	2,240.8		1,207.0		1,050.0		1,346.8		862.2		
Median Abs Dev											
Avg Within Lab SD	5.5		12.6		79.5		32.7		32.2		
Labs Included	1		1		1		1		1		
Labs Reporting	1		1		1		1		1		



ALP Program - Participant Web Summary Report - Cycle 23

Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

Aluminum KCL Extr. (SubTestCode 148)	in the Bases (1:10) Property Groups										Data units: mg/kg
	SRS1401		SRS1402		SRS1403		SRS1404		SRS1405		
MBLU4T	0.20	1.00 0.10	0.27	1.00 0.06	0.53	1.00 0.12	0.27	1.00 0.06	1.10	1.00 0.20	
Grand Median		0.20		0.27		0.53		0.27		1.10	
Median Abs Dev											
Avg Within Lab SD		0.10		0.06		0.12		0.06		0.20	
Labs Included		1		1		1		1		1	
Labs Reporting		1		1		1		1		1	



ALP Program - Participant Web Summary Report - Cycle 23

Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

Mehlich-1, P (SubTestCode 149)	in the Mehlich-1 Multi Element (scoop) Property Groups															Data units: mg/kg
	SRS1401			SRS1402			SRS1403			SRS1404			SRS1405			
PDLGXA	26.2	0.1	0.1	75.3	-0.8	0.2	14.3	-1.1	0.1	6.3	-0.9	0.3	44.5	-0.7	0.1	
		0.1	0.1		-2.7	0.2		-2.8	0.1		-2.8	0.4		-3.6	0.3	
EHV3AC	28.6	1.9	0.6	78.3	0.1	1.6	20.1	1.2	1.7	13.5	1.3	1.6	57.2	1.9	1.5	
		2.5	0.6		0.2	2.3		3.0	1.0		4.3	1.8		9.1	3.0	
U6T2RR	26.0	-0.1	1.9	83.7	1.7	0.8	17.7	0.2	1.0	10.0	0.3	0.9	48.3	0.1	0.6	
		-0.1	2.0		5.6	1.2		0.6	0.6		0.8	1.0		0.3	1.2	
QGZJCR	25.2	-0.7	0.3	77.8	-0.1	0.9	16.5	-0.2		8.3	-0.3	0.7	47.8	-0.1	1.2	
		-0.9	0.3		-0.2	1.3		-0.6	0.0		-0.8	0.8		-0.3	2.5	
Grand Median		26.1		78.1			17.1			9.17			48.1			
Median Abs Dev		0.5		1.5			1.7			1.83			1.9			
Avg Within Lab SD		1.1		1.4			0.6			1.11			2.0			
Labs Included		4		4			4			4			4			
Labs Reporting		4		4			4			4			4			



ALP Program - Participant Web Summary Report - Cycle 23

Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

Mehlich-1, K (SubTestCode 150)	in the Mehlich-1 Multi Element (scoop) Property Groups															Data units: mg/kg
	SRS1401			SRS1402			SRS1403			SRS1404			SRS1405			
PDLGXA	57.5	0.0	0.1	127.8	1.1	0.1	113.1	-0.4	0.5	59.3	0.0	0.0	234.6	-0.2	0.2	
		0.6	0.3		13.0	0.6		-3.2	1.3		-0.2	0.1		-2.3	1.3	
EHV3AC	77.6	1.7	1.2	110.0	-0.4	0.9	125.9	1.1	1.2	77.9	1.8	1.6	235.6	-0.1	1.5	
		20.7	2.5		-4.7	4.2		9.6	3.0		18.3	4.8		-1.4	9.8	
U6T2RR	46.3	-0.9	1.5	105.3	-0.8	1.7	109.0	-0.8	1.1	51.0	-0.8	0.6	238.3	0.1	1.3	
		-10.6	3.1		-9.4	7.5		-7.3	2.6		-8.5	1.7		1.4	8.6	
QGZJCR	56.3	0.0	0.4	119.5	0.4	0.6	119.5	0.4	1.0	59.7	0.0	1.0	269.5	2.3	0.4	
		-0.6	0.8		4.7	2.5		3.2	2.5		0.2	2.9		32.5	2.6	
Grand Median		56.9		114.8			116.3			59.5			237.0			
Median Abs Dev		5.6		7.1			5.3			4.3			1.9			
Avg Within Lab SD		2.0		4.5			2.4			2.9			6.7			
Labs Included		4		4			4			4			4			
Labs Reporting		4		4			4			4			4			



ALP Program - Participant Web Summary Report - Cycle 23

Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

Mehlich-1, Ca (SubTestCode 151)	in the Mehlich-1 Multi Element (scoop) Property Groups										Data units: mg/kg
	SRS1401		SRS1402		SRS1403		SRS1404		SRS1405		
PDLGXA	1,993.0	0.2	1,595.8	0.1	1,301.2	0.2	1,557.1	0.1	1,151.5	0.1	0.1
		11.6		6.3		3.5		5.9		2.1	
		1.2		0.9		0.7		1.5		1.6	
EHV3AC	1,795.7	82.5	1,353.7	56.0	1,418.0	13.1	1,516.3	107.9	1,343.3	53.3	53.3
		1.3		1.5		1.6		0.8		0.6	
U6T2RR	1,643.3	89.2	1,446.3	90.0	1,331.3	27.9	1,385.3	55.2	1,290.7	19.3	19.3
Grand Median	1,795.7		1,446.3		1,331.3		1,516.3		1,290.7		
Median Abs Dev											
Avg Within Lab SD	70.5		61.3		17.9		70.1		32.7		
Labs Included	3		3		3		3		3		
Labs Reporting	3		3		3		3		3		



ALP Program - Participant Web Summary Report - Cycle 23

Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

Mehlich-1, Mg (SubTestCode 152)	in the Mehlich-1 Multi Element (scoop) Property Groups															Data units: mg/kg
	SRS1401			SRS1402			SRS1403			SRS1404			SRS1405			
PDLGXA	138.9	0.8	0.1	213.2	0.9	0.1	176.0	-1.3	0.2	200.9	0.5	0.2	524.4	-1.0	0.1	
		9.9	0.6		17.3	0.9		-11.6	0.7		6.4	2.0		-18.6	1.3	
EHV3AC	123.8	-0.5	1.1	173.4	-1.2	0.9	192.9	0.6	0.6	188.2	-0.5	0.5	574.0	1.6	1.5	
		-5.3	5.8		-22.5	6.7		5.3	1.8		-6.4	4.7		31.1	24.1	
U6T2RR	118.0	-0.9	1.4	190.7	-0.3	1.7	184.3	-0.4	0.5	182.0	-1.0	0.3	544.3	0.1	1.1	
		-11.0	7.0		-5.2	12.6		-3.3	1.5		-12.6	2.6		1.4	16.8	
QGZJCR	134.3	0.5	0.9	201.0	0.3	0.3	190.8	0.4	1.8	204.3	0.8	1.9	541.5	-0.1	0.7	
		5.3	4.6		5.2	2.2		3.3	5.5		9.8	19.4		-1.4	10.2	
Grand Median		129.0		195.8			187.6			194.6			542.9			
Median Abs Dev		7.6		11.3			4.3			8.1			10.0			
Avg Within Lab SD		5.1		7.2			3.0			10.1			15.6			
Labs Included		4		4			4			4			4			
Labs Reporting		4		4			4			4			4			



ALP Program - Participant Web Summary Report - Cycle 23

Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

Mehlich-1, Mn (SubTestCode 153)	in the Mehlich-1 Multi Element (scoop) Property Groups										Data units: mg/kg
	SRS1401		SRS1402		SRS1403		SRS1404		SRS1405		
PDLGXA	12.2	0.0	47.0	0.4	49.6	0.1	70.3	0.4	30.1	0.1	
		0.0		0.4		0.3		0.3		0.1	
EHV3AC	12.0	0.1	34.8	0.7	58.8	0.9	56.8	1.7	32.1	1.7	
		0.2		0.7		2.7		1.5		2.1	
U6T2RR	14.0	1.7	45.2	1.5	57.9	1.5	64.3	0.3	35.9	0.2	
		2.7		1.6		4.2		0.3		0.3	
Grand Median	12.2		45.2		57.9		64.3		32.1		
Median Abs Dev											
Avg Within Lab SD	1.6		1.1		2.9		0.9		1.2		
Labs Included	3		3		3		3		3		
Labs Reporting	3		3		3		3		3		



ALP Program - Participant Web Summary Report - Cycle 23

Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

Mehlich-1, Zn (SubTestCode 154)	in the Mehlich-1 Multi Element (scoop) Property Groups															Data units: mg/kg
	SRS1401			SRS1402			SRS1403			SRS1404			SRS1405			
PDLGXA	4.50	0.54	0.67	1.74	0.26	0.26	0.81	-0.35	0.12	1.59	0.18	0.04	36.35	-1.54	0.18	
		0.29	0.14		0.09	0.03		-0.15	0.02		0.08	0.01		-3.63	0.24	
EHV3AC	4.71	0.92	0.81	2.21	1.72	1.29	1.71	1.77	0.83	2.30	1.88	1.75	40.32	0.15	1.33	
		0.50	0.17		0.56	0.16		0.76	0.12		0.79	0.28		0.35	1.83	
U6T2RR	3.83	-0.69	1.00	1.57	-0.26	0.46	0.83	-0.29	0.41	1.43	-0.18	0.71	42.00	0.86	0.91	
		-0.38	0.21		-0.09	0.06		-0.13	0.06		-0.08	0.12		2.02	1.25	
QGZJCR	3.92	-0.54	1.38	1.50	-0.46	1.43	1.08	0.29	1.77	1.32	-0.46	0.64	39.63	-0.15	1.17	
		-0.29	0.29		-0.15	0.18		0.13	0.25		-0.19	0.10		-0.35	1.61	
Grand Median		4.21		1.65			0.96			1.51			40.0			
Median Abs Dev		0.33		0.12			0.14			0.14			1.2			
Avg Within Lab SD		0.21		0.13			0.14			0.16			1.4			
Labs Included		4		4			4			4			4			
Labs Reporting		4		4			4			4			4			



ALP Program - Participant Web Summary Report - Cycle 23

Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

	Mehlich-3, Scoop Density (SubTestCode 155)			in the Mehlich-3 Multi-Element Property Groups						Data units: g/cm3		
	SRS1401	SRS1402	SRS1403	SRS1404	SRS1405	SRS1406	SRS1407	SRS1408	SRS1409	SRS1410	SRS1411	SRS1412
NVRNBQ	0.73	-0.59 -0.15 0.62	1.02	-0.56 -0.14 0.01	1.24	-0.59 -0.15 0.01	1.11	-0.30 -0.07 0.41	1.22	-0.57 -0.14 0.01		
82U34V	1.28	1.61 0.41 0.00	1.67	2.00 0.51 0.00	1.92	2.08 0.53 0.00	1.77	2.46 0.59 0.00	1.87	2.04 0.51 0.00		
PDLGXA	1.28	1.61 0.41 0.03	1.56	1.58 0.40 0.01	1.65	1.01 0.26 0.02	1.61	1.79 0.43 0.04	1.53	0.69 0.17 0.03		
ADE96P	0.70	-0.68 -0.17 0.01	0.92	-0.94 -0.24 0.02	1.17	-0.87 -0.22 0.00	1.01	-0.71 -0.17 0.02	1.12	-0.95 -0.24 0.01		
47FVHT	0.99	0.45 0.11 0.01	1.34	0.72 0.18 0.02	1.53	0.53 0.14 0.01	1.43	1.03 0.25 0.01	1.49	0.54 0.14 0.02		
TU3VJ3	1.18	1.21 0.31 0.00	1.18	0.07 0.02 0.00	1.18	-0.83 -0.21 0.00	1.18	0.00 0.00 0.00	1.18	-0.71 -0.18 0.00		
96N7NM	0.87	0.00 0.00 0.71	1.24	0.32 0.08 0.01	1.46	0.27 0.07 0.01	1.27	0.36 0.09 0.01	1.45	0.38 0.10 0.01		
PU98PV	0.75	-0.49 -0.12 0.00	1.00	-0.63 -0.16 0.00	1.25	-0.55 -0.14 0.00	1.10	-0.33 -0.08 0.00	1.20	-0.63 -0.16 0.00		
6W8FD7	0.77	-0.42 -0.11 0.04	1.03	-0.51 -0.13 0.02	1.23	-0.65 -0.16 0.01	1.15	-0.12 -0.03 0.04	1.17	-0.76 -0.19 0.03		
4DBTA3	0.83	-0.19 -0.05 0.00	1.16	0.00 0.00 0.00	1.39	0.00 0.00 0.00	1.25	0.29 0.07 0.00	1.40	0.15 0.04 0.00		
999DPV	0.92	0.18 0.05 0.02	1.14	-0.08 -0.02 0.04	1.40	0.03 0.01 0.01	1.17	-0.03 -0.01 0.02	1.36	0.00 0.00 0.01		
Grand Median		0.87		1.16		1.39		1.18		1.36		
Median Abs Dev		0.12		0.14		0.15		0.08		0.16		
Avg Within Lab SD		0.02		0.02		0.01		0.02		0.01		
Labs Included		11		11		11		11		11		
Labs Reporting		11		11		11		11		11		



ALP Program - Participant Web Summary Report - Cycle 23

Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

Mehlich-3, P Colorimetric (SubTestCode 156)	in the Mehlich-3 Multi-Element Property Groups												Data units: mg/kg		
	SRS1401			SRS1402			SRS1403			SRS1404			SRS1405		
MM2LUN	34.8	2.3	2.2	160.0	1.8	2.4	15.9	0.8	0.2	8.3	0.9	0.3	33.9	1.7	1.3
		8.8	3.3		26.3	11.5		1.2	0.2		0.9	0.1		10.3	1.2
82U34V	24.3	-0.4	1.0	137.0	0.2	0.2	16.0	0.9	2.0	7.0	-0.3	1.9	22.3	-0.2	1.8
		-1.7	1.5		3.3	1.0		1.3	1.7		-0.3	1.0		-1.3	1.5
GRVM9A	28.3	0.6	0.8	124.7	-0.6	0.7	14.7	0.0	0.7	7.3	0.0	1.1	32.0	1.4	1.2
		2.3	1.2		-9.0	3.2		0.0	0.6		0.0	0.6		8.3	1.0
TU3VJ3	25.0	-0.3	0.7	110.0	-1.6		13.0	-1.1	1.1	7.0	-0.3		20.7	-0.5	0.7
		-1.0	1.0		-23.7	0.0		-1.7	1.0		-0.3	0.0		-3.0	0.6
8ZGHBL	25.0	-0.3		128.0	-0.4		16.0	0.9		8.0	0.7		17.0	-1.1	
		-1.0	0.0		-5.7	0.0		1.3	0.0		0.7	0.0		-6.7	0.0
BYDUL8	25.3	-0.2	0.2	133.7	0.0	0.2	13.3	-0.9	0.3	5.8	-1.5	0.6	23.7	0.0	0.9
		-0.7	0.3		0.0	1.2		-1.3	0.3		-1.5	0.3		0.0	0.8
ZKNFUF	27.9	0.5	0.2	136.0	0.2	0.2	14.6	-0.1	0.4	7.6	0.3	0.2	23.3	-0.1	0.3
		1.9	0.4		2.3	1.0		-0.1	0.3		0.3	0.1		-0.4	0.3
TMGXVF	26.0	0.0	1.3	126.0	-0.5	1.7	13.7	-0.6	1.7	8.0	0.7	1.9	24.0	0.1	1.2
		0.0	2.0		-7.7	8.2		-1.0	1.5		0.7	1.0		0.3	1.0
4DBTA3	32.0	1.6		145.0	0.8		16.0	0.9		6.0	-1.3		30.0	1.0	
		6.0	0.0		11.3	0.0		1.3	0.0		-1.3	0.0		6.3	0.0
Grand Median		26.0			133.7			14.7			7.33			23.7	
Median Abs Dev		1.7			7.7			1.3			0.67			3.0	
Avg Within Lab SD		1.5			4.9			0.9			0.52			0.9	
Labs Included		9			9			9			9			9	
Labs Reporting		9			9			9			9			9	



ALP Program - Participant Web Summary Report - Cycle 23

Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

Mehlich-3, P ICP-AES (SubTestCode 157)	in the Mehlich-3 Multi-Element Property Groups															Data units: mg/kg
	SRS1401			SRS1402			SRS1403			SRS1404			SRS1405			
XQ6Y6J	27.8	-1.2	0.5	152.8	0.2	0.1	27.5	-0.6	0.4	2.0	-2.6	1.4	26.2	-0.6	0.3	
		-7.3	0.6		4.5	0.3		-3.3	0.5		-4.2	0.5		-4.3	0.3	
NVRNBQ	35.7	0.1	2.1	156.7	0.4	1.1	34.0	0.5	1.9	8.0	1.1	1.1	33.1	0.4	0.6	
		0.5	2.5		8.3	3.4		3.1	2.2		1.8	0.4		2.7	0.6	
PGLRRN	36.7	0.2	0.0	151.3	0.1	0.3	30.2	-0.1	0.3	6.7	0.3	0.5	24.4	-0.8	0.1	
		1.5	0.1		3.0	0.9		-0.6	0.4		0.5	0.2		-6.0	0.1	
22R3Z9	142.7	17.8	2.5	570.7	20.2	4.1	116.7	14.5	1.0	19.3	8.0	3.1	102.7	9.8	1.2	
		107.5	3.1		422.3	13.0		85.8	1.2		13.1	1.2		72.2	1.2	
LEBJDL	33.4	-0.3	1.9	157.1	0.4	1.6	35.0	0.7	0.6	4.5	-1.0	2.2	11.4	-2.6	1.3	
		-1.7	2.3		8.7	4.9		4.2	0.8		-1.7	0.8		-19.1	1.3	
QDJ96F	32.0	-0.5		139.3	-0.4	0.8	29.3	-0.3	0.5	8.0	1.1		30.3	0.0	0.6	
		-3.2	0.0		-9.0	2.5		-1.5	0.6		1.8	0.0		-0.1	0.6	
ARD6BU	37.3	0.4	0.5	156.3	0.4	0.5	33.7	0.5	0.5	9.1	1.8	1.2	31.7	0.2	0.6	
		2.2	0.6		8.0	1.5		2.8	0.6		2.9	0.5		1.2	0.6	
3PWDKZ	37.0	0.3	1.1	142.1	-0.3	0.8	35.4	0.8	0.9	6.9	0.4	0.4	32.2	0.2	0.8	
		1.9	1.4		-6.2	2.5		4.5	1.1		0.7	0.2		1.8	0.8	
PDLGXA	37.1	0.3	0.2	145.3	-0.1	0.5	28.6	-0.4	0.1	5.7	-0.3	0.0	35.4	0.7	0.4	
		1.9	0.3		-3.0	1.5		-2.3	0.1		-0.6	0.0		5.0	0.3	
UGAKVW	31.4	-0.6	0.2	136.8	-0.6	0.3	31.5	0.1	0.1	5.7	-0.3	0.3	21.3	-1.3	0.3	
		-3.8	0.2		-11.6	1.0		0.6	0.1		-0.5	0.1		-9.2	0.2	
FKH4QJ	27.8	-1.2	0.3	114.0	-1.6	1.2	28.3	-0.4	0.7	4.9	-0.8	0.9	25.9	-0.6	0.3	
		-7.3	0.4		-34.4	3.7		-2.5	0.8		-1.3	0.3		-4.6	0.3	
ADE96P	41.0	1.0	0.8	154.3	0.3	0.5	32.7	0.3	0.5	6.0	-0.1		35.0	0.6	1.0	
		5.8	1.0		6.0	1.5		1.8	0.6		-0.2	0.0		4.5	1.0	
47FVHT	40.7	0.9	1.7	116.0	-1.5	1.9	21.7	-1.5	2.1	6.7	0.3	1.6	27.3	-0.4	1.2	
		5.5	2.1		-32.3	6.0		-9.2	2.5		0.4	0.6		-3.1	1.2	
96N7NM	33.4	-0.3	0.2	152.3	0.2	0.9	33.2	0.4	0.5	6.2	0.0	0.7	30.6	0.0	0.3	
		-1.7	0.2		4.0	2.9		2.4	0.6		0.0	0.3		0.1	0.3	
GQ3LL8	31.8	-0.6	0.5	137.9	-0.5	0.5	25.8	-0.9	0.3	5.2	-0.6	0.3	26.8	-0.5	0.4	
		-3.4	0.6		-10.4	1.6		-5.0	0.4		-1.0	0.1		-3.6	0.4	
EYHHD9	31.3	-0.6	0.4	131.0	-0.8	0.3	29.2	-0.3	0.7	6.2	0.0	0.6	30.3	0.0	0.7	
		-3.8	0.5		-17.3	1.0		-1.7	0.9		-0.1	0.2		-0.1	0.7	
PU98PV	34.7	-0.1	0.4	132.7	-0.7	0.8	32.0	0.2	0.8	8.1	1.2	2.4	31.3	0.1	0.7	
		-0.5	0.5		-15.7	2.4		1.1	0.9		1.9	0.9		0.8	0.7	
XBN6AL	46.5	1.9	0.9	165.3	0.8	1.3	26.3	-0.8	2.1	7.1	0.5	0.5	45.3	2.0	2.1	
		11.3	1.1		17.0	4.0		-4.6	2.4		0.9	0.2		14.8	2.0	
6W8FD7	24.2	-1.8	0.7	96.2	-2.5	0.5	12.6	-3.1	0.1	6.2	0.0	0.6	22.1	-1.1	0.5	
		-10.9	0.9		-52.2	1.6		-18.3	0.1		0.0	0.2		-8.4	0.5	
839E2Z	31.4	-0.6	0.8	137.7	-0.5	0.9	27.6	-0.5	0.3	6.0	-0.2	0.6	28.0	-0.3	0.6	
		-3.8	1.0		-10.6	2.9		-3.2	0.4		-0.3	0.2		-2.4	0.6	



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	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		
999DPV	38.9	0.6	0.4	158.6	0.5	0.7	34.8	0.7	0.3	5.9	-0.2	0.1	32.3	0.3	0.4
		3.7	0.5		10.3	2.2		4.0	0.4		-0.3	0.0		1.9	0.4
D7692N	42.1	1.2	1.8	180.7	1.5	1.9	37.8	1.2	0.8	8.9	1.6	1.1	43.1	1.7	2.4
		7.0	2.2		32.4	6.0		6.9	0.9		2.6	0.4		12.7	2.4
VJ8PJ2	35.9	0.1	1.6	153.9	0.3	1.6	34.9	0.7	2.1	6.9	0.4	0.4	32.8	0.3	1.8
		0.8	2.0		5.5	5.2		4.1	2.5		0.6	0.2		2.3	1.7
Grand Median		35.2			148.3			30.8			6.23			30.5	
Median Abs Dev		3.5			9.6			3.2			0.65			3.4	
Avg Within Lab SD		1.2			3.1			1.2			0.37			1.0	
Labs Included		22			22			22			22			22	
Labs Reporting		22			22			22			22			22	



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

Mehlich-3, K (SubTestCode 158)			in the Mehlich-3 Multi-Element Property Groups									Data units: mg/kg			
SRS1401			SRS1402			SRS1403			SRS1404			SRS1405			
XQ6Y6J	80.8	0.0	0.4	150.0	-0.4	0.4	183.3	0.4	0.3	78.5	-0.5	0.6	326.2	0.0	0.3
		-0.6	1.8		-7.2	2.2		9.3	2.5		-5.5	1.8		1.8	2.9
NVRNBQ	80.0	-0.1	1.7	173.5	0.9	0.9	190.1	0.7	0.7	85.7	0.1	0.3	342.5	0.4	1.1
		-1.4	7.8		16.4	4.7		16.1	5.3		1.7	1.0		18.2	12.3
PGLRRN	92.2	0.8	0.3	168.7	0.6	0.2	173.9	0.0	0.2	85.3	0.1	0.5	334.5	0.2	0.2
		10.8	1.4		11.5	1.1		-0.1	1.5		1.3	1.7		10.2	2.0
22R3Z9	376.0	21.1	1.7	658.0	26.9	4.8	698.7	21.9	1.7	365.3	24.7	1.3	1,330.7	23.2	2.1
		294.6	8.0		500.9	26.0		524.7	13.0		281.3	4.2		1,006.3	24.2
QDJ96F	83.3	0.1	0.3	162.7	0.3	0.4	163.3	-0.4	0.7	86.7	0.2	1.0	306.3	-0.4	1.0
		1.9	1.5		5.5	2.1		-10.7	5.5		2.7	3.2		-18.0	11.8
ARD6BU	99.7	1.3	0.7	205.3	2.6	2.0	211.3	1.6	0.8	94.3	0.9	1.8	383.3	1.4	1.9
		18.2	3.5		48.2	11.0		37.3	6.0		10.3	5.5		59.0	22.0
82U34V	96.3	1.1	0.5	162.2	0.3	0.1	202.0	1.2	0.7	90.3	0.6	1.2	361.0	0.8	0.4
		14.9	2.5		5.1	0.7		28.0	5.6		6.3	3.8		36.7	4.6
3PWDKZ	80.6	-0.1	0.8	148.2	-0.5	0.1	155.8	-0.8	0.7	75.5	-0.7	1.3	268.6	-1.3	1.4
		-0.8	3.8		-9.0	0.6		-18.3	5.1		-8.5	4.0		-55.7	15.9
PDLGXA	116.1	2.5	0.1	192.9	1.9	0.2	208.2	1.4	0.3	105.9	1.9	0.3	352.0	0.6	0.6
		34.7	0.6		35.8	1.1		34.2	2.2		21.9	1.0		27.7	6.8
UGAKVW	84.0	0.2	1.1	154.1	-0.2	0.1	161.1	-0.5	0.0	81.8	-0.2	0.1	282.8	-1.0	0.3
		2.6	5.2		-3.0	0.7		-13.0	0.4		-2.2	0.2		-41.5	3.7
FKH4QJ	77.4	-0.3	0.5	141.3	-0.9	1.2	178.3	0.2	0.2	82.1	-0.2	1.0	325.7	0.0	0.9
		-4.1	2.2		-15.9	6.8		4.3	1.4		-1.9	3.0		1.3	9.8
ADE96P	105.3	1.7	0.1	158.0	0.0		165.0	-0.4	0.3	78.0	-0.5	1.1	304.0	-0.5	1.2
		23.9	0.6		0.9	0.0		-9.0	2.0		-6.0	3.6		-20.3	13.5
47FVHT	78.0	-0.2	0.9	132.0	-1.4	0.7	143.7	-1.3	1.2	50.7	-2.9	0.5	223.7	-2.3	0.7
		-3.4	4.4		-25.2	4.0		-30.4	9.3		-33.3	1.5		-100.7	7.5
TU3VJ3	84.0	0.2	1.9	150.0	-0.4	1.2	168.0	-0.3	0.3	80.0	-0.4	1.8	323.0	0.0	0.2
		2.6	9.0		-7.2	6.2		-6.0	2.6		-4.0	5.6		-1.3	2.6
96N7NM	79.8	-0.1	0.3	172.0	0.8	0.3	193.7	0.8	0.2	87.4	0.3	0.8	354.7	0.7	0.3
		-1.7	1.6		14.8	1.8		19.7	1.5		3.4	2.6		30.3	3.1
8ZGHBL	100.0	1.3		174.0	0.9		180.0	0.2		90.0	0.5		326.0	0.0	
		18.6	0.0		16.9	0.0		6.0	0.0		6.0	0.0		1.7	0.0
GQ3LL8	75.5	-0.4	0.1	158.4	0.1	0.5	171.1	-0.1	0.1	79.8	-0.4	0.2	320.0	-0.1	0.2
		-6.0	0.7		1.2	2.5		-2.9	1.0		-4.2	0.5		-4.3	1.7
EYHHD9	66.0	-1.1	0.5	133.0	-1.3	1.1	173.3	0.0	1.1	62.3	-1.9	1.5	310.0	-0.3	1.4
		-15.4	2.5		-24.2	6.0		-0.7	8.5		-21.8	4.8		-14.3	16.0
PU98PV	80.0	-0.1	0.2	139.5	-0.9	1.5	174.0	0.0	0.5	74.0	-0.9	1.4	332.2	0.2	2.5
		-1.4	0.8		-17.6	8.0		0.0	3.9		-10.0	4.3		7.9	28.8
XBN6AL	110.3	2.1	3.4	141.7	-0.8	1.2	127.3	-1.9	3.7	79.6	-0.4	2.1	255.7	-1.6	0.9
		28.8	16.1		-15.5	6.7		-46.7	28.2		-4.4	6.6		-68.7	10.1



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	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD
BYDUL8	74.7	-0.5	0.2	156.0	-0.1	0.4	177.3	0.1	0.1	92.0	0.7	0.6	300.0	-0.6	0.5
		-6.8	1.2		-1.2	2.0		3.3	1.2		8.0	2.0		-24.3	5.3
ZKNFUF	85.0	0.3	0.2	157.0	0.0	0.4	164.0	-0.4	0.3	84.3	0.0	0.5	299.7	-0.6	0.1
		3.6	1.0		-0.2	2.0		-10.0	2.0		0.3	1.5		-24.7	1.5
6W8FD7	95.5	1.0	0.4	143.8	-0.7	0.2	130.1	-1.8	0.1	67.7	-1.4	0.2	247.1	-1.8	0.2
		14.0	1.7		-13.3	1.1		-43.9	1.0		-16.3	0.6		-77.2	1.9
TMGXVF	77.3	-0.3	1.1	153.3	-0.2	0.8	165.3	-0.4	1.3	83.7	0.0	1.6	298.7	-0.6	0.4
		-4.1	5.1		-3.8	4.2		-8.7	10.1		-0.3	5.1		-25.7	4.7
839E2Z	82.1	0.0	0.2	169.2	0.6	0.6	180.3	0.3	0.1	91.0	0.6	0.1	357.5	0.8	0.5
		0.6	0.8		12.0	3.3		6.3	0.8		7.0	0.4		33.1	5.6
4DBTA3	58.0	-1.7		155.0	-0.1		200.0	1.1		65.0	-1.7		340.0	0.4	
		-23.4	0.0		-2.2	0.0		26.0	0.0		-19.0	0.0		15.7	0.0
999DPV	95.6	1.0	0.5	182.7	1.4	1.1	208.1	1.4	0.1	86.8	0.2	0.2	370.9	1.1	0.5
		14.1	2.5		25.6	5.8		34.0	0.5		2.8	0.7		46.6	5.8
D7692N	77.6	-0.3	0.5	157.3	0.0	1.6	174.0	0.0	0.5	85.3	0.1	0.3	295.5	-0.7	0.3
		-3.8	2.2		0.2	8.9		0.0	3.8		1.3	0.9		-28.8	3.2
VJ8PJ2	80.7	-0.1	1.8	169.3	0.7	3.0	201.7	1.2	2.6	88.9	0.4	1.3	346.1	0.5	2.5
		-0.8	8.4		12.2	16.2		27.7	19.9		4.9	4.1		21.8	28.9
Grand Median		81.4			157.2			174.0			84.0			324.3	
Median Abs Dev		4.1			11.8			10.4			5.2			24.5	
Avg Within Lab SD		4.7			5.4			7.7			3.1			11.4	
Labs Included		28			28			28			28			28	
Labs Reporting		28			28			28			28			28	



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

Mehlich-3, Ca (SubTestCode 159)		in the Mehlich-3 Multi-Element Property Groups										Data units: mg/kg			
SRS1401			SRS1402			SRS1403			SRS1404			SRS1405			
XQ6Y6J	2,052.5	0.1	0.7	1,353.7	-0.7	0.4	1,564.5	0.1	1.1	1,462.3	-0.3	0.2	1,349.2	0.2	1.1
		39.5	60.1		-121.5	21.5		30.8	73.4		-63.8	8.1		40.8	45.9
NVRNBQ	2,077.3	0.2	2.3	1,579.8	0.6	1.0	1,655.5	0.5	0.9	1,663.8	0.7	0.4	1,363.6	0.3	1.4
		64.3	201.0		104.6	52.0		121.8	62.4		137.7	19.8		55.3	61.7
PGLRRN	2,441.3	1.1	0.5	1,827.0	1.9	0.8	1,943.3	1.6	0.4	2,035.7	2.5	0.4	1,480.0	0.9	0.5
		428.3	48.5		351.8	40.1		409.7	24.5		509.5	18.0		171.7	23.1
22R3Z9	8,998.7	17.9	0.4	6,288.7	26.4	4.1	6,244.0	18.6	0.8	7,013.3	26.5	2.1	5,442.0	21.3	3.8
		6,985.7	35.0		4,813.5	208.3		4,710.3	56.1		5,487.2	98.1		4,133.7	164.0
QDJ96F	1,974.3	-0.1	0.2	1,473.3	0.0	0.6	1,435.0	-0.4	0.7	1,525.7	0.0	1.2	1,236.3	-0.4	1.8
		-38.7	17.0		-1.8	29.7		-98.7	44.6		-0.5	56.1		-72.0	77.3
ARD6BU	2,134.0	0.3	0.9	1,573.0	0.5	0.1	1,571.3	0.1	0.5	1,526.7	0.0	0.7	1,313.7	0.0	0.6
		121.0	81.7		97.8	5.2		37.7	31.9		0.5	32.9		5.3	25.5
3PWDKZ	1,300.2	-1.8	0.3	1,045.8	-2.4	0.4	1,013.4	-2.1	0.5	1,026.9	-2.4	1.0	866.9	-2.3	0.9
		-712.8	27.8		-429.4	20.8		-520.2	36.0		-499.3	45.8		-441.4	36.4
PDLGXA	2,586.0	1.5	0.2	1,736.7	1.4	0.2	1,643.3	0.4	0.3	1,856.7	1.6	0.2	1,387.0	0.4	0.6
		573.0	14.7		261.5	8.0		109.7	18.1		330.5	10.0		78.7	25.0
UGAKVW	1,840.0	-0.4	0.2	1,352.6	-0.7	0.2	1,338.9	-0.8	0.2	1,481.4	-0.2	0.2	1,022.3	-1.5	0.4
		-173.0	16.4		-122.6	11.9		-194.8	14.3		-44.7	9.3		-286.0	15.9
FKH4QJ	1,792.3	-0.6	0.4	1,337.3	-0.8	0.4	1,476.5	-0.2	0.3	1,458.0	-0.3	0.4	1,229.5	-0.4	1.1
		-220.7	32.1		-137.8	19.1		-57.2	21.9		-68.2	18.0		-78.8	46.0
ADE96P	2,530.0	1.3	0.5	1,420.0	-0.3	0.6	1,373.3	-0.6	0.4	1,493.3	-0.2	0.1	1,210.0	-0.5	0.9
		517.0	45.8		-55.2	30.0		-160.3	25.2		-32.8	5.8		-98.3	40.0
47FVHT	1,903.0	-0.3	0.8	1,218.7	-1.4	0.9	1,174.0	-1.4	0.5	1,038.3	-2.4	0.3	887.7	-2.2	0.5
		-110.0	74.6		-256.5	45.8		-359.7	32.6		-487.8	12.0		-420.7	23.0
TU3VJ3	2,291.7	0.7	1.7	1,514.7	0.2	0.7	1,534.0	0.0	0.4	1,588.3	0.3	1.0	1,399.0	0.5	0.6
		278.7	153.4		39.5	34.2		0.3	27.0		62.2	46.7		90.7	27.0
96N7NM	1,982.0	-0.1	0.2	1,530.3	0.3	0.5	1,607.7	0.3	0.2	1,681.0	0.7	0.3	1,402.3	0.5	0.2
		-31.0	18.3		55.2	25.4		74.0	11.9		154.8	12.3		94.0	6.8
8ZGHBL	1,944.0	-0.2		1,456.0	-0.1		1,528.0	0.0		1,539.0	0.1		1,303.0	0.0	
		-69.0	0.0		-19.2	0.0		-5.7	0.0		12.8	0.0		-5.3	0.0
GQ3LL8	2,115.0	0.3	0.1	1,562.7	0.5	0.1	1,537.7	0.0	0.1	1,644.7	0.6	0.2	1,342.7	0.2	0.1
		102.0	6.1		87.5	7.1		4.0	4.2		118.5	9.0		34.3	3.2
EYHHD9	1,684.9	-0.8	0.5	1,255.0	-1.2	0.9	1,426.7	-0.4	0.5	1,403.3	-0.6	1.0	1,226.7	-0.4	0.8
		-328.1	40.9		-220.2	45.0		-107.0	35.1		-122.8	45.1		-81.7	35.1
PU98PV	1,950.5	-0.2	0.3	1,300.0	-1.0	1.7	1,555.5	0.1	0.4	1,411.4	-0.6	1.0	1,326.6	0.1	1.5
		-62.5	29.4		-175.2	87.8		21.9	28.8		-114.7	47.6		18.2	62.7
XBN6AL	2,470.0	1.2	2.0	1,523.3	0.3	0.9	1,078.7	-1.8	3.2	1,520.0	0.0	1.9	1,083.3	-1.2	0.8
		457.0	180.3		48.2	46.2		-455.0	221.1		-6.2	88.9		-225.0	32.1
BYDUL8	2,019.7	0.0	0.2	1,477.0	0.0	0.2	1,533.3	0.0	0.3	1,540.0	0.1	0.3	1,271.0	-0.2	0.5
		6.7	15.8		1.8	12.1		-0.3	18.5		13.8	12.1		-37.3	21.0



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	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD
ZKNFUF	1,861.7	-0.4	0.1	1,294.0	-1.0	0.1	1,319.3	-0.8	0.0	1,365.0	-0.8	0.3	1,193.3	-0.6	0.1
		-151.3	11.1		-181.2	3.6		-214.3	3.1		-161.2	13.2		-115.0	3.2
6W8FD7	2,794.6	2.0	0.4	1,586.3	0.6	0.5	1,365.0	-0.7	0.1	1,509.2	-0.1	0.3	1,219.0	-0.5	0.4
		781.6	33.7		111.1	25.2		-168.7	5.8		-17.0	11.6		-89.3	18.5
TMGXVF	1,490.0	-1.3	0.4	1,326.0	-0.8	1.1	1,168.7	-1.4	0.9	1,437.3	-0.4	2.8	990.0	-1.6	0.6
		-523.0	32.4		-149.2	54.1		-365.0	64.3		-88.8	128.6		-318.3	25.1
4DBTA3	2,770.0	1.9		1,439.0	-0.2		2,130.0	2.4		1,819.0	1.4		1,763.0	2.3	
		757.0	0.0		-36.2	0.0		596.3	0.0		292.8	0.0		454.7	0.0
999DPV	2,254.7	0.6	0.6	1,531.0	0.3	0.9	1,635.3	0.4	0.1	1,589.1	0.3	0.2	1,365.3	0.3	0.3
		241.7	56.3		55.8	48.4		101.6	4.3		62.9	9.4		56.9	11.6
D7692N	2,006.3	0.0	0.3	1,543.0	0.4	1.5	1,624.7	0.4	0.5	1,672.7	0.7	1.3	1,331.0	0.1	0.1
		-6.7	28.9		67.8	76.4		91.0	33.5		146.5	57.3		22.7	2.6
VJ8PJ2	1,958.3	-0.1	3.1	1,488.3	0.1	3.6	1,657.7	0.5	3.2	1,605.0	0.4	2.3	1,322.0	0.1	3.3
		-54.7	274.5		13.2	182.5		124.0	216.8		78.8	107.1		13.7	139.2
Grand Median		2,013.0			1,475.2			1,533.7			1,526.2			1,308.3	
Median Abs Dev		162.2			101.2			108.3			83.8			80.3	
Avg Within Lab SD		88.6			51.4			68.3			45.7			42.7	
Labs Included		26			26			26			26			26	
Labs Reporting		26			26			26			26			26	



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

	Mehlich-3, Mg (SubTestCode 160)			in the Mehlich-3 Multi-Element Property Groups									Data units: mg/kg		
	SRS1401			SRS1402			SRS1403			SRS1404			SRS1405		
XQ6Y6J	153.8	0.0	0.4	200.7	-0.3	0.3	230.5	0.2	0.6	198.5	-0.1	0.2	624.2	0.2	0.5
		0.4	3.8		-13.2	3.0		9.0	9.8		-5.1	1.8		18.7	22.7
NVRNBQ	150.7	-0.1	1.5	231.4	0.4	0.6	236.5	0.3	0.5	212.9	0.2	0.6	629.0	0.2	0.6
		-2.7	14.3		17.6	6.8		15.0	8.7		9.3	5.9		23.5	24.3
PGLRRN	157.1	0.1	0.3	226.7	0.3	0.0	235.0	0.3	0.3	232.0	0.7	0.6	568.3	-0.4	0.1
		3.7	2.5		12.8	0.5		13.5	4.5		28.4	6.0		-37.2	5.6
22R3Z9	648.0	16.4	1.3	904.0	17.1	4.1	896.7	15.2	0.5	905.3	18.2	0.6	2,534.7	18.4	1.9
		494.6	12.0		690.2	49.8		675.2	9.0		701.7	6.4		1,929.2	78.9
QDJ96F	148.0	-0.2	0.1	200.7	-0.3	0.4	197.0	-0.6	0.2	193.0	-0.3	0.4	554.3	-0.5	0.9
		-5.4	1.0		-13.2	4.5		-24.5	4.4		-10.6	4.4		-51.2	36.4
ARD6BU	184.7	1.0	0.3	256.3	1.1	0.4	247.0	0.6	0.2	221.0	0.5	0.5	661.0	0.5	0.4
		31.3	3.2		42.5	5.0		25.5	4.4		17.4	5.3		55.5	16.5
3PWDKZ	132.3	-0.7	0.3	178.4	-0.9	0.4	179.3	-1.0	0.3	166.3	-1.0	0.7	482.9	-1.2	0.7
		-21.2	2.5		-35.4	4.3		-42.2	4.7		-37.3	7.1		-122.6	27.4
PDLGXA	175.0	0.7	0.1	235.8	0.5	0.1	220.3	0.0	0.1	233.0	0.8	0.1	628.1	0.2	0.1
		21.6	0.8		22.0	1.5		-1.2	1.6		29.4	0.7		22.6	6.1
UGAKVW	149.2	-0.1	0.2	199.7	-0.4	0.0	194.7	-0.6	0.1	191.6	-0.3	0.0	521.8	-0.8	0.1
		-4.2	2.3		-14.1	0.3		-26.7	1.3		-12.0	0.2		-83.7	3.8
FKH4QJ	140.0	-0.4	0.8	199.3	-0.4	0.3	218.8	-0.1	0.1	196.5	-0.2	0.3	606.3	0.0	0.8
		-13.5	7.7		-14.6	4.0		-2.7	1.8		-7.2	3.0		0.8	32.0
ADE96P	178.7	0.8	0.5	195.0	-0.5	0.4	194.3	-0.6	0.8	178.3	-0.7	0.3	560.7	-0.4	0.5
		25.3	4.7		-18.8	5.0		-27.2	13.3		-25.3	3.5		-44.8	19.4
47FVHT	141.7	-0.4	0.2	173.7	-1.0	0.3	179.7	-0.9	0.5	134.7	-1.8	0.6	379.7	-2.2	0.3
		-11.8	1.5		-40.2	4.0		-41.8	9.3		-69.0	6.0		-225.8	13.6
TU3VJ3	173.7	0.7	1.2	236.7	0.6	0.6	223.3	0.0	0.2	214.3	0.3	0.3	640.0	0.3	0.5
		20.3	11.1		22.8	7.1		1.9	2.9		10.7	2.9		34.5	22.6
96N7NM	140.7	-0.4	0.2	219.8	0.1	0.3	234.8	0.3	0.0	218.6	0.4	0.5	687.7	0.8	0.2
		-12.7	1.7		5.9	3.2		13.4	0.6		15.0	4.9		82.2	9.5
8ZGHBL	178.2	0.8	0.0	222.8	0.2	0.0	227.7	0.1	0.0	202.9	0.0	0.0	514.8	-0.9	0.0
		24.8	0.0		9.0	0.0		6.2	0.0		-0.7	0.0		-90.7	0.0
GQ3LL8	161.1	0.3	0.0	224.3	0.3	0.1	222.7	0.0	0.2	212.1	0.2	0.1	628.0	0.2	0.1
		7.7	0.4		10.5	1.5		1.2	2.9		8.5	1.0		22.5	5.6
EYHHD9	116.5	-1.2	0.2	175.0	-1.0	0.3	195.3	-0.6	0.4	171.0	-0.8	0.3	625.0	0.2	2.6
		-36.9	2.3		-38.8	3.0		-26.2	6.5		-32.6	3.0		19.5	108.3
PU98PV	142.9	-0.3	0.4	195.9	-0.4	0.8	224.2	0.1	0.2	183.8	-0.5	1.0	624.9	0.2	1.0
		-10.6	3.4		-18.0	9.7		2.8	4.0		-19.9	10.3		19.4	40.8
XBN6AL	179.3	0.9	1.0	199.3	-0.4	0.3	149.3	-1.6	1.6	204.3	0.0	1.0	463.7	-1.4	0.4
		25.9	9.1		-14.5	4.0		-72.2	28.0		0.7	10.1		-141.8	16.1
BYDUL8	143.7	-0.3	0.6	210.0	-0.1		217.3	-0.1	0.4	206.7	0.1	0.6	542.7	-0.6	0.5
		-9.8	5.8		-3.8	0.0		-4.2	6.4		3.1	5.8		-62.8	21.8



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	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		
ZKNFUF	153.0	0.0	0.1	218.7	0.1	0.1	208.3	-0.3	0.1	204.7	0.0	0.1	563.7	-0.4	0.1
		-0.4	1.0		4.8	1.5		-13.2	1.5		1.1	1.5		-41.8	3.2
6W8FD7	188.0	1.1	0.6	206.6	-0.2	0.1	179.5	-0.9	0.1	183.5	-0.5	0.2	513.1	-0.9	0.2
		34.6	5.2		-7.2	1.4		-41.9	1.0		-20.1	1.7		-92.4	7.4
TMGXVF	143.7	-0.3	0.6	201.7	-0.3	1.0	206.0	-0.3	0.9	202.0	0.0	0.9	604.7	0.0	1.1
		-9.8	6.0		-12.2	11.6		-15.5	16.5		-1.6	9.0		-0.8	44.7
4DBTA3	232.0	2.6		343.0	3.2		364.0	3.2		352.0	3.8		518.0	-0.8	
		78.6	0.0		129.2	0.0		142.5	0.0		148.4	0.0		-87.5	0.0
999DPV	156.4	0.1	0.4	217.7	0.1	0.6	228.0	0.1	0.1	199.3	-0.1	0.2	666.5	0.6	0.0
		3.0	3.7		3.8	7.5		6.5	1.3		-4.3	1.6		61.0	2.0
D7692N	260.0	3.5	3.8	385.7	4.3	4.2	398.7	4.0	4.2	350.0	3.8	4.3	960.0	3.4	3.2
		106.6	36.3		171.8	50.2		177.2	73.9		146.4	45.0		354.5	135.1
VJ8PJ2	146.9	-0.2	2.0	224.8	0.3	2.2	246.3	0.6	1.8	216.8	0.3	1.4	646.9	0.4	1.8
		-6.5	19.1		11.0	25.8		24.8	31.8		13.2	15.0		41.4	74.3
Grand Median		153.4			213.8			221.5			203.6			605.5	
Median Abs Dev		12.2			14.3			15.2			12.6			48.0	
Avg Within Lab SD		9.5			12.0			17.7			10.5			41.9	
Labs Included		26			26			26			26			26	
Labs Reporting		26			26			26			26			26	



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

Mehlich-3, Na (SubTestCode 161)			in the Mehlich-3 Multi-Element Property Groups												Data units: mg/kg	
	SRS1401			SRS1402			SRS1403			SRS1404			SRS1405			
NVRNBQ	11.4	-0.3	0.6	12.4	-0.3	0.3	6.7	-0.3	0.4	8.3	-0.1	1.4	76.8	0.3	0.7	
		-2.3	1.1		-1.6	0.5		-1.9	0.7		-0.7	2.4		4.6	2.9	
22R3Z9	14.7	0.1	0.3	15.0	0.2	0.6	11.3	0.4	0.4	13.7	0.7	0.9	56.3	-0.9	0.1	
		1.0	0.6		1.0	1.0		2.7	0.6		4.7	1.5		-15.9	0.6	
ARD6BU	30.3	2.3	0.6	19.7	1.0	0.7	27.3	2.7	0.4	28.0	2.7	1.2	80.3	0.5	1.0	
		16.7	1.2		5.7	1.2		18.7	0.6		19.0	2.0		8.1	4.0	
3PWDKZ	17.0	0.5	0.6	18.1	0.7	0.6	13.6	0.7	1.0	13.5	0.6	1.1	59.9	-0.7	0.5	
		3.4	1.0		4.1	1.0		5.0	1.6		4.5	1.9		-12.3	2.0	
UGAKVW	17.7	0.6	0.2	17.1	0.5	0.2	12.5	0.6	0.1	15.1	0.8	0.1	59.2	-0.8	0.1	
		4.0	0.3		3.1	0.4		3.9	0.1		6.1	0.2		-13.0	0.3	
ADE96P	12.0	-0.2	0.6	8.7	-0.9	0.4	5.7	-0.4	0.4	5.7	-0.5	0.3	68.7	-0.2	0.4	
		-1.7	1.0		-5.3	0.6		-3.0	0.6		-3.3	0.6		-3.5	1.5	
47FVHT	28.0	2.0	2.2	17.0	0.5	1.6	8.7	0.0	0.7	13.0	0.6	1.2	90.3	1.1	1.9	
		14.3	4.0		3.0	2.6		0.0	1.2		4.0	2.0		18.1	7.4	
96N7NM	10.1	-0.5	0.3	10.9	-0.5	0.5	4.7	-0.6	0.3	6.4	-0.4	0.1	78.5	0.4	0.1	
		-3.6	0.5		-3.1	0.9		-3.9	0.5		-2.6	0.2		6.3	0.5	
EYHHD9	9.3	-0.6	0.6	10.8	-0.5	0.5	6.3	-0.3	1.1	4.5	-0.6	0.4	71.5	0.0	0.9	
		-4.3	1.1		-3.2	0.9		-2.3	1.8		-4.5	0.8		-0.7	3.5	
PU98PV	13.3	-0.1	1.1	9.5	-0.8	1.1	5.9	-0.4	1.0	7.1	-0.3	0.6	72.2	0.0	1.0	
		-0.4	1.9		-4.5	1.8		-2.7	1.6		-1.9	1.1		0.0	3.9	
XBN6AL	12.2	-0.2	1.0	8.0	-1.0	0.8	2.0	-1.0	0.9	5.1	-0.6	1.0	54.8	-1.0	0.5	
		-1.5	1.7		-6.0	1.4		-6.7	1.4		-3.9	1.8		-17.4	2.1	
6W8FD7	17.2	0.5	1.2	13.7	0.0	0.4	8.6	0.0	0.0	9.6	0.1	0.2	38.6	-2.0	0.2	
		3.6	2.1		-0.3	0.7		-0.1	0.1		0.6	0.4		-33.6	0.6	
TMGXVF	13.7	0.0	1.6	15.0	0.2	0.6	10.0	0.2	0.6	7.0	-0.3	0.6	74.3	0.1	1.9	
		0.0	2.9		1.0	1.0		1.3	1.0		-2.0	1.0		2.1	7.4	
4DBTA3	8.0	-0.8		14.0	0.0		9.0	0.0		9.0	0.0		41.0	-1.9		
		-5.7	0.0		0.0	0.0		0.3	0.0		0.0	0.0		-31.2	0.0	
999DPV	9.4	-0.6	0.1	8.7	-0.9	0.1	3.5	-0.8	0.0	4.6	-0.6	0.0	76.9	0.3	0.5	
		-4.3	0.2		-5.3	0.2		-5.2	0.1		-4.4	0.1		4.7	1.8	
D7692N	24.3	1.5	0.3	28.3	2.4	2.0	21.3	1.9	2.4	21.7	1.8	1.5	77.3	0.3	0.6	
		10.7	0.6		14.3	3.2		12.7	3.8		12.7	2.5		5.1	2.3	
VJ8PJ2	18.4	0.7	1.9	19.8	1.0	2.4	16.2	1.1	2.4	16.2	1.0	2.5	88.0	0.9	2.4	
		4.7	3.5		5.8	4.0		7.5	3.7		7.2	4.2		15.8	9.3	
Grand Median	13.7			14.0			8.67			9.00			72.2			
Median Abs Dev	3.6			3.2			3.00			4.00			8.1			
Avg Within Lab SD	1.8			1.6			1.58			1.72			4.0			
Labs Included	17			17			17			17			17			
Labs Reporting	17			17			17			17			17			



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

Mehlich-3, S (SubTestCode 162)			in the Mehlich-3 Multi-Element Property Groups												Data units: mg/kg		
SRS1401			SRS1402			SRS1403			SRS1404			SRS1405					
NVRNBQ	7.8	-0.2	1.2	18.1	0.0	0.7	15.0	-0.5	1.0	21.1	-0.2	1.9	18.1	-0.5	1.2		
		-0.9	1.6		0.0	0.6		-1.6	1.4		-0.8	2.4		-1.6	1.4		
PGLRRN	8.2	-0.1	0.3	17.1	-0.3	0.4	15.5	-0.4	0.1	22.4	0.1	0.1	21.1	0.5	0.3		
		-0.4	0.4		-1.0	0.4		-1.1	0.1		0.5	0.1		1.5	0.3		
22R3Z9	45.3	9.5	0.9	39.0	6.7	2.9	39.3	7.0	1.2	46.3	7.0	0.9	36.7	5.3	1.0		
		36.7	1.2		20.9	2.6		22.7	1.5		24.4	1.2		17.0	1.2		
QDJ96F	8.0	-0.2		17.3	-0.2	1.3	16.7	0.0	0.9	19.0	-0.8	0.8	17.0	-0.8	0.8		
		-0.7	0.0		-0.8	1.2		0.0	1.2		-2.9	1.0		-2.7	1.0		
ARD6BU	7.2	-0.4	0.2	15.0	-1.0		16.7	0.0	0.4	22.7	0.2	0.5	20.3	0.2	0.5		
		-1.5	0.3		-3.1	0.0		0.0	0.6		0.8	0.6		0.7	0.6		
3PWDKZ	24.4	4.1	0.8	28.0	3.2	0.2	26.3	3.0	0.7	28.2	1.8	1.1	25.7	1.9	0.8		
		15.8	1.1		9.9	0.2		9.7	0.9		6.3	1.4		6.0	1.0		
PDLGXA	10.4	0.4	0.1	19.4	0.4	0.1	18.0	0.4	0.4	22.8	0.3	0.2	20.3	0.2	0.2		
		1.7	0.1		1.3	0.1		1.4	0.5		0.9	0.2		0.6	0.2		
UGAKVW	18.4	2.5	0.1	21.9	1.2	0.0	20.1	1.0	0.1	20.7	-0.3	0.1	19.0	-0.2	0.1		
		9.7	0.1		3.8	0.0		3.4	0.1		-1.2	0.1		-0.7	0.1		
FKH4QJ	9.9	0.3	0.7	16.6	-0.5	1.6	16.8	0.0	0.8	20.5	-0.4	0.6	19.3	-0.1	0.6		
		1.3	0.9		-1.5	1.4		0.2	1.0		-1.4	0.7		-0.4	0.7		
ADE96P	10.0	0.3		19.0	0.3		16.3	-0.1	0.4	23.0	0.3	0.8	19.7	0.0	0.5		
		1.3	0.0		0.9	0.0		-0.3	0.6		1.1	1.0		0.0	0.6		
47FVHT	14.0	1.4	0.1	15.2	-0.9	0.2	12.5	-1.3	0.3	15.1	-2.0	0.5	12.7	-2.2	0.4		
		5.4	0.2		-2.9	0.2		-4.1	0.4		-6.8	0.7		-6.9	0.5		
96N7NM	7.5	-0.3	0.3	18.1	0.0	0.5	16.4	-0.1	0.3	23.7	0.5	0.1	20.1	0.1	0.6		
		-1.2	0.4		0.0	0.5		-0.2	0.4		1.9	0.1		0.5	0.7		
GQ3LL8	8.2	-0.1	0.1	17.1	-0.3	0.7	15.3	-0.4	0.2	21.4	-0.1	0.4	18.7	-0.3	0.2		
		-0.4	0.1		-1.0	0.6		-1.3	0.3		-0.5	0.6		-1.0	0.3		
EYHHD9	8.3	-0.1	0.3	16.5	-0.5	0.3	17.8	0.4	0.7	20.3	-0.4	0.3	18.7	-0.3	0.4		
		-0.3	0.4		-1.6	0.3		1.2	1.0		-1.6	0.4		-1.0	0.5		
PU98PV	11.8	0.8	3.6	19.5	0.5	0.7	20.5	1.2	1.9	22.8	0.3	2.2	24.1	1.4	2.2		
		3.2	4.8		1.4	0.7		3.8	2.5		0.9	2.8		4.4	2.6		
XBN6AL	12.5	1.0	0.5	16.9	-0.4	0.4	15.4	-0.4	2.3	16.9	-1.4	0.5	16.0	-1.1	0.8		
		3.8	0.7		-1.2	0.3		-1.3	3.0		-5.0	0.7		-3.6	0.9		
6W8FD7	8.0	-0.2	0.5	13.8	-1.4	0.3	11.4	-1.6	0.1	19.1	-0.8	0.2	13.1	-2.1	0.1		
		-0.7	0.7		-4.3	0.3		-5.3	0.2		-2.8	0.2		-6.6	0.1		
999DPV	8.5	-0.1	0.1	18.1	0.0	0.7	18.2	0.5	0.1	21.9	0.0	0.1	19.9	0.1	0.1		
		-0.2	0.1		0.0	0.7		1.5	0.1		0.0	0.2		0.3	0.1		
D7692N	8.7	0.0	1.2	21.7	1.1	2.3	18.7	0.6	1.6	28.7	2.0	1.6	21.0	0.4	1.7		
		0.0	1.5		3.6	2.1		2.0	2.1		6.8	2.1		1.3	2.0		
VJ8PJ2	9.4	0.2	1.1	19.7	0.5	2.7	19.7	0.9	1.8	24.3	0.7	2.0	20.9	0.4	2.5		
		0.8	1.4		1.6	2.4		3.1	2.4		2.4	2.5		1.2	2.9		



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	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		
Grand Median		8.67		18.1			16.7			21.9			19.7		
Median Abs Dev		1.16		1.4			1.4			1.4			1.2		
Avg Within Lab SD		1.32		0.9			1.3			1.3			1.2		
Labs Included		19		19			19			19			19		
Labs Reporting		19		19			19			19			19		



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

Mehlich-3, Al (SubTestCode 163)		in the Mehlich-3 Multi-Element Property Groups										Data units: mg/kg			
	SRS1401			SRS1402			SRS1403			SRS1404			SRS1405		
NVRNBQ	377.9	-0.3	1.1	993.1	0.1	0.8	525.0	0.0	0.6	724.5	0.0	0.6	337.3	0.0	0.4
		-27.7	22.1		13.3	22.8		0.0	21.1		0.0	15.6		0.4	6.1
ARD6BU	449.3	0.4	0.5	950.7	-0.3	0.5	581.7	1.0	0.2	720.7	0.0	0.6	393.3	1.0	0.5
		43.7	10.1		-29.2	14.0		56.6	8.3		-3.8	15.8		56.4	7.2
ADE96P	510.7	1.1	0.3	1,053.3	0.7	0.5	578.0	1.0	0.4	834.3	0.9	0.6	401.3	1.1	0.3
		105.0	5.0		73.5	15.3		53.0	12.8		109.8	15.6		64.4	5.5
47FVHT	470.7	0.7	1.2	847.0	-1.3	0.7	424.0	-1.8	0.2	486.3	-2.0	0.2	218.3	-2.0	0.5
		65.0	23.5		-132.8	19.0		-101.0	7.2		-238.2	4.0		-118.6	7.8
96N7NM	350.3	-0.6	0.3	927.3	-0.5	0.6	504.0	-0.4	0.3	708.7	-0.1	0.7	325.7	-0.2	0.2
		-55.3	6.7		-52.5	18.0		-21.0	12.3		-15.8	16.8		-11.3	3.2
GQ3LL8	405.7	0.0	0.2	985.0	0.0	0.2	519.7	-0.1	0.1	748.3	0.2	0.1	346.0	0.2	0.4
		0.0	3.1		5.2	4.4		-5.4	2.1		23.8	2.1		9.1	5.6
EYHHD9	360.0	-0.5	1.0	870.0	-1.1	1.1	500.0	-0.5	0.8	650.0	-0.6	1.2	300.0	-0.6	1.3
		-45.7	20.0		-109.8	30.0		-25.0	30.0		-74.5	30.0		-36.9	20.0
PU98PV	342.4	-0.6	0.4	841.1	-1.3	0.5	510.6	-0.3	0.2	627.2	-0.8	0.8	325.4	-0.2	0.7
		-63.2	8.9		-138.7	14.0		-14.4	7.6		-97.3	19.2		-11.5	11.1
XBN6AL	709.0	3.0	2.1	1,183.3	1.9	0.8	603.0	1.4	2.7	1,004.0	2.3	1.2	461.7	2.1	1.3
		303.3	41.2		203.5	23.1		78.0	97.0		279.5	31.3		124.7	20.6
999DPV	425.2	0.2	0.3	995.8	0.2	0.3	544.7	0.4	0.1	739.5	0.1	0.3	336.9	0.0	0.1
		19.5	5.2		16.0	9.6		19.7	1.9		15.0	6.9		0.0	1.4
VJ8PJ2	393.5	-0.1	1.5	979.8	0.0	2.6	556.3	0.6	1.5	757.1	0.3	2.4	335.3	0.0	2.5
		-12.1	30.2		0.0	71.8		31.3	55.4		32.6	60.2		-1.6	40.0
Grand Median		405.7		979.8			525.0			724.5			336.9		
Median Abs Dev		45.7		52.5			25.0			32.6			11.5		
Avg Within Lab SD		19.9		27.8			36.1			25.2			15.9		
Labs Included		11		11			11			11			11		
Labs Reporting		11		11			11			11			11		



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

Mehlich-3, Zn (SubTestCode 164)			in the Mehlich-3 Multi-Element Property Groups										Data units: mg/kg		
	SRS1401		SRS1402			SRS1403			SRS1404			SRS1405			
NVRNBQ	5.17	-0.04	1.37	2.40	1.00	0.92	1.47	1.27	0.75	2.27	1.75	2.68	48.60	0.16	0.87
		-0.03	0.29		0.28	0.10		0.32	0.06		0.54	0.38		1.55	1.73
PGLRRN	4.64	-0.66	0.24	2.00	-0.41	0.82	1.04	-0.43	0.13	1.66	-0.19	0.33	43.17	-0.39	0.18
		-0.56	0.05		-0.12	0.09		-0.11	0.01		-0.06	0.05		-3.88	0.35
22R3Z9	5.80	0.71	0.82	2.27	0.53	0.53	1.33	0.74	0.75	2.03	1.00	0.41	48.97	0.19	1.13
		0.60	0.17		0.15	0.06		0.18	0.06		0.31	0.06		1.92	2.25
QDJ96F	5.20	0.00	0.48	2.07	-0.18	0.53	1.10	-0.19	0.00	1.70	-0.07	0.00	44.77	-0.23	1.46
		0.00	0.10		-0.05	0.06		-0.05	0.00		-0.02	0.00		-2.28	2.90
ARD6BU	6.00	0.95		2.50	1.35		1.40	1.01	0.00	1.83	0.36	0.41	5.63	-4.17	0.03
		0.80	0.00		0.38	0.00		0.25	0.00		0.11	0.06		-41.42	0.06
3PWDKZ	4.29	-1.08	0.87	2.09	-0.08	2.57	1.38	0.93	2.76	1.59	-0.43	1.21	28.13	-1.91	0.77
		-0.91	0.18		-0.02	0.28		0.23	0.21		-0.13	0.17		-18.92	1.53
PDLGXA	6.22	1.21	0.05	2.36	0.87	0.28	1.38	0.93	0.35	2.03	0.99	0.37	49.31	0.23	0.43
		1.02	0.01		0.25	0.03		0.23	0.03		0.31	0.05		2.27	0.86
UGAKVW	5.33	0.16	0.53	2.12	0.01	0.24	1.11	-0.14	0.08	1.72	-0.01	0.00	44.00	-0.31	0.28
		0.13	0.11		0.00	0.03		-0.04	0.01		0.00	0.00		-3.05	0.56
FKH4QJ	4.57	-0.75	1.40	1.80	-1.10	1.29	1.11	-0.15	0.79	1.56	-0.53	0.29	47.51	0.05	1.00
		-0.63	0.30		-0.31	0.14		-0.04	0.06		-0.17	0.04		0.47	1.99
ADE96P	6.27	1.26	0.27	2.03	-0.29	0.53	1.07	-0.33	0.75	1.70	-0.07	0.00	47.67	0.06	0.29
		1.07	0.06		-0.08	0.06		-0.08	0.06		-0.02	0.00		0.62	0.58
47FVHT	5.83	0.74	1.15	1.91	-0.72	0.65	1.15	0.02	0.72	1.32	-1.30	0.43	36.57	-1.06	1.63
		0.63	0.24		-0.20	0.07		0.00	0.06		-0.41	0.06		-10.48	3.23
96N7NM	4.92	-0.33	0.33	2.11	-0.01	0.69	1.24	0.38	0.33	1.87	0.47	0.58	51.85	0.48	0.53
		-0.28	0.07		0.00	0.08		0.09	0.03		0.15	0.08		4.80	1.04
GQ3LL8	5.47	0.32	0.73	1.92	-0.68	0.32	1.06	-0.35	0.57	1.62	-0.32	0.04	56.67	0.97	0.77
		0.27	0.15		-0.19	0.04		-0.09	0.04		-0.10	0.01		9.62	1.53
EYHHD9	4.32	-1.04	0.76	1.72	-1.41	0.32	1.13	-0.07	1.82	1.68	-0.14	0.91	46.58	-0.05	0.34
		-0.88	0.16		-0.40	0.04		-0.02	0.14		-0.04	0.13		-0.47	0.68
PU98PV	5.20	0.00	0.82	2.23	0.41	1.91	1.43	1.14	0.75	1.93	0.68	1.08	48.37	0.13	1.06
		0.00	0.17		0.12	0.21		0.28	0.06		0.21	0.15		1.32	2.10
XBN6AL	7.65	2.89	2.42	2.26	0.49	1.25	1.00	-0.58	1.66	2.11	1.23	0.32	41.43	-0.57	0.74
		2.45	0.51		0.14	0.14		-0.14	0.13		0.38	0.05		-5.62	1.46
6W8FD7	5.17	-0.04	0.37	1.38	-2.61	0.22	0.61	-2.14	0.09	1.05	-2.16	0.15	37.22	-0.99	0.27
		-0.03	0.08		-0.74	0.02		-0.54	0.01		-0.67	0.02		-9.83	0.54
4DBTA3	4.90	-0.35		2.30	0.65		1.60	1.80		1.90	0.57		45.00	-0.21	
		-0.30	0.00		0.18	0.00		0.45	0.00		0.18	0.00		-2.05	0.00
999DPV	5.79	0.69	0.52	2.13	0.05	0.61	1.14	-0.02	0.10	1.72	0.01	0.19	54.31	0.73	0.10
		0.59	0.11		0.01	0.07		0.00	0.01		0.00	0.03		7.26	0.20
VJ8PJ2	4.97	-0.28	2.14	2.30	0.65	1.59	1.37	0.87	1.51	2.10	1.21	2.83	53.13	0.61	2.91
		-0.23	0.45		0.18	0.17		0.22	0.12		0.38	0.40		6.09	5.77



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	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		
Grand Median		5.20			2.12			1.15			1.72			47.0	
Median Abs Dev		0.57			0.17			0.13			0.16			3.5	
Avg Within Lab SD		0.21			0.11			0.08			0.14			2.0	
Labs Included		20			20			20			20			20	
Labs Reporting		20			20			20			20			20	



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

Mehlich-3, Mn (SubTestCode 165)			in the Mehlich-3 Multi-Element Property Groups										Data units: mg/kg		
	SRS1401		SRS1402			SRS1403			SRS1404			SRS1405			
NVRNBQ	100.9	0.4	1.9	124.8	0.9	0.5	108.4	0.0	0.9	320.1	-0.4	0.0	59.0	0.2	0.1
		5.6	6.5		14.3	2.1		0.0	3.7		-20.5	0.0		2.7	0.4
22R3Z9	95.3	0.0	0.6	98.7	-0.7	0.8	109.3	0.1	0.4	330.3	-0.2	1.0	50.0	-0.6	0.4
		0.0	2.1		-11.8	3.1		1.0	1.5		-10.3	11.0		-6.4	1.0
QDJ96F	97.7	0.2	0.2	114.0	0.2	0.4	97.7	-0.9	0.8	362.0	0.4	1.0	57.0	0.1	1.1
		2.3	0.6		3.6	1.7		-10.7	3.2		21.4	10.8		0.6	2.6
ARD6BU	91.7	-0.2	0.2	110.7	0.0	0.1	105.0	-0.3	0.2	357.0	0.3	0.4	57.7	0.1	0.2
		-3.7	0.6		0.2	0.6		-3.3	1.0		16.4	4.6		1.3	0.6
3PWDKZ	90.8	-0.3	0.3	109.9	0.0	0.9	99.6	-0.7	1.0	310.6	-0.5	0.1	54.6	-0.2	1.2
		-4.5	1.1		-0.6	3.4		-8.7	4.1		-30.0	1.3		-1.8	2.9
PDLGXA	97.8	0.2	0.2	100.9	-0.6	0.5	111.2	0.2	0.2	334.2	-0.1	0.2	53.6	-0.3	0.5
		2.4	0.6		-9.6	2.1		2.8	0.8		-6.4	2.7		-2.8	1.1
UGAKVW	110.6	1.0	0.7	114.0	0.2	0.1	111.8	0.3	0.1	375.3	0.6	0.1	52.9	-0.3	0.2
		15.3	2.4		3.6	0.6		3.4	0.5		34.7	1.6		-3.5	0.4
FKH4QJ	87.3	-0.5	0.7	104.0	-0.4	1.7	103.0	-0.4	1.1	334.2	-0.1	0.6	54.8	-0.1	0.7
		-8.0	2.3		-6.4	6.7		-5.4	4.5		-6.4	7.2		-1.6	1.6
ADE96P	117.3	1.5	0.4	123.0	0.8	0.5	108.3	0.0	1.4	389.3	0.8	0.7	57.3	0.1	0.2
		22.0	1.5		12.6	2.0		0.0	5.9		48.7	7.8		1.0	0.6
47FVHT	71.3	-1.6	0.4	66.0	-2.7	0.5	72.7	-2.9	0.9	177.7	-2.8	0.9	24.7	-2.9	0.6
		-24.0	1.5		-44.4	2.0		-35.7	4.0		-162.9	10.6		-31.7	1.5
96N7NM	96.7	0.1	0.1	116.0	0.3	0.5	106.3	-0.2	0.1	393.7	0.9	0.6	56.4	0.0	0.3
		1.4	0.4		5.6	2.0		-2.0	0.6		53.1	7.0		0.0	0.6
GQ3LL8	75.7	-1.3	0.4	82.7	-1.7	0.5	97.0	-0.9	0.5	260.3	-1.4	0.2	51.0	-0.5	0.4
		-19.7	1.5		-27.8	2.1		-11.3	2.0		-80.3	2.5		-5.4	1.0
EYHHD9	85.5	-0.7	0.8	98.0	-0.8	0.8	101.5	-0.6	0.8	321.7	-0.3	0.6	49.5	-0.6	0.5
		-9.8	2.6		-12.4	3.0		-6.8	3.3		-18.9	6.5		-6.9	1.1
PU98PV	93.0	-0.2	0.6	110.4	0.0	0.3	117.2	0.7	0.4	340.6	0.0	0.9	58.8	0.2	0.3
		-2.3	2.0		0.0	1.3		8.8	1.9		0.0	10.0		2.4	0.8
4DBTA3	84.0	-0.8		108.0	-0.1		116.0	0.6		347.0	0.1		108.0	4.8	
		-11.3	0.0		-2.4	0.0		7.7	0.0		6.4	0.0		51.6	0.0
999DPV	121.3	1.7	0.5	125.3	0.9	0.2	122.5	1.2	0.2	388.3	0.8	0.2	59.0	0.2	0.2
		25.9	1.9		14.9	0.6		14.2	1.0		47.7	2.3		2.6	0.4
VJ8PJ2	108.4	0.9	3.2	129.3	1.1	3.2	125.3	1.4	3.1	439.8	1.7	3.4	57.9	0.1	3.5
		13.1	11.0		18.9	12.3		17.0	13.2		99.2	38.7		1.5	8.6
Grand Median	95.3		110.4			108.3			340.6			56.4			
Median Abs Dev	8.0		9.6			6.8			21.4			2.6			
Avg Within Lab SD	3.4		3.9			4.3			11.4			2.4			
Labs Included	17		17			17			17			17			
Labs Reporting	17		17			17			17			17			



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

Mehlich-3, Fe (SubTestCode 166)															
in the Mehlich-3 Multi-Element Property Groups															
Data units: mg/kg															
	SRS1401			SRS1402			SRS1403			SRS1404			SRS1405		
NVRNBQ	200.8	0.2	1.1	282.6	1.0	0.5	154.5	0.2	0.7	160.3	0.6	0.5	143.6	0.3	0.4
		6.0	7.9		32.9	2.9		3.1	4.9		15.5	2.4		6.4	2.9
PGLRRN	187.7	-0.2	0.2	249.7	0.0	0.2	149.7	-0.1	0.6	147.0	0.1		120.0	-0.8	0.2
		-7.2	1.5		0.0	1.5		-1.7	4.5		2.3	0.0		-17.2	1.0
22R3Z9	186.3	-0.3	0.2	231.7	-0.5	0.6	146.3	-0.3	0.2	136.7	-0.3	0.1	131.3	-0.3	0.5
		-8.5	1.5		-18.0	3.8		-5.0	1.2		-8.1	0.6		-5.8	2.9
ARD6BU	212.0	0.5	0.1	271.7	0.7	0.2	155.7	0.3	0.2	160.3	0.6	0.1	150.0	0.6	0.2
		17.2	1.0		22.0	1.5		4.3	1.5		15.6	0.6		12.8	1.0
3PWDKZ	193.6	0.0	0.9	242.4	-0.2	0.7	148.8	-0.2	0.5	140.7	-0.2	0.2	140.0	0.1	0.9
		-1.3	6.4		-7.2	4.1		-2.5	3.8		-4.1	1.0		2.8	5.4
PDLGXA	206.3	0.4	0.3	241.0	-0.3	0.2	154.4	0.2	0.1	144.7	0.0	0.3	131.8	-0.2	0.8
		11.5	1.9		-8.6	1.0		3.1	0.4		0.0	1.6		-5.4	5.1
UGAKVW	189.3	-0.2	0.3	234.5	-0.5	0.3	141.4	-0.7	0.1	132.5	-0.5	0.2	120.4	-0.7	0.1
		-5.5	2.3		-15.2	2.1		-9.9	0.6		-12.2	1.1		-16.8	0.6
FKH4QJ	157.2	-1.2	1.0	205.6	-1.3	1.3	135.0	-1.1	0.4	118.4	-1.1	0.1	122.2	-0.7	0.7
		-37.6	7.2		-44.1	7.9		-16.4	2.7		-26.3	0.4		-14.9	4.7
ADE96P	235.0	1.3	1.1	283.7	1.0	1.6	163.0	0.8	0.7	174.7	1.2	0.7	161.0	1.1	0.3
		40.2	8.0		34.0	10.1		11.7	5.3		29.9	3.5		23.8	2.0
47FVHT	233.0	1.2	1.2	259.0	0.3	1.3	121.3	-2.0	1.0	134.7	-0.4	0.6	86.7	-2.2	0.9
		38.2	8.5		9.4	7.9		-30.0	7.4		-10.1	3.1		-50.5	5.5
96N7NM	193.6	0.0	0.4	262.7	0.4	0.3	153.0	0.1	0.1	152.3	0.3	0.4	140.3	0.1	0.1
		-1.2	2.6		13.0	2.1		1.7	1.0		7.6	2.1		3.2	0.6
GQ3LL8	193.7	0.0	0.4	234.7	-0.4	0.5	145.3	-0.4	0.4	133.7	-0.5	0.6	134.3	-0.1	0.2
		-1.2	2.5		-15.0	2.9		-6.0	3.1		-11.1	3.1		-2.8	1.5
EYHHD9	183.2	-0.4	0.7	235.0	-0.4	0.8	143.0	-0.6	0.5	133.0	-0.5	0.8	126.7	-0.5	0.4
		-11.6	5.2		-14.7	5.0		-8.3	4.0		-11.7	4.0		-10.5	2.5
PU98PV	186.6	-0.3	0.6	249.6	0.0	0.2	159.1	0.5	0.3	144.7	0.0	0.4	143.6	0.3	0.6
		-8.3	3.9		0.0	1.3		7.7	2.1		0.0	2.1		6.5	3.9
XBN6AL	336.0	4.4	2.6	353.7	3.1	1.7	183.3	2.1	3.2	261.7	4.8	1.7	203.0	2.9	2.0
		141.2	18.5		104.0	10.6		32.0	23.8		116.9	9.0		65.8	12.5
4DBTA3	196.0	0.0		241.0	-0.3		145.0	-0.4		138.0	-0.3		127.0	-0.5	
		1.2	0.0		-8.7	0.0		-6.3	0.0		-6.7	0.0		-10.2	0.0
999DPV	228.7	1.1	0.4	281.3	0.9	0.5	166.8	1.0	0.1	159.1	0.6	0.2	146.1	0.4	0.3
		33.9	3.0		31.7	3.2		15.4	0.5		14.4	1.2		8.9	1.8
VJ8PJ2	212.6	0.6	1.9	281.0	0.9	2.6	169.7	1.2	2.2	150.7	0.2	3.6	146.7	0.4	3.2
		17.8	13.5		31.3	16.4		18.4	16.6		5.9	18.7		9.6	20.3



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	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		
Grand Median	194.8			249.7			151.3			144.7			137.2		
Median Abs Dev	10.0			15.1			7.0			10.6			9.9		
Avg Within Lab SD	7.1			6.3			7.5			5.3			6.4		
Labs Included	18			18			18			18			18		
Labs Reporting	18			18			18			18			18		



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

Mehlich-3, Cu (SubTestCode 167)			in the Mehlich-3 Multi-Element Property Groups												Data units: mg/kg	
SRS1401			SRS1402			SRS1403			SRS1404			SRS1405				
NVRNBQ	1.47	-0.54	0.50	0.67	-0.19	1.25	1.17	0.23	0.91	1.10	0.49	1.76	11.53	0.50	0.93	
		-0.13	0.06		-0.03	0.06		0.04	0.06		0.11	0.10		0.77	0.49	
PGLRRN	1.67	0.29	0.38	1.25	3.16	2.38	1.28	0.85	0.51	1.58	2.71	0.30	8.61	-1.42	0.15	
		0.07	0.04		0.55	0.11		0.15	0.03		0.59	0.02		-2.16	0.08	
22R3Z9	1.50	-0.40	0.87	0.60	-0.57	0.00	1.03	-0.53	0.91	1.00	0.02		11.10	0.22	0.68	
		-0.10	0.10		-0.10	0.00		-0.09	0.06		0.01	0.00		0.33	0.36	
QDJ96F	1.40	-0.81	0.00	0.70	0.00	0.00	1.10	-0.15	0.00	1.07	0.33	1.02	10.10	-0.44	1.31	
		-0.20	0.00		0.00	0.00		-0.03	0.00		0.07	0.06		-0.67	0.70	
ARD6BU	1.57	-0.13	0.50	0.76	0.32	0.12	1.12	-0.04	0.31	0.99	-0.04	0.41	10.77	0.00	0.43	
		-0.03	0.06		0.06	0.01		-0.01	0.02		-0.01	0.02		0.00	0.23	
3PWDKZ	1.52	-0.34	0.51	0.75	0.29	0.75	1.08	-0.25	0.48	0.99	-0.02	0.93	9.66	-0.73	1.10	
		-0.08	0.06		0.05	0.03		-0.04	0.03		-0.01	0.05		-1.11	0.59	
PDLGXA	1.84	0.99	0.15	0.70	0.02	0.25	1.14	0.09	0.24	1.15	0.72	0.30	10.95	0.12	0.35	
		0.24	0.02		0.00	0.01		0.02	0.02		0.16	0.02		0.18	0.19	
UGAKVW	1.42	-0.72	0.89	0.70	0.02	1.96	0.97	-0.89	0.16	0.96	-0.18	0.10	8.82	-1.28	0.06	
		-0.18	0.10		0.00	0.09		-0.16	0.01		-0.04	0.01		-1.95	0.03	
FKH4QJ	1.25	-1.43		0.47	-1.29	1.02	0.94	-1.06	1.40	0.91	-0.38	0.90	10.77	0.00	1.16	
		-0.35	0.00		-0.23	0.05		-0.19	0.09		-0.08	0.05		0.00	0.62	
ADE96P	1.87	1.10	0.50	0.60	-0.57	0.00	1.20	0.42	0.00	1.00	0.02		11.37	0.39	0.11	
		0.27	0.06		-0.10	0.00		0.07	0.00		0.01	0.00		0.60	0.06	
47FVHT	1.63	0.13	0.52	0.78	0.44	1.41	0.98	-0.83	1.23	0.80	-0.90	0.47	6.24	-2.98	0.70	
		0.03	0.06		0.08	0.07		-0.15	0.08		-0.20	0.03		-4.53	0.37	
96N7NM	1.68	0.35	0.05	1.14	2.49	0.25	1.31	1.06	0.78	1.49	2.31	0.27	11.08	0.21	0.10	
		0.09	0.01		0.44	0.01		0.19	0.05		0.50	0.02		0.31	0.05	
GQ3LL8	1.54	-0.25	0.13	0.69	-0.04	0.33	1.17	0.26	0.64	0.98	-0.05	1.00	11.07	0.20	0.43	
		-0.06	0.02		-0.01	0.02		0.05	0.04		-0.01	0.06		0.30	0.23	
EYHHD9	1.14	-1.88	0.52	0.48	-1.28	0.41	0.92	-1.19	1.27	0.82	-0.83	0.72	9.56	-0.80	0.44	
		-0.46	0.06		-0.23	0.02		-0.21	0.08		-0.18	0.04		-1.21	0.23	
PU98PV	1.63	0.14	3.62	0.60	-0.57	0.00	1.13	0.04	0.91	0.93	-0.29	2.03	11.40	0.42	1.23	
		0.04	0.42		-0.10	0.00		0.01	0.06		-0.06	0.12		0.63	0.66	
XBN6AL	1.68	0.35	0.87	0.53	-0.98	0.03	0.81	-1.78	1.78	0.86	-0.61	0.51	9.02	-1.15	0.81	
		0.09	0.10		-0.17	0.00		-0.31	0.11		-0.13	0.03		-1.75	0.43	
6W8FD7	1.80	0.82	0.26	0.59	-0.61	0.26	0.85	-1.58	0.37	0.81	-0.85	0.07	9.39	-0.91	0.28	
		0.20	0.03		-0.11	0.01		-0.28	0.02		-0.18	0.00		-1.38	0.15	
4DBTA3	1.20	-1.64		0.70	0.00		1.20	0.42		1.10	0.49		10.70	-0.04		
		-0.40	0.00		0.00	0.00		0.07	0.00		0.11	0.00		-0.07	0.00	
999DPV	1.78	0.74	0.68	0.71	0.08	0.36	1.18	0.29	0.14	1.21	1.00	0.65	12.27	0.99	0.14	
		0.18	0.08		0.01	0.02		0.05	0.01		0.22	0.04		1.50	0.07	
VJ8PJ2	1.70	0.42	1.51	0.80	0.57	2.16	1.40	1.55	2.73	1.27	1.26	2.69	11.83	0.70	3.30	
		0.10	0.17		0.10	0.10		0.27	0.17		0.27	0.15		1.07	1.76	



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	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		
Grand Median		1.60			0.70			1.13			1.00			10.8	
Median Abs Dev		0.12			0.09			0.08			0.11			0.7	
Avg Within Lab SD		0.11			0.05			0.06			0.06			0.5	
Labs Included		20			20			20			20			20	
Labs Reporting		20			20			20			20			20	



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

Mehlich-3, B (SubTestCode 168)			in the Mehlich-3 Multi-Element Property Groups										Data units: mg/kg		
	SRS1401		SRS1402			SRS1403			SRS1404			SRS1405			
NVRNBQ	0.83	-0.11	0.71	0.73	0.18	0.94	0.60	0.03	0.00	0.40	0.09	0.00	0.43	0.00	1.11
		-0.03	0.06		0.05	0.06		0.01	0.00		0.02	0.00		0.00	0.06
PGLRRN	0.89	0.08	0.07	0.85	0.60	0.49	0.69	0.39	0.47	0.45	0.28	0.39	0.50	0.35	0.29
		0.02	0.01		0.17	0.03		0.10	0.02		0.07	0.02		0.07	0.02
22R3Z9	0.37	-1.79	2.83	0.10	-2.06	0.00	0.10	-1.90	0.00	0.10	-1.07	0.00	0.23	-1.01	2.94
		-0.50	0.23		-0.58	0.00		-0.49	0.00		-0.28	0.00		-0.20	0.15
ARD6BU	0.86	0.00	0.35	0.81	0.45	0.57	0.76	0.66	1.04	0.71	1.28	0.97	0.82	1.97	1.06
		0.00	0.03		0.13	0.03		0.17	0.05		0.33	0.04		0.39	0.06
3PWDKZ	0.74	-0.46	0.14	0.65	-0.10	0.19	0.55	-0.16	0.45	0.38	0.00	0.13	0.43	0.00	0.22
		-0.13	0.01		-0.03	0.01		-0.04	0.02		0.00	0.01		0.00	0.01
PDLGXA	1.32	1.65	0.89	1.32	2.26	1.30	0.81	0.84	1.56	0.60	0.85	0.64	0.66	1.16	0.68
		0.46	0.07		0.64	0.08		0.22	0.07		0.22	0.03		0.23	0.04
UGAKVW	0.64	-0.80	0.00	0.56	-0.44	0.09	0.42	-0.65	0.13	0.31	-0.26	0.00	0.31	-0.61	0.11
		-0.22	0.00		-0.13	0.01		-0.17	0.01		-0.07	0.00		-0.12	0.01
FKH4QJ	1.01	0.52	0.19	0.71	0.10	1.50	0.77	0.69	0.59	0.38	0.00	1.45	0.50	0.34	0.38
		0.14	0.02		0.03	0.09		0.18	0.03		0.00	0.07		0.07	0.02
ADE96P	0.80	-0.23	1.23	0.47	-0.76	0.94	0.40	-0.74	0.00	0.20	-0.68	0.00	0.37	-0.34	1.11
		-0.06	0.10		-0.22	0.06		-0.19	0.00		-0.18	0.00		-0.07	0.06
47FVHT	0.50	-1.31	0.49	0.61	-0.25	1.45	0.21	-1.48	0.67	0.09	-1.09	0.34	0.13	-1.55	0.40
		-0.36	0.04		-0.07	0.09		-0.38	0.03		-0.28	0.02		-0.31	0.02
96N7NM	0.74	-0.43	0.19	0.57	-0.38	0.34	0.49	-0.39	0.78	0.18	-0.76	0.22	0.35	-0.42	0.51
		-0.12	0.02		-0.11	0.02		-0.10	0.03		-0.20	0.01		-0.08	0.03
EHV3AC	0.13	-2.64	0.32												
		-0.73	0.03												
EYHHD9	0.90	0.14	0.19	0.91	0.80	0.34	0.68	0.33	0.36	0.49	0.43	0.23	0.53	0.50	0.18
		0.04	0.02		0.23	0.02		0.09	0.02		0.11	0.01		0.10	0.01
PU98PV	1.13	0.97	1.88	1.03	1.24	2.50	0.87	1.06	1.30	0.77	1.50	3.41	0.73	1.52	1.11
		0.27	0.15		0.35	0.15		0.28	0.06		0.39	0.15		0.30	0.06
XBN6AL	0.91	0.16	1.24	0.49	-0.68	0.20	0.33	-1.00	2.97	0.14	-0.91	0.73	0.27	-0.85	0.31
		0.05	0.10		-0.19	0.01		-0.26	0.13		-0.24	0.03		-0.17	0.02
999DPV	0.91	0.17	0.14	0.63	-0.18	0.38	0.58	-0.03	0.13	0.29	-0.34	0.09	0.40	-0.17	0.07
		0.05	0.01		-0.05	0.02		-0.01	0.01		-0.09	0.00		-0.03	0.00
VJ8PJ2	0.87	0.01	0.71	0.77	0.30	0.94	0.70	0.42	0.00	0.70	1.25	0.00	0.43	0.00	1.11
		0.00	0.06		0.09	0.06		0.11	0.00		0.32	0.00		0.00	0.06
Grand Median		0.86		0.68			0.59			0.38			0.43		
Median Abs Dev		0.12		0.13			0.17			0.19			0.09		
Avg Within Lab SD		0.08		0.06			0.04			0.04			0.05		
Labs Included		17		16			16			16			16		
Labs Reporting		17		16			16			16			16		



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

Zn - DTPA (SubTestCode 169) in the Micronutrients Property Groups															
	SRS1401			SRS1402			SRS1403			SRS1404			SRS1405		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
XQ6Y6J	2.37	-0.11	0.95	1.05	0.20	0.87	0.63	0.81	0.83	0.57	-0.01	0.46	38.84	1.46	1.00
		-0.07	0.11		0.05	0.06		0.13	0.04		0.00	0.08		10.20	1.13
MBLU4T	2.44	-0.01	0.20	0.90	-0.38	0.52	0.39	-0.67	0.26	0.45	-0.43	0.12	25.30	-0.48	0.39
		-0.01	0.02		-0.10	0.04		-0.11	0.01		-0.13	0.02		-3.33	0.44
NVRNBQ	2.37	-0.12	0.63	1.05	0.20	1.55	0.40	-0.60	0.47	0.60	0.08	0.21	19.93	-1.24	1.30
		-0.08	0.07		0.05	0.10		-0.10	0.02		0.02	0.03		-8.70	1.46
X8RE9F	2.61	0.25	0.05	1.14	0.57	1.51	0.57	0.41	0.40	0.72	0.49	0.12	34.50	0.84	0.87
		0.16	0.01		0.14	0.10		0.07	0.02		0.15	0.02		5.87	0.98
MM2LUN	3.55	1.69	2.27	1.46	1.84	1.94	0.73	1.46	0.46	0.79	0.71	0.20	32.81	0.60	0.93
		1.11	0.27		0.46	0.13		0.23	0.02		0.21	0.03		4.18	1.05
XNEVBC	2.51	0.10	0.07	0.81	-0.74	0.25	0.39	-0.68	0.11	0.58	0.00	0.08	21.21	-1.06	0.12
		0.06	0.01		-0.19	0.02		-0.11	0.01		0.00	0.01		-7.42	0.14
KKY4HM	2.68	0.37	1.24	1.04	0.15	0.59	0.51	0.06	0.44	0.61	0.13	1.28	26.19	-0.35	1.55
		0.24	0.15		0.04	0.04		0.01	0.02		0.04	0.21		-2.45	1.75
LEBJDL	2.13	-0.47	0.49	0.97	-0.13	0.86	0.47	-0.21	1.31	0.50	-0.25	0.21	31.33	0.39	1.16
		-0.31	0.06		-0.03	0.06		-0.03	0.06		-0.08	0.00		2.70	1.31
VFBYEB	1.55	-1.35	0.38	0.68	-1.26	0.17	0.57	0.46	0.47	0.46	-0.40	0.03	23.21	-0.78	0.23
		-0.89	0.05		-0.32	0.01		0.07	0.02		-0.12	0.01		-5.42	0.26
82U34V	2.57	0.19	0.78	1.01	0.04	1.28	0.45	-0.31	0.00	0.80	0.74	0.09	27.18	-0.21	0.73
		0.13	0.09		0.01	0.09		-0.05	0.00		0.22	0.02		-1.45	0.82
ETYBXN	2.13	-0.47	0.49	0.93	-0.26	0.86	0.50	0.00	2.28	0.47	-0.36	0.35	25.33	-0.47	0.14
		-0.31	0.06		-0.07	0.06		0.00	0.10		-0.11	0.06		-3.30	0.15
FC666L	2.73	0.44	0.49	1.00	0.00	0.00	0.43	-0.42	1.31	0.50	-0.25	0.00	29.27	0.09	0.95
		0.29	0.06		0.00	0.00		-0.07	0.06		-0.08	0.00		0.63	1.07
PN6V2C	2.19	-0.38	0.10	1.28	1.12	0.43	0.64	0.87	0.23	0.61	0.12	0.10	32.67	0.58	0.51
		-0.25	0.01		0.28	0.03		0.14	0.01		0.03	0.02		4.03	0.58
8JTXZT	2.57	0.19	0.98	1.00	0.00	1.48	0.50	0.00	2.28	0.53	-0.14	0.69	26.17	-0.35	0.69
		0.12	0.12		0.00	0.10		0.00	0.10		-0.04	0.12		-2.47	0.78
6P9R3T	2.87	0.64	2.17	1.32	1.28	0.60	0.61	0.69	0.23	0.68	0.36	0.09	32.60	0.57	1.14
		0.42	0.26		0.32	0.04		0.11	0.01		0.11	0.02		3.97	1.29
T3CD22	2.50	0.09	0.38	0.91	-0.36	0.15	0.60	0.62	0.00	0.60	0.08	0.06	33.10	0.64	0.32
		0.06	0.05		-0.09	0.01		0.10	0.00		0.02	0.01		4.47	0.36
3AXLEP	3.04	0.91	1.35	1.15	0.59	0.51	0.58	0.52	0.26	0.65	0.24	0.07	28.63	0.00	0.29
		0.60	0.16		0.15	0.03		0.08	0.01		0.07	0.01		0.00	0.32
GRVM9A	1.77	-1.03	0.49	0.90	-0.40	1.48	0.40	-0.62	0.00	0.43	-0.48	0.35	31.20	0.37	1.13
		-0.68	0.06		-0.10	0.10		-0.10	0.00		-0.14	0.06		2.57	1.28
UGAKVW	1.85	-0.91	0.32	0.73	-1.06	0.17	0.39	-0.69	0.00	0.58	0.02	0.06	15.23	-1.92	0.17
		-0.60	0.04		-0.27	0.01		-0.11	0.00		0.00	0.01		-13.40	0.20
47FVHT	2.39	-0.08	0.30	0.79	-0.82	0.17	0.35	-0.94	0.46	0.40	-0.59	0.30	19.58	-1.29	1.05
		-0.05	0.04		-0.21	0.01		-0.15	0.02		-0.18	0.05		-9.05	1.18



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	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference		W/L STD	Difference		W/L STD	Difference		W/L STD	Difference		W/L STD	Difference		W/L STD
VFA93Z	1.89	-0.84	0.71	0.92	-0.33	0.76	0.50	0.00	1.20	0.57	-0.03	0.19	29.50	0.12	0.67
FHRYXC	2.90	-0.55	0.08	1.16	-0.08	0.05	0.54	0.00	0.05	0.73	-0.01	0.03	29.11	0.87	0.75
TYT44W	2.45	0.70	0.38	1.28	0.63	0.39	0.73	0.23	0.35	0.70	0.52	0.22	40.08	0.07	0.04
GQ3LL8	1.53	0.46	0.05	0.86	0.16	0.03	0.44	0.04	0.02	0.39	0.15	0.04	22.95	0.48	0.05
PU98PV	2.44	0.01	0.38	1.16	1.11	1.85	0.69	1.43	0.32	0.73	0.41	0.34	29.83	1.64	1.91
MADJ8P	2.71	0.01	0.04	0.93	0.28	0.12	0.44	0.23	0.01	0.42	0.12	0.06	24.38	11.45	2.15
6W8FD7	3.62	-1.39	0.30	1.15	-0.57	0.96	0.55	-0.40	0.35	0.32	-0.61	0.09	20.47	-0.81	0.20
TMGXVF	1.93	-0.92	0.04	1.17	-0.14	0.07	0.53	-0.06	0.02	0.40	-0.18	0.02	19.40	-5.68	0.23
QWWVMG	3.20	0.00	1.28	1.20	0.65	1.83	0.80	1.21	0.66	0.80	0.51	0.34	35.30	0.17	1.07
839E2Z	2.34	0.00	0.15	0.81	0.16	0.12	0.38	0.19	0.03	0.42	0.15	0.06	26.07	1.20	1.20
HZKKTN	1.60	0.41	0.44	0.59	-0.28	0.30	0.32	-0.40	0.26	0.32	9.80	5.56	15.00	-0.41	0.11
99PAHV	1.11	0.27	0.05	0.59	-0.07	0.02	0.06	-0.06	0.01	0.09	2.92	0.93	20.47	-2.84	0.12
YLNT44	1.50	1.79	0.08	0.70	0.59	0.19	0.40	0.31	0.54	0.40	0.18	0.20	35.30	0.15	0.66
4X72UR	3.59	1.18	0.01	1.27	0.15	0.01	0.65	0.05	0.02	0.89	0.05	0.03	26.07	1.05	0.74
PZEKPF	2.53	-0.77	1.30	0.91	0.66	0.86	0.45	0.21	1.31	0.54	-0.14	0.35	26.07	0.06	3.16
		-0.51	0.15	0.91	0.17	0.06	0.45	0.03	0.06	0.54	-0.04	0.06	26.07	0.40	3.56
		1.15		1.20	0.79		0.80	1.87		0.80	0.75		29.60	0.14	
		0.76	0.00	1.20	0.20	0.00	0.80	0.30	0.00	0.80	0.22	0.00	29.60	0.97	0.00
		-0.16	0.59	0.81	-0.76	0.37	0.38	-0.77	0.28	0.42	-0.51	0.07	24.38	-0.61	0.31
		-0.11	0.07	0.81	-0.19	0.02	0.38	-0.12	0.01	0.42	-0.15	0.01	24.38	-4.25	0.35
		-1.28	0.85	0.59	-1.63	1.12	0.32	-1.14	0.35	0.32	-0.87	0.30	15.00	-1.95	0.89
		-0.84	0.10	0.59	-0.41	0.08	0.32	-0.18	0.02	0.32	-0.26	0.05	15.00	-13.63	1.00
		-2.02	0.70	0.59	-1.61	1.06	0.06	-2.76	0.17	0.09	-1.63	0.02	20.47	-1.17	0.11
		-1.33	0.08	0.59	-0.41	0.07	0.06	-0.44	0.01	0.09	-0.48	0.00	20.47	-8.16	0.12
		-1.43		0.70	-1.19	0.00	0.40	-0.62	0.00	0.40	-0.59	0.00	19.40	-1.32	0.09
		-0.94	0.00	0.70	-0.30	0.00	0.40	-0.10	0.00	0.40	-0.18	0.00	19.40	-9.23	0.10
		1.74	3.38	1.27	1.06	2.19	0.65	0.94	3.78	0.89	1.07	0.78	35.30	0.95	1.92
		1.14	0.40	1.27	0.27	0.15	0.65	0.15	0.17	0.89	0.32	0.13	35.30	6.67	2.17
		0.13	0.26	0.91	-0.36	0.39	0.45	-0.29	0.47	0.54	-0.12	0.12	26.07	-0.37	0.53
		0.08	0.03	0.91	-0.09	0.03	0.45	-0.05	0.02	0.54	-0.04	0.02	26.07	-2.57	0.60
Grand Median		2.44			1.00			0.50			0.58			28.6	
Median Abs Dev		0.31			0.15			0.10			0.12			4.0	
Avg Within Lab SD		0.12			0.07			0.04			0.17			1.1	
Labs Included		35			35			35			35			35	
Labs Reporting		35			35			35			35			35	



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

Mn - DTPA (SubTestCode 170)	in the Micronutrients Property Groups															Data units: mg/kg
	SRS1401			SRS1402			SRS1403			SRS1404			SRS1405			
MBLU4T	3.5	-0.4	0.6	28.1	-0.4	0.2	33.5	-0.6	0.3	19.5	-0.5	0.1	13.0	-0.6	0.3	
		-2.4	0.5		-4.9	0.4		-7.6	0.6		-9.5	0.4		-2.6	0.3	
X8RE9F	12.4	0.9	0.8	43.7	0.9	0.8	51.5	0.8	2.4	44.1	0.9	0.2	19.5	0.8	0.9	
		6.5	0.8		10.7	2.0		10.3	4.9		15.0	0.8		3.9	0.9	
MM2LUN	12.7	1.0	1.1	35.0	0.2	0.2	60.0	1.4	0.9	31.4	0.1	0.6	16.3	0.1	0.3	
		6.8	1.0		2.0	0.6		18.8	1.8		2.4	2.3		0.7	0.3	
XNEVBC	4.2	-0.2	0.3	19.2	-1.1	0.1	29.9	-0.8	0.1	19.0	-0.6	0.1	9.8	-1.2	0.1	
		-1.7	0.2		-13.9	0.2		-11.2	0.3		-10.1	0.5		-5.8	0.1	
KKY4HM	3.3	-0.4	0.6	26.8	-0.5	1.0	37.0	-0.3	0.1	15.9	-0.8	0.5	13.1	-0.5	0.6	
		-2.7	0.6		-6.3	2.6		-4.1	0.2		-13.1	1.9		-2.6	0.6	
LEBJDL	4.5	-0.2	0.2	28.9	-0.3	1.1	48.8	0.6	0.3	25.4	-0.2	0.2	14.0	-0.4	0.6	
		-1.4	0.2		-4.2	2.8		7.7	0.6		-3.7	0.9		-1.6	0.6	
VFBYEB	2.5	-0.5	0.4	21.6	-0.9	0.2	30.7	-0.8	0.4	17.2	-0.7	0.1	14.0	-0.4	0.1	
		-3.5	0.4		-11.5	0.6		-10.4	0.8		-11.9	0.3		-1.7	0.1	
82U34V	4.2	-0.3	0.2	31.6	-0.1	0.3	35.3	-0.4	0.3	30.9	0.1	0.3	15.5	0.0	0.2	
		-1.8	0.2		-1.5	0.8		-5.9	0.5		1.9	1.1		-0.1	0.2	
ETYBXN	2.2	-0.5	0.1	23.7	-0.8	0.2	30.0	-0.8	0.5	15.3	-0.8	0.1	14.0	-0.4		
		-3.7	0.1		-9.4	0.6		-11.2	1.0		-13.7	0.6		-1.6	0.0	
FC666L	5.0	-0.1		28.0	-0.4	1.5	41.0	0.0		24.3	-0.3	0.5	14.7	-0.2	1.6	
		-0.9	0.0		-5.1	3.6		-0.2	0.0		-4.7	2.1		-1.0	1.5	
PN6V2C	4.3	-0.2	0.2	34.3	0.1	0.2	50.7	0.7	0.3	25.7	-0.2	0.3	17.7	0.4	0.6	
		-1.6	0.2		1.3	0.6		9.5	0.6		-3.4	1.2		2.0	0.6	
8JTXZT	8.4	0.4	1.1	34.0	0.1	0.6	39.0	-0.2	0.3	28.6	0.0	0.6	15.8	0.0	1.1	
		2.5	1.1		1.0	1.6		-2.1	0.6		-0.5	2.5		0.1	1.0	
6P9R3T	12.5	1.0	0.9	51.2	1.5	0.9	53.5	0.9	0.6	55.0	1.5	0.8	22.3	1.4	0.8	
		6.6	0.8		18.1	2.3		12.4	1.3		26.0	3.1		6.7	0.8	
T3CD22	5.9	0.0	0.0	35.3	0.2	0.2	32.3	-0.6	0.4	32.1	0.2	0.3	22.6	1.5	0.5	
		0.0	0.0		2.3	0.6		-8.8	0.8		3.1	1.0		7.0	0.5	
3AXLEP	10.0	0.6	0.6	44.0	0.9	1.9	42.0	0.1	1.3	39.7	0.6	0.9	20.3	1.0	0.6	
		4.1	0.6		10.9	4.6		0.9	2.6		10.6	3.5		4.7	0.6	
GRVM9A	2.5	-0.5	0.1	33.8	0.1	0.4	44.0	0.2	1.0	26.9	-0.1	0.2	14.8	-0.2	0.8	
		-3.4	0.1		0.7	1.0		2.8	2.1		-2.2	0.8		-0.8	0.8	
47FVHT	8.0	0.3	0.5	26.2	-0.6	0.8	26.0	-1.1	0.9	23.0	-0.4	0.5	11.6	-0.9	0.7	
		2.1	0.5		-6.8	2.1		-15.1	1.9		-6.1	1.8		-4.0	0.7	
FHRYXC	15.3	1.4	0.2	50.3	1.4	0.6	46.4	0.4	0.7	48.3	1.1	0.7	20.5	1.0	1.5	
		9.4	0.2		17.3	1.4		5.2	1.4		19.3	2.6		4.8	1.4	
TYT44W	15.3	1.4	1.6	50.4	1.4	2.1	64.0	1.7	2.0	58.1	1.7	0.7	22.9	1.6	1.0	
		9.4	1.5		17.4	5.3		22.9	4.2		29.0	2.9		7.3	1.0	
6W8FD7	16.5	1.5	0.3	37.1	0.3	0.1	46.0	0.4	0.1	38.8	0.6	0.1	16.3	0.1	0.4	
		10.5	0.3		4.0	0.3		4.8	0.3		9.7	0.5		0.6	0.4	



ALP Program - Participant Web Summary Report - Cycle 23

	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		
TMGXVF	5.9	0.0	0.9	31.1	-0.2	2.5	41.3	0.0	0.5	29.5	0.0	1.1	15.2	-0.1	2.9
		0.0	0.9		-2.0	6.1		0.2	1.0		0.5	4.2		-0.4	2.8
HZKKTN	2.7	-0.5	0.1	17.3	-1.3	0.6	21.7	-1.4	0.6	13.0	-0.9	0.3	8.8	-1.5	0.1
		-3.2	0.1		-15.7	1.5		-19.5	1.2		-16.1	1.0		-6.9	0.1
99PAHV	5.8	0.0	0.1	23.1	-0.8	0.1	18.6	-1.6	0.1	19.9	-0.5	0.1	14.1	-0.3	0.2
		-0.1	0.1		-9.9	0.2		-22.6	0.2		-9.1	0.2		-1.5	0.2
YLNT44	6.0	0.0		32.3	-0.1	0.2	48.0	0.5		33.0	0.2	0.3	18.3	0.6	0.6
		0.1	0.0		-0.7	0.6		6.9	0.0		4.0	1.0		2.7	0.6
4X72UR	38.2	4.7	4.1	71.2	3.1	1.8	59.4	1.3	3.1	103.1	4.3	4.5	24.7	2.0	2.1
		32.3	3.8		38.2	4.4		18.2	6.4		74.1	17.3		9.1	2.0
PZEKPF	9.3	0.5	0.5	34.3	0.1	0.2	39.2	-0.1	0.4	33.8	0.3	0.1	17.1	0.3	0.8
		3.4	0.4		1.2	0.5		-1.9	0.9		4.7	0.3		1.5	0.8
Grand Median		5.92			33.1			41.2			29.1			15.6	
Median Abs Dev		2.93			5.7			8.2			9.3			2.3	
Avg Within Lab SD		0.94			2.5			2.1			3.9			0.9	
Labs Included		26			26			26			26			26	
Labs Reporting		26			26			26			26			26	



ALP Program - Participant Web Summary Report - Cycle 23

Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

Fe - DTPA (SubTestCode 171)															
in the Micronutrients Property Groups															
Data units: mg/kg															
	SRS1401			SRS1402			SRS1403			SRS1404			SRS1405		
XQ6Y6J	31.7	-0.2	0.7	70.7	-0.3	0.6	61.9	0.2	1.2	16.7	-0.2	1.2	22.9	-0.2	0.2
		-2.1	1.5		-6.9	3.5		3.6	3.1		-2.0	1.5		-1.3	0.8
MBLU4T	26.3	-0.6	0.3	77.7	0.0	0.1	40.0	-1.1	0.4	15.7	-0.4	0.4	18.0	-0.9	
		-7.4	0.6		0.0	0.6		-18.3	1.0		-3.0	0.6		-6.2	0.0
X8RE9F	35.9	0.2	0.8	82.9	0.2	0.1	73.9	0.9	0.1	28.3	1.1	0.5	26.2	0.3	0.9
		2.2	1.9		5.2	0.6		15.6	0.3		9.6	0.6		2.0	3.0
MM2LUN	59.1	2.0	2.3	145.2	2.6	0.2	84.9	1.6	1.0	37.5	2.2	2.1	32.6	1.2	0.9
		25.4	5.2		67.5	1.3		26.6	2.5		18.8	2.8		8.4	2.8
XNEVBC	49.2	1.2	0.4	88.3	0.4	0.2	63.1	0.3	0.4	24.9	0.7	0.8	24.2	0.0	0.0
		15.5	0.9		10.6	1.1		4.8	0.9		6.2	1.1		0.0	0.2
KKY4HM	32.0	-0.1	0.3	114.8	1.5	1.7	64.6	0.4	2.8	13.8	-0.6	0.5	20.6	-0.5	1.3
		-1.7	0.6		37.1	9.9		6.2	7.2		-4.9	0.7		-3.6	4.4
LEBJDL	29.7	-0.3	0.2	77.7	0.0	0.1	62.5	0.2	0.6	21.4	0.3	0.6	20.6	-0.5	0.2
		-4.1	0.4		0.0	0.6		4.2	1.6		2.7	0.8		-3.6	0.5
VFBYEB	19.2	-1.1	0.1	45.8	-1.2	0.1	41.1	-1.0	0.3	13.9	-0.6	0.3	14.3	-1.4	0.1
		-14.5	0.3		-31.9	0.5		-17.2	0.7		-4.8	0.3		-9.9	0.4
82U34V	25.3	-0.7	1.0	73.3	-0.2	0.9	58.0	0.0	1.1	14.8	-0.5	1.1	27.2	0.4	0.2
		-8.5	2.2		-4.4	5.2		-0.4	2.9		-3.9	1.4		3.0	0.7
ETYBXN	20.0	-1.1		126.7	1.9	0.3	32.3	-1.5	0.2	11.7	-0.8	0.4	42.0	2.6	
		-13.8	0.0		49.0	1.5		-26.0	0.6		-7.0	0.6		17.8	0.0
FC666L	33.7	0.0	0.3	64.0	-0.5	0.2	52.0	-0.4	0.4	18.3	0.0	0.4	21.7	-0.4	0.4
		-0.1	0.6		-13.7	1.0		-6.3	1.0		-0.4	0.6		-2.5	1.2
PN6V2C	35.7	0.1	0.3	112.7	1.4	0.5	68.7	0.6	0.6	19.3	0.1	0.4	24.9	0.1	0.1
		1.9	0.6		35.0	3.1		10.3	1.5		0.6	0.6		0.7	0.2
8JTXZT	34.5	0.1	1.5	79.6	0.1	2.7	49.4	-0.5	1.0	18.7	0.0	0.6	32.1	1.1	4.0
		0.7	3.4		2.0	15.1		-9.0	2.6		0.0	0.8		7.9	12.9
6P9R3T	43.6	0.8	1.6	89.7	0.5	1.1	71.0	0.7	1.2	34.1	1.8	1.8	26.3	0.3	0.4
		9.8	3.6		12.0	6.2		12.7	3.1		15.4	2.3		2.1	1.2
T3CD22	33.8	0.0	0.1	58.8	-0.7	0.0	41.8	-1.0	0.4	18.0	-0.1	0.1	17.9	-0.9	0.1
		0.0	0.3		-18.9	0.2		-16.5	1.0		-0.7	0.2		-6.3	0.2
3AXLEP	38.3	0.4	0.7	95.3	0.7	0.9	58.3	0.0	2.2	25.0	0.7	1.3	25.7	0.2	0.2
		4.6	1.5		17.7	4.9		0.0	5.7		6.3	1.7		1.5	0.6
GRVM9A	20.6	-1.0	0.1	66.9	-0.4	0.7	50.0	-0.5	0.5	16.2	-0.3	0.6	22.2	-0.3	0.3
		-13.2	0.3		-10.8	4.0		-8.4	1.4		-2.5	0.8		-2.0	1.0
47FVHT	38.7	0.4	1.1	64.3	-0.5	1.4	41.3	-1.0	1.2	16.8	-0.2	0.2	16.3	-1.1	0.1
		4.9	2.5		-13.3	7.8		-17.0	3.1		-1.9	0.2		-7.9	0.3
FHRYXC	36.0	0.2	0.4	71.8	-0.2	0.3	56.8	-0.1	0.4	23.4	0.5	0.5	25.5	0.2	0.2
		2.2	0.9		-5.9	1.6		-1.6	1.0		4.7	0.7		1.3	0.7
TYT44W	34.6	0.1	0.7	90.2	0.5	0.5	77.8	1.1	1.5	29.5	1.3	1.0	31.9	1.1	1.0
		0.8	1.6		12.5	2.9		19.5	3.9		10.8	1.3		7.7	3.1



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	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD
6W8FD7	63.2	2.3	0.2	98.1	0.8	0.1	72.5	0.8	0.3	30.0	1.3	0.2	25.8	0.2	0.1
		29.5	0.3		20.4	0.5		14.1	0.9		11.3	0.2		1.6	0.3
TMGXVF	23.5	-0.8	0.5	71.2	-0.3	1.4	55.3	-0.2	0.9	17.5	-0.1	0.7	22.2	-0.3	0.3
		-10.3	1.2		-6.5	7.9		-3.0	2.3		-1.2	1.0		-2.0	1.0
HZKKTN	19.7	-1.1	0.3	46.7	-1.2	0.8	27.7	-1.8	0.8	8.6	-1.2	0.5	18.0	-0.9	2.2
		-14.1	0.6		-31.0	4.5		-30.7	2.1		-10.1	0.7		-6.2	7.2
99PAHV	17.7	-1.3	0.1	68.8	-0.3	0.9	27.1	-1.8	0.1	12.7	-0.7	0.1	17.4	-1.0	0.0
		-16.1	0.2		-8.9	4.8		-31.3	0.3		-6.0	0.1		-6.8	0.1
YLNT44	23.0	-0.8		63.0	-0.6	0.2	61.3	0.2	0.2	19.3	0.1	0.4	26.0	0.3	0.3
		-10.8	0.0		-14.7	1.0		3.0	0.6		0.6	0.6		1.8	1.0
4X72UR	50.0	1.3	3.3	105.2	1.1	2.7	62.9	0.3	0.4	36.1	2.0	3.1	33.3	1.3	1.1
		16.2	7.5		27.6	15.2		4.6	0.9		17.4	3.9		9.1	3.5
PZEKPF	36.0	0.2	0.4	76.6	0.0	0.2	58.6	0.0	0.6	21.9	0.4	0.0	20.7	-0.5	0.1
		2.2	1.0		-1.1	1.2		0.2	1.4		3.2	0.0		-3.5	0.4
Grand Median		33.8			77.7			58.3			18.7			24.2	
Median Abs Dev		7.4			12.5			9.0			4.7			3.5	
Avg Within Lab SD		2.2			5.7			2.5			1.3			3.3	
Labs Included		27			27			27			27			27	
Labs Reporting		27			27			27			27			27	



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

Cu - DTPA (SubTestCode 172)	in the Micronutrients Property Groups															Data units: mg/kg
	SRS1401			SRS1402			SRS1403			SRS1404			SRS1405			
XQ6Y6J	0.51	0.07	0.91	0.36	0.05	0.96	0.46	0.38	0.91	0.45	0.24	1.95	5.66	0.52	0.63	
		0.01	0.04		0.01	0.02		0.06	0.03		0.03	0.06		0.66	0.20	
MBLU4T	0.43	-0.37	1.45	0.27	-0.65	0.23	0.29	-0.71	0.62	0.34	-0.55	0.20	3.79	-0.96	0.11	
		-0.07	0.06		-0.08	0.01		-0.11	0.02		-0.08	0.01		-1.21	0.03	
X8RE9F	0.50	0.00	0.39	0.35	0.00	0.45	0.49	0.56	0.25	0.47	0.41	0.38	5.84	0.67	1.06	
		0.00	0.02		0.00	0.01		0.09	0.01		0.06	0.01		0.84	0.33	
MM2LUN	0.75	1.38	1.61	0.43	0.66	0.37	0.60	1.23	0.61	0.55	0.96	1.62	5.70	0.56	0.35	
		0.25	0.06		0.08	0.01		0.20	0.02		0.13	0.05		0.70	0.11	
XNEVBC	0.56	0.34	0.39	0.21	-1.17	0.60	0.31	-0.55	0.46	0.36	-0.35	0.21	4.54	-0.37	0.12	
		0.06	0.02		-0.14	0.02		-0.09	0.02		-0.05	0.01		-0.46	0.04	
KKY4HM	0.53	0.17	1.05	0.36	0.06	0.81	0.37	-0.19	0.60	0.40	-0.10	1.08	4.52	-0.38	1.16	
		0.03	0.04		0.01	0.02		-0.03	0.02		-0.01	0.03		-0.48	0.36	
LEBJDL	0.40	-0.56	0.00	0.30	-0.43	0.00	0.37	-0.21	1.55	0.37	-0.33	1.99	4.87	-0.11	0.19	
		-0.10	0.00		-0.05	0.00		-0.03	0.06		-0.05	0.06		-0.13	0.06	
VFBYEB	0.25	-1.38	0.63	0.24	-0.95	0.61	0.24	-0.98	0.56	0.30	-0.79	0.20	3.66	-1.07	0.02	
		-0.25	0.03		-0.12	0.02		-0.16	0.02		-0.11	0.01		-1.34	0.01	
82U34V	0.81	1.72	0.88	0.42	0.52	0.92	0.52	0.73	0.41	0.58	1.22	1.21	5.19	0.15	0.88	
		0.31	0.04		0.06	0.02		0.12	0.02		0.17	0.04		0.19	0.27	
ETYBXN	0.30	-1.12	0.00	0.20	-1.24	0.00	0.27	-0.84	1.55	0.30	-0.81	0.00	3.17	-1.46	0.19	
		-0.20	0.00		-0.15	0.00		-0.13	0.06		-0.11	0.00		-1.83	0.06	
FC666L	0.50	0.00		0.30	-0.43	0.00	0.37	-0.21	1.55	0.40	-0.10	0.00	4.60	-0.32	0.64	
		0.00	0.00		-0.05	0.00		-0.03	0.06		-0.01	0.00		-0.40	0.20	
PN6V2C	0.48	-0.09	0.15	0.45	0.79	0.00	0.53	0.84	1.55	0.49	0.55	0.34	5.57	0.45	0.19	
		-0.02	0.01		0.10	0.00		0.13	0.06		0.08	0.01		0.57	0.06	
8JTXZT	0.45	-0.26	1.45	0.27	-0.65	1.66	0.29	-0.67	0.82	0.36	-0.38	0.98	4.31	-0.55	0.55	
		-0.05	0.06		-0.08	0.04		-0.11	0.03		-0.05	0.03		-0.69	0.17	
6P9R3T	0.56	0.34	0.67	0.38	0.25	1.22	0.47	0.46	1.48	0.46	0.36	1.05	5.62	0.49	1.46	
		0.06	0.03		0.03	0.03		0.07	0.06		0.05	0.03		0.62	0.45	
T3CD22	0.45	-0.26	0.15	0.27	-0.67	0.40	0.34	-0.38	0.27	0.40	-0.12	0.53	5.02	0.02	0.22	
		-0.05	0.01		-0.08	0.01		-0.06	0.01		-0.02	0.02		0.02	0.07	
3AXLEP	0.59	0.50	1.10	0.39	0.27	0.61	0.47	0.46	2.41	0.47	0.43	0.40	5.57	0.45	0.37	
		0.09	0.04		0.03	0.02		0.07	0.09		0.06	0.01		0.57	0.12	
GRVM9A	0.40	-0.56	0.00	0.30	-0.43	0.00	0.33	-0.42	1.55	0.30	-0.81	0.00	5.00	0.00	0.96	
		-0.10	0.00		-0.05	0.00		-0.07	0.06		-0.11	0.00		0.00	0.30	
47FVHT	0.38	-0.65	0.29	0.24	-0.95	0.23	0.23	-1.04	0.41	0.29	-0.91	0.72	2.66	-1.86	0.31	
		-0.12	0.01		-0.12	0.01		-0.17	0.02		-0.13	0.02		-2.34	0.10	
FHRYXC	0.65	0.86	0.88	0.40	0.35	0.46	0.48	0.50	0.54	0.51	0.69	1.58	5.57	0.46	0.84	
		0.15	0.04		0.04	0.01		0.08	0.02		0.10	0.05		0.57	0.26	
TYT44W	0.63	0.75	0.35	0.48	1.01	1.24	0.73	2.05	1.38	0.66	1.75	0.64	6.47	1.17	1.16	
		0.13	0.01		0.12	0.03		0.33	0.05		0.24	0.02		1.47	0.36	



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	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		
6W8FD7	0.81	1.71	0.38	0.39	0.33	0.27	0.47	0.44	0.28	0.48	0.50	0.12	5.19	0.15	0.31
		0.31	0.02		0.04	0.01		0.07	0.01		0.07	0.00		0.19	0.10
TMGXVF	0.47	-0.19	2.91	0.33	-0.16	2.30	0.40	0.00	0.00	0.43	0.14	1.99	4.57	-0.34	1.49
		-0.03	0.12		-0.02	0.06		0.00	0.00		0.02	0.06		-0.43	0.46
HZKKTN	0.30	-1.12	0.25	0.16	-1.60	0.23	0.20	-1.25	0.27	0.22	-1.36	0.40	2.53	-1.96	0.37
		-0.20	0.01		-0.20	0.01		-0.20	0.01		-0.19	0.01		-2.47	0.12
99PAHV	0.22	-1.57	0.03	0.17	-1.50	0.31	0.17	-1.45	0.10	0.19	-1.61	0.06	3.57	-1.13	0.05
		-0.28	0.00		-0.19	0.01		-0.23	0.00		-0.22	0.00		-1.43	0.01
YLNT44	0.40	-0.56	0.00	0.50	1.19		0.50	0.63		0.60	1.34	0.00	5.23	0.19	0.19
		-0.10	0.00		0.15	0.00		0.10	0.00		0.19	0.00		0.23	0.06
4X72UR	0.79	1.61	2.31	0.53	1.44	3.06	0.56	0.97	0.87	0.61	1.38	1.67	7.03	1.62	3.79
		0.29	0.09		0.18	0.08		0.16	0.03		0.19	0.05		2.03	1.18
PZEKPF	0.51	0.06	0.25	0.41	0.46	1.44	0.41	0.06	0.54	0.41	0.00	0.87	3.97	-0.82	0.41
		0.01	0.01		0.06	0.04		0.01	0.02		0.00	0.03		-1.03	0.13
Grand Median		0.50			0.35			0.40			0.41			5.00	
Median Abs Dev		0.10			0.08			0.09			0.08			0.62	
Avg Within Lab SD		0.04			0.03			0.04			0.03			0.31	
Labs Included		27			27			27			27			27	
Labs Reporting		27			27			27			27			27	



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

Zn - HCl (SubTestCode 173)	in the Micronutrients Property Groups										Data units: mg/kg
	SRS1401		SRS1402		SRS1403		SRS1404		SRS1405		
47FVHT	7.35	1.39	2.45	1.27	1.09	0.85	2.06	0.33	44.22	1.38	
		0.19		0.12		0.02		0.03		2.75	
6W8FD7	5.66	0.27	1.89	0.62	1.11	1.13	1.94	1.38	30.53	0.32	
		0.04		0.06		0.03		0.11		0.64	
Grand Median	6.51		2.17		1.10		2.00		37.4		
Median Abs Dev											
Avg Within Lab SD	0.13		0.09		0.02		0.08		2.0		
Labs Included	2		2		2		2		2		
Labs Reporting	2		2		2		2		2		



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

CI - Ca(NO3)2 Extr. (SubTestCode 175)	in the Micronutrients Property Groups															Data units: mg/kg
	SRS1401			SRS1402			SRS1403			SRS1404			SRS1405			
MBLU4T	9.70	1.45	0.43	11.07	0.87	0.31	3.10	0.00	0.18	5.30	0.27	0.00	29.63	-0.27	0.29	
		3.60	0.20		1.43	0.25		0.00	0.10		0.30	0.00		-2.03	0.29	
MM2LUN	6.65	0.22	1.11	12.60	1.80	1.63	5.20	1.36	0.03	5.56	0.51	2.07	41.00	1.22	2.03	
		0.55	0.52		2.97	1.30		2.10	0.02		0.56	0.75		9.33	2.01	
XNEVBC	10.63	1.83	0.66	8.93	-0.43	0.93	6.32	2.08	0.81	6.27	1.14	0.87	18.10	-1.77	0.32	
		4.53	0.31		-0.70	0.75		3.22	0.44		1.27	0.31		-13.57	0.32	
LEBJDL	3.19	-1.17	0.45	8.55	-0.66	0.70	2.69	-0.26	0.98	3.94	-0.96	0.65	32.21	0.07	0.21	
		-2.91	0.21		-1.08	0.56		-0.41	0.53		-1.06	0.24		0.55	0.21	
PN6V2C	4.33	-0.71	0.62	10.50	0.53		3.00	-0.06		5.00	0.00		35.17	0.46	0.59	
		-1.77	0.29		0.87	0.00		-0.10	0.00		0.00	0.00		3.50	0.58	
6P9R3T	6.24	0.06	1.37	10.00	0.22	1.89	5.38	1.47	2.24	5.86	0.77	1.69	16.90	-1.93	1.62	
		0.14	0.64		0.37	1.52		2.28	1.22		0.86	0.61		-14.77	1.60	
GRVM9A	6.10	0.00	0.93	8.20	-0.87	0.90	2.57	-0.34	0.74	4.30	-0.63	0.55	33.07	0.18	0.91	
		0.00	0.44		-1.43	0.72		-0.53	0.40		-0.70	0.20		1.40	0.90	
HZKKTN	5.27	-0.34	1.79	8.50	-0.69	0.63	2.40	-0.45	1.20	3.83	-1.05	0.42	31.67	0.00	0.59	
		-0.83	0.84		-1.13	0.50		-0.70	0.66		-1.17	0.15		0.00	0.58	
PZEKPF	5.40	-0.28	0.77	9.63	0.00	0.31	3.17	0.04	0.56	4.17	-0.75	0.42	30.37	-0.17	0.69	
		-0.70	0.36		0.00	0.25		0.07	0.31		-0.83	0.15		-1.30	0.68	
Grand Median		6.10		9.63			3.10			5.00			31.7			
Median Abs Dev		0.83		1.08			0.53			0.83			2.0			
Avg Within Lab SD		0.47		0.80			0.54			0.36			1.0			
Labs Included		9		9			9			9			9			
Labs Reporting		9		9			9			9			9			



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

B - Hot Wat. (SubTestCode 176)			in the Micronutrients Property Groups												Data units: mg/kg		
SRS1401			SRS1402			SRS1403			SRS1404			SRS1405					
PGLRRN	0.59	-0.62	0.29	0.56	-0.86	1.09	0.49	0.16	0.37	0.43	2.25	0.79	0.44	0.91	0.46		
		-0.14	0.02		-0.15	0.03		0.02	0.02		0.20	0.02		0.16	0.02		
MM2LUN	0.79	0.31	0.18	0.87	0.85	1.24	0.59	1.14	1.08	0.28	0.57	0.70	0.33	0.31	0.59		
		0.07	0.01		0.15	0.03		0.12	0.06		0.05	0.01		0.05	0.02		
XNEVBC	0.66	-0.28	0.07	0.39	-1.85	0.80	0.30	-1.71	0.36	0.21	-0.22	0.36	0.20	-0.43	0.25		
		-0.06	0.00		-0.33	0.02		-0.18	0.02		-0.02	0.01		-0.08	0.01		
KKY4HM	0.70	-0.10	0.26	0.67	-0.28	0.79	0.42	-0.53	0.61	0.21	-0.15	0.69	0.25	-0.18	0.19		
		-0.02	0.01		-0.05	0.02		-0.05	0.03		-0.01	0.01		-0.03	0.01		
82U34V	0.61	-0.51	0.75	0.66	-0.30	1.35	0.49	0.16	0.65	0.35	1.35	0.30	0.28	0.02	0.40		
		-0.12	0.04		-0.05	0.04		0.02	0.03		0.12	0.01		0.00	0.02		
C3CKCJ	0.72	-0.04	0.35	0.72	0.00	0.40	0.44	-0.33	0.29	0.23	0.06	0.46	0.27	-0.03	0.29		
		-0.01	0.02		0.00	0.01		-0.03	0.02		0.01	0.01		-0.01	0.01		
VFA93Z	0.59	-0.62	1.09	0.57	-0.84	1.48	0.41	-0.58	0.57	0.42	2.17	2.37	0.54	1.49	0.55		
		-0.14	0.06		-0.15	0.04		-0.06	0.03		0.19	0.05		0.26	0.02		
FHRYXC	0.42	-1.37	0.22	0.42	-1.68	0.74	0.26	-2.04	0.11	0.09	-1.52	0.52	0.13	-0.85	0.00		
		-0.31	0.01		-0.30	0.02		-0.21	0.01		-0.14	0.01		-0.15	0.00		
TYT44W	0.50	-0.99	1.01	0.67	-0.24	1.19	0.49	0.18	0.38	0.20	-0.33	1.23	0.19	-0.51	0.82		
		-0.22	0.05		-0.04	0.03		0.02	0.02		-0.03	0.02		-0.09	0.03		
FWAPXZ	0.88	0.67	2.49	0.74	0.12	0.36	0.46	-0.10	0.22	0.27	0.49	0.00	0.30	0.13	0.15		
		0.15	0.13		0.02	0.01		-0.01	0.01		0.04	0.00		0.02	0.01		
DNJMGX	0.73	0.00	2.07	0.72	0.01	0.70	0.43	-0.40	0.39	0.19	-0.35	0.33	0.26	-0.12	0.12		
		0.00	0.11		0.00	0.02		-0.04	0.02		-0.03	0.01		-0.02	0.00		
6W8FD7	1.05	1.43	1.16	0.80	0.45	0.57	0.50	0.22	0.69	0.22	-0.03	0.17	0.33	0.30	0.41		
		0.32	0.06		0.08	0.02		0.02	0.04		0.00	0.00		0.05	0.02		
YLNT44	0.80	0.33	1.87	0.93	1.21	2.05	0.50	0.26	3.74	0.23	0.08	2.99	1.23	5.41	4.02		
		0.07	0.10		0.22	0.06		0.03	0.20		0.01	0.06		0.95	0.15		
VJ8PJ2	0.45	-1.23	0.00	0.47	-1.40	1.03	0.23	-2.33	0.54	0.10	-1.41	0.00	0.12	-0.93	0.76		
		-0.28	0.00		-0.25	0.03		-0.24	0.03		-0.13	0.00		-0.16	0.03		
D6PWDR	0.73	0.00	0.43	0.67	-0.25	0.51	0.45	-0.24	0.34	0.23	0.00	0.36	0.26	-0.13	0.11		
		0.00	0.02		-0.05	0.01		-0.03	0.02		0.00	0.01		-0.02	0.00		
4P7QD2	0.81	0.38	0.37	0.72	0.01	0.94	0.47	0.00	0.39	0.22	-0.07	0.52	0.28	0.00	0.26		
		0.08	0.02		0.00	0.03		0.00	0.02		-0.01	0.01		0.00	0.01		
PZEKPF	1.17	1.98	0.49	1.02	1.69	1.23	0.64	1.62	0.97	0.33	1.20	0.30	0.39	0.61	0.30		
		0.44	0.03		0.30	0.03		0.17	0.05		0.11	0.01		0.11	0.01		
JUBP4K	0.99	1.18		0.80	0.46		0.51	0.36		0.27	0.49		0.33	0.28			
		0.26	0.00		0.08	0.00		0.04	0.00		0.04	0.00		0.05	0.00		
6V7P2W	0.90	0.78		0.77	0.29		0.52	0.45		0.22	-0.07		0.25	-0.17			
		0.17	0.00		0.05	0.00		0.05	0.00		-0.01	0.00		-0.03	0.00		



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	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		
Grand Median		0.73			0.72			0.47			0.23			0.28	
Median Abs Dev		0.14			0.08			0.04			0.03			0.05	
Avg Within Lab SD		0.05			0.03			0.05			0.02			0.04	
Labs Included		19			19			19			19			19	
Labs Reporting		19			19			19			19			19	



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

B-DTPA/Sorbitol (SubTestCode 177)		in the Micronutrients Property Groups												Data units: mg/kg	
	SRS1401			SRS1402			SRS1403			SRS1404			SRS1405		
XQ6Y6J	0.29	0.62	0.65	0.26	0.00	0.36	0.20	0.02	0.79	0.13	0.07	0.62	0.14	0.40	0.20
		0.05	0.01		0.00	0.02		0.00	0.01		0.01	0.02		0.04	0.01
MBLU4T	0.25	0.15	0.47	0.23	-0.25	0.13	0.11	-0.73	0.41	0.09	-0.50	0.20	0.09	-0.10	0.15
		0.01	0.01		-0.03	0.01		-0.09	0.01		-0.04	0.01		-0.01	0.01
LEBJDL	0.26	0.28	0.94	0.37	0.91	0.57	0.25	0.45	2.52	0.12	0.00	0.20	0.14	0.40	0.15
		0.02	0.02		0.11	0.03		0.05	0.04		0.00	0.01		0.04	0.01
VFBYEB	0.25	0.10	0.27	0.31	0.47	0.13	0.24	0.34	0.00	0.19	0.95	0.20	0.21	1.03	0.15
		0.01	0.01		0.06	0.01		0.04	0.00		0.07	0.01		0.10	0.01
ETYBXN	0.21	-0.43	0.27	0.26	0.00	0.13	0.13	-0.59	0.72	0.07	-0.73	0.35	0.10	0.00	0.15
		-0.03	0.01		0.00	0.01		-0.07	0.01		-0.05	0.01		0.00	0.01
FC666L	0.23	-0.10	0.26	0.24	-0.14	0.08	0.14	-0.50	0.94	0.04	-1.14	0.26	0.06	-0.47	0.14
		-0.01	0.01		-0.02	0.00		-0.06	0.01		-0.08	0.01		-0.05	0.01
8JTXZT	0.13	-1.42	2.70												
		-0.11	0.06												
GRVM9A	0.40	2.16	0.00	0.63	3.12	2.60	0.50	2.53		0.23	1.50	2.01	0.43	3.29	2.92
		0.16	0.00		0.38	0.12		0.30	0.00		0.11	0.06		0.33	0.12
TMGXVF	0.20	-0.52	0.00	0.23	-0.19	1.30	0.20	0.00	0.00	0.13	0.14	2.01	0.10	-0.03	0.00
		-0.04	0.00		-0.02	0.06		0.00	0.00		0.01	0.06		0.00	0.00
HZKKTN	0.17	-0.97	0.98	0.14	-0.99	0.26	0.09	-0.91	0.68	0.05	-1.04	0.45	0.07	-0.34	0.56
		-0.07	0.02		-0.12	0.01		-0.11	0.01		-0.08	0.01		-0.03	0.02
Grand Median		0.24		0.26			0.20			0.12			0.10		
Median Abs Dev		0.04		0.03			0.06			0.05			0.04		
Avg Within Lab SD		0.02		0.04			0.01			0.03			0.04		
Labs Included		10		9			9			9			9		
Labs Reporting		10		9			9			9			9		



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

Soil Kjeldahl N (SubTestCode 178)	in the Soil Organic Matter Property Groups															Data units: Percent
	SRS1401			SRS1402			SRS1403			SRS1404			SRS1405			
MBLU4T	0.20	-0.16	0.09	0.15	-0.01	0.19	0.11	-0.23	0.54	0.08	0.05	1.10	0.11	0.05	0.58	
		0.00	0.00		0.00	0.00		-0.01	0.00		0.00	0.01		0.00	0.01	
KKY4HM	0.19	-0.97	2.61	0.24	4.08	2.57	0.21	3.95	1.87	0.17	4.55	2.00	0.20	3.83	1.14	
		-0.01	0.02		0.09	0.02		0.10	0.01		0.09	0.01		0.09	0.01	
LEBJDL	0.20	0.16	0.68	0.15	-0.12	0.81	0.12	0.23	1.22	0.08	-0.04	1.19	0.11	0.13	0.48	
		0.00	0.01		0.00	0.01		0.01	0.01		0.00	0.01		0.00	0.01	
VFBYEB	0.21	0.99	0.31	0.16	0.41	0.50	0.11	0.09	0.37	0.09	0.26	0.19	0.11	-0.05	0.47	
		0.01	0.00		0.01	0.00		0.00	0.00		0.01	0.00		0.00	0.01	
FC666L	0.19	-1.10	0.21	0.14	-0.38	0.36	0.11	-0.28	0.45	0.07	-0.25	0.42	0.14	1.10	2.33	
		-0.01	0.00		-0.01	0.00		-0.01	0.00		-0.01	0.00		0.03	0.03	
EHV3AC	0.21	0.72	0.78	0.15	0.06	0.00	0.11	-0.09	1.50	0.08	-0.15	0.95	0.11	-0.10	0.47	
		0.01	0.01		0.00	0.00		0.00	0.01		0.00	0.01		0.00	0.01	
XBN6AL	1.88	218.21	6.06	1.06	40.90	8.24	0.99	34.53	4.23	0.73	31.75	3.23	0.86	30.71	6.80	
		1.68	0.05		0.91	0.07		0.88	0.03		0.65	0.02		0.76	0.08	
999DPV	0.20	-0.28	0.00	0.15	0.01	0.43	0.12	0.38	0.30	0.08	-0.06	0.50	0.11	-0.07	0.45	
		0.00	0.00		0.00	0.00		0.01	0.00		0.00	0.00		0.00	0.01	
PZEKPF	0.21	1.02	0.00	0.14	-0.33	0.38	0.11	-0.15	0.17	0.08	0.04	0.10	0.11	-0.07	0.25	
		0.01	0.00		-0.01	0.00		0.00	0.00		0.00	0.00		0.00	0.00	
Grand Median		0.20		0.15			0.11			0.080			0.11			
Median Abs Dev		0.01		0.01			0.01			0.002			0.00			
Avg Within Lab SD		0.01		0.01			0.01			0.006			0.01			
Labs Included		8		8			8			8			8			
Labs Reporting		8		8			8			8			8			



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

	Soil TN (combustion) (SubTestCode 179)			in the Soil Organic Matter Property Groups									Data units: Percent		
	SRS1401			SRS1402			SRS1403			SRS1404			SRS1405		
XQ6Y6J	0.22	0.59	0.00	0.15	-0.80	0.00	0.12	0.00	1.67	0.08	-0.17	1.85	0.12	0.14	0.00
		0.01	0.00		-0.01	0.00		0.00	0.01		0.00	0.01		0.00	0.00
MM2LUN	0.22	0.60	0.34	0.18	1.76	0.65	0.14	1.34	2.22	0.11	1.96	1.39	0.11	-0.53	1.34
		0.01	0.00		0.02	0.00		0.02	0.01		0.03	0.01		-0.01	0.01
VFBYEB	0.21	-0.09	0.00	0.16	0.00	0.00	0.12	0.00	0.00	0.09	0.46	0.00	0.11	-0.46	0.00
		0.00	0.00		0.00	0.00		0.00	0.00		0.01	0.00		-0.01	0.00
FC666L	0.23	1.50	2.14	0.18	1.34	1.39	0.13	0.63	0.00	0.12	2.30	1.86	0.15	1.80	1.50
		0.02	0.01		0.02	0.01		0.01	0.00		0.04	0.01		0.03	0.01
GRVM9A	0.22	0.59	0.00	0.16	0.00	0.00	0.12	0.00	1.67	0.08	-0.17	0.00	0.13	0.74	1.72
		0.01	0.00		0.00	0.00		0.00	0.01		0.00	0.00		0.01	0.01
ADE96P	0.24	1.96	0.00	0.18	1.34	1.41	0.14	1.05	0.96	0.10	1.09	0.00	0.14	1.34	0.00
		0.03	0.00		0.02	0.01		0.02	0.01		0.02	0.00		0.02	0.00
96N7NM	0.21	-0.09	0.00	0.15	-0.67	0.28	0.11	-0.59	0.39	0.08	-0.19	0.87	0.11	-0.46	0.51
		0.00	0.00		-0.01	0.00		-0.01	0.00		0.00	0.00		-0.01	0.00
6M3BLP	0.21	-0.09	0.00	0.15	-0.67	0.28	0.11	-0.59	0.39	0.08	-0.19	0.87	0.11	-0.46	0.51
		0.00	0.00		-0.01	0.00		-0.01	0.00		0.00	0.00		-0.01	0.00
EHV3AC	0.31	6.51	1.48	0.25	6.96	1.41	0.20	5.05	0.00	0.17	5.48	1.85	0.21	5.73	0.99
		0.10	0.01		0.09	0.01		0.08	0.00		0.09	0.01		0.10	0.01
QEAEJK	0.19	-1.23	1.48	0.16	0.27	1.41	0.15	1.90	0.00	0.09	0.46	0.00	0.13	0.74	0.00
		-0.02	0.01		0.00	0.01		0.03	0.00		0.01	0.00		0.01	0.00
6W8FD7	0.23	1.59	1.04	0.16	0.11	0.99	0.14	1.12	0.10	0.08	-0.25	0.56	0.12	0.36	0.55
		0.02	0.00		0.00	0.00		0.02	0.00		0.00	0.00		0.01	0.00
999DPV	0.21	-0.43	1.90	0.14	-1.43	2.03	0.10	-1.27	0.95	0.07	-1.07	1.30	0.10	-1.14	2.13
		-0.01	0.01		-0.02	0.01		-0.02	0.01		-0.02	0.01		-0.02	0.01
99PAHV	0.21	0.00	1.04	0.16	-0.26	1.11	0.12	-0.01	0.61	0.09	0.47	0.78	0.11	-0.61	0.47
		0.00	0.00		0.00	0.00		0.00	0.00		0.01	0.00		-0.01	0.00
PZEKPF	0.21	0.00	0.59	0.16	-0.13	0.37	0.12	-0.27	0.10	0.08	0.00	0.28	0.12	0.00	0.65
		0.00	0.00		0.00	0.00		0.00	0.00		0.00	0.00		0.00	0.00
Grand Median		0.21			0.16			0.12			0.083			0.12	
Median Abs Dev		0.01			0.01			0.01			0.007			0.01	
Avg Within Lab SD		0.00			0.00			0.01			0.005			0.01	
Labs Included		13			13			13			13			13	
Labs Reporting		13			13			13			13			13	



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

Soil TOC (Combustion) (SubTestCode 180)	in the Soil Organic Matter Property Groups												Data units: Percent		
	SRS1401			SRS1402			SRS1403			SRS1404			SRS1405		
XQ6Y6J	2.25	1.22	1.45	2.56	-0.28	1.94	1.35	0.00	1.05	0.96	-0.07	2.64	1.59	0.00	0.96
		0.11	0.04		-0.02	0.14		0.00	0.06		-0.01	0.12		0.00	0.04
96N7NM	2.14	0.00	0.22	2.58	0.00	0.64	1.30	-0.67	0.75	0.97	0.09	0.38	1.56	-0.30	0.58
		0.00	0.01		0.00	0.05		-0.05	0.04		0.01	0.02		-0.03	0.02
6M3BLP	2.14	0.00	0.22	2.58	0.00	0.64	1.30	-0.67	0.75	0.97	0.09	0.38	1.56	-0.30	0.58
		0.00	0.01		0.00	0.05		-0.05	0.04		0.01	0.02		-0.03	0.02
EHV3AC	2.28	1.56	0.65	2.78	2.38	0.82	1.35	0.02	0.20	1.07	1.31	0.26	1.72	1.29	0.43
		0.14	0.02		0.20	0.06		0.00	0.01		0.10	0.01		0.13	0.02
XBN6AL	1.83	-3.31	2.17	3.37	9.32	0.78	4.40	39.53	0.00	1.37	5.21	1.30	3.87	22.13	2.88
		-0.30	0.06		0.78	0.06		3.05	0.00		0.40	0.06		2.28	0.12
DNJMGX	2.17	0.40	1.18	2.43	-1.87	1.00	1.36	0.08	2.42	0.78	-2.45	0.60	1.39	-1.92	1.82
		0.04	0.03		-0.16	0.07		0.01	0.14		-0.19	0.03		-0.20	0.07
QEAEJK	2.08	-0.58	0.22	2.57	-0.12	0.31	1.47	1.49	0.40	0.87	-1.25	0.60	1.61	0.19	1.25
		-0.05	0.01		-0.01	0.02		0.12	0.02		-0.10	0.03		0.02	0.05
6W8FD7	2.27	1.44	1.04	2.57	-0.21	0.94	1.47	1.56	0.45	1.02	0.72	0.24	1.61	0.26	0.54
		0.13	0.03		-0.02	0.07		0.12	0.03		0.06	0.01		0.03	0.02
99PAHV	2.19	0.54	1.88	2.60	0.18	1.32	1.30	-0.65	0.67	0.97	0.00	0.86	1.40	-1.80	1.41
		0.05	0.05		0.02	0.10		-0.05	0.04		0.00	0.04		-0.19	0.06
PZEKPF	2.11	-0.33	0.57	2.67	1.03	0.13	1.28	-0.93	0.30	0.96	-0.08	0.39	1.59	0.03	0.25
		-0.03	0.02		0.09	0.01		-0.07	0.02		-0.01	0.02		0.00	0.01
Grand Median		2.14		2.58			1.35			0.97			1.59		
Median Abs Dev		0.05		0.02			0.05			0.01			0.03		
Avg Within Lab SD		0.03		0.07			0.06			0.04			0.04		
Labs Included		9		9			9			9			9		
Labs Reporting		9		9			9			9			9		



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

	SOM - Walkley-Black (SubTestCode 181) in the Soil Organic Matter Property Groups														
	SRS1401			SRS1402			SRS1403			SRS1404			SRS1405		
	Data units: Percent														
MBLU4T	4.27	1.19	0.38	4.45	0.46	0.19	2.23	0.00	0.37	1.62	0.03	0.11	2.69	0.16	0.22
		0.79	0.04		0.26	0.05		0.00	0.08		0.01	0.02		0.11	0.04
KKY4HM	2.91	-0.86	1.27	4.99	1.43	0.92	5.46	4.16	0.80	2.72	2.61	1.33	5.13	3.66	0.87
		-0.57	0.14		0.80	0.25		3.24	0.16		1.11	0.21		2.55	0.16
ETYBXN	3.48	0.00	0.14	3.74	-0.81	0.06	2.11	-0.15	0.05	1.86	0.59	0.06	2.58	0.00	0.14
		0.00	0.02		-0.45	0.02		-0.12	0.01		0.25	0.01		0.00	0.03
FC666L	3.25	-0.36	0.89	3.77	-0.76	0.34	1.93	-0.38	0.44	1.29	-0.74	0.19	2.17	-0.58	0.36
		-0.24	0.10		-0.42	0.09		-0.29	0.09		-0.32	0.03		-0.40	0.07
8JTXZT	3.45	-0.05	0.52	3.96	-0.43	0.64	1.97	-0.33	0.69	1.43	-0.41	0.26	2.12	-0.65	1.37
		-0.03	0.06		-0.24	0.17		-0.26	0.14		-0.18	0.04		-0.45	0.25
P7RC69	3.43	-0.08	0.52	4.33	0.25	2.63	1.40	-1.06	0.49	1.97	0.84	3.18	1.93	-0.92	1.58
		-0.05	0.06		0.14	0.71		-0.83	0.10		0.36	0.49		-0.64	0.29
47FVHT	3.41	-0.11	1.54	3.56	-1.15	0.48	2.20	-0.03	0.37	1.23	-0.89	0.28	2.34	-0.34	0.33
		-0.07	0.17		-0.64	0.13		-0.02	0.08		-0.38	0.04		-0.24	0.06
96N7NM	3.66	0.27	0.00	4.42	0.40		2.51	0.36		1.53	-0.18		2.70	0.18	0.23
		0.18	0.00		0.22	0.00		0.28	0.00		-0.08	0.00		0.12	0.04
XBN6AL	5.40	2.88	2.46	4.37	0.31	1.88	3.40	1.51	3.24	2.16	1.29	0.60	3.66	1.56	2.10
		1.91	0.27		0.17	0.51		1.17	0.66		0.55	0.09		1.09	0.38
6W8FD7	4.05	0.85	0.37	4.42	0.40	0.35	2.50	0.36	0.43	1.61	0.00	0.41	2.57	-0.01	1.12
		0.57	0.04		0.22	0.10		0.28	0.09		0.00	0.06		-0.01	0.21
999DPV	3.60	0.18	0.24	4.20	0.00	0.04	2.20	-0.03	0.14	1.46	-0.36	0.34	2.59	0.01	0.15
		0.12	0.03		0.00	0.01		-0.02	0.03		-0.15	0.05		0.01	0.03
YLNT44	2.37	-1.68	0.52	3.27	-1.67	0.57	2.37	0.18	0.29	1.57	-0.10	0.37	2.40	-0.25	1.09
		-1.12	0.06		-0.93	0.15		0.14	0.06		-0.04	0.06		-0.18	0.20
PZEKPF	3.66	0.27	1.00	3.80	-0.71	0.69	2.39	0.21	0.62	1.92	0.73	0.38	2.89	0.45	0.81
		0.18	0.11		-0.39	0.19		0.17	0.13		0.31	0.06		0.32	0.15
Grand Median		3.48		4.20			2.23			1.61			2.58		
Median Abs Dev		0.18		0.26			0.26			0.25			0.24		
Avg Within Lab SD		0.11		0.27			0.20			0.16			0.18		
Labs Included		13		13			13			13			13		
Labs Reporting		13		13			13			13			13		



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

SOM - LOI (% Wt loss) (SubTestCode 182)	in the Soil Organic Matter Property Groups															Data units: Percent
	SRS1401			SRS1402			SRS1403			SRS1404			SRS1405			
NVRNBQ	3.93	0.16	4.27	4.27	-0.36	0.38	2.22	0.06	0.68	2.22	-0.23	1.21	2.36	-0.26	0.93	
		0.07	0.64		-0.18	0.05		0.02	0.07		-0.06	0.10		-0.07	0.10	
PGLRRN	3.69	-0.42	0.08	4.36	-0.17	0.27	2.23	0.08	0.72	2.30	0.09	1.00	2.33	-0.38	0.24	
		-0.17	0.01		-0.08	0.04		0.03	0.07		0.02	0.08		-0.11	0.03	
MM2LUN	3.85	-0.03	0.77	4.08	-0.75	2.67	1.95	-0.71	0.34	2.14	-0.52	0.99	2.27	-0.57	0.26	
		-0.01	0.11		-0.37	0.37		-0.24	0.03		-0.14	0.08		-0.16	0.03	
XNEVBC	4.03	0.43	0.10	4.60	0.31	0.62	2.23	0.11	0.59	2.35	0.24	0.39	2.38	-0.19	0.43	
		0.17	0.02		0.15	0.09		0.04	0.06		0.07	0.03		-0.05	0.04	
22R3Z9	5.36	3.66	0.13	5.75	2.67	0.69	3.16	2.83	0.75	3.48	4.41	0.90	3.30	3.05	0.30	
		1.50	0.02		1.31	0.10		0.97	0.08		1.20	0.07		0.86	0.03	
KKY4HM	4.31	1.10	0.18	4.98	1.10	0.18	2.52	0.93	0.81	2.61	1.23	0.72	2.76	1.15	0.61	
		0.45	0.03		0.54	0.03		0.32	0.08		0.33	0.06		0.33	0.06	
LEBJDL	4.03	0.41	0.42	4.59	0.29	0.07	2.17	-0.07	0.73	2.37	0.32	0.25	2.47	0.12	0.50	
		0.17	0.06		0.14	0.01		-0.02	0.08		0.09	0.02		0.03	0.05	
QDJ96F	4.30	1.07	0.00	4.73	0.59	1.10	2.33	0.40	0.56	2.47	0.69	0.71	2.47	0.12	1.48	
		0.44	0.00		0.29	0.15		0.14	0.06		0.19	0.06		0.03	0.15	
VFBYEB	3.37	-1.20	0.07	4.17	-0.57	0.07	1.53	-1.95	0.11	1.78	-1.86	0.19	1.88	-1.96	0.11	
		-0.49	0.01		-0.28	0.01		-0.66	0.01		-0.50	0.02		-0.56	0.01	
ARD6BU	4.24	0.92	0.39	5.31	1.77	1.10	2.72	1.54	3.56	2.28	0.00	3.12	2.72	1.02	1.89	
		0.38	0.06		0.86	0.15		0.53	0.37		0.00	0.26		0.29	0.20	
82U34V	4.01	0.37	0.64	4.74	0.61	0.40	2.27	0.21	0.49	2.39	0.41	0.32	2.61	0.64	0.20	
		0.15	0.10		0.30	0.06		0.07	0.05		0.11	0.03		0.18	0.02	
3PWDKZ	3.86	0.00	1.48	4.52	0.16	0.63	2.10	-0.30	0.87	2.05	-0.84	1.84	2.62	0.67	0.53	
		0.00	0.22		0.08	0.09		-0.10	0.09		-0.23	0.15		0.19	0.06	
FC666L	3.38	-1.18	0.66	3.69	-1.56	0.50	2.20	0.01	0.99	2.33	0.19	0.25	2.39	-0.17	0.34	
		-0.48	0.10		-0.76	0.07		0.00	0.10		0.05	0.02		-0.05	0.03	
PN6V2C	4.03	0.42	0.38	4.60	0.31	0.00	2.33	0.40	0.56	2.37	0.32	0.71	2.53	0.35	0.56	
		0.17	0.06		0.15	0.00		0.14	0.06		0.09	0.06		0.10	0.06	
PDLGXA	3.87	0.02	0.48	4.36	-0.17	0.54	2.07	-0.39	0.63	2.23	-0.17	0.87	2.62	0.65	0.37	
		0.01	0.07		-0.08	0.08		-0.13	0.07		-0.05	0.07		0.18	0.04	
6P9R3T	4.00	0.34		4.70	0.52	1.44	2.20	0.01	0.00	2.40	0.44	2.12	2.50	0.24	3.50	
		0.14	0.00		0.25	0.20		0.00	0.00		0.12	0.17		0.07	0.36	
P7RC69	4.60	1.80	0.00	5.13	1.40	0.41	2.53	0.98	0.56	2.67	1.43	0.71	2.93	1.76	0.56	
		0.74	0.00		0.69	0.06		0.34	0.06		0.39	0.06		0.50	0.06	
3AXLEP	4.06	0.49	0.57	4.69	0.49	0.65	2.22	0.06	0.39	2.47	0.70	0.88	2.51	0.27	0.73	
		0.20	0.09		0.24	0.09		0.02	0.04		0.19	0.07		0.08	0.08	
GRVM9A	3.82	-0.10	0.48	4.28	-0.34	0.38	2.10	-0.30	0.65	2.21	-0.26	0.12	2.36	-0.25	0.72	
		-0.04	0.07		-0.17	0.05		-0.10	0.07		-0.07	0.01		-0.07	0.07	
UGAKVW	4.12	0.63	0.04	4.70	0.52	0.07	2.32	0.35	0.15	2.44	0.58	0.19	2.45	0.06	0.10	
		0.26	0.01		0.25	0.01		0.12	0.02		0.16	0.02		0.02	0.01	



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	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		
UAAAE7	3.74	-0.28	0.04	4.38	-0.13	0.02	2.20	0.00	0.09	2.34	0.23	0.23	2.46	0.10	0.12
FKH4QJ	3.90	-0.12	0.01	4.11	-0.06	0.00	2.02	0.00	0.01	2.35	0.06	0.02	2.26	0.03	0.01
ADE96P	3.60	0.11	0.39	4.13	-0.69	0.73	1.97	-0.51	0.72	2.07	0.27	0.99	2.27	-0.61	1.01
VFA93Z	3.67	0.04	0.06	4.26	-0.34	0.10	2.04	-0.17	0.07	2.21	0.07	0.08	2.50	-0.17	0.10
TU3VJ3	3.64	-0.63	0.00	4.13	-0.64	0.41	2.04	-0.68	0.56	2.21	-0.79	0.71	2.50	-0.59	0.56
96N7NM	3.53	-0.26	0.00	4.26	-0.31	0.06	2.17	-0.23	0.06	2.23	-0.21	0.06	2.30	-0.17	0.06
EHV3AC	3.43	-0.47	0.37	4.26	-0.39	0.17	2.17	-0.47	0.11	2.23	-0.26	0.37	2.30	0.25	0.22
TYT44W	4.07	-0.19	0.06	4.35	-0.19	0.02	2.17	-0.16	0.01	2.23	-0.07	0.03	2.40	0.07	0.02
GQ3LL8	3.91	-0.54	1.87	4.35	-0.20	1.13	2.14	-0.17	0.79	2.28	-0.44	0.56	2.35	0.55	1.27
EYHHD9	4.00	-0.22	0.28	4.33	-0.10	0.16	2.12	-0.06	0.08	2.27	-0.12	0.05	2.63	0.16	0.13
U6T2RR	3.73	-0.80	0.77	4.33	-0.23	0.41	2.17	-0.09	0.56	2.30	-0.17	1.87	2.43	-0.47	1.68
PU98PV	3.93	-0.33	0.12	4.08	-0.11	0.06	2.27	-0.03	0.06	2.33	-0.05	0.15	2.43	-0.13	0.17
XBN6AL	3.47	-1.04	0.41	4.50	-0.76	0.74	2.27	-0.43	0.26	1.93	-0.32	0.25	1.83	-0.66	0.48
TB276K	3.40	-0.43	0.06	4.50	-0.37	0.10	2.27	-0.15	0.03	1.93	-0.09	0.02	2.33	-0.19	0.05
MADJ8P	3.69	0.50	1.02	4.60	0.31	0.72	2.23	0.10	1.12	1.93	0.20	1.41	2.40	-0.12	0.97
TMGXVF	3.83	0.21	0.15	4.60	0.15	0.10	2.23	0.04	0.12	2.33	0.05	0.12	2.40	-0.03	0.10
839E2Z	3.80	0.13	0.53	4.25	-0.40	0.19	2.24	0.11	0.40	2.28	-0.01	0.51	2.35	-0.28	0.73
4DBTA3	4.22	0.05	0.08	4.25	-0.20	0.03	2.24	0.04	0.04	2.28	0.00	0.04	2.35	-0.08	0.08
HZKKTN	3.87	0.33	0.71	4.48	0.06	0.15	2.12	-0.21	0.14	2.27	-0.04	0.12	2.63	0.68	0.60
999DPV	3.80	0.14	0.11	4.48	0.03	0.02	2.12	-0.07	0.01	2.27	-0.01	0.01	2.63	0.19	0.06
D7692N	3.53	-0.32	1.96	51.30	95.84	290.20	2.17	-0.09	0.56	2.30	0.07	0.00	2.43	0.00	1.12
4X72UR	3.75	-0.13	0.29	4.50	46.85	40.44	2.17	-0.03	0.06	2.30	0.02	0.00	2.43	0.00	0.12
		0.18	0.38	4.50	0.11	0.72	2.27	0.20	0.56	2.33	0.20	0.71	2.43	0.00	0.56
		0.07	0.06	4.50	0.05	0.10	2.27	0.07	0.06	2.33	0.05	0.06	2.43	0.00	0.06
		-0.96	2.52	4.53	0.18	0.83	1.67	-1.56	1.12	1.93	-1.28	1.87	1.83	-2.12	1.48
		-0.39	0.38	4.53	0.09	0.12	1.67	-0.53	0.12	1.93	-0.35	0.15	1.83	-0.60	0.15
		-1.12	0.00	4.10	-0.71	0.72	2.00	-0.58		1.57	-2.63	0.71	2.33	-0.35	0.56
		-0.46	0.00	4.10	-0.35	0.10	2.00	-0.20	0.00	1.57	-0.71	0.06	2.33	-0.10	0.06
		-0.41	0.77	4.44	-0.01	0.37	2.04	-0.46	0.51	2.25	-0.10	0.86	2.22	-0.75	1.86
		-0.17	0.12	4.44	0.00	0.05	2.04	-0.16	0.05	2.25	-0.03	0.07	2.22	-0.21	0.19
		-0.07	0.38	4.47	0.04	0.41	2.23	0.10	0.56	2.27	-0.05	0.71	2.37	-0.24	0.56
		-0.03	0.06	4.47	0.02	0.06	2.23	0.04	0.06	2.27	-0.01	0.06	2.37	-0.07	0.06
		-0.15	0.37	4.45	0.00	0.22	2.15	-0.13	0.15	2.28	-0.01	0.35	2.27	-0.59	0.06
		-0.06	0.06	4.45	0.00	0.03	2.15	-0.04	0.02	2.28	0.00	0.03	2.27	-0.17	0.01
		0.88		4.66	0.44		2.29	0.27		2.39	0.41		2.80	1.29	
		0.36	0.00	4.66	0.21	0.00	2.29	0.09	0.00	2.39	0.11	0.00	2.80	0.37	0.00
		0.02	0.77	4.63	0.38	0.83	2.10	-0.29	2.91	2.20	-0.29	0.00	2.40	-0.12	0.97
		0.01	0.12	4.63	0.19	0.12	2.10	-0.10	0.30	2.20	-0.08	0.00	2.40	-0.03	0.10
		-0.15	0.53	4.35	-0.19	0.05	2.12	-0.23	0.22	1.99	-1.09	0.95	2.42	-0.04	0.51
		-0.06	0.08	4.35	-0.09	0.01	2.12	-0.08	0.02	1.99	-0.29	0.08	2.42	-0.01	0.05
		-0.80	1.02	2.33	-4.32	0.83	4.67	7.24	2.97	2.40	0.44	1.22	2.47	0.12	2.02
		-0.33	0.15	2.33	-2.11	0.12	4.67	2.47	0.31	2.40	0.12	0.10	2.47	0.03	0.21
		-0.28	2.03	4.19	-0.53	4.64	1.94	-0.76	0.27	2.18	-0.36	1.00	2.15	-1.01	0.85
		-0.11	0.31	4.19	-0.26	0.65	1.94	-0.26	0.03	2.18	-0.10	0.08	2.15	-0.29	0.09



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	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		
PZEKPF	3.70	-0.39	0.00	4.17	-0.57	0.41	2.23	0.10	0.56	2.30	0.07	0.00	2.47	0.12	0.56
		-0.16	0.00		-0.28	0.06		0.04	0.06		0.02	0.00		0.03	0.06
JUBP4K	5.51	4.02		5.94	3.05		3.08	2.59		3.48	4.42		3.59	4.08	
		1.65	0.00		1.49	0.00		0.88	0.00		1.20	0.00		1.16	0.00
Grand Median		3.86			4.45			2.20			2.28			2.43	
Median Abs Dev		0.17			0.20			0.10			0.09			0.10	
Avg Within Lab SD		0.15			0.14			0.10			0.08			0.10	
Labs Included		43			43			43			43			43	
Labs Reporting		43			43			43			43			43	



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

CaCO3 Content (SubTestCode 183)	in the Content Property Groups												Data units: Percent		
	SRS1401			SRS1402			SRS1403			SRS1404			SRS1405		
KKY4HM	2.59	1.43	1.26	1.32	0.97	1.32	1.41	0.94	1.79	0.82	-0.28	1.06	1.03	0.31	0.40
		1.64	0.48		0.54	0.34		0.70	0.53		-0.26	0.23		0.18	0.10
VFBYEB	1.07	0.10	0.09	0.78	0.12	0.04	1.27	0.74	0.19	1.68	0.63	0.27	1.43	0.98	0.20
		0.12	0.04		0.00	0.02		0.55	0.06		0.60	0.06		0.58	0.05
PN6V2C	0.30	-0.56	0.00		-0.83	0.00	0.10	-0.83	0.00	0.17	-0.96	0.26	0.10	-1.26	0.00
		-0.65	0.00		-0.62	0.00		-0.62	0.00		-0.92	0.06		-0.75	0.00
P7RC69	2.90	1.69	1.84	0.01	-1.38	0.02	0.01	-0.95	0.00	3.07	2.08	0.26	0.27	-0.98	0.22
		1.95	0.70		-0.76	0.01		-0.71	0.00		1.98	0.06		-0.58	0.06
ADE96P	0.83	-0.10	0.99	1.03	0.46	1.79	0.93	0.29	1.56	1.03	-0.05	2.15	1.00	0.25	2.37
		-0.12	0.38		0.26	0.46		0.22	0.46		-0.05	0.47		0.15	0.61
XBN6AL	0.77	-0.16	0.15	0.47	-0.16	0.22	0.50	-0.29	0.58	1.13	0.05	0.26	0.70	-0.25	0.39
		-0.18	0.06		-0.31	0.06		-0.22	0.17		0.05	0.06		-0.15	0.10
Grand Median		0.95		0.78			0.72			1.08			0.85		
Median Abs Dev		0.42		0.31			0.58			0.43			0.38		
Avg Within Lab SD		0.38		0.26			0.30			0.22			0.26		
Labs Included		6		5			6			6			6		
Labs Reporting		6		5			6			6			6		



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

CEC - Cation Displacement (SubTestCode 184)	in the Other 1 Property Groups															Data units: cmol/kg
	SRS1401			SRS1402			SRS1403			SRS1404			SRS1405			
MBLU4T	13.7	0.0	0.5	11.4	-0.1	1.4	9.4	0.3	0.3	8.7	0.0	0.3	9.6	0.0	0.2	
		0.0	0.2		-0.2	0.3		0.6	0.1		0.1	0.2		0.0	0.1	
VFBYEB	11.5	-0.6	0.3	10.4	-0.3	1.3	7.7	-0.5	1.1	7.8	-0.3	0.8	6.3	-1.3	0.9	
		-2.2	0.1		-1.2	0.2		-1.1	0.3		-0.8	0.4		-3.3	0.4	
FC666L	13.8	0.0	2.0	11.9	0.1	1.2	8.9	0.1	0.9	8.6	0.0	0.6	10.1	0.2	0.7	
		0.1	0.7		0.3	0.2		0.1	0.3		0.0	0.3		0.5	0.3	
P7RC69	20.6	1.9	0.4	20.9	2.6	1.2	15.4	2.8	1.2	16.1	3.1	0.1	15.4	2.2	2.3	
		6.9	0.2		9.3	0.2		6.6	0.4		7.5	0.1		5.8	1.0	
96N7NM	12.5	-0.3		11.6	0.0		8.1	-0.3		8.2	-0.2	0.2	9.3	-0.1		
		-1.3	0.0		0.0	0.0		-0.7	0.0		-0.4	0.1		-0.3	0.0	
XBN6AL	7.4	-1.7	0.2	7.5	-1.2	0.2	6.9	-0.8	1.8	6.4	-0.9	2.4	7.3	-0.9	0.0	
		-6.3	0.1		-4.1	0.0		-1.9	0.5		-2.2	1.2		-2.3	0.0	
PZEKPF	14.3	0.2	1.6	13.1	0.4	0.6	8.8	0.0	0.5	9.0	0.2	0.5	9.6	0.0	0.5	
		0.6	0.6		1.5	0.1		0.0	0.1		0.4	0.2		0.0	0.2	
Grand Median		13.7		11.6			8.79			8.62			9.60			
Median Abs Dev		1.3		1.2			0.69			0.41			0.48			
Avg Within Lab SD		0.4		0.2			0.29			0.51			0.45			
Labs Included		7		7			7			7			7			
Labs Reporting		7		7			7			7			7			



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

CEC - Estimation (SubTestCode 185)	in the Other 1 Property Groups															Data units: cmol/kg
	SRS1401			SRS1402			SRS1403			SRS1404			SRS1405			
KKY4HM	13.4	0.6	1.8	9.1	0.0	0.0	7.6	-0.6	1.0	9.0	0.2	1.6	10.0	-0.5	1.0	
		1.7	1.5		-2.6	0.7		-2.1	0.6		0.4	0.6		-1.5	0.7	
LEBJDL	13.2	0.6	0.5	15.9	0.1	0.0	11.4	0.5	0.6	10.7	1.0	0.8	11.6	0.0	0.1	
		1.5	0.4		4.2	0.3		1.7	0.3		2.1	0.3		0.0	0.1	
8JTXZT	11.7	0.0	0.7	7.0	-0.1	0.0	6.3	-1.0	0.9	7.0	-0.8	0.0	8.0	-1.1	0.0	
		-0.1	0.6		-4.7	0.0		-3.4	0.6		-1.6	0.0		-3.6	0.0	
3AXLEP	12.2	0.2	0.2	7.5	-0.1	0.0	7.0	-0.8	0.2	7.8	-0.4	0.4	9.6	-0.6	0.2	
		0.5	0.2		-4.2	0.1		-2.8	0.2		-0.8	0.2		-2.0	0.1	
GRVM9A	10.2	-0.6	0.9	15.0	0.0	0.0	11.1	0.4	0.7	8.3	-0.1	0.1	11.7	0.0	0.5	
		-1.5	0.8		3.3	0.4		1.3	0.4		-0.3	0.1		0.1	0.3	
EHV3AC	10.2	-0.6	0.5	11.7	0.0	0.0	9.8	0.0	0.1	8.6	0.0	1.5	12.0	0.1	0.7	
		-1.6	0.5		0.0	0.3		0.0	0.1		0.0	0.6		0.4	0.5	
TB276K	4.2	-2.8	0.1	7.7	-0.1	0.0	4.7	-1.4	0.7	6.6	-1.0	0.4	7.3	-1.3	0.5	
		-7.6	0.1		-4.0	0.3		-5.0	0.4		-2.0	0.2		-4.3	0.3	
D7692N	13.6	0.7	0.3	11.9	0.0	0.0	12.6	0.8	0.6	12.5	1.9	0.4	17.7	1.9	1.7	
		1.8	0.3		0.2	0.3		2.8	0.4		3.9	0.2		6.1	1.2	
VJ8PJ2	11.7	0.0	1.9	412.0	5.7	3.0	11.9	0.6	2.3	10.1	0.7	1.7	13.2	0.5	2.0	
		0.0	1.6		400.3	692.8		2.1	1.4		1.5	0.7		1.6	1.4	
Grand Median		11.7		11.7			9.76			8.60			11.6			
Median Abs Dev		1.5		4.0			2.12			1.47			1.6			
Avg Within Lab SD		0.8		230.9			0.61			0.39			0.7			
Labs Included		9		9			9			9			9			
Labs Reporting		9		9			9			9			9			



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

Soil Density (Scoop) (SubTestCode 186)	in the Other 1 Property Groups												Data units: g/cc		
	SRS1401			SRS1402			SRS1403			SRS1404			SRS1405		
MBLU4T	1.24	0.02	0.30	1.58	0.22	0.14	1.61	0.28	0.77	1.67	0.41	0.39	1.57	0.00	0.79
		0.00	0.01		0.04	0.01		0.03	0.01		0.08	0.01		0.00	0.01
KKY4HM	1.23	0.00	0.63	1.55	0.00	0.25	1.65	0.75	0.37	1.59	0.00	0.24	1.59	0.28	0.75
		0.00	0.01		0.00	0.01		0.07	0.01		0.00	0.01		0.03	0.01
XBN6AL	1.12	-0.67	1.67	1.37	-1.04	2.07	1.55	-0.31	1.15	1.43	-0.83	2.05	1.50	-0.65	1.42
		-0.12	0.03		-0.18	0.08		-0.03	0.02		-0.16	0.05		-0.06	0.02
JUBP4K	1.34	0.61		1.56	0.08		1.58	0.00		1.69	0.51		1.61	0.44	
		0.11	0.00		0.01	0.00		0.00	0.00		0.10	0.00		0.04	0.00
6V7P2W	0.87	-2.07	1.32	1.20	-2.03	0.80	1.38	-2.04	1.72	1.28	-1.63	0.76	1.37	-2.01	1.33
		-0.36	0.03		-0.35	0.03		-0.20	0.03		-0.32	0.02		-0.20	0.02
Grand Median		1.23		1.55			1.58			1.59			1.57		
Median Abs Dev		0.11		0.04			0.03			0.10			0.04		
Avg Within Lab SD		0.02		0.04			0.02			0.03			0.01		
Labs Included		5		5			5			5			5		
Labs Reporting		5		5			5			5			5		



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

Sand 2000 - 50 um (SubTestCode 187)	in the Particle Size Analysis Property Groups														
	SRS1401			SRS1402			SRS1403			SRS1404			SRS1405		
	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
XQ6Y6J	16.3	-0.4	1.2	45.4	-1.3	3.6	81.7	0.7	1.4	47.1	0.7	1.1	82.1	0.3	2.4
		-2.1	2.5		-4.8	7.1		1.9	1.4		2.7	1.4		1.1	2.6
MBLU4T	16.0	-0.5		50.0	0.0		79.0	-0.3		42.0	-0.6		79.0	-0.6	
		-2.4	0.0		-0.2	0.0		-0.8	0.0		-2.4	0.0		-2.0	0.0
MM2LUN	16.0	-0.5		48.0	-0.6		76.0	-1.4		43.0	-0.3		72.0	-2.5	
		-2.4	0.0		-2.2	0.0		-3.8	0.0		-1.4	0.0		-9.0	0.0
KKY4HM	18.3	0.0	0.5	50.3	0.0	0.6	79.7	0.0	1.1	46.3	0.5	0.8	81.0	0.0	0.0
		0.0	1.2		0.2	1.2		-0.1	1.2		2.0	1.2		0.0	0.0
LEBJDL	18.4	0.0	1.2	52.4	0.6	1.8	80.4	0.2	2.5	52.4	2.0	3.3	85.7	1.3	3.5
		0.0	2.5		2.2	3.6		0.6	2.5		8.0	4.5		4.7	3.8
PDLGXA	21.1	0.5	0.4	49.2	-0.3	0.4	81.6	0.7	1.7	45.0	0.2	0.4	74.3	-1.9	0.1
		2.7	0.8		-1.0	0.7		1.8	1.7		0.6	0.5		-6.7	0.1
P7RC69	20.7	0.5	1.4	47.0	-0.9	0.9	78.0	-0.7		39.3	-1.3	0.8	79.7	-0.4	0.5
		2.3	3.1		-3.2	1.7		-1.8	0.0		-5.0	1.2		-1.3	0.6
C3CKCJ	22.0	0.7		52.7	0.7	0.6	82.7	1.1	1.1	46.0	0.4		86.0	1.4	
		3.6	0.0		2.5	1.2		2.9	1.2		1.6	0.0		5.0	0.0
3AXLEP	8.0	-2.1	0.2	40.8	-2.5	0.5	73.2	-2.4	0.2	37.3	-1.8	0.1	71.7	-2.6	0.4
		-10.4	0.5		-9.4	1.1		-6.6	0.2		-7.1	0.1		-9.3	0.5
GRVM9A	21.0	0.5		51.0	0.2		79.0	-0.3		45.0	0.2		81.0	0.0	
		2.6	0.0		0.8	0.0		-0.8	0.0		0.6	0.0		0.0	0.0
FKH4QJ	22.6	0.9	0.0	52.6	0.7	0.0	82.6	1.0	0.0	45.8	0.4	0.0	81.8	0.2	0.0
		4.2	0.0		2.4	0.0		2.8	0.0		1.4	0.0		0.8	0.0
47FVHT	18.0	-0.1		50.0	0.0		78.0	-0.7		41.0	-0.9		81.0	0.0	
		-0.4	0.0		-0.2	0.0		-1.8	0.0		-3.4	0.0		0.0	0.0
EHV3AC	13.9	-0.9		47.9	-0.6		79.9	0.0		39.9	-1.1		79.9	-0.3	
		-4.4	0.0		-2.2	0.0		0.1	0.0		-4.5	0.0		-1.1	0.0
DNJMGX	20.3	0.4	0.8	53.5	0.9	0.8	81.5	0.6	0.9	44.5	0.0	0.4	82.4	0.4	0.3
		2.0	1.7		3.3	1.5		1.7	1.0		0.2	0.6		1.4	0.3
4DBTA3	5.6	-2.6		47.1	-0.8		80.1	0.1		41.3	-0.8		80.0	-0.3	
		-12.8	0.0		-3.0	0.0		0.3	0.0		-3.1	0.0		-1.0	0.0
HZKKTN	22.7	0.9	3.9	52.0	0.5	1.0	79.3	-0.2	2.3	42.7	-0.4	1.7	81.3	0.1	1.1
		4.3	8.3		1.8	2.0		-0.5	2.3		-1.7	2.3		0.3	1.2
2Y3ZTZ	19.7	0.3	0.3	51.0	0.2	0.5	79.7	0.0	0.6	43.3	-0.3	2.2	81.3	0.1	1.1
		1.3	0.6		0.8	1.0		-0.1	0.6		-1.0	3.1		0.3	1.2
D6PWDR	19.0	0.1		55.7	1.5	0.6	81.0	0.4		47.0	0.7		83.0	0.6	
		0.6	0.0		5.5	1.2		1.2	0.0		2.6	0.0		2.0	0.0
4P7QD2	12.7	-1.2	0.7	47.3	-0.8	0.3	83.3	1.3	0.6	46.3	0.5	0.4	79.3	-0.5	0.5
		-5.7	1.5		-2.8	0.6		3.5	0.6		2.0	0.6		-1.7	0.6
PZEKPF	16.8	-0.3	0.1	53.5	0.9	0.6	81.7	0.7	0.2	47.3	0.7	0.3	81.7	0.2	0.1
		-1.6	0.2		3.3	1.2		1.9	0.2		2.9	0.4		0.7	0.2



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	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		
JUBP4K	12.1	-1.3		48.0	-0.6		76.0	-1.4		40.0	-1.1		78.0	-0.8	
		-6.3	0.0		-2.2	0.0		-3.8	0.0		-4.4	0.0		-3.0	0.0
6V7P2W	19.5	0.2	0.6	51.1	0.2	0.9	78.7	-0.4	1.1	44.2	0.0	0.6	79.5	-0.4	1.0
		1.1	1.4		0.9	1.7		-1.1	1.2		-0.2	0.8		-1.5	1.1
Grand Median		18.4			50.2			79.8			44.4			81.0	
Median Abs Dev		2.4			2.2			1.8			2.2			1.4	
Avg Within Lab SD		2.1			1.9			1.0			1.4			1.1	
Labs Included		22			22			22			22			22	
Labs Reporting		22			22			22			22			22	



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

Silt 50 - 2 um (SubTestCode 188)	in the Particle Size Analysis Property Groups															Data units: Percent
	SRS1401			SRS1402			SRS1403			SRS1404			SRS1405			
XQ6Y6J	71.3	0.4	1.0	40.8	0.9	3.0	9.2	-1.2	0.4	36.7	-0.8	1.8	10.0	-0.7	1.9	
		2.8	2.5		4.2	7.1		-2.8	0.7		-3.3	3.1		-1.9	2.5	
MBLU4T	72.0	0.5		38.0	0.3		15.0	1.2		42.0	0.5		15.0	1.1		
		3.5	0.0		1.4	0.0		3.0	0.0		2.0	0.0		3.1	0.0	
MM2LUN	61.0	-1.0		33.0	-0.8		15.0	1.2		34.0	-1.5		17.0	1.8		
		-7.5	0.0		-3.6	0.0		3.0	0.0		-6.0	0.0		5.1	0.0	
KKY4HM	65.7	-0.4	0.6	34.3	-0.5	0.9	11.7	-0.1	0.9	37.0	-0.7	0.6	10.3	-0.6	0.4	
		-2.8	1.5		-2.3	2.1		-0.3	1.5		-3.0	1.0		-1.6	0.6	
LEBJDL	75.3	0.9	2.0	36.7	0.0	0.5	14.0	0.8	3.3	36.7	-0.8	2.9	8.0	-1.4	3.1	
		6.8	5.0		0.1	1.2		2.0	5.3		-3.3	5.0		-3.9	4.0	
PDLGXA	59.3	-1.2	0.9	31.2	-1.2	0.3	11.5	-0.2	0.9	36.1	-1.0	0.5	13.8	0.6	0.5	
		-9.2	2.3		-5.4	0.7		-0.5	1.5		-3.9	0.8		1.9	0.6	
P7RC69	65.3	-0.4	1.0	38.0	0.3	0.7	13.0	0.4		43.7	0.9	0.7	13.0	0.4		
		-3.2	2.5		1.4	1.7		1.0	0.0		3.7	1.2		1.1	0.0	
C3CKCJ	65.3	-0.4	0.5	36.7	0.0	0.5	11.3	-0.3	0.7	40.0	0.0		12.0	0.0		
		-3.2	1.2		0.1	1.2		-0.7	1.2		0.0	0.0		0.1	0.0	
3AXLEP	75.3	0.9	0.3	40.1	0.8	0.1	14.1	0.8	0.1	38.8	-0.3	0.3	15.6	1.3	0.8	
		6.8	0.6		3.5	0.3		2.1	0.1		-1.2	0.5		3.7	1.0	
GRVM9A	70.0	0.2		40.0	0.7		12.0	0.0		42.0	0.5		10.0	-0.7		
		1.5	0.0		3.4	0.0		0.0	0.0		2.0	0.0		-1.9	0.0	
FKH4QJ	52.8	-2.1	0.0	24.8	-2.6	0.0	5.2	-2.8	0.0	33.6	-1.6	0.0	5.6	-2.2	0.0	
		-15.7	0.0		-11.8	0.0		-6.8	0.0		-6.4	0.0		-6.3	0.0	
47FVHT	67.0	-0.2		35.0	-0.4		13.0	0.4		42.0	0.5		10.0	-0.7		
		-1.5	0.0		-1.6	0.0		1.0	0.0		2.0	0.0		-1.9	0.0	
EHV3AC	70.0	0.2		34.0	-0.6		12.0	0.0		42.0	0.5		12.0	0.0		
		1.5	0.0		-2.6	0.0		0.0	0.0		2.0	0.0		0.1	0.0	
DNJMGX	75.9	1.0	0.6	42.1	1.2	0.5	11.9	0.0	0.3	42.6	0.6	0.2	11.5	-0.1	0.2	
		7.4	1.5		5.5	1.2		-0.1	0.4		2.6	0.4		-0.4	0.2	
4DBTA3	77.4	1.2		40.2	0.8		10.9	-0.5		40.8	0.2		11.9	0.0		
		8.9	0.0		3.6	0.0		-1.1	0.0		0.8	0.0		-0.1	0.0	
HZKKTN	62.7	-0.8	3.2	32.7	-0.9	1.7	12.3	0.1	1.4	40.0	0.0	2.3	11.0	-0.3	1.5	
		-5.8	8.1		-4.0	4.2		0.3	2.3		0.0	4.0		-0.9	2.0	
2Y3ZTZ	65.0	-0.5	0.4	37.0	0.1	1.5	11.0	-0.4	0.6	36.0	-1.0	1.0	11.3	-0.2	0.4	
		-3.5	1.0		0.4	3.6		-1.0	1.0		-4.0	1.7		-0.6	0.6	
D6PWDR	64.0	-0.6		25.3	-2.5	0.5	8.0	-1.6		34.0	-1.5		6.0	-2.1		
		-4.5	0.0		-11.3	1.2		-4.0	0.0		-6.0	0.0		-5.9	0.0	
4P7QD2	70.7	0.3	0.7	36.6	0.0	0.4	9.3	-1.1	0.0	37.0	-0.7	0.3	13.0	0.4	0.4	
		2.2	1.7		-0.1	1.0		-2.7	0.1		-3.0	0.5		1.0	0.6	
PZEKPF	73.4	0.7	0.0	36.6	0.0	0.5	12.7	0.3	0.2	40.2	0.0	0.2	12.9	0.3	0.1	
		4.9	0.1		-0.1	1.3		0.7	0.3		0.2	0.3		0.9	0.2	



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	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		
JUBP4K	73.9	0.7		38.0	0.3		14.0	0.8		44.0	1.0		12.0	0.0	
		5.4	0.0		1.4	0.0		2.0	0.0		4.0	0.0		0.1	0.0
6V7P2W	65.9	-0.4	1.9	36.3	-0.1	2.3	13.3	0.5	2.5	40.1	0.0	1.8	12.3	0.1	2.3
		-2.6	5.0		-0.4	5.5		1.3	4.1		0.1	3.2		0.4	3.0
Grand Median		68.5			36.6			12.0			40.0			11.9	
Median Abs Dev		4.0			2.5			1.1			2.8			1.3	
Avg Within Lab SD		2.6			2.4			1.6			1.8			1.3	
Labs Included		22			22			22			22			22	
Labs Reporting		22			22			22			22			22	



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

Clay 2 - 0 um (SubTestCode 189)	in the Particle Size Analysis Property Groups															Data units: Percent
	SRS1401			SRS1402			SRS1403			SRS1404			SRS1405			
XQ6Y6J	12.5	-0.5		13.8	-0.2		9.2	0.2	0.6	16.3	-0.2	1.7	7.9	-0.1	0.8	
		-2.3	0.0		-0.8	0.0		0.3	0.7		-0.6	2.2		-0.2	0.7	
MBLU4T	12.0	-0.6		12.0	-0.5		6.0	-1.3		16.0	-0.2		6.0	-0.8		
		-2.8	0.0		-2.5	0.0		-2.8	0.0		-0.8	0.0		-2.1	0.0	
MM2LUN	23.0	1.6		19.0	0.9		9.0	0.1		23.0	1.7		11.0	1.1		
		8.2	0.0		4.5	0.0		0.2	0.0		6.2	0.0		2.9	0.0	
KKY4HM	16.0	0.2	1.2	15.3	0.2	1.0	8.7	-0.1	0.5	16.7	0.0	0.4	8.7	0.2	0.6	
		1.2	1.7		0.8	1.5		-0.2	0.6		-0.2	0.6		0.5	0.6	
LEBJDL	6.3	-1.7	2.6	10.9	-0.7	1.9	5.6	-1.5	2.8	10.9	-1.7	2.8	6.3	-0.7	0.7	
		-8.6	3.9		-3.6	2.9		-3.2	3.2		-5.9	3.6		-1.9	0.6	
PDLGXA	19.6	1.0	1.6	19.6	1.0	0.9	6.9	-0.9	1.1	18.9	0.6	1.1	11.9	1.4	0.6	
		4.8	2.4		5.1	1.4		-1.9	1.3		2.0	1.4		3.7	0.5	
P7RC69	14.0	-0.2	0.7	15.0	0.1		9.0	0.1		17.0	0.0		7.3	-0.3	0.6	
		-0.8	1.0		0.5	0.0		0.2	0.0		0.2	0.0		-0.8	0.6	
C3CKCJ	12.7	-0.4	0.8	10.7	-0.8	0.7	6.0	-1.3		14.0	-0.8		2.0	-2.2		
		-2.2	1.2		-3.8	1.2		-2.8	0.0		-2.8	0.0		-6.1	0.0	
3AXLEP	16.7	0.4	0.1	19.2	1.0	0.9	12.7	1.8	0.1	23.9	2.0	0.4	12.7	1.7	1.0	
		1.9	0.1		4.7	1.3		3.9	0.1		7.1	0.6		4.6	0.9	
GRVM9A	9.0	-1.2		9.0	-1.1		9.0	0.1		13.0	-1.1		9.0	0.3		
		-5.8	0.0		-5.5	0.0		0.2	0.0		-3.8	0.0		0.9	0.0	
FKH4QJ	24.6	2.0	0.0	22.6	1.7	0.0	12.2	1.6	0.0	20.6	1.1	0.0	12.6	1.6	0.0	
		9.8	0.0		8.1	0.0		3.4	0.0		3.8	0.0		4.5	0.0	
47FVHT	15.0	0.0		15.0	0.1		9.0	0.1		17.0	0.0		9.0	0.3		
		0.2	0.0		0.5	0.0		0.2	0.0		0.2	0.0		0.9	0.0	
EHV3AC	16.1	0.3		18.1	0.7		8.1	-0.3		18.1	0.4		8.1	0.0		
		1.2	0.0		3.6	0.0		-0.8	0.0		1.2	0.0		0.0	0.0	
DNJMGX	3.8	-2.2	0.1	4.4	-2.1	0.2	6.6	-1.0	0.9	12.9	-1.1	0.2	6.1	-0.7	0.2	
		-11.0	0.1		-10.1	0.4		-2.3	1.0		-4.0	0.2		-2.0	0.2	
4DBTA3	17.0	0.4		12.6	-0.4		9.0	0.1		17.9	0.3		8.2	0.0		
		2.2	0.0		-1.9	0.0		0.2	0.0		1.0	0.0		0.0	0.0	
HZKKTN	14.7	0.0	0.8	15.3	0.2	1.5	8.3	-0.3	2.1	17.3	0.1	1.8	7.7	-0.2	3.4	
		-0.2	1.2		0.8	2.3		-0.6	2.4		0.5	2.3		-0.5	3.0	
2Y3ZTZ	15.3	0.1	0.4	12.0	-0.5	1.9	9.3	0.2	0.5	20.7	1.1	1.2	7.3	-0.3	0.6	
		0.5	0.6		-2.5	3.0		0.5	0.6		3.8	1.5		-0.8	0.6	
D6PWDR	17.0	0.4		19.0	0.9		11.0	1.0		19.0	0.6		11.0	1.1		
		2.2	0.0		4.5	0.0		2.2	0.0		2.2	0.0		2.9	0.0	
4P7QD2	16.7	0.4	0.3	16.1	0.3	0.3	7.4	-0.7	0.5	16.7	0.0	0.4	7.7	-0.2	0.0	
		1.8	0.5		1.6	0.5		-1.4	0.5		-0.2	0.5		-0.4	0.0	
PZEKPF	9.9	-1.0	0.2	10.0	-0.9	0.1	5.7	-1.5	0.3	12.5	-1.2	0.3	5.4	-1.0	0.2	
		-5.0	0.2		-4.5	0.2		-3.2	0.3		-4.3	0.3		-2.7	0.2	



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	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		
JUBP4K	14.0	-0.2		14.0	-0.1		10.0	0.5		16.0	-0.2		10.0	0.7	
		-0.8	0.0		-0.5	0.0		1.2	0.0		-0.8	0.0		1.9	0.0
6V7P2W	14.7	0.0	2.5	12.7	-0.4	2.5	8.1	-0.4	2.6	15.7	-0.3	2.2	8.2	0.0	2.6
		-0.2	3.7		-1.8	3.8		-0.8	2.9		-1.1	2.8		0.1	2.3
Grand Median		14.8			14.5			8.83			16.8			8.12	
Median Abs Dev		2.2			3.0			0.97			1.6			1.37	
Avg Within Lab SD		1.5			1.5			1.14			1.3			0.89	
Labs Included		22			22			22			22			22	
Labs Reporting		22			22			22			22			22	



ALP Program - Participant Web Summary Report - Cycle 23

Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

Total Soil P (EPA-3050/3051/3052) (SubTestCode 190) in the Other 2 Property Groups										Data units: mg/kg
	SRS1401		SRS1402		SRS1403		SRS1404		SRS1405	
999DPV	450.0	1.0 4.8	1,270.4	1.0 17.3	353.8	1.0 3.1	330.8	1.0 29.9	284.0	1.0 4.8
Grand Median	450.0		1,270.4		353.8		330.8		284.0	
Median Abs Dev										
Avg Within Lab SD	4.8		17.3		3.1		29.9		4.8	
Labs Included	1		1		1		1		1	
Labs Reporting	1		1		1		1		1	



ALP Program - Participant Web Summary Report - Cycle 23

Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

	Solvita CO2 Soil Respiration Test (SubTestCode 191) in the Other 2 Property Groups						Data units: mg/kg								
	SRS1401		SRS1402		SRS1403		SRS1404		SRS1405						
MBLU4T	3.6	-1.2 -39.6 0.5	0.0 0.1	2.7	-1.3 -21.9 1.5	0.1 0.2	1.0	-0.6 -3.7 1.7	0.0 0.0	0.9	-1.0 -5.6 1.4	0.0 0.0	2.0	-0.9 -16.6 1.6	0.1 0.1
MM2LUN	59.7	16.6 0.7	0.0 0.1	50.0	25.5 0.9	0.0 0.0	14.6	9.9 0.6	0.0 0.1	14.0	7.5 0.4	0.0 0.1	50.0	31.5 0.9	0.0 0.1
PN6V2C	65.5	22.4 0.0	0.5 1.0	39.9	15.4 0.7	0.1 0.4	8.5	3.8 1.6	0.1 3.0	8.6	2.1 1.5	0.1 2.5	36.4	17.8 0.5	0.2 1.5
GRVM9A	43.6	0.5 0.6	5.9 0.0	36.1	11.5 0.0	1.3 0.0	14.3	9.5 -0.1	2.6 0.0	14.8	8.3 -0.1	1.4 0.0	27.7	9.2 0.2	2.2 0.0
UAAAE7	62.7	19.5 1.6	0.0 2.6	24.2	-0.4 -0.5	0.0 1.3	3.9	-0.8 -0.4	0.0 0.2	6.2	-0.3 -0.7	0.0 0.6	22.1	3.5 -0.6	0.0 2.1
96N7NM	97.9	54.7 -1.2	15.5 0.0	16.7	-7.9 -1.4	4.2 0.0	2.5	-2.3 -0.7	0.2 0.0	2.9	-3.6 -1.1	0.3 0.0	7.7	-10.9 -0.9	3.0 0.0
FHRYXC	2.4	-40.8 -0.8	0.0 0.3	1.7	-22.9 0.0	0.0 1.5	0.7	-4.0 0.0	0.0 0.3	0.6	-5.9 -0.5	0.0 0.6	1.7	-16.8 -0.3	0.0 0.8
GQ3LL8	17.3	-25.9 0.0	1.8 1.2	25.4	0.8 0.0	4.6 2.3	4.7	-0.1 1.0	0.3 0.8	3.9	-2.6 0.1	0.3 1.7	12.3	-6.3 0.7	1.2 1.4
TB276K	42.7	-0.5 -0.3	7.0 0.7	24.9	0.4 -0.3	7.0 0.9	10.5	5.8 0.0	0.7 0.1	6.9	0.5 0.1	0.9 0.6	31.2	12.7 -0.2	2.1 0.7
YLNT44	34.2	-9.0	3.9	20.3	-4.3	2.8	4.8	0.1	0.1	6.8	0.3	0.3	15.0	-3.5	1.0
Grand Median		43.2		24.6			4.73			6.47			18.6		
Median Abs Dev		21.0		9.7			3.77			3.09			11.8		
Avg Within Lab SD		5.8		3.1			0.87			0.57			1.4		
Labs Included		10		10			10			10			10		
Labs Reporting		10		10			10			10			10		



ALP Program - Participant Web Summary Report - Cycle 23

Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

Soil Nitrogen Mineralization Potential (SubTestCode 192)	in the Other 2 Property Groups										Data units: mg/kg
	SRS1401		SRS1402		SRS1403		SRS1404		SRS1405		
MBLU4T	46.3	1.1	21.8	0.5	4.8	0.1	4.4	0.1	11.4	0.0	
		6.0		3.2		0.2		0.1		0.8	
TB276K	70.3	0.9	187.3	1.3	78.7	1.4	132.5	1.4	177.5	1.4	
		4.5		9.1		5.2		2.3		29.8	
Grand Median	58.3		104.6		41.7		68.5		94.5		
Median Abs Dev											
Avg Within Lab SD	5.3		6.8		3.7		1.6		21.1		
Labs Included	2		2		2		2		2		
Labs Reporting	2		2		2		2		2		



ALP Program - Participant Web Summary Report - Cycle 23

Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

Illinois Lime Requirement (SubTestCode 193)	in the Other 2 Property Groups								Data units: ton/acre	
	SRS1401		SRS1402		SRS1403		SRS1404		SRS1405	
MBLU4T	4.0		11.3	1.4	10.3	1.0	19.3	1.0	12.7	1.0
		0.0		0.6		0.6		0.6		0.6
ETYBXN	4.3		10.0	0.0	8.3	1.0	17.7	1.0	12.7	1.0
		1.0		0.0		0.6		0.6		0.6
Grand Median	4.17		10.7		9.33		18.5		12.7	
Median Abs Dev										
Avg Within Lab SD	0.58		0.4		0.58		0.6		0.6	
Labs Included	2		2		2		2		2	
Labs Reporting	2		2		2		2		2	



ALP Program - Participant Web Summary Report - Cycle 23

Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		

DTPA-sorbitol extractable S (SubTestCode 194)	in the Other 2 Property Groups								Data units: mg/kg	
SRS1401	SRS1402		SRS1403		SRS1404		SRS1405		SRS1405	
MBLU4T	1.0	0.0	65.7	1.0 2.1	5.7	1.0 0.6	4.0	1.0 1.0	4.7	1.0 0.6
Grand Median	1.00		65.7		5.67		4.00		4.67	
Median Abs Dev										
Avg Within Lab SD	0.00		2.1		0.58		1.00		0.58	
Labs Included	1		1		1		1		1	
Labs Reporting	1		1		1		1		1	



ALP Program - Participant Web Summary Report - Cycle 23

Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD			Difference W/L STD		



ALP Program - Participant Web Summary Report - Cycle 23

Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

Dry Matter (%) (SubTestCode 201)										Data units: Percent
	SRB1401			SRB1402			SRB1403			
XQ6Y6J	90.7	0.0	0.0	93.3	0.0	0.1	92.9	0.0	0.0	
		0.0	0.0		-0.1	0.0		-0.5	0.0	
MBLU4T	90.6	0.0	0.0	93.2	0.0	0.0	93.4	0.0	0.0	
		-0.1	0.0		-0.2	0.0		0.0	0.0	
MM2LUN	90.7	0.0	0.1	93.4	0.0	0.2	73.1	-1.5	3.5	
		0.0	0.0		0.1	0.0		-20.3	34.7	
XNEVBC	91.9	0.1	0.0	93.9	0.0	0.1	93.5	0.0	0.0	
		1.2	0.0		0.5	0.0		0.1	0.0	
VFBYEB	90.7	0.0	0.2	93.3	0.0	0.8	93.1	0.0	0.0	
		0.0	0.1		0.0	0.2		-0.3	0.1	
3PWDKZ	90.3	0.0	0.0	92.2	-0.1	0.0	92.7	-0.1	0.0	
		-0.4	0.0		-1.2	0.0		-0.7	0.0	
RJ7JU6	92.2	0.1	0.0	94.6	0.1	0.0	95.2	0.1	0.0	
		1.5	0.0		1.2	0.0		1.8	0.0	
EHV3AC	91.4	0.1	0.0	93.9	0.0	0.2	94.5	0.1	0.0	
		0.7	0.0		0.5	0.0		1.1	0.0	
ZKNFUF	8.2	-7.4	1.2	7.5	-7.7	0.6	6.5	-6.2	0.0	
		-82.5	0.5		-85.9	0.2		-86.9	0.2	
999DPV	90.5	0.0	0.4	93.4	0.0	0.3	93.4	0.0	0.0	
		-0.1	0.2		0.0	0.1		0.0	0.1	
99PAHV	93.6	0.3	3.2	94.3	0.1	3.3	94.4	0.1	0.0	
		2.9	1.3		0.9	0.8		1.0	0.0	
4872WX	90.3	0.0		93.4	0.0		93.5	0.0		
		-0.4	0.0		0.0	0.0		0.1	0.0	
Grand Median	90.7			93.4			93.4			
Median Abs Dev	0.4			0.3			0.6			
Avg Within Lab SD	0.4			0.3			10.0			
Labs Included	12			12			12			
Labs Reporting	12			12			12			



ALP Program - Participant Web Summary Report - Cycle 23

Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

NO3 - N Cd Rd. (SubTestCode 202) Data units: mg/kg									
	SRB1401			SRB1402			SRB1403		
XQ6Y6J	1,136.5	0.2	0.1	20,424.8	0.0	0.3	54.2	0.0	0.0
		25.8	4.9		247.8	243.5		-3.1	0.2
X8RE9F	1,089.0	-0.2	1.1	18,266.0	-0.1	0.3	762.0	3.4	1.7
		-21.7	59.8		-1,911.0	330.9		704.7	39.6
MM2LUN	1,110.7	0.0	0.4	19,279.0	0.0	0.5	47.3	0.0	0.2
		0.0	23.0		-898.0	475.2		-10.0	4.7
LEBJDL	1,008.3	-0.7	0.6	18,866.7	0.0	0.2	58.0	0.0	0.2
		-102.3	32.5		-1,310.3	152.8		0.7	4.4
VFBYEB	1,176.0	0.5	1.3	20,177.0	0.0	0.0	57.3	0.0	0.0
		65.3	66.1		0.0	7.5		0.0	0.6
ETYBXN	1,094.3	-0.1	0.0	18,651.0	-0.1	0.0	160.0	0.5	0.1
		-16.3	0.6		-1,526.0	10.1		102.7	2.0
T3CD22	885.9	-1.6	0.6	18,888.7	0.0	0.8	50.6	0.0	0.6
		-224.8	34.1		-1,288.3	755.6		-6.7	13.2
ADE96P	1,026.7	-0.6	0.2	20,933.3	0.0	0.4	60.7	0.0	0.7
		-84.0	11.5		756.3	351.2		3.3	15.7
96N7NM	1,350.0	1.7	2.4	21,823.3	0.1	0.7	54.0	0.0	0.3
		239.3	125.3		1,646.3	650.7		-3.3	6.6
FHRYXC	1,280.0	1.2	0.5	20,341.0	0.0	0.1	603.0	2.6	2.8
		169.3	24.2		164.0	100.6		545.7	63.6
HZKKTN	1,063.3	-0.3	1.6	12,966.7	-0.3	0.9	12.8	-0.2	0.1
		-47.3	83.9		-7,210.3	873.7		-44.6	2.2
999DPV	1,175.0	0.5	0.3	22,206.8	0.1	0.2	41.3	-0.1	0.3
		64.4	14.1		2,029.8	193.2		-16.0	6.6
99PAHV	1,253.7	1.0	0.7	233,625.6	8.1	3.2	454.1	1.9	1.0
		143.0	38.9		213,448.6	3,067.5		396.8	23.0
Grand Median	1,110.7			20,177.0			57.3		
Median Abs Dev	65.3			1,310.3			10.0		
Avg Within Lab SD	52.5			950.9			22.7		
Labs Included	13			13			13		
Labs Reporting	13			13			13		



ALP Program - Participant Web Summary Report - Cycle 23

Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

NO3 - N ISE (SubTestCode 203)	Data units: mg/kg								
	SRB1401			SRB1402			SRB1403		
MBLU4T	1,180.0	-0.2	0.3	19,300.0	0.0		363.3	0.6	0.5
		-56.7	17.3		0.0	0.0		46.6	10.4
XNEVBC	1,183.1	-0.2	0.0	20,423.3	1.1	0.2	323.2	0.1	0.2
		-53.6	1.4		1,123.3	61.2		6.4	3.8
FC666L	1,828.3	2.3	1.6				310.3	-0.1	2.0
		591.7	90.1					-6.4	43.4
3AXLEP	1,213.3	-0.1	0.4	18,733.3	-0.5	0.2	228.0	-1.2	0.2
		-23.3	23.1		-566.7	57.7		-88.8	4.6
U6T2RR	1,260.0	0.1	1.8	17,666.7	-1.5	2.0	170.0	-1.9	1.2
		23.3	104.4		-1,633.3	763.8		-146.8	26.0
QWWVMG	1,529.0	1.1		19,580.0	0.3		330.0	0.2	
		292.3	0.0		280.0	0.0		13.2	0.0
Grand Median		1,236.7		19,300.0			316.8		
Median Abs Dev		55.1		566.7			29.9		
Avg Within Lab SD		57.5		384.2			21.2		
Labs Included		6		5			6		
Labs Reporting		6		5			6		



ALP Program - Participant Web Summary Report - Cycle 23

Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

NO3 - N Oth. (SubTestCode 204)	Data units: mg/kg							
	SRB1401		SRB1402		SRB1403			
FC666L			17,460.0	1.2				
				1,002.4				
RJ7JU6	1,127.0	1.0	17,908.0	0.7	75.3	1.0		
		84.0		621.5		4.7		
Grand Median	1,127.0		17,684.0		75.3			
Median Abs Dev								
Avg Within Lab SD	84.0		834.0		4.7			
Labs Included	1		2		1			
Labs Reporting	1		2		1			



ALP Program - Participant Web Summary Report - Cycle 23

Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

NH4-N (SubTestCode 205)							Data units: mg/kg
	SRB1401		SRB1402		SRB1403		
VFBYEB	32.7	0.3	32.0	1.0	18.7	1.2	
		0.6		2.0		2.1	
		1.4		1.0		0.7	
999DPV	909.6	2.6	164.5	2.2	349.6	1.2	
Grand Median	471.1		98.2		184.1		
Median Abs Dev							
Avg Within Lab SD	1.9		2.1		1.7		
Labs Included	2		2		2		
Labs Reporting	2		2		2		



ALP Program - Participant Web Summary Report - Cycle 23

Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

PO4 - P (SubTestCode 206) Data units: mg/kg									
	SRB1401			SRB1402			SRB1403		
MBLU4T	3,186.7	0.1	1.4	1,783.3	-0.1	0.6	1,866.7	0.3	0.9
		50.0	51.3		-36.7	35.1		80.3	30.6
X8RE9F	2,898.0	-0.5	0.7	1,657.7	-0.4	0.2	1,765.0	-0.1	0.2
		-238.7	27.6		-162.3	15.2		-21.3	8.7
LEBJDL	3,086.7	-0.1	0.4	1,773.3	-0.1	0.8	1,776.7	0.0	1.7
		-50.0	15.3		-46.7	50.3		-9.7	58.6
VFBYEB	3,956.0	1.9	1.6	2,586.0	1.9	1.5	2,282.0	1.9	0.5
		819.3	58.4		766.0	92.8		495.7	16.7
ETYBXN	3,188.0	0.1	0.0	1,926.3	0.3	0.0	1,796.0	0.0	0.2
		51.3	1.0		106.3	1.5		9.7	5.3
FC666L	2,800.0	-0.8		1,433.3	-0.9	1.8	1,466.7	-1.2	1.6
		-336.7	0.0		-386.7	115.5		-319.7	57.7
T3CD22	2,805.6	-0.8	0.3	1,565.9	-0.6	1.2	1,609.5	-0.7	0.9
		-331.0	10.0		-254.1	74.0		-176.8	32.5
3AXLEP	3,026.7	-0.3	2.0	1,856.7	0.1	1.2	1,770.0	-0.1	0.8
		-110.0	76.4		36.7	73.7		-16.3	26.5
FHRYXC	3,202.3	0.2	0.6	1,869.0	0.1	0.1	1,863.0	0.3	0.2
		65.7	22.0		49.0	8.7		76.7	7.5
99PAHV	4,033.1	2.1	0.6	2,753.7	2.3	0.9	2,369.3	2.2	1.4
		896.5	23.2		933.7	55.3		583.0	49.2
Grand Median		3,136.7		1,820.0			1,786.3		
Median Abs Dev		174.3		134.3			78.5		
Avg Within Lab SD		37.4		63.2			35.1		
Labs Included		10		10			10		
Labs Reporting		10		10			10		



ALP Program - Participant Web Summary Report - Cycle 23

Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

SO4 - S (SubTestCode 207)							Data units: mg/kg
	SRB1401		SRB1402		SRB1403		
MBLU4T	930.0	0.0	1,160.0	0.0	190.0	0.0	
XNEVBC	866.0	0.4	1,088.0	0.8	568.9	0.5	
99PAHV	1,168.0	1.4	1,545.9	1.1	792.7	1.3	
	18.7		17.7		17.4		
Grand Median	930.0		1,160.0		568.9		
Median Abs Dev							
Avg Within Lab SD	13.7		15.5		13.3		
Labs Included	3		3		3		
Labs Reporting	3		3		3		



ALP Program - Participant Web Summary Report - Cycle 23

Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

CI (SubTestCode 208)	Data units: Percent								
	SRB1401			SRB1402			SRB1403		
MBLU4T	0.43	0.33	0.00	2.35	-0.61	0.09	0.45	1.00	0.00
		0.02	0.00		-0.21	0.02		0.06	0.00
MM2LUN	0.40	-0.07	1.95	2.64	0.22	0.14	0.37	-0.28	0.34
		0.00	0.05		0.08	0.03		-0.02	0.01
LEBJDL	0.44	0.43	2.12	2.56	0.00	2.15	0.42	0.45	1.49
		0.03	0.05		0.00	0.41		0.03	0.03
VFBYEB	0.49	1.24	0.42	2.49	-0.20	0.03	0.50	1.90	1.49
		0.08	0.01		-0.07	0.01		0.11	0.03
RJ7JU6	0.39	-0.33	0.24	2.44	-0.36	0.26	0.37	-0.39	0.90
		-0.02	0.01		-0.13	0.05		-0.02	0.02
T3CD22	0.37	-0.53	0.64	2.69	0.36	0.35	0.37	-0.35	0.50
		-0.03	0.02		0.13	0.07		-0.02	0.01
ADE96P	0.44	0.48	0.00	2.03	-1.50	1.53	0.39	0.00	0.00
		0.03	0.00		-0.53	0.29		0.00	0.00
96N7NM	0.59	2.76	1.42	2.68	0.34	1.68	0.39	0.01	1.37
		0.18	0.03		0.12	0.32		0.00	0.02
999DPV	0.41	0.00	0.05	2.62	0.17	0.44	0.36	-0.43	0.08
		0.00	0.00		0.06	0.08		-0.03	0.00
99PAHV	0.40	-0.05	0.18	3.31	2.12	0.88	0.45	0.94	1.87
		0.00	0.00		0.75	0.17		0.06	0.03
6V7P2W	0.33	-1.19		2.02	-1.54		0.29	-1.69	
		-0.08	0.00		-0.54	0.00		-0.10	0.00
Grand Median		0.41			2.56			0.39	
Median Abs Dev		0.03			0.13			0.03	
Avg Within Lab SD		0.02			0.19			0.02	
Labs Included		11			11			11	
Labs Reporting		11			11			11	



ALP Program - Participant Web Summary Report - Cycle 23

Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

TKN (SubTestCode 209)	Data units: Percent								
	SRB1401			SRB1402			SRB1403		
MBLU4T	1.01	0.00	0.16	2.79	0.46	0.30	2.66	-0.63	0.32
		0.00	0.01		0.17	0.05		-0.10	0.03
X8RE9F	0.92	-0.71	2.57	2.62	0.00	1.41	2.82	0.42	0.33
		-0.09	0.18		0.00	0.22		0.06	0.03
LEBJDL	0.86	-1.22	0.67	2.72	0.27	0.81	2.75	0.00	1.07
		-0.16	0.05		0.10	0.13		0.00	0.10
3PWDKZ	0.97	-0.31	0.17	2.52	-0.27	0.11	2.63	-0.78	0.27
		-0.04	0.01		-0.10	0.02		-0.12	0.03
T3CD22	1.09	0.56	0.58	3.90	3.47	0.23	2.85	0.62	1.30
		0.07	0.04		1.28	0.04		0.10	0.12
EHV3AC	1.06	0.36	0.88	2.40	-0.59	2.39	2.94	1.21	2.38
		0.05	0.06		-0.22	0.38		0.19	0.23
QWWVMG	1.20	1.44		2.70	0.22		2.60	-1.00	
		0.19	0.00		0.08	0.00		-0.15	0.00
HZKKTN	0.92	-0.75	0.85	2.43	-0.52	0.34	2.65	-0.65	0.40
		-0.10	0.06		-0.19	0.05		-0.10	0.04
999DPV	1.11	0.73	0.28	2.52	-0.27	0.61	2.87	0.76	0.28
		0.09	0.02		-0.10	0.10		0.12	0.03
Grand Median		1.01			2.62			2.75	
Median Abs Dev		0.09			0.10			0.10	
Avg Within Lab SD		0.07			0.16			0.09	
Labs Included		9			9			9	
Labs Reporting		9			9			9	



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

N- Dry Comb. (SubTestCode 210)	Data units: Percent								
	SRB1401			SRB1402			SRB1403		
XQ6Y6J	3.18	8.50	0.82	3.08	-3.55	0.15	3.10	2.05	0.37
		2.11	0.02		-0.80	0.01		0.32	0.01
MM2LUN	1.13	0.22	0.23	4.05	0.76	0.66	2.92	0.89	0.17
		0.06	0.01		0.17	0.03		0.14	0.01
XNEVBC	1.10	0.11	0.16	3.68	-0.88	0.63	2.71	-0.44	1.03
		0.03	0.00		-0.20	0.02		-0.07	0.04
VFBYEB	1.07	-0.02	1.01	3.88	-0.01	0.38	2.78	0.03	1.16
		-0.01	0.03		0.00	0.02		0.01	0.04
FC666L	1.07	-0.03	0.50	3.86	-0.08	0.52	2.85	0.46	0.29
		-0.01	0.01		-0.02	0.02		0.07	0.01
RJ7JU6	0.93	-0.56	2.32	3.80	-0.36	0.00	2.70	-0.50	0.00
		-0.14	0.06		-0.08	0.00		-0.08	0.00
3AXLEP	0.87	-0.82	1.23	4.07	0.85	0.66	2.86	0.55	0.92
		-0.21	0.03		0.19	0.03		0.09	0.03
ADE96P	1.11	0.15	0.00	3.98	0.46	0.15	2.91	0.82	0.17
		0.04	0.00		0.10	0.01		0.13	0.01
96N7NM	0.99	-0.33	1.84	3.77	-0.51	1.26	2.73	-0.33	1.47
		-0.08	0.05		-0.11	0.05		-0.05	0.05
FHRYXC	1.06	-0.05	0.40	3.95	0.31	0.75	2.76	-0.14	0.17
		-0.01	0.01		0.07	0.03		-0.02	0.01
HXTN39	0.98	-0.37	0.28	3.80	-0.34	1.13	2.71	-0.42	0.44
		-0.09	0.01		-0.08	0.05		-0.07	0.02
EHV3AC	1.30	0.92	0.87	4.16	1.26	1.51	3.03	1.59	0.36
		0.23	0.02		0.28	0.06		0.25	0.01
U6T2RR	1.02	-0.22	0.46	3.77	-0.48	0.38	2.76	-0.12	0.50
		-0.06	0.01		-0.11	0.02		-0.02	0.02
QGZJCR	1.09	0.07		3.94	0.27		2.76	-0.12	
		0.02	0.00		0.06	0.00		-0.02	0.00
ZKNFUF	1.16	0.37	0.36	4.01	0.56	0.45	3.08	1.95	0.65
		0.09	0.01		0.13	0.02		0.30	0.02
QXMYFN	1.08	0.02	0.61	3.88	0.01	2.28	2.77	-0.03	0.83
		0.01	0.02		0.00	0.09		-0.01	0.03
6W8FD7	1.06	-0.03	0.29	3.86	-0.09	0.79	2.74	-0.27	0.12
		-0.01	0.01		-0.02	0.03		-0.04	0.00
TMGXVF	1.02	-0.22	2.35	3.82	-0.28	2.03	2.75	-0.20	2.93
		-0.06	0.06		-0.06	0.08		-0.03	0.10
999DPV	1.12	0.21	0.51	4.23	1.57	1.19	2.99	1.39	1.99
		0.05	0.01		0.35	0.05		0.22	0.07
99PAHV	1.14	0.27	0.30	4.07	0.87	0.90	2.96	1.18	0.25
		0.07	0.01		0.19	0.04		0.18	0.01



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	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD		
Grand Median		1.07		3.88			2.78		
Median Abs Dev		0.06		0.11			0.07		
Avg Within Lab SD		0.02		0.04			0.03		
Labs Included		20		20			20		
Labs Reporting		20		20			20		



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

P (SubTestCode 212)	in the Wet Digestion Property Groups									Data units: Percent
	SRB1401			SRB1402			SRB1403			
XQ6Y6J	0.42	0.35	2.52	0.36	0.54	0.64	0.32	0.59	0.29	
		0.02	0.03		0.02	0.01		0.02	0.01	
MBLU4T	0.39	-0.08	0.34	0.32	-0.25	0.19	0.28	-0.63	0.25	
		0.00	0.00		-0.01	0.00		-0.02	0.01	
X8RE9F	0.37	-0.38	0.16	0.32	-0.16	0.22	0.28	-0.47	0.34	
		-0.02	0.00		-0.01	0.00		-0.02	0.01	
MM2LUN	0.44	0.82	1.50	0.36	0.64	0.31	0.32	0.69	0.56	
		0.05	0.02		0.03	0.00		0.02	0.01	
22R3Z9	0.37	-0.50	0.44	0.32	-0.32	1.02	0.29	-0.29	0.65	
		-0.03	0.01		-0.01	0.01		-0.01	0.02	
LEBJDL	0.38	-0.28	0.45	0.33	0.00	1.21	0.29	-0.18	0.11	
		-0.02	0.01		0.00	0.01		-0.01	0.00	
VFBYEB	0.40	0.08	0.77	0.34	0.27	1.34	0.30	0.00	0.24	
		0.00	0.01		0.01	0.02		0.00	0.01	
ETYBXN	0.35	-0.73	0.44	0.29	-0.99	0.51	0.25	-1.26	0.24	
		-0.04	0.01		-0.04	0.01		-0.04	0.01	
FC666L	0.43	0.52	0.12	0.38	1.12	0.31	0.32	0.59	0.08	
		0.03	0.00		0.05	0.00		0.02	0.00	
RJ7JU6	0.43	0.66	0.44	0.37	0.87	0.00	0.32	0.68	0.42	
		0.04	0.01		0.04	0.00		0.02	0.01	
T3CD22	0.40	0.00	0.98	0.33	0.00	0.58	0.30	0.18	0.52	
		0.00	0.01		0.00	0.01		0.01	0.01	
ADE96P	0.34	-0.90	0.44	0.30	-0.69	0.88	0.26	-1.16	0.24	
		-0.05	0.01		-0.03	0.01		-0.04	0.01	
96N7NM	0.40	0.02	0.44	0.33	-0.02	0.88	0.30	0.00	0.24	
		0.00	0.01		0.00	0.01		0.00	0.01	
FHRYXC	0.41	0.25	1.33	0.35	0.35	1.02	0.31	0.48	0.88	
		0.01	0.02		0.02	0.01		0.02	0.02	
HXTN39	0.39	-0.10	0.12	0.32	-0.22	0.40	0.29	-0.22	0.11	
		-0.01	0.00		-0.01	0.00		-0.01	0.00	
EHV3AC	0.39	-0.09	0.77	0.32	-0.17	1.02	0.30	0.00	0.24	
		-0.01	0.01		-0.01	0.01		0.00	0.01	
U6T2RR	0.39	-0.03	0.88	0.32	-0.17	1.02	0.29	-0.29	0.24	
		0.00	0.01		-0.01	0.01		-0.01	0.01	
ZKNFUF	0.38	-0.18	0.50	0.32	-0.35	0.32	0.28	-0.54	0.12	
		-0.01	0.01		-0.02	0.00		-0.02	0.00	
6W8FD7	0.38	-0.20	0.69	0.32	-0.16	0.37	0.29	-0.15	0.31	
		-0.01	0.01		-0.01	0.00		-0.01	0.01	
TMGXVF	0.43	0.54	2.34	0.37	0.79	1.02	0.32	0.58	0.24	
		0.03	0.03		0.04	0.01		0.02	0.01	



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	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD		Difference W/L STD		Difference W/L STD		Difference W/L STD		
HZKKTN	0.39	-0.15	0.44	0.32	-0.17	0.51	0.29	-0.19	0.42
999DPV	0.46	-0.01	0.01	0.37	-0.01	0.01	0.33	-0.01	0.01
99PAHV	0.86	1.03	0.23	0.61	0.90	1.09	0.49	0.93	0.07
4872WX	0.45	0.06	0.00	0.38	0.04	0.01	0.33	0.03	0.00
6V7P2W	0.40	8.07	1.91	0.35	6.19	3.37	0.29	5.74	4.68
		0.47	0.02		0.28	0.04		0.20	0.11
		0.88	0.51		1.07	0.75		0.93	0.34
		0.05	0.01		0.05	0.01		0.03	0.01
		0.01			0.44			-0.08	
		0.00	0.00		0.02	0.00		0.00	0.00
Grand Median		0.40			0.33			0.30	
Median Abs Dev		0.02			0.02			0.02	
Avg Within Lab SD		0.01			0.01			0.02	
Labs Included		25			25			25	
Labs Reporting		25			25			25	



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

K (SubTestCode 213)	in the Wet Digestion Property Groups									Data units: Percent
	SRB1401			SRB1402			SRB1403			
XQ6Y6J	2.45	0.47	2.56	11.87	1.63	0.57	1.99	0.70	0.51	
		0.15	0.20		2.23	0.16		0.18	0.05	
MBLU4T	2.51	0.64	0.71	9.55	-0.07	0.02	1.92	0.45	0.57	
		0.21	0.06		-0.10	0.01		0.12	0.05	
X8RE9F	2.24	-0.16	0.49	9.17	-0.35	0.32	1.73	-0.30	0.35	
		-0.05	0.04		-0.48	0.09		-0.08	0.03	
MM2LUN	2.57	0.83	1.55	10.25	0.45	3.29	2.33	2.02	3.92	
		0.28	0.12		0.61	0.92		0.53	0.34	
22R3Z9	1.83	-1.40	0.39	7.14	-1.84	0.79	1.48	-1.22	0.82	
		-0.46	0.03		-2.51	0.22		-0.32	0.07	
LEBJDL	2.18	-0.34	0.32	9.64	0.00	1.26	1.76	-0.18	0.07	
		-0.11	0.03		0.00	0.35		-0.05	0.01	
VFBYEB	2.20	-0.29	0.72	8.30	-0.99	0.16	2.00	0.77	0.46	
		-0.10	0.06		-1.35	0.05		0.20	0.04	
ETYBXN	1.99	-0.93	0.27	7.31	-1.71	0.67	1.56	-0.92	0.40	
		-0.31	0.02		-2.33	0.19		-0.24	0.04	
FC666L	2.43	0.39	0.65	10.67	0.75	0.41	2.13	1.26	0.37	
		0.13	0.05		1.02	0.12		0.33	0.03	
RJ7JU6	2.37	0.21	0.41	9.29	-0.26	0.14	1.76	-0.15	0.46	
		0.07	0.03		-0.35	0.04		-0.04	0.04	
T3CD22	2.24	-0.16	0.84	9.26	-0.28	0.53	1.78	-0.08	1.00	
		-0.05	0.07		-0.38	0.15		-0.02	0.09	
ADE96P	2.05	-0.75	0.58	9.09	-0.41	0.04	1.58	-0.84	0.40	
		-0.25	0.05		-0.55	0.01		-0.22	0.04	
96N7NM	2.28	-0.06	0.39	10.06	0.30	1.31	1.82	0.08	0.73	
		-0.02	0.03		0.41	0.37		0.02	0.06	
FHRYXC	2.20	-0.28	2.02	7.86	-1.31	0.18	1.71	-0.36	0.20	
		-0.09	0.16		-1.78	0.05		-0.09	0.02	
HXTN39	2.39	0.29	0.20	10.56	0.67	0.43	1.83	0.11	0.13	
		0.10	0.02		0.92	0.12		0.03	0.01	
EHV3AC	2.29	-0.03	0.78	10.07	0.31	0.46	1.79	-0.05	0.11	
		-0.01	0.06		0.43	0.13		-0.01	0.01	
U6T2RR	2.16	-0.41	0.34	8.97	-0.50	0.35	1.66	-0.54	0.33	
		-0.14	0.03		-0.68	0.10		-0.14	0.03	
ZKNFUF	2.52	0.69	0.11	9.46	-0.14	0.72	1.85	0.16	0.43	
		0.23	0.01		-0.19	0.20		0.04	0.04	
6W8FD7	2.28	-0.05	0.26	11.19	1.14	0.62	1.66	-0.55	0.52	
		-0.02	0.02		1.55	0.17		-0.14	0.05	
TMGXVF	2.30	0.00	1.07	9.17	-0.34	1.57	1.80	0.00	0.97	
		0.00	0.08		-0.47	0.44		0.00	0.09	



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	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD		
HZKKTN	2.37	0.21	0.74	9.83	0.14	0.54	1.80	-0.01	1.14
		0.07	0.06		0.19	0.15		0.00	0.10
999DPV	2.55	0.75	0.29	10.05	0.30	0.77	1.91	0.39	0.24
		0.25	0.02		0.41	0.22		0.10	0.02
99PAHV	4.52	6.71	2.44	12.76	2.29	1.85	3.20	5.35	1.64
		2.23	0.19		3.12	0.52		1.40	0.14
4872WX	2.51	0.63	0.20	10.43	0.58	0.82	1.85	0.18	0.50
		0.21	0.02		0.79	0.23		0.05	0.04
6V7P2W	2.35	0.16		9.79	0.11		1.86	0.22	
		0.05	0.00		0.15	0.00		0.06	0.00
Grand Median		2.30			9.64			1.80	
Median Abs Dev		0.11			0.55			0.09	
Avg Within Lab SD		0.08			0.28			0.09	
Labs Included		25			25			25	
Labs Reporting		25			25			25	



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

Ca (SubTestCode 214)	in the Wet Digestion Property Groups									Data units: Percent
	SRB1401			SRB1402			SRB1403			
XQ6Y6J	1.44	0.57	2.45	1.65	0.68	0.43	0.86	0.63	0.17	
		0.08	0.11		0.11	0.02		0.06	0.02	
MBLU4T	1.39	0.19	0.45	1.55	0.03	0.39	0.80	0.02	0.12	
		0.03	0.02		0.00	0.02		0.00	0.01	
X8RE9F	1.35	-0.05	1.01	1.52	-0.18	0.18	0.81	0.13	0.18	
		-0.01	0.05		-0.03	0.01		0.01	0.02	
MM2LUN	1.53	1.28	1.35	1.70	1.01	0.94	0.69	-1.18	4.74	
		0.17	0.06		0.16	0.04		-0.11	0.43	
22R3Z9	1.10	-1.99	0.55	1.28	-1.69	0.67	0.63	-1.87	0.67	
		-0.26	0.03		-0.26	0.03		-0.17	0.06	
LEBJDL	1.30	-0.48	0.46	1.55	0.04	0.51	0.76	-0.42	0.19	
		-0.06	0.02		0.01	0.02		-0.04	0.02	
VFBYEB	1.50	1.03	0.67	1.70	1.02	0.89	1.00	2.23	0.64	
		0.14	0.03		0.16	0.04		0.20	0.06	
ETYBXN	1.13	-1.76	0.46	1.22	-2.10	0.73	0.69	-1.15	0.06	
		-0.23	0.02		-0.33	0.03		-0.11	0.01	
FC666L	1.50	1.03	0.46	1.82	1.74	0.39	0.91	1.22	0.07	
		0.14	0.02		0.27	0.02		0.11	0.01	
RJ7JU6	1.28	-0.63	0.34	1.45	-0.58	0.15	0.72	-0.86	0.11	
		-0.08	0.02		-0.09	0.01		-0.08	0.01	
T3CD22	1.39	0.20	0.89	1.52	-0.18	0.53	0.84	0.50	0.40	
		0.03	0.04		-0.03	0.02		0.05	0.04	
ADE96P	1.28	-0.58	0.13	1.43	-0.71	0.64	0.76	-0.39	0.17	
		-0.08	0.01		-0.11	0.03		-0.04	0.02	
96N7NM	1.38	0.13	0.25	1.65	0.66	1.17	0.82	0.23	0.19	
		0.02	0.01		0.10	0.05		0.02	0.02	
FHRYXC	1.34	-0.13	2.87	1.62	0.51	1.72	0.89	0.96	0.35	
		-0.02	0.13		0.08	0.07		0.09	0.03	
EHV3AC	1.34	-0.15	0.44	1.52	-0.18	1.90	0.80	-0.02	0.06	
		-0.02	0.02		-0.03	0.08		0.00	0.01	
U6T2RR	1.33	-0.21	1.00	1.49	-0.35	0.51	0.77	-0.28	0.23	
		-0.03	0.05		-0.05	0.02		-0.03	0.02	
ZKNFUF	1.34	-0.13	0.50	1.53	-0.09	0.49	0.75	-0.56	0.13	
		-0.02	0.02		-0.01	0.02		-0.05	0.01	
6W8FD7	1.35	-0.09	0.37	1.48	-0.44	0.36	0.78	-0.16	0.15	
		-0.01	0.02		-0.07	0.01		-0.01	0.01	
TMGXVF	1.42	0.45	0.88	1.65	0.70	0.29	0.83	0.34	0.19	
		0.06	0.04		0.11	0.01		0.03	0.02	
HZKKTN	1.37	0.05	1.27	1.50	-0.28		0.80	-0.02	0.06	
		0.01	0.06		-0.04	0.00		0.00	0.01	



ALP Program - Participant Web Summary Report - Cycle 23

	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD
999DPV	1.55	1.41	0.13	1.70	0.98	1.32	0.87	0.81	0.09
		0.19	0.01		0.15	0.05		0.07	0.01
99PAHV	1.62	1.98	0.62	1.76	1.41	2.94	0.88	0.92	0.14
		0.26	0.03		0.22	0.12		0.08	0.01
4872WX	1.51	1.13	0.22	1.64	0.61	0.91	0.87	0.75	0.20
		0.15	0.01		0.10	0.04		0.07	0.02
6V7P2W	1.29	-0.53		1.54	-0.03		0.75	-0.56	
		-0.07	0.00		0.00	0.00		-0.05	0.00
Grand Median		1.36			1.54			0.80	
Median Abs Dev		0.07			0.09			0.05	
Avg Within Lab SD		0.05			0.04			0.09	
Labs Included		24			24			24	
Labs Reporting		24			24			24	



ALP Program - Participant Web Summary Report - Cycle 23

Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

Mg (SubTestCode 215)	in the Wet Digestion Property Groups									Data units: Percent
	SRB1401			SRB1402			SRB1403			
XQ6Y6J	0.44	0.51	2.87	0.70	0.51	0.50	0.37	0.56	0.66	
		0.02	0.04		0.03	0.01		0.02	0.01	
MBLU4T	0.46	0.93	0.51	0.70	0.55	0.31	0.36	0.07	0.80	
		0.03	0.01		0.03	0.01		0.00	0.01	
X8RE9F	0.46	0.83	0.28	0.68	0.13	0.24	0.37	0.39	0.70	
		0.03	0.00		0.01	0.00		0.01	0.01	
MM2LUN	0.47	1.18	1.51	0.72	0.83	1.70	0.41	1.48	1.19	
		0.04	0.02		0.05	0.03		0.05	0.01	
22R3Z9	0.34	-2.18	0.46	0.56	-2.02	0.57	0.30	-1.66	1.44	
		-0.08	0.01		-0.11	0.01		-0.06	0.02	
LEBJDL	0.40	-0.74	0.46	0.65	-0.31	0.75	0.34	-0.52	0.55	
		-0.03	0.01		-0.02	0.02		-0.02	0.01	
VFBYEB	0.44	0.42	1.61	0.69	0.39	1.02	0.39	1.00	0.95	
		0.02	0.02		0.02	0.02		0.04	0.01	
ETYBXN	0.36	-1.82	1.68	0.55	-2.14	0.98	0.29	-1.95	0.55	
		-0.07	0.02		-0.12	0.02		-0.07	0.01	
FC666L	0.46	0.85	0.58	0.76	1.56	1.01	0.39	0.95	0.36	
		0.03	0.01		0.09	0.02		0.03	0.00	
RJ7JU6	0.40	-0.74	0.46	0.62	-0.84	0.28	0.32	-1.09	0.55	
		-0.03	0.01		-0.05	0.01		-0.04	0.01	
T3CD22	0.43	0.03	1.04	0.65	-0.40	0.62	0.36	0.25	1.48	
		0.00	0.01		-0.02	0.01		0.01	0.02	
ADE96P	0.37	-1.46	0.81	0.58	-1.55	0.75	0.31	-1.38	2.38	
		-0.05	0.01		-0.09	0.02		-0.05	0.03	
96N7NM	0.44	0.33	1.23	0.65	-0.43	2.05	0.37	0.52	1.09	
		0.01	0.02		-0.02	0.04		0.02	0.01	
FHRYXC	0.45	0.60	1.23	0.67	0.04	1.14	0.37	0.52	1.97	
		0.02	0.02		0.00	0.02		0.02	0.02	
EHV3AC	0.42	-0.21	0.46	0.73	1.04	0.49	0.35	-0.05	0.55	
		-0.01	0.01		0.06	0.01		0.00	0.01	
U6T2RR	0.40	-0.65	0.00	0.62	-0.90	0.49	0.33	-0.62	0.55	
		-0.02	0.00		-0.05	0.01		-0.02	0.01	
ZKNFUF	0.41	-0.47	0.45	0.66	-0.27	0.22	0.33	-0.85	0.34	
		-0.02	0.01		-0.02	0.00		-0.03	0.00	
6W8FD7	0.41	-0.43	0.44	0.65	-0.38	0.54	0.34	-0.36	0.63	
		-0.02	0.01		-0.02	0.01		-0.01	0.01	
TMGXVF	0.42	-0.03	0.46	0.67	-0.08	0.75	0.35	-0.24	0.55	
		0.00	0.01		0.00	0.02		-0.01	0.01	
HZKKTN	0.42	-0.03	0.93	0.68	0.21	1.02	0.36	0.05	0.55	
		0.00	0.01		0.01	0.02		0.00	0.01	



ALP Program - Participant Web Summary Report - Cycle 23

	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD
999DPV	0.46	0.90	0.21	0.70	0.53	1.03	0.37	0.29	0.34
		0.03	0.00		0.03	0.02		0.01	0.00
99PAHV	0.42	-0.17	0.28	0.68	0.19	2.44	0.32	-1.11	1.13
		-0.01	0.00		0.01	0.05		-0.04	0.01
4872WX	0.44	0.44	0.49	0.67	-0.04	0.90	0.35	-0.22	0.99
		0.02	0.01		0.00	0.02		-0.01	0.01
6V7P2W	0.43	0.23		0.72	0.83		0.36	0.06	
		0.01	0.00		0.05	0.00		0.00	0.00
Grand Median		0.42			0.67			0.36	
Median Abs Dev		0.02			0.03			0.02	
Avg Within Lab SD		0.01			0.02			0.01	
Labs Included		24			24			24	
Labs Reporting		24			24			24	



ALP Program - Participant Web Summary Report - Cycle 23

Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

S (SubTestCode 216)	in the Wet Digestion Property Groups									Data units: Percent
	SRB1401			SRB1402			SRB1403			
XQ6Y6J	0.16	1.35	1.79	0.25	1.47	0.85	0.20	1.21	0.86	
		0.02	0.01		0.03	0.01		0.02	0.00	
MBLU4T	0.15	0.59	0.10	0.22	0.23	0.42	0.18	-0.05	0.50	
		0.01	0.00		0.00	0.00		0.00	0.00	
X8RE9F	0.13	-0.20	0.09	0.21	-0.27	0.27	0.18	-0.21	0.65	
		0.00	0.00		-0.01	0.00		0.00	0.00	
MM2LUN	0.17	2.03	0.00	0.25	1.37		0.20	1.14	0.00	
		0.03	0.00		0.03	0.00		0.02	0.00	
22R3Z9	0.12	-1.01	0.00	0.20	-1.07	0.90	0.16	-1.33	2.13	
		-0.02	0.00		-0.02	0.01		-0.02	0.01	
LEBJDL	0.12	-1.01	0.00	0.21	-0.30	2.37	0.17	-0.57	0.00	
		-0.02	0.00		-0.01	0.02		-0.01	0.00	
VFBYEB	0.14	0.00	0.95	0.22	-0.15	0.90	0.19	0.38	2.13	
		0.00	0.01		0.00	0.01		0.01	0.01	
ETYBXN	0.13	-0.61	1.90	0.21	-0.30	1.79	0.18	-0.19	1.06	
		-0.01	0.01		-0.01	0.01		0.00	0.01	
FC666L	0.16	1.34	0.38	0.25	1.30	0.18	0.20	0.89	0.65	
		0.02	0.00		0.03	0.00		0.02	0.00	
RJ7JU6	0.15	0.81	0.00	0.24	1.07	0.90	0.20	0.95	1.06	
		0.01	0.00		0.02	0.01		0.02	0.01	
T3CD22	0.15	0.57	0.57	0.23	0.37	0.54	0.19	0.57	1.12	
		0.01	0.00		0.01	0.00		0.01	0.01	
3AXLEP	0.14	0.41	0.95	0.22	0.15	0.90	0.18	0.19	1.06	
		0.01	0.01		0.00	0.01		0.00	0.01	
ADE96P	0.12	-1.01	0.00	0.19	-1.37	1.55	0.15	-1.71	0.00	
		-0.02	0.00		-0.03	0.01		-0.03	0.00	
96N7NM	0.14	0.00	0.95	0.22	0.15	0.90	0.19	0.38	1.06	
		0.00	0.01		0.00	0.01		0.01	0.01	
FHRYXC	0.13	-0.20	2.51	0.22	0.00	0.00	0.18	0.00	1.84	
		0.00	0.02		0.00	0.00		0.00	0.01	
EHV3AC	0.14	0.41	0.95	0.22	-0.15	0.90	0.18	0.19	1.06	
		0.01	0.01		0.00	0.01		0.00	0.01	
U6T2RR	0.13	-0.20	0.95	0.21	-0.30	0.90	0.18	-0.19	1.06	
		0.00	0.01		-0.01	0.01		0.00	0.01	
ZKNFUF	0.12	-0.95	0.48	0.20	-0.96	0.46	0.16	-0.93	0.42	
		-0.02	0.00		-0.02	0.00		-0.02	0.00	
6W8FD7	0.13	-0.14	0.25	0.22	-0.15	0.47	0.18	-0.25	0.87	
		0.00	0.00		0.00	0.00		0.00	0.00	
TMGXVF	0.15	0.61	1.90	0.24	1.07	0.90	0.19	0.76	1.06	
		0.01	0.01		0.02	0.01		0.01	0.01	



ALP Program - Participant Web Summary Report - Cycle 23

	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
		Difference	W/L STD		Difference	W/L STD		Difference	W/L STD
HZKKTN	0.12	-1.01	1.64	0.18	-1.68	0.90	0.15	-1.71	0.00
		-0.02	0.01		-0.04	0.01		-0.03	0.00
999DPV	0.16	1.21	0.26	0.25	1.24	1.17	0.20	1.27	0.20
		0.02	0.00		0.03	0.01		0.02	0.00
99PAHV	0.13	-0.44	0.36	0.20	-0.80	1.80	0.16	-0.96	0.53
		-0.01	0.00		-0.02	0.01		-0.02	0.00
4872WX	0.15	0.65	0.41	0.23	0.56	0.39	0.19	0.55	0.56
		0.01	0.00		0.01	0.00		0.01	0.00
6V7P2W	0.14	-0.10		0.23	0.37		0.18	-0.29	
		0.00	0.00		0.01	0.00		-0.01	0.00
Grand Median		0.14			0.22			0.18	
Median Abs Dev		0.01			0.01			0.01	
Avg Within Lab SD		0.01			0.01			0.01	
Labs Included		25			25			25	
Labs Reporting		25			25			25	



ALP Program - Participant Web Summary Report - Cycle 23

Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

Na (SubTestCode 217)	in the Wet Digestion Property Groups									Data units: Percent
	SRB1401			SRB1402			SRB1403			
XQ6Y6J	0.15	0.18	1.38	0.12	0.80	1.46	0.01	-0.05	0.38	
		0.00	0.01		0.01	0.01		0.00	0.00	
MBLU4T	0.14	-0.17	0.80	0.11	0.08	0.61	0.01	-0.47	0.13	
		0.00	0.01		0.00	0.00		0.00	0.00	
X8RE9F	0.15	0.37	1.47	0.11	0.13	0.90	0.02	1.47	0.41	
		0.01	0.01		0.00	0.00		0.01	0.00	
22R3Z9	0.10	-2.47	0.81	0.08	-2.09	0.34	0.01	-0.64	0.12	
		-0.04	0.01		-0.03	0.00		0.00	0.00	
LEBJDL	0.14	-0.49	0.81	0.11	-0.08	0.00	0.01	0.00	0.00	
		-0.01	0.01		0.00	0.00		0.00	0.00	
VFBYEB	0.14	-0.09	1.62	0.11	0.16	1.30	0.02	0.98	1.18	
		0.00	0.01		0.00	0.01		0.01	0.01	
ETYBXN	0.14	-0.49	0.81	0.09	-1.53	0.00	0.01	0.00	0.00	
		-0.01	0.01		-0.02	0.00		0.00	0.00	
FC666L	0.17	1.63	2.89	0.14	1.82	1.24	0.03	3.66	4.00	
		0.03	0.02		0.03	0.01		0.02	0.02	
RJ7JU6	0.15	0.09	0.21	0.12	0.33	0.26	0.00	-0.98	0.12	
		0.00	0.00		0.00	0.00		-0.01	0.00	
T3CD22	0.14	-0.29	0.00	0.10	-0.61	1.04	0.01	0.00	0.00	
		0.00	0.00		-0.01	0.00		0.00	0.00	
ADE96P	0.13	-0.68	0.81	0.11	-0.08	0.00	0.01	0.00	0.00	
		-0.01	0.01		0.00	0.00		0.00	0.00	
96N7NM	0.14	-0.09	0.81	0.11	-0.32	1.30	0.01	0.00	0.00	
		0.00	0.01		0.00	0.01		0.00	0.00	
FHRYXC	0.16	0.70	0.81	0.12	0.40	1.30	0.01	0.00	0.00	
		0.01	0.01		0.01	0.01		0.00	0.00	
EHV3AC	0.14	-0.53	0.33	0.11	-0.21	1.78	0.01	-0.60	0.07	
		-0.01	0.00		0.00	0.01		0.00	0.00	
U6T2RR	0.13	-0.88	0.14	0.10	-0.74	0.39	0.01	-0.59	0.00	
		-0.01	0.00		-0.01	0.00		0.00	0.00	
6W8FD7	0.19	2.81	0.15	0.15	2.94	0.40	0.01	-0.39	0.04	
		0.05	0.00		0.04	0.00		0.00	0.00	
999DPV	0.15	0.47	0.29	0.11	0.18	1.01	0.01	-0.65	0.04	
		0.01	0.00		0.00	0.00		0.00	0.00	
99PAHV	0.15	0.24	0.16	0.11	-0.30	1.78	0.02	1.67	1.12	
		0.00	0.00		0.00	0.01		0.01	0.01	
4872WX	0.15	0.41	0.16	0.11	-0.40	1.06	0.01	-0.67	0.03	
		0.01	0.00		-0.01	0.00		0.00	0.00	
6V7P2W	0.15	0.43		0.12	0.28					
		0.01	0.00		0.00	0.00				



ALP Program - Participant Web Summary Report - Cycle 23

	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD		
Grand Median		0.14			0.11			0.010	
Median Abs Dev		0.01			0.00			0.004	
Avg Within Lab SD		0.01			0.00			0.005	
Labs Included		20			20			19	
Labs Reporting		20			20			19	



ALP Program - Participant Web Summary Report - Cycle 23

Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

AI (SubTestCode 218)	in the Wet Digestion Property Groups									Data units: mg/kg
	SRB1401			SRB1402			SRB1403			
XQ6Y6J	41.3	0.5	0.4	68.5	0.1	1.5	216.3	0.2	0.6	
		9.7	2.0		2.5	6.8		11.7	5.1	
MBLU4T	60.0	1.4	0.4	121.0	1.5	1.2	239.3	0.5	0.7	
		28.4	2.0		55.0	5.3		34.7	6.5	
LEBJDL	45.7	0.7	0.7	75.3	0.2	0.5	169.0	-0.6	0.8	
		14.1	3.5		9.3	2.1		-35.6	6.9	
VFBYEB	20.0	-0.6	0.4	26.0	-1.1	0.7	154.7	-0.8	1.1	
		-11.6	1.7		-40.0	3.0		-49.9	9.3	
RJ7JU6	19.7	-0.6	0.1	35.3	-0.8	0.1	192.7	-0.2	0.5	
		-11.9	0.6		-30.7	0.6		-11.9	4.2	
ADE96P	28.3	-0.2	3.3	61.0	-0.1	0.5	150.0	-0.9	2.0	
		-3.2	16.3		-5.0	2.0		-54.6	17.1	
96N7NM	15.0	-0.8	0.7	39.7	-0.7	1.7	162.3	-0.7	2.3	
		-16.6	3.6		-26.3	7.6		-42.3	19.7	
EHV3AC	20.7	-0.5	0.4	43.2	-0.6	1.1	204.6	0.0	0.6	
		-10.8	2.2		-22.8	4.9		0.0	4.9	
6W8FD7	31.6	0.0	0.1	76.7	0.3	1.3	216.9	0.2	0.4	
		0.0	0.7		10.7	5.6		12.3	3.7	
999DPV	57.3	1.3	0.6	107.3	1.1	1.4	260.7	0.9	0.2	
		25.7	2.8		41.3	6.3		56.1	1.7	
99PAHV	0.0	-1.6	0.0	0.0	-1.8	0.0	0.0	-3.2	0.0	
		-31.6	0.0		-66.0	0.0		-204.6	0.0	
4872WX	40.5	0.4	0.4	84.4	0.5	0.6	239.7	0.5	0.7	
		9.0	1.9		18.4	2.7		35.1	6.4	
6V7P2W	37.0	0.3		66.0	0.0		215.0	0.2		
		5.4	0.0		0.0	0.0		10.4	0.0	
Grand Median		31.6		66.0			204.6			
Median Abs Dev		11.6		22.8			35.1			
Avg Within Lab SD		4.9		4.4			8.7			
Labs Included		13		13			13			
Labs Reporting		13		13			13			



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

B (SubTestCode 219)	in the Wet Digestion Property Groups									Data units: mg/kg
	SRB1401			SRB1402			SRB1403			
XQ6Y6J	94.4	6.9	4.0	105.4	9.1	4.1	355.6	13.5	2.8	
		57.6	12.4		76.6	9.0		342.5	3.1	
X8RE9F	34.8	-0.3	0.6	25.4	-0.4	0.8	10.6	-0.1	2.6	
		-2.1	1.8		-3.4	1.9		-2.5	2.8	
MM2LUN	37.6	0.1	0.3	28.6	0.0	0.6	12.3	0.0	1.3	
		0.8	1.0		-0.2	1.2		-0.8	1.4	
22R3Z9	24.8	-1.5	0.3	19.3	-1.1	0.2	10.6	-0.1	0.9	
		-12.1	0.9		-9.5	0.4		-2.5	0.9	
LEBJDL	37.0	0.0	0.3	31.0	0.3	0.8	19.0	0.2	0.9	
		0.1	1.0		2.2	1.7		5.9	1.0	
VFBYEB	36.0	-0.1	0.7	29.3	0.1	0.3	13.3	0.0	1.1	
		-0.9	2.0		0.6	0.6		0.2	1.2	
ETYBXN	30.6	-0.8	0.0	28.3	-0.1	0.0	9.2	-0.2	0.1	
		-6.3	0.1		-0.5	0.1		-3.9	0.1	
FC666L	39.2	0.3	0.1	34.0	0.6	0.3	15.6	0.1	0.3	
		2.4	0.4		5.2	0.7		2.5	0.4	
RJ7JU6	35.7	-0.1	0.2	30.0	0.1		13.3	0.0	0.5	
		-1.2	0.6		1.2	0.0		0.2	0.6	
T3CD22	39.6	0.3	0.3	30.5	0.2	0.3	17.1	0.2	0.8	
		2.7	1.0		1.8	0.6		4.0	0.8	
ADE96P	26.3	-1.3	0.5	20.3	-1.0	0.3	10.7	-0.1	0.5	
		-10.5	1.5		-8.5	0.6		-2.4	0.6	
96N7NM	37.7	0.1	0.2	29.7	0.1	0.3	13.0	0.0		
		0.8	0.6		0.9	0.6		-0.1	0.0	
FHRYXC	39.0	0.3	0.2	25.7	-0.4	0.3	11.2	-0.1	0.1	
		2.2	0.6		-3.1	0.6		-1.9	0.1	
EHV3AC	34.7	-0.3	0.3	27.3	-0.2	0.5	13.2	0.0	0.0	
		-2.2	0.9		-1.5	1.2		0.1	0.0	
ZKNFUF	32.5	-0.5	0.2	24.5	-0.5	0.2	9.7	-0.1	0.3	
		-4.3	0.6		-4.2	0.5		-3.4	0.3	
6W8FD7	35.5	-0.2	0.1	28.3	-0.1	0.1	12.0	0.0	0.3	
		-1.4	0.2		-0.5	0.2		-1.1	0.3	
TMGXVF	36.4	-0.1	0.8	30.1	0.2	1.1	12.7	0.0	1.1	
		-0.4	2.6		1.3	2.5		-0.4	1.2	
HZKKTN	36.7	0.0	0.6	28.5	0.0	0.1	13.7	0.0	0.6	
		-0.1	1.7		-0.3	0.3		0.6	0.6	
999DPV	41.2	0.5	0.2	31.8	0.4	0.5	14.7	0.1	0.2	
		4.3	0.5		3.0	1.1		1.6	0.2	
99PAHV	45.7	1.1	1.7	29.1	0.0	1.0	13.4	0.0	0.2	
		8.8	5.3		0.4	2.2		0.3	0.3	



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	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD		
4872WX	37.7	0.1 0.8	0.2 0.6	28.4	0.0 -0.4	0.2 0.4	13.2	0.0 0.1	0.3 0.3
6V7P2W	37.8	0.1 0.9	0.0	29.0	0.0 0.2	0.0	12.8	0.0 -0.3	0.0
Grand Median		36.9		28.8			13.1		
Median Abs Dev		2.1		1.4			1.3		
Avg Within Lab SD		3.1		2.2			1.1		
Labs Included		22		22			22		
Labs Reporting		22		22			22		



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

Zn (SubTestCode 220)	in the Wet Digestion Property Groups									Data units: mg/kg
	SRB1401			SRB1402			SRB1403			
XQ6Y6J	55.2	0.9	1.0	43.7	0.9	0.4	25.1	1.0	0.2	
		5.7	4.0		5.8	1.5		4.4	1.0	
MBLU4T	46.6	-0.4	0.5	34.3	-0.6	0.2	18.0	-0.6	0.1	
		-2.8	2.0		-3.6	0.6		-2.7	0.4	
X8RE9F	49.2	0.0	0.4	37.9	0.0	0.3	19.7	-0.2	0.2	
		-0.3	1.7		-0.1	1.2		-1.0	0.8	
MM2LUN	58.0	1.3	0.7	41.3	0.5	0.6	23.7	0.6	0.5	
		8.6	2.6		3.4	2.1		3.0	2.1	
22R3Z9	31.3	-2.8	0.2	25.7	-1.9	0.1	13.7	-1.5	0.3	
		-18.2	0.6		-12.2	0.5		-7.0	1.0	
LEBJDL	51.3	0.3	0.9	40.0	0.3	0.5	21.0	0.1	0.5	
		1.9	3.5		2.1	1.7		0.3	2.0	
VFBYEB	51.3	0.3	0.8	40.0	0.3	0.3	24.0	0.7	0.5	
		1.9	3.1		2.1	1.0		3.3	2.0	
ETYBXN	45.0	-0.7	0.2	33.4	-0.7	0.1	20.0	-0.2	0.1	
		-4.4	1.0		-4.5	0.4		-0.7	0.3	
FC666L	53.7	0.7	1.3	41.4	0.5	0.1	21.1	0.1	0.1	
		4.3	5.1		3.4	0.4		0.4	0.3	
RJ7JU6	49.7	0.0	0.1	38.0	0.0		19.7	-0.2	0.1	
		0.3	0.6		0.1	0.0		-1.0	0.6	
T3CD22	47.2	-0.3	0.4	37.7	0.0	0.2	21.6	0.2	0.2	
		-2.2	1.4		-0.2	0.9		0.9	0.8	
ADE96P	48.7	-0.1	0.1	20.7	-2.6	0.2	13.7	-1.5	0.1	
		-0.7	0.6		-17.3	0.6		-7.0	0.6	
96N7NM	47.7	-0.3	0.1	35.7	-0.3	0.2	20.3	-0.1	0.1	
		-1.7	0.6		-2.3	0.6		-0.4	0.6	
FHRYXC	47.7	-0.3	0.7	35.4	-0.4	0.3	19.6	-0.2	0.2	
		-1.7	2.9		-2.5	1.0		-1.1	0.8	
EHV3AC	52.3	0.4	0.3	39.8	0.3	0.8	23.3	0.6	0.0	
		2.9	1.3		1.9	2.7		2.6	0.1	
U6T2RR	48.7	-0.1	0.4	35.7	-0.3	0.2	20.7	0.0	0.1	
		-0.7	1.5		-2.3	0.6		0.0	0.6	
ZKNFUF	46.0	-0.5	0.3	32.5	-0.8	0.1	17.7	-0.7	0.2	
		-3.4	1.4		-5.5	0.3		-3.0	0.6	
6W8FD7	47.2	-0.3	0.1	35.0	-0.4	0.1	20.0	-0.2	0.1	
		-2.2	0.3		-3.0	0.5		-0.7	0.2	
TMGXVF	53.9	0.7	1.6	41.2	0.5	0.9	22.3	0.4	0.3	
		4.5	6.6		3.2	3.3		1.6	1.3	
HZKKTN	66.9	2.7	3.9	60.2	3.4	4.5	45.5	5.4	4.8	
		17.5	15.7		22.2	16.2		24.8	19.3	



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	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD		
999DPV	54.2	0.7	0.1	40.1	0.3	0.6	21.4	0.1	0.0
		4.8	0.4		2.1	2.1		0.7	0.2
99PAHV	54.9	0.9	0.2	41.2	0.5	0.6	25.4	1.0	0.1
		5.5	0.7		3.2	2.3		4.7	0.5
4872WX	52.6	0.5	0.3	38.9	0.1	0.3	20.7	0.0	0.2
		3.2	1.2		0.9	1.0		0.0	0.6
6V7P2W	44.8	-0.7		35.0	-0.4		18.4	-0.5	
		-4.6	0.0		-2.9	0.0		-2.3	0.0
Grand Median		49.4			37.9			20.7	
Median Abs Dev		3.0			3.0			1.4	
Avg Within Lab SD		4.0			3.6			4.0	
Labs Included		24			24			24	
Labs Reporting		24			24			24	



ALP Program - Participant Web Summary Report - Cycle 23

Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

Mn (SubTestCode 221)	in the Wet Digestion Property Groups									Data units: mg/kg
	SRB1401			SRB1402			SRB1403			
XQ6Y6J	126.1	0.7	2.1	73.6	0.6	0.5	54.4	1.0	0.9	
		6.5	10.1		3.1	1.3		3.7	1.4	
MBLU4T	118.8	-0.1	1.1	68.5	-0.4	1.7	47.5	-0.8	0.8	
		-0.7	5.1		-2.0	4.1		-3.2	1.2	
X8RE9F	118.3	-0.1	0.4	70.8	0.1	0.2	51.0	0.1	0.4	
		-1.3	1.9		0.4	0.5		0.4	0.6	
MM2LUN	126.7	0.7	0.9	73.3	0.5	2.3	51.7	0.3	1.0	
		7.1	4.2		2.9	5.5		1.0	1.5	
22R3Z9	97.8	-2.3	0.2	57.1	-2.5	0.8	41.7	-2.4	1.3	
		-21.7	1.1		-13.3	1.9		-9.0	2.0	
LEBJDL	112.7	-0.7	0.3	71.0	0.1	0.7	48.3	-0.6	0.7	
		-6.9	1.5		0.6	1.7		-2.3	1.2	
VFBYEB	122.0	0.3	0.4	74.3	0.7	0.5	56.3	1.5	2.7	
		2.4	1.7		3.9	1.2		5.7	4.2	
ETYBXN	101.8	-1.9	0.1	59.8	-2.0	0.1	44.5	-1.6	0.4	
		-17.8	0.5		-10.6	0.4		-6.2	0.6	
FC666L	132.7	1.4	3.3	74.0	0.7	0.5	49.1	-0.4	0.8	
		13.1	15.9		3.6	1.2		-1.6	1.2	
RJ7JU6	115.0	-0.5	0.2	68.3	-0.4	0.2	48.0	-0.7	0.6	
		-4.6	1.0		-2.1	0.6		-2.7	1.0	
T3CD22	119.0	-0.1	0.9	70.1	-0.1	0.9	53.0	0.6	1.2	
		-0.6	4.4		-0.4	2.2		2.3	1.8	
ADE96P	108.0	-1.2	0.2	63.0	-1.4	0.4	45.0	-1.5	1.3	
		-11.6	1.0		-7.5	1.0		-5.7	2.0	
96N7NM	121.3	0.2	0.1	69.7	-0.1	0.6	51.3	0.2	1.0	
		1.8	0.6		-0.8	1.5		0.7	1.5	
FHRYXC	128.0	0.9	0.7	73.4	0.5	0.3	53.0	0.6	1.6	
		8.4	3.3		2.9	0.8		2.4	2.4	
EHV3AC	114.6	-0.5	0.6	63.9	-1.2	0.7	50.9	0.1	0.3	
		-5.0	2.7		-6.5	1.7		0.2	0.5	
U6T2RR	116.7	-0.3	0.1	67.0	-0.6	0.7	50.3	-0.1	0.4	
		-2.9	0.6		-3.5	1.7		-0.3	0.6	
ZKNFUF	123.2	0.4	0.2	71.4	0.2	0.8	50.4	-0.1	0.7	
		3.6	1.1		1.0	2.0		-0.2	1.1	
6W8FD7	115.4	-0.4	0.2	68.1	-0.4	0.1	48.8	-0.5	0.7	
		-4.2	1.0		-2.4	0.3		-1.9	1.1	
TMGXVF	123.7	0.4	1.8	74.6	0.8	1.4	52.8	0.6	1.2	
		4.1	8.4		4.1	3.4		2.1	1.9	
HZKKTN	120.3	0.1	0.7	68.1	-0.4	0.3	51.4	0.2	0.9	
		0.8	3.2		-2.3	0.7		0.8	1.4	



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	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD		
999DPV	133.6	1.5	0.4	77.4	1.3	1.9	55.9	1.4	0.3
		14.1	1.8		7.0	4.7		5.2	0.5
99PAHV	120.1	0.1	0.4	67.7	-0.5	2.1	48.6	-0.5	0.5
		0.6	2.1		-2.8	5.0		-2.1	0.7
4872WX	131.3	1.2	0.3	73.3	0.5	0.4	51.6	0.2	0.7
		11.8	1.5		2.8	0.9		0.9	1.1
6V7P2W	117.0	-0.3		71.7	0.2		49.6	-0.3	
		-2.6	0.0		1.3	0.0		-1.1	0.0
Grand Median		119.6			70.5			50.7	
Median Abs Dev		4.4			2.9			2.1	
Avg Within Lab SD		4.7			2.4			1.5	
Labs Included		24			24			24	
Labs Reporting		24			24			24	



ALP Program - Participant Web Summary Report - Cycle 23

Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

Fe (SubTestCode 222)	in the Wet Digestion Property Groups									Data units: mg/kg
	SRB1401			SRB1402			SRB1403			
XQ6Y6J	37.5	-0.4	0.4	96.2	-0.3	0.6	257.5	0.5	0.6	
		-4.0	2.7		-6.4	4.3		11.7	6.5	
MBLU4T	78.7	3.6	4.0	195.6	4.4	1.2	207.7	-1.6	2.6	
		37.3	27.1		93.0	8.1		-38.1	29.0	
X8RE9F	39.0	-0.2	0.2	92.2	-0.5	0.2	214.2	-1.3	0.3	
		-2.4	1.3		-10.4	1.1		-31.6	3.9	
MM2LUN	43.0	0.2	0.3	106.0	0.2	1.8	254.0	0.3	0.8	
		1.6	1.7		3.4	12.5		8.2	9.2	
22R3Z9	30.8	-1.0	0.1	86.2	-0.8	0.4	200.9	-1.9	1.3	
		-10.7	0.4		-16.5	2.6		-44.9	15.2	
LEBJDL	57.0	1.5	0.8	106.3	0.2	0.9	223.7	-0.9	0.4	
		15.6	5.6		3.7	6.7		-22.1	4.7	
VFBYEB	42.0	0.1	0.8	72.3	-1.4	0.5	208.3	-1.6	1.5	
		0.6	5.6		-30.3	3.5		-37.5	17.5	
ETYBXN	37.3	-0.4	0.3	104.7	0.1	0.1	201.3	-1.9	0.1	
		-4.1	2.1		2.1	0.6		-44.5	1.5	
FC666L	63.2	2.1	2.0	135.0	1.5	0.4	256.0	0.4	0.4	
		21.8	13.1		32.4	2.6		10.2	5.0	
RJ7JU6	35.7	-0.6	0.1	107.3	0.2	0.6	246.3	0.0	1.6	
		-5.7	0.6		4.7	4.2		0.5	18.0	
T3CD22	37.8	-0.4	0.3	100.7	-0.1	0.3	248.0	0.1	0.8	
		-3.6	1.8		-1.9	2.0		2.2	9.6	
ADE96P	46.3	0.5	0.6	101.0	-0.1	3.2	238.0	-0.3	1.7	
		4.9	4.2		-1.6	22.6		-7.8	19.2	
96N7NM	33.0	-0.8	0.3	76.0	-1.3	0.9	238.7	-0.3	0.5	
		-8.4	1.7		-26.6	6.6		-7.1	5.5	
FHRYXC	41.1	0.0	0.1	85.1	-0.8	1.1	211.8	-1.4	1.2	
		-0.3	1.0		-17.5	7.5		-34.0	13.2	
EHV3AC	38.3	-0.3	0.3	96.7	-0.3	1.1	248.5	0.1	0.3	
		-3.1	2.1		-6.0	7.5		2.7	3.8	
U6T2RR	41.7	0.0	0.5	99.0	-0.2	0.3	242.3	-0.1	0.9	
		0.3	3.1		-3.6	2.0		-3.5	10.1	
ZKNFUF	49.7	0.8	0.2	109.8	0.3	0.2	255.5	0.4	0.7	
		8.3	1.3		7.2	1.5		9.7	8.1	
6W8FD7	36.6	-0.5	0.1	126.2	1.1	0.9	246.4	0.0	0.1	
		-4.8	0.5		23.6	6.4		0.6	1.5	
TMGXVF	41.1	0.0	0.6	103.2	0.0	0.6	242.3	-0.1	0.7	
		-0.3	4.3		0.6	4.0		-3.5	8.1	
HZKKTN	46.4	0.5	0.4	112.3	0.5	0.6	262.3	0.7	1.2	
		5.0	2.9		9.7	4.0		16.5	13.7	



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	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD		
999DPV	46.3	0.5	0.1	126.6	1.1	1.0	278.5	1.4	0.2
		4.9	0.6		24.0	7.0		32.7	2.5
99PAHV	57.4	1.6	0.9	101.6	0.0	1.0	245.6	0.0	0.6
		16.0	5.9		-1.0	7.0		-0.2	6.8
4872WX	41.9	0.0	0.1	118.7	0.8	0.5	256.7	0.5	0.6
		0.5	0.8		16.1	3.2		10.9	6.8
6V7P2W	39.2	-0.2		102.0	0.0		246.0	0.0	
		-2.2	0.0		-0.6	0.0		0.2	0.0
Grand Median		41.4			102.6			245.8	
Median Abs Dev		4.4			6.8			9.9	
Avg Within Lab SD		6.7			7.0			11.4	
Labs Included		24			24			24	
Labs Reporting		24			24			24	



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

Cu (SubTestCode 223)	in the Wet Digestion Property Groups									Data units: mg/kg
	SRB1401			SRB1402			SRB1403			
XQ6Y6J	21.87	0.35	0.42	7.65	0.74	3.20	11.44	0.65	1.11	
		1.45	1.59		0.65	1.78		0.87	0.89	
MBLU4T	18.76	-0.40	0.00	6.90	-0.11	0.78	9.96	-0.46	0.00	
		-1.67	0.00		-0.10	0.43		-0.61	0.00	
X8RE9F	20.96	0.13	0.10	7.01	0.00	0.58	10.89	0.24	0.21	
		0.53	0.38		0.00	0.32		0.32	0.17	
MM2LUN	25.23	1.16	0.46	8.47	1.66	1.61	12.40	1.37	1.14	
		4.80	1.74		1.46	0.90		1.83	0.92	
22R3Z9	17.06	-0.82	0.11	5.50	-1.70	0.11	9.53	-0.78	1.11	
		-3.37	0.41		-1.50	0.06		-1.04	0.89	
LEBJDL	20.00	-0.10	0.27	7.67	0.75	1.04	11.00	0.32		
		-0.43	1.00		0.66	0.58		0.43	0.00	
VFBYEB	20.33	-0.02	0.15	7.33	0.37	1.04	12.00	1.07	1.25	
		-0.10	0.58		0.33	0.58		1.43	1.00	
ETYBXN	18.17	-0.55	0.02	6.40	-0.68	0.18	9.80	-0.57	0.37	
		-2.26	0.06		-0.60	0.10		-0.77	0.30	
FC666L	21.77	0.32	0.35	5.41	-1.81	0.21	10.57	0.00	0.83	
		1.34	1.32		-1.60	0.12		0.00	0.67	
RJ7JU6	20.33	-0.02	0.15	7.00	0.00		10.00	-0.42		
		-0.10	0.58		0.00	0.00		-0.57	0.00	
T3CD22	19.60	-0.20	0.12	8.22	1.38	0.41	11.20	0.47	0.54	
		-0.83	0.46		1.22	0.23		0.63	0.44	
ADE96P	19.00	-0.35	0.27	7.00	0.00		9.67	-0.67	0.72	
		-1.43	1.00		0.00	0.00		-0.90	0.58	
96N7NM	20.00	-0.10		7.33	0.37	1.04	11.67	0.82	1.44	
		-0.43	0.00		0.33	0.58		1.10	1.15	
FHRYXC	50.10	7.17	0.24	7.72	0.81	1.59	16.23	4.23	3.68	
		29.67	0.89		0.71	0.89		5.66	2.95	
EHV3AC	22.13	0.41	0.24	7.67	0.75	0.91	11.80	0.92	0.25	
		1.70	0.92		0.66	0.50		1.23	0.20	
U6T2RR	19.67	-0.18	0.15	6.00	-1.13		10.33	-0.17	0.72	
		-0.76	0.58		-1.00	0.00		-0.23	0.58	
ZKNFUF	22.26	0.44	0.07	7.06	0.06	0.38	11.11	0.41	0.41	
		1.83	0.25		0.05	0.21		0.55	0.33	
6W8FD7	20.11	-0.08	0.12	7.05	0.06	0.05	9.84	-0.54	0.14	
		-0.32	0.47		0.05	0.03		-0.73	0.11	
TMGXVF	19.80	-0.15	0.32	6.80	-0.23	1.09	9.90	-0.50	0.62	
		-0.63	1.21		-0.20	0.61		-0.67	0.50	
HZKKTN	30.73	2.49	4.77	6.57	-0.49	0.61	10.57	0.00	0.40	
		10.30	18.01		-0.44	0.34		0.00	0.32	



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	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD		
999DPV	22.53	0.51	0.11	7.09	0.10	0.77	11.27	0.52	0.11
		2.10	0.41		0.09	0.43		0.70	0.09
99PAHV	20.53	0.02	0.45	5.30	-1.92	0.99	9.39	-0.88	0.21
		0.10	1.71		-1.70	0.55		-1.18	0.17
4872WX	20.70	0.07	0.08	6.13	-0.99	0.20	10.43	-0.10	0.19
		0.27	0.30		-0.88	0.11		-0.13	0.15
6V7P2W	21.00	0.14		6.95	-0.06		10.50	-0.05	
		0.57	0.00		-0.05	0.00		-0.07	0.00
Grand Median		20.4			7.00			10.6	
Median Abs Dev		1.1			0.52			0.7	
Avg Within Lab SD		3.8			0.56			0.8	
Labs Included		24			24			24	
Labs Reporting		24			24			24	



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

Mo (SubTestCode 224)	in the Wet Digestion Property Groups									Data units: mg/kg
	SRB1401			SRB1402			SRB1403			
MM2LUN	0.24	-1.29	1.79	0.32	-0.58	0.30	1.08	0.86	0.45	
		-0.15	0.11		-0.06	0.01		0.11	0.09	
VFBYEB	0.31	-0.75	0.10	0.33	-0.44	0.17	0.82	-1.07	0.07	
		-0.09	0.01		-0.04	0.01		-0.14	0.02	
RJ7JU6	0.40	0.04	0.00	0.47	0.93	1.71	0.93	-0.24	0.28	
		0.00	0.00		0.09	0.06		-0.03	0.06	
ADE96P	0.60	1.73	1.66	0.27	-1.13	1.71	0.87	-0.74	2.31	
		0.20	0.10		-0.11	0.06		-0.10	0.47	
4872WX	0.39	-0.04	0.03	0.43	0.53	0.21	1.08	0.89	0.62	
		0.00	0.00		0.05	0.01		0.12	0.13	
6V7P2W	0.42	0.20		0.42	0.44		1.00	0.24		
		0.02	0.00		0.04	0.00		0.03	0.00	
Grand Median		0.40			0.38			0.97		
Median Abs Dev		0.06			0.05			0.11		
Avg Within Lab SD		0.06			0.03			0.20		
Labs Included		6			6			6		
Labs Reporting		6			6			6		



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
	Difference W/L STD			Difference W/L STD			Difference W/L STD	

P (SubTestCode 225)	in the Dry Ash Property Groups									Data units: Percent
	SRB1401			SRB1402			SRB1403			
XNEVBC	0.39	-0.36	0.61	0.30	-0.47	1.10	0.26	-0.71	0.42	
		-0.02	0.01		-0.02	0.01		-0.03	0.00	
3PWDKZ	0.47	1.04	0.45	0.43	2.02	1.79	0.35	1.48	1.87	
		0.06	0.01		0.10	0.01		0.06	0.01	
3AXLEP	0.37	-0.60	0.26	0.32	-0.13	0.89	0.28	-0.21	1.08	
		-0.04	0.01		-0.01	0.01		-0.01	0.01	
QGZJCR	0.43	0.36		0.33	0.13		0.30	0.21		
		0.02	0.00		0.01	0.00		0.01	0.00	
QXMYFN	0.44	0.53	2.32	0.36	0.65	0.89	0.31	0.38	1.08	
		0.03	0.05		0.03	0.01		0.02	0.01	
QWWVMG	0.34	-1.16		0.29	-0.65		0.25	-1.06		
		-0.07	0.00		-0.03	0.00		-0.04	0.00	
Grand Median		0.41			0.32			0.29		
Median Abs Dev		0.03			0.03			0.02		
Avg Within Lab SD		0.02			0.01			0.01		
Labs Included		6			6			6		
Labs Reporting		6			6			6		



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

K (SubTestCode 226)	in the Dry Ash Property Groups									Data units: Percent
	SRB1401			SRB1402			SRB1403			
XNEVBC	2.18	-0.61	1.64	10.26	0.86	2.43	8.06	3.59	1.25	
		-0.07	0.23		0.75	0.37		6.36	0.03	
3PWDKZ	2.48	1.97	0.11	9.59	0.10	0.04	2.01	0.17	0.47	
		0.23	0.02		0.09	0.01		0.31	0.01	
3AXLEP	2.35	0.87	0.17	9.41	-0.10	0.23	1.80	0.06	1.78	
		0.10	0.02		-0.09	0.04		0.10	0.04	
QGZJCR	2.24	-0.08		8.58	-1.06		1.58	-0.07		
		-0.01	0.00		-0.92	0.00		-0.12	0.00	
QXMYFN	2.26	0.08	1.81	8.03	-1.69	0.23	1.53	-0.10	1.03	
		0.01	0.25		-1.47	0.04		-0.17	0.03	
QWWVMG	2.20	-0.42		9.70	0.23		1.60	-0.06		
		-0.05	0.00		0.20	0.00		-0.10	0.00	
Grand Median		2.25			9.50			1.70		
Median Abs Dev		0.06			0.47			0.15		
Avg Within Lab SD		0.14			0.15			0.02		
Labs Included		6			6			6		
Labs Reporting		6			6			6		



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

Ca (SubTestCode 227)	in the Dry Ash Property Groups									Data units: Percent
	SRB1401			SRB1402			SRB1403			
XNEVBC	1.91	2.50	0.09	1.18	-0.78	1.76	1.26	2.51	0.91	
		0.52	0.01		-0.34	0.04		0.51	0.01	
3PWDKZ	1.22	-0.82	0.15	1.29	-0.53	0.49	0.63	-0.63	1.49	
		-0.17	0.01		-0.23	0.01		-0.13	0.01	
3AXLEP	1.38	-0.05	0.15	1.61	0.21	1.46	0.78	0.13	0.86	
		-0.01	0.01		0.09	0.03		0.03	0.01	
QGZJCR	1.37	-0.10		1.43	-0.21		0.73	-0.13		
		-0.02	0.00		-0.09	0.00		-0.03	0.00	
QXMYFN	1.50	0.53	2.44	1.66	0.31	0.74	0.83	0.36	1.49	
		0.11	0.16		0.14	0.02		0.07	0.01	
QWWVMG	1.40	0.05		2.40	2.01		0.70	-0.28		
		0.01	0.00		0.88	0.00		-0.06	0.00	
Grand Median		1.39			1.52			0.76		
Median Abs Dev		0.07			0.18			0.07		
Avg Within Lab SD		0.07			0.02			0.01		
Labs Included		6			6			6		
Labs Reporting		6			6			6		



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

Mg (SubTestCode 228)	in the Dry Ash Property Groups									Data units: Percent
	SRB1401			SRB1402			SRB1403			
XNEVBC	0.51	1.32	1.03	0.74	1.15	2.01	0.60	3.26	0.44	
		0.07	0.02		0.07	0.02		0.28	0.00	
3PWDKZ	0.49	0.93	0.42	0.68	0.17	0.49	0.32	-0.12	1.97	
		0.05	0.01		0.01	0.01		-0.01	0.01	
3AXLEP	0.42	-0.39	0.24	0.66	-0.17	0.99	0.33	0.08	0.98	
		-0.02	0.01		-0.01	0.01		0.01	0.01	
QGZJCR	0.41	-0.51		0.59	-1.39		0.31	-0.20		
		-0.03	0.00		-0.08	0.00		-0.02	0.00	
QXMYFN	0.46	0.39	2.17	0.71	0.61	0.85	0.35	0.31	0.98	
		0.02	0.05		0.04	0.01		0.03	0.01	
QWWVMG	0.41	-0.51		0.64	-0.56		0.32	-0.08		
		-0.03	0.00		-0.03	0.00		-0.01	0.00	
Grand Median		0.44			0.67			0.33		
Median Abs Dev		0.03			0.04			0.01		
Avg Within Lab SD		0.02			0.01			0.01		
Labs Included		6			6			6		
Labs Reporting		6			6			6		



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

Na (SubTestCode 229)	in the Dry Ash Property Groups									Data units: Percent
	SRB1401			SRB1402			SRB1403			
XNEVBC	0.14	-0.04	0.06	0.14	0.00	0.03	0.02	0.01	0.86	
		-0.02	0.01		0.00	0.00		0.00	0.00	
3PWDKZ	0.16	0.00	0.01	0.12	-0.02	0.02	0.01	-0.14	0.20	
		0.00	0.00		-0.02	0.00		-0.01	0.00	
3AXLEP	0.13	-0.05	0.04	0.10	-0.05	0.06	0.01	-0.23	0.24	
		-0.03	0.01		-0.04	0.01		-0.01	0.00	
QXMYFN	1.92	3.22	2.23	2.84	3.25	2.24	0.21	2.99	2.04	
		1.76	0.30		2.71	0.23		0.19	0.01	
QWWVMG	0.19	0.05		0.18	0.05		0.02	0.00		
		0.03	0.00		0.04	0.00		0.00	0.00	
Grand Median		0.16			0.14			0.020		
Median Abs Dev		0.03			0.04			0.009		
Avg Within Lab SD		0.14			0.10			0.005		
Labs Included		5			5			5		
Labs Reporting		5			5			5		



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

AI (SubTestCode 230)	in the Dry Ash Property Groups						Data units: mg/kg
	SRB1401		SRB1402		SRB1403		
U6T2RR	34.3	0.2	67.0	0.4	103.3	1.1	
		0.6		2.0		3.1	
QXMYFN	15.7	1.4	95.3	1.4	57.7	0.9	
		3.8		7.4		2.7	
Grand Median	25.0		81.1		80.5		
Median Abs Dev							
Avg Within Lab SD	2.7		5.4		2.9		
Labs Included	2		2		2		
Labs Reporting	2		2		2		



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

B (SubTestCode 231)	in the Dry Ash Property Groups									Data units: mg/kg
	SRB1401			SRB1402			SRB1403			
MBLU4T	39.5	0.3		31.7	0.3	0.9	14.3	-0.1	1.1	
		1.1	0.0		1.0	0.6		-0.3	0.6	
XNEVBC	37.2	-0.3	0.2	27.5	-1.0	0.2	16.6	0.8	0.3	
		-1.1	0.3		-3.1	0.1		1.9	0.2	
3PWDKZ	41.7	0.8	0.9	31.3	0.2	2.3	15.0	0.1	2.0	
		3.3	1.5		0.7	1.5		0.3	1.0	
3AXLEP	40.0	0.4	0.6	30.3	-0.1	0.9	15.3	0.3	1.1	
		1.6	1.0		-0.3	0.6		0.7	0.6	
U6T2RR	35.7	-0.7	0.9	28.3	-0.8	0.9	12.7	-0.9	1.1	
		-2.7	1.5		-2.3	0.6		-2.0	0.6	
QGZJCR	35.0	-0.8		25.0	-1.9		12.0	-1.2		
		-3.4	0.0		-5.7	0.0		-2.7	0.0	
QXMYFN	42.7	1.1	2.3	33.7	1.0	0.8	16.6	0.8	0.4	
		4.3	4.1		3.0	0.5		1.9	0.2	
QWWVMG	34.0	-1.1		31.0	0.1		12.0	-1.2		
		-4.4	0.0		0.3	0.0		-2.7	0.0	
Grand Median		38.4			30.7			14.7		
Median Abs Dev		3.0			1.7			1.9		
Avg Within Lab SD		1.8			0.7			0.5		
Labs Included		8			8			8		
Labs Reporting		8			8			8		



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

Zn (SubTestCode 232)	in the Dry Ash Property Groups									Data units: mg/kg
	SRB1401			SRB1402			SRB1403			
XNEVBC	40.8	-0.5	0.6	29.5	-0.6	1.3	14.3	-0.3	1.6	
		-4.4	1.3		-5.0	1.2		-1.8	0.9	
3PWDKZ	48.3	0.3	0.2	35.0	0.1	1.1	19.3	0.5	1.1	
		3.2	0.6		0.5	1.0		3.2	0.6	
3AXLEP	51.3	0.7	0.5	38.3	0.5	0.6	20.7	0.7	1.1	
		6.2	1.2		3.8	0.6		4.5	0.6	
QGZJCR	31.0	-1.6		16.0	-2.4		2.0	-2.1		
		-14.2	0.0		-18.5	0.0		-14.2	0.0	
QXMYFN	50.9	0.6	2.3	37.7	0.4	1.6	18.0	0.3	1.1	
		5.7	5.4		3.2	1.4		1.8	0.6	
QWWVMG	42.0	-0.3		34.0	-0.1		14.0	-0.3		
		-3.2	0.0		-0.5	0.0		-2.2	0.0	
Grand Median		45.2			34.5			16.2		
Median Abs Dev		5.0			3.5			2.7		
Avg Within Lab SD		2.3			0.9			0.5		
Labs Included		6			6			6		
Labs Reporting		6			6			6		



ALP Program - Participant Web Summary Report - Cycle 23

Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

Mn (SubTestCode 233)	in the Dry Ash Property Groups									Data units: mg/kg
	SRB1401			SRB1402			SRB1403			
XNEVBC	105.3	-0.7	1.1	61.5	-1.3	1.5	43.2	-0.4	1.6	
		-11.9	2.2		-8.8	2.7		-2.4	2.1	
3PWDKZ	151.0	2.1	0.5	79.0	1.3	0.5	57.3	2.1	0.4	
		33.8	1.0		8.7	1.0		11.7	0.6	
3AXLEP	118.0	0.1	1.6	70.3	0.0	1.3	47.0	0.2	1.5	
		0.8	3.5		0.0	2.3		1.3	2.0	
QXMYFN	117.2	0.0	1.0	72.0	0.3	0.9	45.7	0.0	0.5	
		0.0	2.1		1.7	1.7		0.0	0.7	
QWWVMG	109.0	-0.5		67.0	-0.5		42.0	-0.6		
		-8.2	0.0		-3.3	0.0		-3.7	0.0	
Grand Median		117.2		70.3			45.7			
Median Abs Dev		8.2		3.3			2.4			
Avg Within Lab SD		2.1		1.8			1.4			
Labs Included		5		5			5			
Labs Reporting		5		5			5			



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

Fe (SubTestCode 234)	in the Dry Ash Property Groups									Data units: mg/kg
	SRB1401			SRB1402			SRB1403			
XNEVBC	39.8	0.3	0.2	97.5	1.5	0.3	149.9	0.4	0.6	
		11.8	0.6		18.8	0.8		7.2	1.4	
3PWDKZ	139.7	2.8	0.5	61.7	-1.4	0.6	133.0	-0.5	0.4	
		111.7	1.5		-17.1	1.5		-9.7	1.0	
3AXLEP	27.0	0.0	0.6	74.7	-0.3	1.0	142.7	0.0	1.6	
		-1.0	1.7		-4.1	2.5		0.0	3.8	
QGZJCR	28.0	0.0		81.0	0.2		168.0	1.3		
		0.0	0.0		2.3	0.0		25.3	0.0	
QXMYFN	19.8	-0.2	2.1	78.7	0.0	1.9	120.7	-1.2	1.4	
		-8.2	6.0		0.0	4.7		-21.9	3.5	
Grand Median		28.0		78.7			142.7			
Median Abs Dev		8.2		4.1			9.7			
Avg Within Lab SD		2.9		2.5			2.4			
Labs Included		5		5			5			
Labs Reporting		5		5			5			



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

Cu (SubTestCode 235)	in the Dry Ash Property Groups									Data units: mg/kg
	SRB1401			SRB1402			SRB1403			
XNEVBC	20.91	-0.02	0.56	8.58	0.40	0.27	7.22	0.23	1.75	
		-0.09	1.14		2.25	0.73		0.55	0.90	
3PWDKZ	25.33	1.23	0.56	6.33	0.00	0.21	6.67	0.00	1.12	
		4.33	1.15		0.00	0.58		0.00	0.58	
3AXLEP	20.40	-0.17	0.08	4.60	-0.30	0.06	5.03	-0.68	0.49	
		-0.60	0.17		-1.73	0.17		-1.63	0.25	
QGZJCR	21.00	0.00		6.00	-0.06		6.00	-0.28		
		0.00	0.00		-0.33	0.00		-0.67	0.00	
QXMYFN	27.83	1.94	2.09	21.20	2.61	2.21	11.93	2.19	0.68	
		6.83	4.31		14.87	5.93		5.27	0.35	
Grand Median		21.0		6.33			6.67			
Median Abs Dev		0.6		1.73			0.67			
Avg Within Lab SD		2.1		2.69			0.52			
Labs Included		5		5			5			
Labs Reporting		5		5			5			



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

Mo (SubTestCode 236)	in the Dry Ash Property Groups						Data units: mg/kg
	SRB1401		SRB1402		SRB1403		
QXMYFN	0.33	1.00			0.60	1.00	
		0.06				0.10	
Grand Median	0.33				0.60		
Median Abs Dev							
Avg Within Lab SD	0.06		0.00		0.10		
Labs Included	1		0		1		
Labs Reporting	1		0		1		



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

As (SubTestCode 237)	in the Heavy Metals Property Groups						Data units: mg/kg
	SRB1401		SRB1402		SRB1403		
VFBYEB	0.29	1.39	0.25	0.51	0.32	1.24	
		0.02		0.01		0.03	
4872WX	0.07	0.26	0.10	1.32	0.13	0.69	
		0.00		0.01		0.01	
Grand Median	0.18		0.17		0.23		
Median Abs Dev							
Avg Within Lab SD	0.01		0.01		0.02		
Labs Included	2		2		2		
Labs Reporting	2		2		2		



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

Ba (SubTestCode 238)	in the Heavy Metals Property Groups									Data units: mg/kg
	SRB1401			SRB1402			SRB1403			
VFBYEB	20.4	-1.2	1.3	58.2	-0.3	0.9	7.6	0.7	1.1	
		-2.2	0.4		-1.3	1.9		0.5	0.1	
EHV3AC	22.3	-0.2	1.0	57.2	-0.5	1.3	6.7	-0.4	0.7	
		-0.4	0.3		-2.4	2.8		-0.3	0.1	
999DPV	24.8	1.1	0.6	66.3	1.5	0.9	7.4	0.4	0.8	
		2.1	0.2		6.7	1.9		0.3	0.1	
4872WX	23.1	0.2	1.0	60.9	0.3	0.9	6.1	-1.2	1.3	
		0.4	0.3		1.3	1.9		-1.0	0.2	
Grand Median	22.7			59.6			7.04			
Median Abs Dev	1.3			1.9			0.43			
Avg Within Lab SD	0.3			2.2			0.12			
Labs Included	4			4			4			
Labs Reporting	4			4			4			



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

Cd (SubTestCode 239)	in the Heavy Metals Property Groups						Data units: mg/kg
	SRB1401		SRB1402			SRB1403	
MBLU4T	0.08	1.56	1.42	0.20	0.39	0.07	1.69
		0.02		0.03	0.03		0.02
VFBYEB	0.08	0.68	1.26	-0.82	0.71	0.07	0.39
		0.01		-0.12	0.05		0.01
EHV3AC			1.27	-0.80	1.59		
				-0.12	0.12		
999DPV			1.62	1.55	1.15		
				0.23	0.08		
4872WX	0.09	0.30	1.39	0.00	0.70	0.03	0.04
		0.00		0.00	0.05		0.00
Grand Median	0.085		1.39			0.067	
Median Abs Dev			0.12				
Avg Within Lab SD	0.015		0.07			0.015	
Labs Included	3		5			3	
Labs Reporting	3		5			3	



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

Co (SubTestCode 240)	in the Heavy Metals Property Groups									Data units: mg/kg
	SRB1401			SRB1402			SRB1403			
MBLU4T	0.06	-0.17	1.80	0.40	0.34	0.73	0.04	-0.50	1.88	
		-0.01	0.04		0.02	0.01		-0.03	0.02	
VFBYEB	0.05	-0.41	0.27	0.28	-2.09	0.34	0.05	-0.26	0.00	
		-0.01	0.01		-0.11	0.01		-0.02	0.00	
RJ7JU6	0.13	1.93	0.82	0.40	0.33	0.59	0.17	1.68	0.49	
		0.07	0.02		0.02	0.01		0.10	0.01	
EHV3AC				0.37	-0.33	0.68				
					-0.02	0.01				
999DPV				0.40	0.37	2.11				
					0.02	0.04				
4872WX	0.07	0.17	0.16	0.35	-0.59	0.26	0.08	0.26	0.48	
		0.01	0.00		-0.03	0.00		0.02	0.01	
Grand Median		0.061			0.38			0.066		
Median Abs Dev		0.010			0.02			0.023		
Avg Within Lab SD		0.021			0.02			0.012		
Labs Included		4			6			4		
Labs Reporting		4			6			4		



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

Ni (SubTestCode 241)	in the Heavy Metals Property Groups									Data units: mg/kg
	SRB1401			SRB1402			SRB1403			
MBLU4T	2.03	0.18	1.38	1.04	0.02	1.85	1.40	-0.20	1.66	
		0.03	0.21		0.00	0.20		-0.03	0.25	
VFBYEB	1.64	-1.89	0.20	1.01	-0.48	0.42	1.34	-0.54	0.27	
		-0.36	0.03		-0.04	0.05		-0.08	0.04	
EHV3AC	2.00	0.00	1.31				1.60	1.12	1.31	
		0.00	0.20					0.17	0.20	
999DPV	2.23	1.20	0.42	1.21	2.19	0.40	1.66	1.51	0.44	
		0.23	0.06		0.17	0.04		0.23	0.07	
4872WX	1.98	-0.11	1.08	1.04	-0.02	0.48	1.43	0.00	0.50	
		-0.02	0.17		0.00	0.05		0.00	0.08	
Grand Median		2.00			1.04			1.43		
Median Abs Dev		0.03			0.02			0.08		
Avg Within Lab SD		0.15			0.11			0.15		
Labs Included		5			4			5		
Labs Reporting		5			4			5		



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

Pb (SubTestCode 242)	in the Heavy Metals Property Groups						Data units: mg/kg
	SRB1401		SRB1402		SRB1403		
VFBYEB	0.20	1.41	0.40	1.27	0.32	1.38	
		0.04		0.05		0.04	
4872WX	0.06	0.08	0.18	0.63	0.12	0.30	
		0.00		0.02		0.01	
Grand Median	0.13		0.29		0.22		
Median Abs Dev							
Avg Within Lab SD	0.02		0.04		0.03		
Labs Included	2		2		2		
Labs Reporting	2		2		2		



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

Sr (SubTestCode 243)	in the Heavy Metals Property Groups									Data units: mg/kg
	SRB1401			SRB1402			SRB1403			
MBLU4T	121.4	0.5	0.0	75.1	0.5	0.0	21.4	2.3	0.0	
		6.6	0.0		2.4	0.0		6.9	0.0	
VFBYEB	101.5	-1.1	1.8	69.7	-0.6	0.9	15.6	0.4	0.5	
		-13.3	2.6		-3.1	1.8		1.1	0.1	
RJ7JU6	111.3	-0.3	1.2	72.5	0.0	0.3	13.6	-0.3	1.3	
		-3.5	1.7		-0.2	0.6		-0.9	0.3	
EHV3AC	103.0	-1.0	0.3	64.2	-1.7	0.8	13.0	-0.5	0.5	
		-11.9	0.4		-8.5	1.5		-1.5	0.1	
999DPV	125.8	0.9	0.0	78.4	1.1	1.7	15.3	0.3	1.0	
		10.9	0.1		5.7	3.2		0.9	0.2	
4872WX	118.3	0.3	1.1	73.0	0.0	1.3	13.3	-0.4	1.7	
		3.5	1.5		0.2	2.5		-1.1	0.3	
Grand Median	114.8			72.7			14.4			
Median Abs Dev	8.8			2.7			1.1			
Avg Within Lab SD	1.4			1.9			0.2			
Labs Included	6			6			6			
Labs Reporting	6			6			6			



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		



ALP Program - Participant Web Summary Report - Cycle 23

Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

PH (SubTestCode 301)	Data units:								
	SRW1401			SRW1402			SRW1403		
MBLU4T	9.08	0.36	0.00	7.97	-0.25	0.00	7.79	0.41	0.00
		0.28	0.00		-0.04	0.00		0.11	0.00
MM2LUN	9.10	0.38	2.49	8.13	0.87	1.49	7.93	0.94	1.49
		0.30	0.20		0.13	0.06		0.26	0.06
LEBJDL	8.58	-0.28	0.54	7.95	-0.41	1.04	7.68	0.00	0.65
		-0.22	0.04		-0.06	0.04		0.00	0.03
T3CD22	9.04	0.31	0.12	8.17	1.14	0.39	7.91	0.85	0.26
		0.24	0.01		0.17	0.02		0.23	0.01
3AXLEP	9.23	0.55	0.69	8.01	0.00	1.16	7.87	0.71	0.68
		0.43	0.06		0.00	0.05		0.19	0.03
ADE96P	8.80	0.00	1.24	8.03	0.18	1.49	7.37	-1.13	1.49
		0.00	0.10		0.03	0.06		-0.31	0.06
U6T2RR	8.04	-0.97	0.25	7.99	-0.09	1.32	7.60	-0.29	0.30
		-0.76	0.02		-0.01	0.05		-0.08	0.01
6W8FD7	7.04	-2.26	0.63	7.59	-2.88	0.39	7.31	-1.34	1.86
		-1.76	0.05		-0.42	0.02		-0.37	0.07
999DPV	8.05	-0.96	0.14	8.04	0.25	0.30	7.57	-0.40	0.15
		-0.75	0.01		0.04	0.01		-0.11	0.01
Grand Median		8.80		8.01			7.68		
Median Abs Dev		0.30		0.04			0.19		
Avg Within Lab SD		0.08		0.04			0.04		
Labs Included		9		9			9		
Labs Reporting		9		9			9		



ALP Program - Participant Web Summary Report - Cycle 23

Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

EC (SubTestCode 302) Data units: dS/m									
	SRW1401			SRW1402			SRW1403		
MBLU4T	0.10	-1.07	0.21	0.22	-0.40	0.26	0.77	-0.26	0.11
		-0.01	0.00		0.00	0.00		-0.02	0.00
MM2LUN	0.12	1.26	0.00	0.22	0.00	0.00	0.78	-0.16	1.13
		0.01	0.00		0.00	0.00		-0.01	0.01
LEBJDL	0.11	-0.61	2.06	0.22	-0.51	1.32	0.79	0.05	2.35
		0.00	0.01		0.00	0.01		0.00	0.02
T3CD22	0.10	-1.54	0.00	0.21	-1.52	2.29	0.79	0.00	1.13
		-0.01	0.00		-0.01	0.01		0.00	0.01
3AXLEP	0.11	0.33	2.06	0.22	0.51	1.32	0.81	0.27	0.65
		0.00	0.01		0.00	0.01		0.02	0.01
ADE96P	0.11	0.47	0.21	0.24	2.63	0.35	0.69	-1.71	0.20
		0.00	0.00		0.02	0.00		-0.10	0.00
U6T2RR	0.11	-0.14	0.00	0.22	0.00	0.00	0.82	0.55	0.65
		0.00	0.00		0.00	0.00		0.03	0.01
6W8FD7	0.12	0.65	0.21	0.22	0.05	0.13	0.81	0.27	0.07
		0.00	0.00		0.00	0.00		0.02	0.00
999DPV	0.11	0.00	0.62	0.22	-0.46	0.23	0.62	-2.79	0.00
		0.00	0.00		0.00	0.00		-0.17	0.00
Grand Median		0.11		0.22			0.79		
Median Abs Dev		0.00		0.00			0.02		
Avg Within Lab SD		0.00		0.00			0.01		
Labs Included		9		9			9		
Labs Reporting		9		9			9		



ALP Program - Participant Web Summary Report - Cycle 23

Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

Ca (SubTestCode 303)	in the Cations Property Groups									Data units: mmolc/L
	SRW1401			SRW1402			SRW1403			
MBLU4T	0.29	0.00	0.10	1.29	0.14	0.00	4.03	0.00	0.26	
		0.00	0.00		0.03	0.00		0.00	0.03	
MM2LUN	0.30	0.22	1.78	1.23	-0.09	2.30	4.15	0.13	1.79	
		0.01	0.05		-0.02	0.08		0.12	0.17	
LEBJDL	0.29	0.00	0.90	1.20	-0.25	0.46	4.06	0.04	0.42	
		0.00	0.03		-0.06	0.02		0.04	0.04	
T3CD22	0.36	1.25	0.06	1.32	0.27	0.46	4.55	0.53	0.52	
		0.07	0.00		0.06	0.02		0.52	0.05	
3AXLEP	0.23	-0.90	2.06	1.17	-0.38	1.74	4.10	0.07	2.07	
		-0.05	0.06		-0.09	0.06		0.07	0.20	
ADE96P	0.32	0.51	0.64	1.30	0.21	0.15	3.34	-0.70	0.73	
		0.03	0.02		0.05	0.01		-0.69	0.07	
U6T2RR	0.27	-0.34	0.54	1.25	0.00	0.17	3.96	-0.06	0.67	
		-0.02	0.02		0.00	0.01		-0.06	0.07	
6W8FD7	0.12	-2.84	0.29	0.19	-4.63	0.36	0.60	-3.49	0.01	
		-0.17	0.01		-1.07	0.01		-3.43	0.00	
999DPV	0.29	-0.02	0.05	1.28	0.11	0.25	3.00	-1.05	0.09	
		0.00	0.00		0.02	0.01		-1.03	0.01	
Grand Median		0.29			1.25			4.03		
Median Abs Dev		0.02			0.05			0.12		
Avg Within Lab SD		0.03			0.03			0.10		
Labs Included		9			9			9		
Labs Reporting		9			9			9		



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

Mg (SubTestCode 304)	in the Cations Property Groups									Data units: mmolc/L
	SRW1401			SRW1402			SRW1403			
MBLU4T	0.35	-0.17	0.04	0.43	-0.13	0.00	1.55	-0.03	0.00	
		-0.01	0.00		-0.01	0.00		-0.01	0.00	
MM2LUN	0.39	0.25	1.08	0.50	0.65		1.64	0.16	1.82	
		0.02	0.05		0.06	0.00		0.07	0.05	
LEBJDL	0.38	0.19	0.34	0.44	0.00	0.37	1.60	0.07	0.66	
		0.02	0.02		0.00	0.02		0.03	0.02	
T3CD22	0.42	0.65	0.13	0.46	0.22	0.21	1.85	0.64	0.38	
		0.06	0.01		0.02	0.01		0.28	0.01	
3AXLEP	0.33	-0.38	1.30	0.47	0.29	1.23	1.57	0.00	2.19	
		-0.03	0.06		0.03	0.06		0.00	0.06	
ADE96P	0.32	-0.55	2.45	0.46	0.16	2.70	1.13	-0.98	0.17	
		-0.05	0.11		0.02	0.13		-0.44	0.00	
U6T2RR	0.37	0.00	0.13	0.43	-0.11	0.00	1.57	0.01	0.44	
		0.00	0.01		-0.01	0.00		0.01	0.01	
6W8FD7	0.04	-3.76	0.03	0.04	-4.32	0.01	0.16	-3.15	0.06	
		-0.33	0.00		-0.40	0.00		-1.40	0.00	
999DPV	0.38	0.11	0.02	0.42	-0.19	0.06	1.11	-1.02	0.32	
		0.01	0.00		-0.02	0.00		-0.46	0.01	
Grand Median		0.37			0.44			1.57		
Median Abs Dev		0.02			0.02			0.07		
Avg Within Lab SD		0.04			0.05			0.03		
Labs Included		9			9			9		
Labs Reporting		9			9			9		



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

Na (SubTestCode 305)	in the Cations Property Groups									Data units: mmolc/L
	SRW1401			SRW1402			SRW1403			
MBLU4T	0.40	0.14	0.00	0.41	0.23	0.00	1.17	0.32	0.00	
		0.01	0.00		0.02	0.00		0.07	0.00	
MM2LUN	0.39	0.00	1.73	0.38	-0.19	1.14	1.17	0.32	1.67	
		0.00	0.04		-0.01	0.03		0.07	0.04	
LEBJDL	0.40	0.14	0.69	0.40	0.07	0.52	1.21	0.51	0.59	
		0.01	0.02		0.00	0.01		0.10	0.02	
T3CD22	0.41	0.24	0.46	0.42	0.33	0.69	1.27	0.79	0.38	
		0.02	0.01		0.02	0.02		0.16	0.01	
3AXLEP	0.37	-0.38	2.29	0.33	-0.76	2.62	1.07	-0.21	2.21	
		-0.02	0.06		-0.06	0.06		-0.04	0.06	
ADE96P	0.45	0.94	0.16	0.47	1.00	0.13	1.11	0.00	0.67	
		0.06	0.00		0.08	0.00		0.00	0.02	
U6T2RR	0.35	-0.69	0.23	0.36	-0.41	0.00	1.07	-0.17	0.59	
		-0.04	0.01		-0.03	0.00		-0.04	0.02	
6W8FD7	0.17	-3.45	0.08	0.16	-3.08	0.14	0.50	-2.98	0.09	
		-0.22	0.00		-0.24	0.00		-0.61	0.00	
999DPV	0.39	-0.09	0.09	0.39	0.00	0.16	0.95	-0.76	0.19	
		-0.01	0.00		0.00	0.00		-0.16	0.00	
Grand Median		0.39		0.39			1.11			
Median Abs Dev		0.02		0.02			0.07			
Avg Within Lab SD		0.03		0.02			0.03			
Labs Included		9		9			9			
Labs Reporting		9		9			9			



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

K (SubTestCode 306)	in the Cations Property Groups									Data units: mmol/L
	SRW1401			SRW1402			SRW1403			
MBLU4T	0.01	-0.42	0.00	0.17	0.00	0.00	0.36	0.49	0.00	
		-0.01	0.00		0.00	0.00		0.02	0.00	
MM2LUN	0.00	-0.91	0.00	0.14	-1.24	2.17	0.32	-0.58	2.15	
		-0.01	0.00		-0.03	0.01		-0.02	0.01	
LEBJDL	0.02	0.55	1.02	0.17	0.04	1.47	0.37	0.69	0.84	
		0.01	0.01		0.00	0.01		0.02	0.01	
ADE96P	0.05	2.47	2.44	0.19	0.73	0.17	0.36	0.49	0.95	
		0.04	0.01		0.02	0.00		0.02	0.01	
U6T2RR	0.01	-0.29	0.00	0.16	-0.34	0.00	0.34	0.00	0.84	
		0.00	0.00		-0.01	0.00		0.00	0.01	
6W8FD7	0.02	0.09	0.18	0.11	-2.11	0.17	0.27	-2.10	0.08	
		0.00	0.00		-0.06	0.00		-0.07	0.00	
999DPV	0.01	0.00	0.02	0.18	0.26	0.21	0.33	-0.37	0.25	
		0.00	0.00		0.01	0.00		-0.01	0.00	
Grand Median		0.015		0.17			0.34			
Median Abs Dev		0.007		0.01			0.02			
Avg Within Lab SD		0.006		0.01			0.01			
Labs Included		7		7			7			
Labs Reporting		7		7			7			



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

NH4-N (SubTestCode 307)	in the Cations Property Groups						Data units: mmolc/L
	SRW1401		SRW1402		SRW1403		
MM2LUN	0.001	0.000	0.001	1.292	0.005	1.399	
		0.000		0.000		0.008	
ADE96P	0.003	1.414	0.001	0.574	0.003	0.206	
		0.001		0.000		0.001	
Grand Median	0.002		0.001		0.004		
Median Abs Dev							
Avg Within Lab SD	0.001		0.000		0.006		
Labs Included	2		2		2		
Labs Reporting	2		2		2		



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

Sum Cations (SubTestCode 308)	in the Cations Property Groups									Data units: mmolc/L
	SRW1401			SRW1402			SRW1403			
MBLU4T	1.05	-0.24	0.09	2.29	0.22	0.00	7.11	0.12	0.17	
		-0.02	0.00		0.02	0.00		0.07	0.03	
MM2LUN	1.08	0.24	1.03	2.25	-0.22	1.11	7.29	0.44	1.86	
		0.02	0.05		-0.02	0.09		0.24	0.28	
ADE96P	1.14	1.13	1.64	2.41	1.48	1.66	5.94	-2.02	0.61	
		0.08	0.09		0.15	0.13		-1.11	0.09	
U6T2RR	0.99	-1.08	0.48	2.19	-0.77	0.07	6.98	-0.12	0.39	
		-0.08	0.03		-0.08	0.01		-0.07	0.06	
Grand Median		1.06			2.27			7.05		
Median Abs Dev		0.05			0.05			0.15		
Avg Within Lab SD		0.05			0.08			0.15		
Labs Included		4			4			4		
Labs Reporting		4			4			4		



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

SAR (SubTestCode 309)	in the Cations Property Groups									Data units:
	SRW1401			SRW1402			SRW1403			
MBLU4T	0.23	-0.84	0.01	0.38	0.28	0.00	1.96	2.15	0.16	
		-0.26	0.00		0.02	0.00		1.29	0.00	
MM2LUN	0.67	0.59	1.51	0.40	0.55	0.00	0.70	0.06	0.00	
		0.18	0.12		0.04	0.00		0.03	0.00	
3AXLEP	0.70	0.69	1.31	0.33	-0.28	2.00	0.63	-0.06	1.99	
		0.21	0.10		-0.02	0.06		-0.03	0.06	
6W8FD7	0.30	-0.59	0.10	0.23	-1.58	0.05	0.40	-0.44	0.05	
		-0.18	0.01		-0.13	0.00		-0.26	0.00	
Grand Median		0.49			0.36			0.67		
Median Abs Dev		0.20			0.03			0.15		
Avg Within Lab SD		0.08			0.03			0.03		
Labs Included		4			4			4		
Labs Reporting		4			4			4		



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

Adj-SAR (SubTestCode 310)	in the Cations Property Groups						Data units:
	SRW1401		SRW1402		SRW1403		
MM2LUN	0.43	1.00	0.40	0.00	0.60	0.00	
		0.06		0.00		0.00	
3AXLEP	0.47	1.00	0.33	1.41	0.57	1.41	
		0.06		0.06		0.06	
Grand Median	0.45		0.37		0.58		
Median Abs Dev							
Avg Within Lab SD	0.06		0.04		0.04		
Labs Included	2		2		2		
Labs Reporting	2		2		2		



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

HCO3 (SubTestCode 311)	in the Anions Property Groups									Data units: mmol/L
	SRW1401			SRW1402			SRW1403			
MBLU4T	0.70	-0.30	0.00	1.81	-0.15	0.00	0.76	-0.28	0.00	
		-0.04	0.00		-0.02	0.00		-0.04	0.00	
MM2LUN	0.69	-0.38	0.00	1.74	-0.64	2.12	0.80	0.00	1.10	
		-0.05	0.00		-0.09	0.18		0.00	0.11	
LEBJDL	0.74	0.00	0.94	1.83	0.00	0.32	0.82	0.14	0.22	
		0.00	0.10		0.00	0.03		0.02	0.02	
T3CD22	0.88	0.95	0.10	1.90	0.54	0.18	0.82	0.19	0.12	
		0.14	0.01		0.07	0.02		0.03	0.01	
3AXLEP	0.93	1.33	2.26	2.00	1.25		1.07	1.99	2.39	
		0.19	0.23		0.17	0.00		0.27	0.23	
ADE96P	0.62	-0.85	0.29	1.56	-1.95	0.65	0.52	-2.09	0.01	
		-0.12	0.03		-0.27	0.05		-0.28	0.00	
U6T2RR	0.87	0.91	0.95	1.86	0.20	1.40	0.79	-0.03	0.06	
		0.13	0.10		0.03	0.12		0.00	0.01	
Grand Median		0.74		1.83			0.80			
Median Abs Dev		0.12		0.07			0.03			
Avg Within Lab SD		0.10		0.08			0.10			
Labs Included		7		7			7			
Labs Reporting		7		7			7			



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

CO3 (SubTestCode 312)	in the Anions Property Groups								Data units: mmolc/L
	SRW1401			SRW1402			SRW1403		
MBLU4T	0.13	-0.02	0.00						
		0.00	0.00						
MM2LUN	0.33	2.14	0.00	0.17	1.00	0.10		0.00	
		0.20	0.00		0.06				
LEBJDL	0.09	-0.48	2.15						
		-0.05	0.07						
3AXLEP	0.20	0.72	0.00						
		0.07	0.00						
ADE96P	0.13	0.00	0.60						
		0.00	0.02						
Grand Median		0.13		0.17		0.10			
Median Abs Dev		0.05							
Avg Within Lab SD		0.03		0.06		0.00			
Labs Included		5		1		1			
Labs Reporting		5		1		1			



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

CI (SubTestCode 313)	in the Anions Property Groups									Data units: mmol/L
	SRW1401			SRW1402			SRW1403			
MBLU4T	0.200	0.094	0.000	0.065	-0.010	0.000	2.082	0.046	0.000	
		0.020	0.000		-0.003	0.000		0.042	0.000	
MM2LUN	0.132	-0.227	0.514	0.056	-0.041	0.000	2.040	0.000	1.767	
		-0.048	0.016		-0.011	0.000		0.000	0.114	
LEBJDL	0.183	0.016	1.739	0.133	0.240	2.743	1.887	-0.171	0.179	
		0.003	0.055		0.066	0.107		-0.154	0.012	
T3CD22	0.187	0.031	0.182	0.157	0.325	0.148	2.337	0.329	0.179	
		0.007	0.006		0.089	0.006		0.296	0.012	
3AXLEP	0.123	-0.266	0.482	0.930	3.153	0.925	2.003	-0.041	0.795	
		-0.057	0.015		0.862	0.036		-0.037	0.051	
ADE96P	0.180	0.000	1.331	0.068	0.000	0.325	1.677	-0.404	2.179	
		0.000	0.042		0.000	0.013		-0.364	0.141	
U6T2RR	0.097	-0.391	0.182	0.023	-0.162	0.148	2.073	0.037	0.179	
		-0.083	0.006		-0.044	0.006		0.033	0.012	
6W8FD7	1.220	4.884	1.900	0.629	2.054	0.684	6.145	4.560	0.630	
		1.040	0.060		0.562	0.027		4.105	0.041	
999DPV	0.146	-0.161	0.173	0.044	-0.085	0.056	1.606	-0.482	0.045	
		-0.034	0.005		-0.023	0.002		-0.434	0.003	
Grand Median		0.18			0.068			2.04		
Median Abs Dev		0.03			0.044			0.15		
Avg Within Lab SD		0.03			0.039			0.06		
Labs Included		9			9			9		
Labs Reporting		9			9			9		



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

NO3 (SubTestCode 314)			in the Anions Property Groups						Data units: mmolc/L
	SRW1401			SRW1402			SRW1403		
MBLU4T	0.006	-0.012	0.038	0.070	0.010	0.100	3.289	0.000	0.081
		-0.001	0.000		0.002	0.001		0.000	0.039
MM2LUN	0.001	-0.090	0.000	0.050	-0.088	0.617	3.602	0.033	0.053
		-0.006	0.000		-0.018	0.007		0.314	0.025
LEBJDL	0.123	1.663	2.847	0.147	0.394	2.777	3.863	0.061	1.365
		0.116	0.031		0.079	0.032		0.575	0.649
T3CD22	0.100	1.329	0.000	0.760	3.448	0.864	50.940	5.051	2.573
		0.093	0.000		0.692	0.010		47.651	1.224
3AXLEP	0.010	0.043	0.000	0.050	-0.088	0.000	2.737	-0.059	0.200
		0.003	0.000		-0.018	0.000		-0.552	0.095
ADE96P	0.007	0.000	0.000	0.062	-0.029	0.349	2.924	-0.039	0.630
		0.000	0.000		-0.006	0.004		-0.365	0.300
U6T2RR	0.005	-0.029	0.161	0.066	-0.010	0.180	0.324	-0.314	0.019
		-0.002	0.002		-0.002	0.002		-2.965	0.009
6W8FD7	0.210	2.901	0.932	0.470	2.004	0.000	7.433	0.439	0.243
		0.203	0.010		0.402	0.000		4.145	0.115
999DPV	0.007	-0.004	0.010	0.068	0.000	0.013	2.589	-0.074	0.109
		0.000	0.000		0.000	0.000		-0.699	0.052
Grand Median		0.007			0.068			3.29	
Median Abs Dev		0.003			0.018			0.57	
Avg Within Lab SD		0.011			0.012			0.48	
Labs Included		9			9			9	
Labs Reporting		9			9			9	



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

SO4 (SubTestCode 315)	in the Anions Property Groups									Data units: mmolc/L
	SRW1401			SRW1402			SRW1403			
MBLU4T	0.08	-0.13	0.00	0.26	-0.08	0.00	0.88	-0.05	0.17	
		0.00	0.00		-0.01	0.00		-0.01	0.00	
MM2LUN	0.08	0.06	2.64	0.27	0.03	2.55	0.91	0.12	1.73	
		0.00	0.04		0.00	0.04		0.03	0.04	
LEBJDL	0.10	0.54	0.42	0.30	0.54	1.08	0.94	0.25	1.47	
		0.02	0.01		0.03	0.02		0.06	0.03	
T3CD22	0.10	0.73	0.25	0.30	0.49	0.00	0.96	0.35	0.73	
		0.02	0.00		0.03	0.00		0.08	0.02	
3AXLEP	0.06	-0.89	0.85	0.24	-0.49	0.41	0.89	-0.01	1.38	
		-0.02	0.01		-0.03	0.01		0.00	0.03	
ADE96P	0.09	0.37	0.25	0.28	0.19	0.00	0.64	-1.14	0.62	
		0.01	0.00		0.01	0.00		-0.25	0.01	
U6T2RR	0.08	-0.06	0.00	0.27	-0.03	0.41	0.89	0.01	0.00	
		0.00	0.00		0.00	0.01		0.00	0.00	
6W8FD7	0.01	-2.63	0.01	0.04	-3.55	0.00	0.14	-3.47	0.03	
		-0.07	0.00		-0.23	0.00		-0.75	0.00	
Grand Median		0.082			0.27			0.89		
Median Abs Dev		0.013			0.02			0.04		
Avg Within Lab SD		0.014			0.01			0.02		
Labs Included		8			8			8		
Labs Reporting		8			8			8		



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

Sum Anions (SubTestCode 316)	in the Anions Property Groups									Data units: mmolc/L
	SRW1401			SRW1402			SRW1403			
MBLU4T	1.11	0.32	0.01	2.21	-0.02	0.01	7.01	0.37	0.17	
		0.03	0.00		0.00	0.00		0.63	0.04	
MM2LUN	1.24	1.56	0.34	2.29	0.65	1.75	7.39	0.60	1.23	
		0.16	0.02		0.08	0.24		1.01	0.30	
ADE96P	1.03	-0.49	1.18	1.98	-2.00	0.46	5.76	-0.37	1.57	
		-0.05	0.07		-0.24	0.06		-0.63	0.38	
U6T2RR	1.05	-0.32	1.58	2.21	0.02	0.85	4.08	-1.36	0.04	
		-0.03	0.09		0.00	0.12		-2.30	0.01	
Grand Median		1.08			2.21			6.38		
Median Abs Dev		0.04			0.04			0.82		
Avg Within Lab SD		0.06			0.14			0.24		
Labs Included		4			4			4		
Labs Reporting		4			4			4		



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

Cation-Anion Difference (SubTestCode 317)	in the Difference Calculation Property Groups									Data units:
	SRW1401			SRW1402			SRW1403			
MBLU4T	-0.068	-0.021	0.053	0.083	0.239	0.008	0.107	-0.032	0.148	
		-0.002	0.004		0.052	0.001		-0.036	0.033	
MM2LUN	-0.156	-0.902	0.571	-0.039	-0.329	1.371	-0.097	-0.211	0.966	
		-0.091	0.048		-0.071	0.186		-0.240	0.216	
ADE96P	0.111	1.755	1.330	0.440	1.890	1.192	0.180	0.032	1.725	
		0.177	0.113		0.408	0.162		0.036	0.386	
U6T2RR	-0.063	0.021	1.379	-0.020	-0.239	0.835	2.903	2.423	0.262	
		0.002	0.117		-0.052	0.114		2.760	0.059	
Grand Median		-0.065			0.032			0.14		
Median Abs Dev		0.046			0.061			0.14		
Avg Within Lab SD		0.085			0.136			0.22		
Labs Included		4			4			4		
Labs Reporting		4			4			4		



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

Boron (SubTestCode 318)	in the Other Property Groups									Data units: mg/L
	SRW1401			SRW1402			SRW1403			
MBLU4T	0.010	0.000	0.000	0.027	-0.444	1.316	0.179	2.894	0.713	
		0.000	0.000		-0.003	0.006		0.089	0.006	
MM2LUN	0.010	0.000	0.000	0.030	0.000	0.000	0.090	0.000	0.000	
		0.000	0.000		0.000	0.000		0.000	0.000	
T3CD22	0.010	0.000	0.000	0.031	0.089	0.263	0.095	0.173	0.622	
		0.000	0.000		0.001	0.001		0.005	0.005	
3AXLEP	0.016	3.372	2.236	0.050	2.666	2.280	0.090	0.000	2.139	
		0.006	0.005		0.020	0.010		0.000	0.017	
ADE96P	0.010	0.000	0.000	0.020	-1.333	0.000	0.060	-0.972	1.235	
		0.000	0.000		-0.010	0.000		-0.030	0.010	
U6T2RR				0.030	0.000	0.000	0.090	0.000	0.000	
					0.000	0.000		0.000	0.000	
999DPV				0.029	-0.189	0.033	0.069	-0.683	0.046	
					-0.001	0.000		-0.021	0.000	
Grand Median		0.010			0.030			0.09		
Median Abs Dev		0.000			0.001			0.01		
Avg Within Lab SD		0.002			0.004			0.01		
Labs Included		5			7			7		
Labs Reporting		5			7			7		



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

PO4-P Phosphorus - Spec (SubTestCode 319) SRW1401	in the Other Property Groups						Data units: mg/L
	SRW1402		SRW1403		SRW1403		
MM2LUN	0.01	1.00	0.30	1.41	0.09	1.00	
		0.00		0.03		0.01	
999DPV			0.15	0.14			
				0.00			
Grand Median	0.010		0.23		0.09		
Median Abs Dev							
Avg Within Lab SD	0.000		0.02		0.01		
Labs Included	1		2		1		
Labs Reporting	1		2		1		



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		

Phosphorus - ICP (Total) (SubTestCode 320)	in the Other Property Groups						Data units: mg/L
	SRW1401			SRW1402			SRW1403
MBLU4T	0.01	-1.14	0.07	0.14	-0.66	0.04	0.01 0.08
		-0.02	0.00		-0.02	0.00	0.00
ADE96P	0.03	0.08	1.91	0.19	1.21	2.22	0.03 1.66
		0.00	0.03		0.04	0.05	0.02
U6T2RR	0.03	-0.08	0.42	0.13	-0.82	0.00	
		0.00	0.01		-0.03	0.00	
6W8FD7	0.06	1.39	0.42	0.18	0.68	0.25	0.05 0.48
		0.03	0.01		0.02	0.01	0.01
999DPV				0.16	0.00	0.03	
					0.00	0.00	
Grand Median		0.028		0.16			0.030
Median Abs Dev		0.013		0.02			
Avg Within Lab SD		0.014		0.02			0.012
Labs Included		4		5			3
Labs Reporting		4		5			3



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		



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Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score	Sample Mean	Z Score	k Score
Difference W/L STD			Difference W/L STD			Difference W/L STD		
