

# ALP Program

## Participant Web Summary Report

Round #29



*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 - Round Overview

The Agriculture Laboratory Proficiency (ALP) Program Spring 2016 (Cycle 29) was completed in May 2016, with participation by 104 labs from the United States, Canada, Guatemala, South Africa, Italy, Romania, UAE and the Philippines. Proficiency samples consisted of five soils, Four botanical and three water samples. Analytical methods evaluated are base on those published by AOAC, four regional soil work groups, the Soil Plant Analysis Council and Forestry Canada.



Standard Reference Soils (SRS), materials used for the soils program were: SRS1601 a Clarno-Davison loam collected from McCook Cty, SD; SRS1602 a sandy clay loam collected from Huron, ON CANADA; SRS1603 a Woodbridge fine sandy loam collected Kennebec Cty, ME; SRS1604 a Sebastopol sandy loam collected Sonoma Cty, CA; and SRS1605 a Marvyn loamy sand collected Lee Cty, AL. Standard Reference Botanical (SRB) materials were: SRB1601 corn leaf composite from CT; SRB1602 almond leaf composite from CA; SRB1603 corn leaf V5 from CA and SRB1604 sorghum leaf. Standard Reference Water (SRW) solutions represent agriculture water samples collected from: SRW1601 well water in CT, SRW1602 well water in IA, and SRW1603 irrigation water in CO.

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.

#### *Special Topics:*

Discussion of Statistics  
in ALP Reports.

Quick Key to Analysis  
Tables.

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

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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.

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## 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.

$$\text{WithinLab Performance} = \frac{\text{laboratory standard deviation}}{\text{Within Lab Average Standard Deviation}} \qquad \text{Laboratory-Sample Bias} = \frac{(\text{laboratory mean} - \text{Grand Median})}{\text{M.A.D.}}$$

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.

$$\text{k Score} = \frac{\text{laboratory standard deviation}}{\text{Within Lab Average Standard Deviation}} \qquad \text{Z Score} = \frac{(\text{laboratory mean} - \text{Grand Median})}{1.48(\text{M.A.D.})}$$



Key to Data Tables

**Laboratory Results**

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

**Consensus Results**

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



## ALP Program - Participant Web Summary Report - Cycle 29

|                    |         |         |                    |         |         |                    |         |         |                    |         |         |                    |         |         |
|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|
| 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 |  |  |
|--|-------------|------|-----|-------------|-------|------|-------------|------|-----|-------------|------|-----|-------------|------|---------------------|--|--|
|  | SRSSRS1601  |      |     | SRSSRS1602  |       |      | SRSSRS1603  |      |     | SRSSRS1604  |      |     | SRSSRS1605  |      |                     |  |  |
| <b>YAA32W</b>  | <b>42.7</b> | -0.1 | 0.6 | <b>40.6</b> | 0.0   | 0.1  | <b>32.8</b> | -0.3 | 0.1 | <b>40.6</b> | -0.5 | 1.1 | <b>21.0</b> | -0.1 | 0.3                 |  |  |
|  |             | -0.5 | 0.8 |             | -0.1  | 0.5  |             | -0.9 | 0.1 |             | -2.7 | 0.9 |             | -0.1 | 0.2                 |  |  |
| <b>CJTVUF</b>  | <b>40.8</b> | -0.5 | 0.3 | <b>38.5</b> | -0.4  | 0.1  | <b>31.5</b> | -0.8 | 0.6 | <b>44.6</b> | 0.2  | 0.8 | <b>18.5</b> | -1.6 | 0.7                 |  |  |
|  |             | -2.4 | 0.4 |             | -2.1  | 0.5  |             | -2.2 | 0.5 |             | 1.2  | 0.7 |             | -2.6 | 0.4                 |  |  |
| <b>83L8FJ</b>  | <b>43.0</b> | 0.0  | 2.8 | <b>39.9</b> | -0.1  | 0.7  | <b>34.3</b> | 0.2  | 1.3 | <b>37.3</b> | -1.1 | 0.7 | <b>22.1</b> | 0.6  | 1.6                 |  |  |
|  |             | -0.2 | 3.6 |             | -0.7  | 3.0  |             | 0.6  | 1.2 |             | -6.0 | 0.6 |             | 1.0  | 1.0                 |  |  |
| <b>644GFL</b>  | <b>49.3</b> | 1.2  | 0.4 | <b>44.7</b> | 0.8   | 0.3  | <b>36.0</b> | 0.8  | 1.1 | <b>47.0</b> | 0.7  | 1.2 | <b>24.3</b> | 1.9  | 0.9                 |  |  |
|  |             | 6.1  | 0.6 |             | 4.0   | 1.5  |             | 2.3  | 1.0 |             | 3.7  | 1.0 |             | 3.2  | 0.6                 |  |  |
| <b>2GK3BP</b>  | <b>42.6</b> | -0.1 | 0.9 | <b>39.0</b> | -0.3  | 0.1  | <b>38.6</b> | 1.6  | 0.7 | <b>41.6</b> | -0.3 | 1.8 | <b>22.6</b> | 0.9  | 1.7                 |  |  |
|  |             | -0.6 | 1.1 |             | -1.7  | 0.3  |             | 4.8  | 0.7 |             | -1.7 | 1.6 |             | 1.5  | 1.1                 |  |  |
| <b>33JQFQ</b>  | <b>36.2</b> | -1.3 | 0.2 | <b>36.9</b> | -0.7  | 0.0  | <b>29.9</b> | -1.3 | 0.2 | <b>34.4</b> | -1.7 | 0.1 | <b>17.5</b> | -2.1 | 0.1                 |  |  |
|  |             | -7.0 | 0.3 |             | -3.7  | 0.1  |             | -3.9 | 0.2 |             | -8.9 | 0.1 |             | -3.6 | 0.1                 |  |  |
| <b>XNBEWV</b>  | <b>41.1</b> | -0.4 | 0.9 | <b>35.9</b> | -0.9  | 0.2  | <b>32.5</b> | -0.4 | 1.0 | <b>37.0</b> | -1.2 | 1.5 | <b>20.3</b> | -0.5 | 0.3                 |  |  |
|  |             | -2.1 | 1.1 |             | -4.7  | 1.0  |             | -1.3 | 1.0 |             | -6.3 | 1.3 |             | -0.8 | 0.2                 |  |  |
| <b>FPNYC9</b>  | <b>54.1</b> | 2.1  | 1.0 | <b>49.1</b> | 1.6   | 0.4  | <b>40.1</b> | 2.2  | 0.2 | <b>45.0</b> | 0.3  | 1.2 | <b>21.0</b> | -0.1 | 0.5                 |  |  |
|  |             | 10.9 | 1.3 |             | 8.4   | 1.8  |             | 6.4  | 0.2 |             | 1.7  | 1.0 |             | -0.1 | 0.3                 |  |  |
| <b>FKH3T9</b>  | <b>47.3</b> | 0.8  | 0.4 | <b>44.3</b> | 0.7   | 0.1  | <b>35.3</b> | 0.5  | 0.6 | <b>47.0</b> | 0.7  | 1.2 | <b>23.3</b> | 1.3  | 0.9                 |  |  |
|  |             | 4.1  | 0.6 |             | 3.7   | 0.6  |             | 1.6  | 0.6 |             | 3.7  | 1.0 |             | 2.2  | 0.6                 |  |  |
| <b>WGX7VT</b>  | <b>43.0</b> | 0.0  | 1.0 | <b>29.2</b> | -2.2  | 4.9  | <b>33.7</b> | 0.0  | 2.3 | <b>40.5</b> | -0.5 | 0.2 | <b>20.1</b> | -0.6 | 1.2                 |  |  |
|  |             | -0.2 | 1.2 |             | -11.5 | 21.7 |             | 0.0  | 2.1 |             | -2.9 | 0.1 |             | -1.0 | 0.8                 |  |  |
| <b>QECBRZ</b>  | <b>43.7</b> | 0.1  | 0.4 | <b>40.7</b> | 0.0   | 0.1  | <b>33.0</b> | -0.2 |     | <b>39.7</b> | -0.7 | 0.7 | <b>20.3</b> | -0.5 | 0.9                 |  |  |
|  |             | 0.5  | 0.6 |             | 0.0   | 0.6  |             | -0.7 | 0.0 |             | -3.7 | 0.6 |             | -0.8 | 0.6                 |  |  |
| <b>ZVM3ZV</b>  | <b>52.3</b> | 1.7  | 1.2 | <b>53.0</b> | 2.4   |      | <b>37.0</b> | 1.1  | 1.9 | <b>57.0</b> | 2.6  |     | <b>18.7</b> | -1.5 | 1.8                 |  |  |
|  |             | 9.1  | 1.5 |             | 12.3  | 0.0  |             | 3.3  | 1.7 |             | 13.7 | 0.0 |             | -2.4 | 1.2                 |  |  |
| <b>UNPG82</b>  | <b>43.2</b> | 0.0  | 1.2 | <b>41.5</b> | 0.2   | 0.2  | <b>32.4</b> | -0.4 | 1.7 | <b>43.8</b> | 0.1  | 1.1 | <b>20.9</b> | -0.1 | 1.9                 |  |  |
|  |             | 0.0  | 1.5 |             | 0.9   | 1.0  |             | -1.3 | 1.6 |             | 0.5  | 0.9 |             | -0.2 | 1.2                 |  |  |
| <b>JBF2VE</b>  | <b>48.3</b> | 1.0  | 1.9 | <b>44.0</b> | 0.6   | 0.2  | <b>33.7</b> | 0.0  | 0.6 | <b>48.3</b> | 1.0  | 1.8 | <b>22.0</b> | 0.5  | 1.5                 |  |  |
|  |             | 5.1  | 2.5 |             | 3.3   | 1.0  |             | -0.1 | 0.6 |             | 5.0  | 1.5 |             | 0.9  | 1.0                 |  |  |
| <b>98UYZG</b>  | <b>48.0</b> | 0.9  | 0.8 | <b>42.0</b> | 0.3   | 0.2  | <b>35.3</b> | 0.5  | 0.6 | <b>45.7</b> | 0.4  | 0.7 | <b>22.7</b> | 0.9  | 0.9                 |  |  |
|  |             | 4.8  | 1.0 |             | 1.3   | 1.0  |             | 1.6  | 0.6 |             | 2.3  | 0.6 |             | 1.6  | 0.6                 |  |  |
| <b>RCXBZX</b>  | <b>46.7</b> | 0.7  | 0.9 | <b>40.0</b> | -0.1  |      | <b>33.3</b> | -0.1 | 0.6 | <b>43.3</b> | 0.0  | 0.7 | <b>21.3</b> | 0.1  | 0.9                 |  |  |
|  |             | 3.5  | 1.2 |             | -0.7  | 0.0  |             | -0.4 | 0.6 |             | 0.0  | 0.6 |             | 0.2  | 0.6                 |  |  |
| <b>HUC6ZA</b>  | <b>43.1</b> | 0.0  | 0.3 | <b>41.1</b> | 0.1   | 0.1  | <b>32.2</b> | -0.5 | 0.4 | <b>42.9</b> | -0.1 | 0.4 | <b>21.1</b> | 0.0  | 0.5                 |  |  |
|  |             | -0.1 | 0.3 |             | 0.4   | 0.3  |             | -1.5 | 0.4 |             | -0.4 | 0.3 |             | 0.0  | 0.3                 |  |  |
| <b>YTJ7GT</b>  | <b>45.1</b> | 0.4  |     | <b>43.1</b> | 0.5   |      | <b>33.9</b> | 0.1  |     | <b>43.1</b> | 0.0  |     | <b>21.3</b> | 0.1  |                     |  |  |
|  |             | 1.9  | 0.0 |             | 2.4   | 0.0  |             | 0.2  | 0.0 |             | -0.2 | 0.0 |             | 0.2  | 0.0                 |  |  |
| <b>YPJVKT</b>  | <b>40.0</b> | -0.6 | 1.9 | <b>38.5</b> | -0.4  | 0.1  | <b>32.7</b> | -0.4 | 1.8 | <b>40.9</b> | -0.5 | 1.9 | <b>20.4</b> | -0.4 | 0.7                 |  |  |
|  |             | -3.2 | 2.5 |             | -2.1  | 0.3  |             | -1.1 | 1.6 |             | -2.4 | 1.6 |             | -0.7 | 0.5                 |  |  |
| <b>WYZRCU</b>  | <b>41.5</b> | -0.3 | 0.4 | <b>40.1</b> | -0.1  | 0.1  | <b>31.9</b> | -0.6 | 0.8 | <b>42.9</b> | -0.1 | 0.5 | <b>21.5</b> | 0.2  | 0.7                 |  |  |
|  |             | -1.7 | 0.5 |             | -0.6  | 0.4  |             | -1.8 | 0.8 |             | -0.4 | 0.4 |             | 0.4  | 0.4                 |  |  |



## ALP Program - Participant Web Summary Report - Cycle 29

|                          | 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>BHL3GF</b>            | <b>48.3</b>        | 1.0     | 0.6     | <b>46.4</b>        | 1.1     | 0.4     | <b>36.5</b>        | 0.9     | 1.7     | <b>47.2</b>        | 0.7     | 0.7     | <b>21.8</b>        | 0.4     | 0.8     |
|                          |                    | 5.1     | 0.8     |                    | 5.7     | 1.6     |                    | 2.8     | 1.5     |                    | 3.9     | 0.6     |                    | 0.7     | 0.5     |
| <b>K6MG64</b>            | <b>52.3</b>        | 1.7     | 0.4     | <b>45.7</b>        | 1.0     | 0.3     | <b>36.3</b>        | 0.9     | 0.6     | <b>48.3</b>        | 1.0     | 1.8     | <b>24.0</b>        | 1.7     | 1.5     |
|                          |                    | 9.1     | 0.6     |                    | 5.0     | 1.2     |                    | 2.6     | 0.6     |                    | 5.0     | 1.5     |                    | 2.9     | 1.0     |
| <b>ZZZ3WM</b>            | <b>49.9</b>        | 1.3     |         | <b>48.2</b>        | 1.4     |         | <b>41.1</b>        | 2.5     |         | <b>47.9</b>        | 0.9     |         | <b>21.2</b>        | 0.0     |         |
|                          |                    | 6.7     | 0.0     |                    | 7.6     | 0.0     |                    | 7.4     | 0.0     |                    | 4.5     | 0.0     |                    | 0.1     | 0.0     |
| <b>PHEWWY</b>            | <b>42.5</b>        | -0.1    |         | <b>38.4</b>        | -0.4    |         | <b>33.4</b>        | -0.1    |         | <b>46.9</b>        | 0.7     |         | <b>20.9</b>        | -0.1    |         |
|                          |                    | -0.7    | 0.0     |                    | -2.3    | 0.0     |                    | -0.3    | 0.0     |                    | 3.6     | 0.0     |                    | -0.2    | 0.0     |
| <b>J6NUD7</b>            | <b>40.5</b>        | -0.5    |         | <b>38.1</b>        | -0.5    |         | <b>34.4</b>        | 0.2     |         | <b>39.5</b>        | -0.7    |         | <b>20.4</b>        | -0.4    |         |
|                          |                    | -2.7    | 0.0     |                    | -2.6    | 0.0     |                    | 0.7     | 0.0     |                    | -3.8    | 0.0     |                    | -0.7    | 0.0     |
| <b>Grand Median</b>      |                    | 43.2    |         |                    | 40.7    |         |                    | 33.7    |         |                    | 43.3    |         |                    | 21.1    |         |
| <b>Median Abs Dev</b>    |                    | 2.7     |         |                    | 2.4     |         |                    | 1.5     |         |                    | 3.6     |         |                    | 0.8     |         |
| <b>Avg Within Lab SD</b> |                    | 1.3     |         |                    | 4.5     |         |                    | 0.9     |         |                    | 0.9     |         |                    | 0.7     |         |
| <b>Labs Included</b>     |                    | 25      |         |                    | 25      |         |                    | 25      |         |                    | 25      |         |                    | 25      |         |
| <b>Labs Reporting</b>    |                    | 25      |         |                    | 25      |         |                    | 25      |         |                    | 25      |         |                    | 25      |         |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 |
|---------------------------|---------------------------------|-------|------|-------------|-------|------|-------------|-------|------|-------------|-------|------|-------------|-------|------|------------------|
|                           | SRSSRS1601                      |       |      | SRSSRS1602  |       |      | SRSSRS1603  |       |      | SRSSRS1604  |       |      | SRSSRS1605  |       |      |                  |
| <b>GZ63WD</b>             | <b>7.65</b>                     | -0.09 | 1.11 | <b>7.32</b> | 0.01  | 1.71 | <b>5.42</b> | -0.12 | 0.09 | <b>5.37</b> | -0.12 | 0.31 | <b>4.24</b> | -0.65 | 0.12 |                  |
|                           |                                 | -0.02 | 0.08 |             | 0.00  | 0.07 |             | -0.04 | 0.01 |             | -0.03 | 0.02 |             | -0.13 | 0.01 |                  |
| <b>CJTVUF</b>             | <b>7.59</b>                     | -0.38 | 0.18 | <b>7.27</b> | -0.27 | 0.39 | <b>5.33</b> | -0.42 | 0.23 | <b>5.29</b> | -0.48 | 0.62 | <b>4.21</b> | -0.76 | 1.10 |                  |
|                           |                                 | -0.08 | 0.01 |             | -0.04 | 0.02 |             | -0.13 | 0.02 |             | -0.11 | 0.03 |             | -0.15 | 0.05 |                  |
| <b>83L8FJ</b>             | <b>7.87</b>                     | 0.91  | 0.57 | <b>7.51</b> | 1.23  | 1.12 | <b>5.62</b> | 0.51  | 0.30 | <b>5.58</b> | 0.81  | 0.20 | <b>4.45</b> | 0.44  | 1.45 |                  |
|                           |                                 | 0.20  | 0.04 |             | 0.20  | 0.05 |             | 0.16  | 0.02 |             | 0.19  | 0.01 |             | 0.09  | 0.07 |                  |
| <b>644GFL</b>             | <b>7.75</b>                     | 0.38  | 0.33 | <b>7.27</b> | -0.28 | 0.42 | <b>5.45</b> | -0.03 | 0.30 | <b>5.40</b> | 0.04  | 0.31 | <b>4.37</b> | 0.02  | 0.32 |                  |
|                           |                                 | 0.08  | 0.02 |             | -0.05 | 0.02 |             | -0.01 | 0.02 |             | 0.01  | 0.02 |             | 0.00  | 0.02 |                  |
| <b>2GK3BP</b>             | <b>7.84</b>                     | 0.80  | 0.30 | <b>7.55</b> | 1.46  | 1.90 | <b>5.57</b> | 0.35  | 0.00 | <b>5.42</b> | 0.11  | 0.53 | <b>4.43</b> | 0.36  | 2.87 |                  |
|                           |                                 | 0.17  | 0.02 |             | 0.24  | 0.08 |             | 0.11  | 0.00 |             | 0.03  | 0.03 |             | 0.07  | 0.14 |                  |
| <b>33JQFQ</b>             | <b>7.55</b>                     | -0.55 | 0.14 | <b>7.39</b> | 0.49  | 0.28 | <b>5.44</b> | -0.06 | 0.15 | <b>5.39</b> | -0.04 | 1.15 | <b>4.31</b> | -0.29 | 0.84 |                  |
|                           |                                 | -0.12 | 0.01 |             | 0.08  | 0.01 |             | -0.02 | 0.01 |             | -0.01 | 0.06 |             | -0.06 | 0.04 |                  |
| <b>XNBEWV</b>             | <b>7.61</b>                     | -0.28 | 0.43 | <b>7.22</b> | -0.59 | 0.24 | <b>5.26</b> | -0.63 | 0.34 | <b>5.05</b> | -1.52 | 0.53 | <b>3.95</b> | -2.12 | 0.36 |                  |
|                           |                                 | -0.06 | 0.03 |             | -0.10 | 0.01 |             | -0.20 | 0.02 |             | -0.35 | 0.03 |             | -0.41 | 0.02 |                  |
| <b>FPNYC9</b>             | <b>7.77</b>                     | 0.45  | 0.82 | <b>7.30</b> | -0.09 | 0.00 | <b>5.30</b> | -0.51 | 0.00 | <b>5.10</b> | -1.30 | 0.00 | <b>4.00</b> | -1.86 |      |                  |
|                           |                                 | 0.10  | 0.06 |             | -0.02 | 0.00 |             | -0.16 | 0.00 |             | -0.30 | 0.00 |             | -0.36 | 0.00 |                  |
| <b>FKH3T9</b>             | <b>7.89</b>                     | 1.00  | 2.36 | <b>7.34</b> | 0.13  | 0.14 | <b>5.77</b> | 1.00  | 1.94 | <b>5.50</b> | 0.45  | 2.53 | <b>4.55</b> | 0.94  | 1.76 |                  |
|                           |                                 | 0.22  | 0.17 |             | 0.02  | 0.01 |             | 0.31  | 0.13 |             | 0.10  | 0.13 |             | 0.18  | 0.09 |                  |
| <b>WGX7VT</b>             | <b>7.65</b>                     | -0.11 | 0.59 | <b>7.33</b> | 0.11  | 1.15 | <b>5.57</b> | 0.34  | 0.76 | <b>5.48</b> | 0.37  | 1.45 | <b>4.29</b> | -0.38 | 0.41 |                  |
|                           |                                 | -0.02 | 0.04 |             | 0.02  | 0.05 |             | 0.11  | 0.05 |             | 0.09  | 0.07 |             | -0.07 | 0.02 |                  |
| <b>QECBRZ</b>             | <b>7.52</b>                     | -0.69 | 0.14 | <b>7.15</b> | -1.00 | 0.56 | <b>5.41</b> | -0.16 | 0.45 | <b>5.29</b> | -0.45 | 0.65 | <b>4.29</b> | -0.36 | 0.63 |                  |
|                           |                                 | -0.15 | 0.01 |             | -0.16 | 0.02 |             | -0.05 | 0.03 |             | -0.10 | 0.03 |             | -0.07 | 0.03 |                  |
| <b>ZVM3ZV</b>             | <b>7.52</b>                     | -0.71 | 0.08 | <b>7.21</b> | -0.65 | 0.24 | <b>5.45</b> | -0.03 | 0.15 | <b>5.36</b> | -0.14 | 0.12 | <b>4.25</b> | -0.60 | 0.12 |                  |
|                           |                                 | -0.15 | 0.01 |             | -0.11 | 0.01 |             | -0.01 | 0.01 |             | -0.03 | 0.01 |             | -0.12 | 0.01 |                  |
| <b>UNPG82</b>             | <b>7.90</b>                     | 1.06  | 1.40 | <b>7.45</b> | 0.82  | 0.74 | <b>5.62</b> | 0.51  | 2.72 | <b>5.49</b> | 0.43  | 1.34 | <b>4.36</b> | -0.02 | 0.62 |                  |
|                           |                                 | 0.23  | 0.10 |             | 0.13  | 0.03 |             | 0.16  | 0.18 |             | 0.10  | 0.07 |             | 0.00  | 0.03 |                  |
| <b>JBF2VE</b>             | <b>7.74</b>                     | 0.32  | 0.25 | <b>7.32</b> | 0.03  | 0.88 | <b>5.37</b> | -0.29 | 0.15 | <b>5.32</b> | -0.31 | 0.12 | <b>4.42</b> | 0.29  | 1.29 |                  |
|                           |                                 | 0.07  | 0.02 |             | 0.01  | 0.04 |             | -0.09 | 0.01 |             | -0.07 | 0.01 |             | 0.06  | 0.06 |                  |
| <b>98UYZG</b>             | <b>7.46</b>                     | -0.98 | 3.55 | <b>7.13</b> | -1.17 | 1.10 | <b>5.55</b> | 0.29  | 2.32 | <b>5.29</b> | -0.48 | 1.86 | <b>4.16</b> | -1.04 | 1.29 |                  |
|                           |                                 | -0.21 | 0.25 |             | -0.19 | 0.05 |             | 0.09  | 0.16 |             | -0.11 | 0.09 |             | -0.20 | 0.06 |                  |
| <b>4JGF2L</b>             | <b>7.44</b>                     | -1.06 | 0.00 | <b>7.19</b> | -0.76 | 1.76 | <b>5.66</b> | 0.65  | 0.82 | <b>5.51</b> | 0.51  | 0.88 | <b>4.41</b> | 0.22  | 0.12 |                  |
|                           |                                 | -0.23 | 0.00 |             | -0.12 | 0.07 |             | 0.20  | 0.06 |             | 0.12  | 0.04 |             | 0.04  | 0.01 |                  |
| <b>RCXBZX</b>             | <b>7.68</b>                     | 0.03  | 0.43 | <b>7.30</b> | -0.07 | 0.98 | <b>5.44</b> | -0.06 | 0.45 | <b>5.33</b> | -0.30 | 0.42 | <b>4.30</b> | -0.34 | 0.12 |                  |
|                           |                                 | 0.01  | 0.03 |             | -0.01 | 0.04 |             | -0.02 | 0.03 |             | -0.07 | 0.02 |             | -0.07 | 0.01 |                  |
| <b>HUC6ZA</b>             | <b>7.77</b>                     | 0.46  | 0.14 | <b>7.46</b> | 0.88  | 0.37 | <b>5.67</b> | 0.67  | 0.15 | <b>5.66</b> | 1.16  | 0.20 | <b>4.49</b> | 0.67  | 1.02 |                  |
|                           |                                 | 0.10  | 0.01 |             | 0.14  | 0.02 |             | 0.21  | 0.01 |             | 0.27  | 0.01 |             | 0.13  | 0.05 |                  |
| <b>YTJ7GT</b>             | <b>7.55</b>                     | -0.55 |      | <b>7.24</b> | -0.47 |      | <b>5.47</b> | 0.03  |      | <b>5.36</b> | -0.15 |      | <b>4.37</b> | 0.03  |      |                  |
|                           |                                 | -0.12 | 0.00 |             | -0.08 | 0.00 |             | 0.01  | 0.00 |             | -0.04 | 0.00 |             | 0.01  | 0.00 |                  |
| <b>YPJVKT</b>             | <b>7.66</b>                     | -0.03 | 0.73 | <b>7.42</b> | 0.67  | 1.83 | <b>6.24</b> | 2.50  | 0.37 | <b>6.49</b> | 4.80  | 1.48 | <b>4.52</b> | 0.82  | 0.43 |                  |
|                           |                                 | -0.01 | 0.05 |             | 0.11  | 0.08 |             | 0.78  | 0.03 |             | 1.09  | 0.07 |             | 0.16  | 0.02 |                  |





## ALP Program - Participant Web Summary Report - Cycle 29

|                          | 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>WYZRCU</b>            | <b>7.70</b>        | 0.12    | 0.33    | <b>7.45</b>        | 0.86    | 0.14    | <b>5.70</b>        | 0.78    | 0.17    | <b>5.53</b>        | 0.58    | 0.23    | <b>4.46</b>        | 0.50    | 0.21    |
|                          |                    | 0.03    | 0.02    |                    | 0.14    | 0.01    |                    | 0.24    | 0.01    |                    | 0.13    | 0.01    |                    | 0.10    | 0.01    |
| <b>BHL3GF</b>            | <b>7.81</b>        | 0.63    | 0.83    | <b>7.38</b>        | 0.42    | 0.51    | <b>5.61</b>        | 0.48    | 0.15    | <b>5.48</b>        | 0.37    | 0.35    | <b>4.40</b>        | 0.20    | 0.43    |
|                          |                    | 0.14    | 0.06    |                    | 0.07    | 0.02    |                    | 0.15    | 0.01    |                    | 0.09    | 0.02    |                    | 0.04    | 0.02    |
| <b>MZGWVZ</b>            | <b>7.83</b>        | 0.74    | 0.62    | <b>6.79</b>        | -3.26   | 0.24    | <b>6.54</b>        | 3.43    | 1.63    | <b>5.55</b>        | 0.70    | 2.12    | <b>4.59</b>        | 1.14    | 1.32    |
|                          |                    | 0.16    | 0.04    |                    | -0.53   | 0.01    |                    | 1.08    | 0.11    |                    | 0.16    | 0.11    |                    | 0.22    | 0.06    |
| <b>K6MG64</b>            | <b>7.74</b>        | 0.31    | 0.54    | <b>7.36</b>        | 0.28    | 0.49    | <b>5.35</b>        | -0.34   | 0.89    | <b>5.32</b>        | -0.34   | 0.42    | <b>4.48</b>        | 0.58    | 0.32    |
|                          |                    | 0.07    | 0.04    |                    | 0.05    | 0.02    |                    | -0.11   | 0.06    |                    | -0.08   | 0.02    |                    | 0.11    | 0.02    |
| <b>ZZZ3WM</b>            | <b>7.33</b>        | -1.57   |         | <b>7.07</b>        | -1.52   |         | <b>5.08</b>        | -1.21   |         | <b>5.12</b>        | -1.21   |         | <b>4.07</b>        | -1.50   |         |
|                          |                    | -0.34   | 0.00    |                    | -0.25   | 0.00    |                    | -0.38   | 0.00    |                    | -0.28   | 0.00    |                    | -0.29   | 0.00    |
| <b>PHEWWY</b>            | <b>6.94</b>        | -3.35   | 0.78    | <b>7.31</b>        | -0.01   | 2.31    | <b>4.79</b>        | -2.14   | 1.93    | <b>5.48</b>        | 0.37    | 1.12    | <b>4.09</b>        | -1.40   | 1.66    |
|                          |                    | -0.73   | 0.06    |                    | 0.00    | 0.10    |                    | -0.67   | 0.13    |                    | 0.09    | 0.06    |                    | -0.27   | 0.08    |
| <b>J6NUD7</b>            | <b>7.83</b>        | 0.74    |         | <b>7.62</b>        | 1.89    |         | <b>7.46</b>        | 6.38    |         | <b>6.77</b>        | 6.04    |         | <b>7.16</b>        | 14.33   |         |
|                          |                    | 0.16    | 0.00    |                    | 0.31    | 0.00    |                    | 2.00    | 0.00    |                    | 1.38    | 0.00    |                    | 2.80    | 0.00    |
| <b>Grand Median</b>      |                    | 7.67    |         |                    | 7.32    |         |                    | 5.46    |         |                    | 5.40    |         |                    | 4.36    |         |
| <b>Median Abs Dev</b>    |                    | 0.12    |         |                    | 0.09    |         |                    | 0.14    |         |                    | 0.10    |         |                    | 0.11    |         |
| <b>Avg Within Lab SD</b> |                    | 0.07    |         |                    | 0.04    |         |                    | 0.07    |         |                    | 0.05    |         |                    | 0.05    |         |
| <b>Labs Included</b>     |                    | 26      |         |                    | 26      |         |                    | 26      |         |                    | 26      |         |                    | 26      |         |
| <b>Labs Reporting</b>    |                    | 26      |         |                    | 26      |         |                    | 26      |         |                    | 26      |         |                    | 26      |         |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 |  |
|----------------------------|---------------------------------|-------|------|------------|-------|------|------------|-------|------|------------|-------|------|------------|-------|------|------------------|--|
|                            | SRSSRS1601                      |       |      | SRSSRS1602 |       |      | SRSSRS1603 |       |      | SRSSRS1604 |       |      | SRSSRS1605 |       |      |                  |  |
| YAA32W                     | 0.45                            | 0.85  | 1.17 | 0.64       | -0.31 | 1.67 | 2.05       | 0.91  | 0.13 | 2.20       | 0.76  | 1.34 | 1.73       | 0.83  | 1.53 |                  |  |
|                            |                                 | 0.04  | 0.03 |            | -0.04 | 0.06 |            | 0.18  | 0.01 |            | 0.25  | 0.09 |            | 0.16  | 0.12 |                  |  |
| GZ63WD                     | 0.39                            | -0.27 | 0.94 | 0.60       | -0.69 | 1.68 | 1.76       | -0.53 | 2.29 | 1.64       | -0.97 | 2.14 | 1.43       | -0.73 | 1.12 |                  |  |
|                            |                                 | -0.01 | 0.02 |            | -0.08 | 0.06 |            | -0.11 | 0.18 |            | -0.31 | 0.14 |            | -0.14 | 0.09 |                  |  |
| CJTVUF                     | 0.40                            | -0.13 | 2.23 | 0.67       | -0.10 | 0.23 | 1.78       | -0.45 | 1.00 | 1.78       | -0.54 | 1.38 | 1.69       | 0.59  | 0.95 |                  |  |
|                            |                                 | -0.01 | 0.05 |            | -0.01 | 0.01 |            | -0.09 | 0.08 |            | -0.17 | 0.09 |            | 0.11  | 0.07 |                  |  |
| 83L8FJ                     | 0.40                            | -0.04 | 2.51 | 0.60       | -0.70 | 1.71 | 1.74       | -0.62 | 0.96 | 2.13       | 0.55  | 0.81 | 1.39       | -0.97 | 1.09 |                  |  |
|                            |                                 | 0.00  | 0.05 |            | -0.08 | 0.06 |            | -0.12 | 0.08 |            | 0.18  | 0.05 |            | -0.19 | 0.09 |                  |  |
| 644GFL                     | 0.38                            | -0.55 | 0.72 | 0.77       | 0.75  | 0.41 | 1.96       | 0.48  | 0.76 | 2.03       | 0.26  | 1.68 | 1.58       | 0.02  | 0.53 |                  |  |
|                            |                                 | -0.03 | 0.02 |            | 0.09  | 0.02 |            | 0.10  | 0.06 |            | 0.08  | 0.11 |            | 0.00  | 0.04 |                  |  |
| 2GK3BP                     | 0.43                            | 0.61  | 0.72 | 0.81       | 1.15  | 1.33 | 1.87       | 0.00  | 1.57 | 2.23       | 0.88  | 1.64 | 1.52       | -0.30 | 1.19 |                  |  |
|                            |                                 | 0.03  | 0.02 |            | 0.13  | 0.05 |            | 0.00  | 0.13 |            | 0.28  | 0.10 |            | -0.06 | 0.09 |                  |  |
| 33JQFQ                     | 0.40                            | -0.14 | 0.27 | 0.50       | -1.55 |      | 1.69       | -0.86 | 0.07 | 1.75       | -0.62 |      | 1.21       | -1.91 | 0.07 |                  |  |
|                            |                                 | -0.01 | 0.01 |            | -0.18 | 0.00 |            | -0.17 | 0.01 |            | -0.20 | 0.00 |            | -0.37 | 0.01 |                  |  |
| XNBEWV                     | 0.34                            | -1.23 | 0.27 | 0.67       | -0.12 | 0.95 | 1.86       | -0.03 | 0.38 | 2.83       | 2.72  | 0.16 | 1.66       | 0.47  | 0.98 |                  |  |
|                            |                                 | -0.06 | 0.01 |            | -0.01 | 0.04 |            | -0.01 | 0.03 |            | 0.88  | 0.01 |            | 0.09  | 0.08 |                  |  |
| FPNYC9                     | 0.42                            | 0.34  | 0.47 | 0.56       | -1.04 | 0.71 | 1.58       | -1.45 | 0.84 | 1.88       | -0.23 | 1.28 | 1.44       | -0.70 | 0.38 |                  |  |
|                            |                                 | 0.02  | 0.01 |            | -0.12 | 0.03 |            | -0.29 | 0.07 |            | -0.07 | 0.08 |            | -0.13 | 0.03 |                  |  |
| FKH3T9                     | 0.43                            | 0.61  | 0.54 | 0.77       | 0.76  | 0.11 | 1.88       | 0.07  | 0.26 | 1.94       | -0.04 | 0.39 | 1.50       | -0.37 | 0.21 |                  |  |
|                            |                                 | 0.03  | 0.01 |            | 0.09  | 0.00 |            | 0.01  | 0.02 |            | -0.01 | 0.02 |            | -0.07 | 0.02 |                  |  |
| WGX7VT                     | 0.45                            | 1.02  | 2.12 | 0.59       | -0.78 | 0.71 | 1.78       | -0.42 | 0.38 | 1.83       | -0.38 | 2.59 | 1.53       | -0.21 | 0.70 |                  |  |
|                            |                                 | 0.05  | 0.05 |            | -0.09 | 0.03 |            | -0.08 | 0.03 |            | -0.12 | 0.17 |            | -0.04 | 0.06 |                  |  |
| QEGBRZ                     | 0.44                            | 0.82  | 0.27 | 0.60       | -0.72 | 0.41 | 1.91       | 0.23  | 0.19 | 2.20       | 0.77  | 0.31 | 1.61       | 0.21  | 0.45 |                  |  |
|                            |                                 | 0.04  | 0.01 |            | -0.08 | 0.02 |            | 0.05  | 0.02 |            | 0.25  | 0.02 |            | 0.04  | 0.04 |                  |  |
| UNPG82                     | 0.39                            | -0.27 | 0.47 | 0.74       | 0.49  | 0.16 | 1.97       | 0.50  | 2.79 | 1.98       | 0.09  | 0.27 | 1.62       | 0.24  | 3.86 |                  |  |
|                            |                                 | -0.01 | 0.01 |            | 0.06  | 0.01 |            | 0.10  | 0.22 |            | 0.03  | 0.02 |            | 0.05  | 0.30 |                  |  |
| JBF2VE                     | 0.39                            | -0.27 | 0.47 | 0.64       | -0.35 | 3.06 | 1.92       | 0.25  | 1.02 | 1.89       | -0.19 | 0.31 | 1.59       | 0.07  | 0.29 |                  |  |
|                            |                                 | -0.01 | 0.01 |            | -0.04 | 0.11 |            | 0.05  | 0.08 |            | -0.06 | 0.02 |            | 0.01  | 0.02 |                  |  |
| 98UYZG                     | 0.37                            | -0.61 | 0.27 | 0.73       | 0.43  | 1.14 | 1.68       | -0.91 | 1.41 | 1.82       | -0.41 | 0.33 | 1.38       | -1.01 | 0.90 |                  |  |
|                            |                                 | -0.03 | 0.01 |            | 0.05  | 0.04 |            | -0.18 | 0.11 |            | -0.13 | 0.02 |            | -0.19 | 0.07 |                  |  |
| 4JGF2L                     | 0.37                            | -0.69 | 0.03 | 0.71       | 0.23  | 0.03 | 1.52       | -1.73 | 0.01 | 1.76       | -0.59 | 0.12 | 1.33       | -1.24 | 0.03 |                  |  |
|                            |                                 | -0.03 | 0.00 |            | 0.03  | 0.00 |            | -0.35 | 0.00 |            | -0.19 | 0.01 |            | -0.24 | 0.00 |                  |  |
| RCXBZX                     | 0.41                            | 0.06  | 0.07 | 0.79       | 0.96  | 0.07 | 1.91       | 0.23  | 0.03 | 2.04       | 0.29  | 0.32 | 1.51       | -0.32 | 0.18 |                  |  |
|                            |                                 | 0.00  | 0.00 |            | 0.11  | 0.00 |            | 0.05  | 0.00 |            | 0.09  | 0.02 |            | -0.06 | 0.01 |                  |  |
| HUC6ZA                     | 0.48                            | 1.66  | 2.29 | 0.79       | 0.98  | 0.59 | 1.94       | 0.35  | 0.40 | 2.17       | 0.67  | 0.51 | 1.63       | 0.31  | 0.29 |                  |  |
|                            |                                 | 0.08  | 0.05 |            | 0.11  | 0.02 |            | 0.07  | 0.03 |            | 0.22  | 0.03 |            | 0.06  | 0.02 |                  |  |
| YTJ7GT                     | 0.45                            | 0.95  |      | 0.74       | 0.52  |      | 2.08       | 1.06  |      | 2.45       | 1.55  |      | 1.75       | 0.92  |      |                  |  |
|                            |                                 | 0.05  | 0.00 |            | 0.06  | 0.00 |            | 0.21  | 0.00 |            | 0.50  | 0.00 |            | 0.18  | 0.00 |                  |  |
| YPJVKT                     | 0.39                            | -0.24 | 0.19 | 0.68       | 0.03  | 0.20 | 1.83       | -0.17 | 0.07 | 1.95       | 0.00  | 0.96 | 1.44       | -0.68 | 0.07 |                  |  |
|                            |                                 | -0.01 | 0.00 |            | 0.00  | 0.01 |            | -0.03 | 0.01 |            | 0.00  | 0.06 |            | -0.13 | 0.01 |                  |  |



## ALP Program - Participant Web Summary Report - Cycle 29

|                          | 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>WYZRCU</b>            | <b>0.46</b>        | 1.19    | 0.89    | <b>0.65</b>        | -0.26   | 0.29    | <b>1.98</b>        | 0.57    | 0.76    | <b>2.18</b>        | 0.70    | 0.74    | <b>1.72</b>        | 0.78    | 0.58    |
|                          |                    | 0.06    | 0.02    |                    | -0.03   | 0.01    |                    | 0.11    | 0.06    |                    | 0.23    | 0.05    |                    | 0.15    | 0.05    |
| <b>BHL3GF</b>            | <b>0.47</b>        | 1.27    | 0.40    | <b>0.65</b>        | -0.25   | 1.77    | <b>1.87</b>        | 0.02    | 1.21    | <b>2.10</b>        | 0.45    | 0.89    | <b>1.67</b>        | 0.52    | 0.75    |
|                          |                    | 0.06    | 0.01    |                    | -0.03   | 0.07    |                    | 0.00    | 0.10    |                    | 0.15    | 0.06    |                    | 0.10    | 0.06    |
| <b>MZGWVZ</b>            | <b>0.51</b>        | 2.23    | 0.10    | <b>1.12</b>        | 3.77    | 0.02    | <b>1.22</b>        | -3.23   | 1.32    | <b>1.58</b>        | -1.14   | 0.91    | <b>1.07</b>        | -2.62   | 0.78    |
|                          |                    | 0.11    | 0.00    |                    | 0.44    | 0.00    |                    | -0.65   | 0.11    |                    | -0.37   | 0.06    |                    | -0.50   | 0.06    |
| <b>K6MG64</b>            | <b>0.40</b>        | 0.00    | 0.54    | <b>0.72</b>        | 0.35    | 0.00    | <b>1.99</b>        | 0.62    | 0.25    | <b>1.92</b>        | -0.09   | 0.27    | <b>1.57</b>        | 0.00    | 0.15    |
|                          |                    | 0.00    | 0.01    |                    | 0.04    | 0.00    |                    | 0.12    | 0.02    |                    | -0.03   | 0.02    |                    | 0.00    | 0.01    |
| <b>ZZZ3WM</b>            | <b>0.50</b>        | 1.98    |         | <b>0.61</b>        | -0.60   |         | <b>2.16</b>        | 1.46    |         | <b>2.85</b>        | 2.79    |         | <b>1.79</b>        | 1.13    |         |
|                          |                    | 0.10    | 0.00    |                    | -0.07   | 0.00    |                    | 0.29    | 0.00    |                    | 0.90    | 0.00    |                    | 0.22    | 0.00    |
| <b>PHEWWY</b>            | <b>0.40</b>        | -0.10   | 0.40    | <b>0.72</b>        | 0.34    | 0.24    | <b>1.86</b>        | -0.03   | 0.90    | <b>1.84</b>        | -0.35   | 0.32    | <b>1.60</b>        | 0.15    | 0.62    |
|                          |                    | -0.01   | 0.01    |                    | 0.04    | 0.01    |                    | -0.01   | 0.07    |                    | -0.11   | 0.02    |                    | 0.03    | 0.05    |
| <b>J6NUD7</b>            | <b>0.40</b>        | -0.07   |         | <b>0.68</b>        | 0.00    |         | <b>1.66</b>        | -1.03   |         | <b>1.89</b>        | -0.19   |         | <b>1.40</b>        | -0.90   |         |
|                          |                    | 0.00    | 0.00    |                    | 0.00    | 0.00    |                    | -0.21   | 0.00    |                    | -0.06   | 0.00    |                    | -0.17   | 0.00    |
| <b>Grand Median</b>      |                    | 0.40    |         |                    | 0.68    |         |                    | 1.87    |         |                    | 1.95    |         |                    | 1.57    |         |
| <b>Median Abs Dev</b>    |                    | 0.03    |         |                    | 0.06    |         |                    | 0.10    |         |                    | 0.17    |         |                    | 0.11    |         |
| <b>Avg Within Lab SD</b> |                    | 0.02    |         |                    | 0.04    |         |                    | 0.08    |         |                    | 0.06    |         |                    | 0.08    |         |
| <b>Labs Included</b>     |                    | 27      |         |                    | 27      |         |                    | 27      |         |                    | 27      |         |                    | 27      |         |
| <b>Labs Reporting</b>    |                    | 27      |         |                    | 27      |         |                    | 27      |         |                    | 27      |         |                    | 27      |         |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 |       |      |
|----------------------------|---------------------------------|-------|------|-------------|-------|------|-------------|-------|------|-------------|-------|------|---------------------|-------|------|
|                            | SRSSRS1601                      |       |      | SRSSRS1602  |       |      | SRSSRS1603  |       |      | SRSSRS1604  |       |      | SRSSRS1605          |       |      |
| <b>YAA32W</b>              | <b>3.60</b>                     | 0.10  | 0.61 | <b>4.09</b> | 0.25  | 0.72 | <b>0.53</b> | 0.09  | 0.09 | <b>0.46</b> | 0.14  | 0.25 | <b>0.23</b>         | -0.32 | 0.47 |
|                            |                                 | 0.13  | 0.11 |             | 0.29  | 0.13 |             | 0.06  | 0.01 |             | 0.06  | 0.04 |                     | -0.13 | 0.03 |
| <b>83L8FJ</b>              | <b>2.59</b>                     | -0.66 | 2.15 | <b>2.36</b> | -1.22 | 0.00 | <b>0.34</b> | -0.18 | 0.00 | <b>0.34</b> | -0.17 | 0.00 | <b>0.34</b>         | -0.06 | 0.00 |
|                            |                                 | -0.88 | 0.39 |             | -1.44 | 0.00 |             | -0.13 | 0.00 |             | -0.07 | 0.00 |                     | -0.03 | 0.00 |
| <b>644GFL</b>              | <b>3.78</b>                     | 0.23  | 0.00 | <b>3.33</b> | -0.40 | 0.27 | <b>0.17</b> | -0.43 | 0.00 | <b>0.23</b> | -0.44 | 0.55 |                     |       |      |
|                            |                                 | 0.31  | 0.00 |             | -0.47 | 0.05 |             | -0.30 | 0.00 |             | -0.18 | 0.10 |                     |       |      |
| <b>2GK3BP</b>              | <b>1.75</b>                     | -1.28 | 1.23 | <b>1.29</b> | -2.12 | 1.11 | <b>0.30</b> | -0.24 | 0.13 | <b>0.41</b> | 0.01  | 0.46 | <b>0.30</b>         | -0.16 | 0.90 |
|                            |                                 | -1.71 | 0.22 |             | -2.51 | 0.20 |             | -0.16 | 0.01 |             | 0.01  | 0.08 |                     | -0.07 | 0.06 |
| <b>33JQFQ</b>              | <b>3.85</b>                     | 0.29  | 0.00 | <b>4.00</b> | 0.17  |      | <b>0.61</b> | 0.21  | 0.00 | <b>0.51</b> | 0.26  | 0.00 | <b>0.39</b>         | 0.06  | 0.00 |
|                            |                                 | 0.38  | 0.00 |             | 0.20  | 0.00 |             | 0.15  | 0.00 |             | 0.11  | 0.00 |                     | 0.03  | 0.00 |
| <b>FPNYC9</b>              | <b>4.00</b>                     | 0.40  | 1.02 | <b>4.21</b> | 0.35  | 2.01 | <b>0.84</b> | 0.55  | 2.41 | <b>0.63</b> | 0.57  | 3.07 | <b>0.42</b>         | 0.15  | 2.51 |
|                            |                                 | 0.54  | 0.18 |             | 0.41  | 0.36 |             | 0.38  | 0.18 |             | 0.23  | 0.54 |                     | 0.06  | 0.18 |
| <b>QECBRZ</b>              | <b>3.47</b>                     | 0.00  | 1.27 | <b>4.53</b> | 0.62  | 1.28 | <b>0.27</b> | -0.29 | 1.51 | <b>0.20</b> | -0.51 | 0.00 |                     |       |      |
|                            |                                 | 0.00  | 0.23 |             | 0.73  | 0.23 |             | -0.20 | 0.12 |             | -0.21 | 0.00 |                     |       |      |
| <b>UNPG82</b>              | <b>2.47</b>                     | -0.75 | 0.64 | <b>2.07</b> | -1.47 | 0.64 | <b>0.40</b> | -0.09 | 0.00 | <b>0.40</b> | -0.01 | 0.00 | <b>0.40</b>         | 0.09  | 0.00 |
|                            |                                 | -1.00 | 0.12 |             | -1.73 | 0.12 |             | -0.06 | 0.00 |             | -0.01 | 0.00 |                     | 0.04  | 0.00 |
| <b>MZGWVZ</b>              | <b>6.05</b>                     | 1.93  | 0.30 | <b>3.37</b> | -0.36 | 0.06 | <b>2.22</b> | 2.55  | 1.37 | <b>1.99</b> | 3.93  | 0.06 | <b>2.04</b>         | 4.10  | 0.82 |
|                            |                                 | 2.58  | 0.06 |             | -0.43 | 0.01 |             | 1.76  | 0.11 |             | 1.59  | 0.01 |                     | 1.68  | 0.06 |
| <b>PHEWWY</b>              | <b>2.58</b>                     | -0.67 | 1.15 | <b>4.35</b> | 0.46  | 1.76 |             |       |      |             |       |      |                     |       |      |
|                            |                                 | -0.89 | 0.21 |             | 0.55  | 0.32 |             |       |      |             |       |      |                     |       |      |
| <b>J6NUD7</b>              | <b>2.00</b>                     | -1.10 |      | <b>3.80</b> | 0.00  |      | <b>1.92</b> | 2.11  |      | <b>0.12</b> | -0.71 |      | <b>0.18</b>         | -0.45 |      |
|                            |                                 | -1.47 | 0.00 |             | 0.00  | 0.00 |             | 1.46  | 0.00 |             | -0.29 | 0.00 |                     | -0.18 | 0.00 |
| <b>Grand Median</b>        |                                 | 3.47  |      | 3.80        |       |      | 0.46        |       |      | 0.41        |       |      | 0.36                |       |      |
| <b>Median Abs Dev</b>      |                                 | 0.88  |      | 0.47        |       |      | 0.18        |       |      | 0.14        |       |      | 0.06                |       |      |
| <b>Avg Within Lab SD</b>   |                                 | 0.18  |      | 0.18        |       |      | 0.08        |       |      | 0.18        |       |      | 0.07                |       |      |
| <b>Labs Included</b>       |                                 | 11    |      | 11          |       |      | 10          |       |      | 10          |       |      | 8                   |       |      |
| <b>Labs Reporting</b>      |                                 | 11    |      | 11          |       |      | 10          |       |      | 10          |       |      | 8                   |       |      |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 - sp (SubTestCode 105) | in the Salinity Property Groups |       |      |             |       |      |             |       |      |             |       |      |             |       |      | Data units: mmolc/L |
|--------------------------|---------------------------------|-------|------|-------------|-------|------|-------------|-------|------|-------------|-------|------|-------------|-------|------|---------------------|
|                          | SRSSRS1601                      |       |      | SRSSRS1602  |       |      | SRSSRS1603  |       |      | SRSSRS1604  |       |      | SRSSRS1605  |       |      |                     |
| YAA32W                   | <b>0.15</b>                     | 0.89  | 0.20 | <b>0.17</b> | 0.09  | 0.42 | <b>1.47</b> | 0.65  | 0.63 | <b>0.66</b> | 0.15  | 0.42 | <b>0.55</b> | 0.00  | 0.53 |                     |
|                          |                                 | 0.02  | 0.00 |             | 0.00  | 0.00 |             | 0.13  | 0.03 |             | 0.01  | 0.01 |             | 0.00  | 0.01 |                     |
| 644GFL                   | <b>0.14</b>                     | 0.51  | 1.39 | <b>0.18</b> | 0.52  | 0.84 | <b>1.49</b> | 0.75  | 2.31 | <b>0.65</b> | 0.12  | 1.42 | <b>0.58</b> | 0.41  | 1.25 |                     |
|                          |                                 | 0.01  | 0.02 |             | 0.01  | 0.01 |             | 0.15  | 0.11 |             | 0.01  | 0.04 |             | 0.03  | 0.03 |                     |
| 2GK3BP                   | <b>0.23</b>                     | 3.85  | 2.74 | <b>0.25</b> | 3.52  | 2.10 | <b>1.25</b> | -0.44 | 1.03 | <b>0.76</b> | 1.48  | 1.38 | <b>0.61</b> | 0.79  | 1.52 |                     |
|                          |                                 | 0.10  | 0.03 |             | 0.09  | 0.02 |             | -0.09 | 0.05 |             | 0.12  | 0.03 |             | 0.06  | 0.04 |                     |
| XNBEWV                   | <b>0.13</b>                     | 0.00  | 0.52 | <b>0.18</b> | 0.54  | 0.00 | <b>1.15</b> | -0.95 | 0.25 | <b>0.60</b> | -0.59 | 0.61 | <b>0.51</b> | -0.46 | 0.38 |                     |
|                          |                                 | 0.00  | 0.01 |             | 0.01  | 0.00 |             | -0.19 | 0.01 |             | -0.05 | 0.02 |             | -0.04 | 0.01 |                     |
| FPNYC9                   | <b>0.11</b>                     | -0.51 | 0.52 | <b>0.13</b> | -1.49 | 1.75 | <b>1.11</b> | -1.19 | 0.91 | <b>0.53</b> | -1.39 | 1.00 | <b>0.50</b> | -0.59 | 1.37 |                     |
|                          |                                 | -0.01 | 0.01 |             | -0.04 | 0.02 |             | -0.23 | 0.04 |             | -0.11 | 0.03 |             | -0.05 | 0.04 |                     |
| FKH3T9                   | <b>0.12</b>                     | -0.26 | 0.00 | <b>0.16</b> | -0.27 | 0.00 | <b>1.40</b> | 0.32  | 1.26 | <b>0.64</b> | -0.04 | 0.00 | <b>0.53</b> | -0.17 | 0.58 |                     |
|                          |                                 | -0.01 | 0.00 |             | -0.01 | 0.00 |             | 0.06  | 0.06 |             | 0.00  | 0.00 |             | -0.01 | 0.02 |                     |
| UNPG82                   | <b>0.13</b>                     | 0.00  | 0.52 | <b>0.17</b> | 0.27  | 0.58 | <b>1.51</b> | 0.87  | 1.82 | <b>0.66</b> | 0.21  | 1.44 | <b>0.60</b> | 0.62  | 1.95 |                     |
|                          |                                 | 0.00  | 0.01 |             | 0.01  | 0.01 |             | 0.17  | 0.08 |             | 0.02  | 0.04 |             | 0.05  | 0.05 |                     |
| JBF2VE                   | <b>0.12</b>                     | -0.45 | 0.19 | <b>0.15</b> | -0.54 | 1.15 | <b>1.34</b> | 0.00  | 0.39 | <b>0.58</b> | -0.76 | 0.48 | <b>0.51</b> | -0.42 | 0.29 |                     |
|                          |                                 | -0.01 | 0.00 |             | -0.01 | 0.01 |             | 0.00  | 0.02 |             | -0.06 | 0.01 |             | -0.03 | 0.01 |                     |
| 98UYZG                   | <b>0.12</b>                     | -0.13 | 0.63 | <b>0.16</b> | -0.08 | 2.29 | <b>1.19</b> | -0.76 | 1.86 | <b>0.55</b> | -1.18 | 1.51 | <b>0.49</b> | -0.66 | 0.49 |                     |
|                          |                                 | 0.00  | 0.01 |             | 0.00  | 0.02 |             | -0.15 | 0.09 |             | -0.09 | 0.04 |             | -0.05 | 0.01 |                     |
| RCXBZX                   | <b>0.12</b>                     | -0.44 | 0.14 | <b>0.15</b> | -0.66 | 0.15 | <b>1.33</b> | -0.05 | 0.23 | <b>0.61</b> | -0.45 | 0.26 | <b>0.53</b> | -0.27 | 0.63 |                     |
|                          |                                 | -0.01 | 0.00 |             | -0.02 | 0.00 |             | -0.01 | 0.01 |             | -0.04 | 0.01 |             | -0.02 | 0.02 |                     |
| HUC6ZA                   | <b>0.16</b>                     | 1.41  | 2.26 | <b>0.17</b> | 0.00  | 1.17 | <b>1.36</b> | 0.11  | 0.63 | <b>0.67</b> | 0.38  | 1.51 | <b>0.64</b> | 1.21  | 2.32 |                     |
|                          |                                 | 0.04  | 0.03 |             | 0.00  | 0.01 |             | 0.02  | 0.03 |             | 0.03  | 0.04 |             | 0.10  | 0.06 |                     |
| YTJ7GT                   | <b>0.13</b>                     | 0.13  |      | <b>0.15</b> | -0.68 |      | <b>1.42</b> | 0.40  |      | <b>0.66</b> | 0.21  |      | <b>0.56</b> | 0.16  |      |                     |
|                          |                                 | 0.00  | 0.00 |             | -0.02 | 0.00 |             | 0.08  | 0.00 |             | 0.02  | 0.00 |             | 0.01  | 0.00 |                     |
| YPJVKT                   | <b>0.11</b>                     | -0.51 | 0.52 | <b>0.14</b> | -1.08 | 0.00 | <b>1.11</b> | -1.15 | 0.25 | <b>0.50</b> | -1.81 | 1.38 | <b>0.38</b> | -2.09 | 0.66 |                     |
|                          |                                 | -0.01 | 0.01 |             | -0.03 | 0.00 |             | -0.23 | 0.01 |             | -0.14 | 0.03 |             | -0.17 | 0.02 |                     |
| WYZRCU                   | <b>0.15</b>                     | 1.06  | 0.33 | <b>0.18</b> | 0.57  | 0.04 | <b>1.41</b> | 0.35  | 0.35 | <b>0.65</b> | 0.03  | 1.11 | <b>0.58</b> | 0.44  | 0.23 |                     |
|                          |                                 | 0.03  | 0.00 |             | 0.01  | 0.00 |             | 0.07  | 0.02 |             | 0.00  | 0.03 |             | 0.04  | 0.01 |                     |
| BHL3GF                   | <b>0.15</b>                     | 0.90  | 0.90 | <b>0.17</b> | 0.00  | 0.58 | <b>1.32</b> | -0.09 | 0.33 | <b>0.64</b> | 0.00  | 1.22 | <b>0.58</b> | 0.37  | 0.22 |                     |
|                          |                                 | 0.02  | 0.01 |             | 0.00  | 0.01 |             | -0.02 | 0.02 |             | 0.00  | 0.03 |             | 0.03  | 0.01 |                     |
| MZGWVZ                   | <b>0.12</b>                     | -0.26 | 0.90 | <b>0.72</b> | 22.49 | 1.01 | <b>1.56</b> | 1.13  | 0.33 | <b>2.11</b> | 18.56 | 4.38 | <b>3.08</b> | 31.74 | 4.73 |                     |
|                          |                                 | -0.01 | 0.01 |             | 0.55  | 0.01 |             | 0.22  | 0.02 |             | 1.47  | 0.11 |             | 2.53  | 0.12 |                     |
| PHEWWY                   | <b>0.13</b>                     | 0.29  |      | <b>0.18</b> | 0.46  |      | <b>1.64</b> | 1.49  |      | <b>0.71</b> | 0.84  |      | <b>0.60</b> | 0.69  |      |                     |
|                          |                                 | 0.01  | 0.00 |             | 0.01  | 0.00 |             | 0.29  | 0.00 |             | 0.07  | 0.00 |             | 0.05  | 0.00 |                     |
| J6NUD7                   | <b>0.13</b>                     | 0.13  |      | <b>0.15</b> | -0.68 |      | <b>0.97</b> | -1.88 |      | <b>0.50</b> | -1.81 |      | <b>0.38</b> | -2.09 |      |                     |
|                          |                                 | 0.00  | 0.00 |             | -0.02 | 0.00 |             | -0.37 | 0.00 |             | -0.14 | 0.00 |             | -0.17 | 0.00 |                     |



## ALP Program - Participant Web Summary Report - Cycle 29

|                          | 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>Grand Median</b>      |                    | 0.13    |         |                    | 0.17    |         |                    | 1.34    |         |                    | 0.64    |         |                    | 0.55    |         |
| <b>Median Abs Dev</b>    |                    | 0.01    |         |                    | 0.01    |         |                    | 0.13    |         |                    | 0.04    |         |                    | 0.04    |         |
| <b>Avg Within Lab SD</b> |                    | 0.01    |         |                    | 0.01    |         |                    | 0.05    |         |                    | 0.03    |         |                    | 0.03    |         |
| <b>Labs Included</b>     |                    | 17      |         |                    | 17      |         |                    | 17      |         |                    | 17      |         |                    | 17      |         |
| <b>Labs Reporting</b>    |                    | 17      |         |                    | 17      |         |                    | 17      |         |                    | 17      |         |                    | 17      |         |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 106) | in the Salinity Property Groups |       |      |            |       |      |            |       |      |            |       |      |            |       |      | Data units: mmol/L |
|---------------------------|---------------------------------|-------|------|------------|-------|------|------------|-------|------|------------|-------|------|------------|-------|------|--------------------|
|                           | SRSSRS1601                      |       |      | SRSSRS1602 |       |      | SRSSRS1603 |       |      | SRSSRS1604 |       |      | SRSSRS1605 |       |      |                    |
| YAA32W                    | 3.65                            | 0.64  | 0.32 | 5.14       | -0.09 | 0.28 | 12.62      | 0.41  | 0.09 | 13.01      | 0.50  | 0.29 | 9.59       | 0.26  | 0.17 |                    |
|                           |                                 | 0.45  | 0.04 |            | -0.07 | 0.04 |            | 0.73  | 0.05 |            | 1.15  | 0.12 |            | 0.49  | 0.07 |                    |
| GZ63WD                    | 2.70                            | -0.71 | 0.92 | 4.57       | -0.76 | 0.90 | 10.98      | -0.52 | 2.05 | 10.02      | -0.80 | 1.59 | 8.12       | -0.51 | 0.79 |                    |
|                           |                                 | -0.50 | 0.11 |            | -0.64 | 0.13 |            | -0.92 | 1.01 |            | -1.84 | 0.63 |            | -0.98 | 0.30 |                    |
| 83L8FJ                    | 3.29                            | 0.13  | 2.60 | 4.50       | -0.85 | 0.11 | 10.68      | -0.69 | 0.69 | 12.48      | 0.27  | 1.15 | 7.93       | -0.60 | 0.15 |                    |
|                           |                                 | 0.09  | 0.31 |            | -0.72 | 0.02 |            | -1.21 | 0.34 |            | 0.62  | 0.46 |            | -1.17 | 0.06 |                    |
| 644GFL                    | 2.95                            | -0.35 | 1.13 | 5.49       | 0.33  | 1.51 | 12.34      | 0.26  | 2.21 | 11.27      | -0.25 | 1.90 | 8.89       | -0.11 | 0.95 |                    |
|                           |                                 | -0.25 | 0.14 |            | 0.28  | 0.23 |            | 0.45  | 1.08 |            | -0.59 | 0.76 |            | -0.20 | 0.36 |                    |
| 2GK3BP                    | 2.97                            | -0.32 | 0.52 | 5.58       | 0.43  | 0.72 | 11.53      | -0.20 | 2.08 | 13.38      | 0.66  | 0.98 | 9.53       | 0.22  | 1.71 |                    |
|                           |                                 | -0.23 | 0.06 |            | 0.36  | 0.11 |            | -0.36 | 1.02 |            | 1.52  | 0.39 |            | 0.43  | 0.66 |                    |
| 33JQFQ                    | 3.80                            | 0.85  | 0.00 | 4.80       | -0.49 | 0.00 | 11.65      | -0.14 | 0.00 | 12.40      | 0.23  | 0.00 | 8.10       | -0.52 | 0.00 |                    |
|                           |                                 | 0.60  | 0.00 |            | -0.41 | 0.00 |            | -0.24 | 0.00 |            | 0.54  | 0.00 |            | -1.00 | 0.00 |                    |
| XNBEWV                    | 2.99                            | -0.29 | 0.32 | 5.83       | 0.73  | 1.49 | 14.15      | 1.28  | 1.00 | 14.22      | 1.02  | 0.55 | 11.46      | 1.22  | 1.38 |                    |
|                           |                                 | -0.21 | 0.04 |            | 0.61  | 0.22 |            | 2.26  | 0.49 |            | 2.36  | 0.22 |            | 2.36  | 0.53 |                    |
| FPNYC9                    | 3.13                            | -0.10 | 1.01 | 4.37       | -1.00 | 3.14 | 9.77       | -1.20 | 0.88 | 10.46      | -0.61 | 1.67 | 7.93       | -0.61 | 0.28 |                    |
|                           |                                 | -0.07 | 0.12 |            | -0.85 | 0.47 |            | -2.12 | 0.43 |            | -1.40 | 0.66 |            | -1.17 | 0.11 |                    |
| FKH3T9                    | 2.91                            | -0.41 | 0.17 | 5.29       | 0.09  | 0.17 | 11.66      | -0.13 | 0.37 | 10.88      | -0.42 | 0.47 | 8.44       | -0.34 | 0.54 |                    |
|                           |                                 | -0.29 | 0.02 |            | 0.07  | 0.03 |            | -0.23 | 0.18 |            | -0.98 | 0.19 |            | -0.66 | 0.21 |                    |
| WGX7VT                    | 4.55                            | 1.91  | 0.46 | 4.75       | -0.55 | 0.86 | 11.40      | -0.28 | 0.54 | 11.53      | -0.14 | 0.95 | 9.65       | 0.28  | 0.08 |                    |
|                           |                                 | 1.35  | 0.06 |            | -0.47 | 0.13 |            | -0.49 | 0.26 |            | -0.33 | 0.38 |            | 0.55  | 0.03 |                    |
| QECBRZ                    | 3.37                            | 0.24  | 0.96 | 4.83       | -0.45 | 0.39 | 12.23      | 0.19  | 0.47 | 13.00      | 0.49  | 0.44 | 9.47       | 0.19  | 0.60 |                    |
|                           |                                 | 0.17  | 0.12 |            | -0.38 | 0.06 |            | 0.34  | 0.23 |            | 1.14  | 0.17 |            | 0.37  | 0.23 |                    |
| 6VACMK                    | 2.63                            | -0.81 |      | 4.87       | -0.41 |      | 12.40      | 0.29  |      | 11.26      | -0.26 |      | 7.23       | -0.97 |      |                    |
|                           |                                 | -0.57 | 0.00 |            | -0.34 | 0.00 |            | 0.51  | 0.00 |            | -0.60 | 0.00 |            | -1.87 | 0.00 |                    |
| UNPG82                    | 3.22                            | 0.03  | 1.08 | 5.87       | 0.78  | 1.98 | 12.80      | 0.52  | 2.47 | 11.80      | -0.03 | 1.00 | 10.00      | 0.47  | 3.93 |                    |
|                           |                                 | 0.02  | 0.13 |            | 0.66  | 0.30 |            | 0.91  | 1.21 |            | -0.06 | 0.40 |            | 0.90  | 1.51 |                    |
| JBF2VE                    | 2.76                            | -0.62 | 0.76 | 5.12       | -0.11 | 0.90 | 12.25      | 0.20  | 0.11 | 10.60      | -0.54 | 0.99 | 9.10       | 0.00  | 0.27 |                    |
|                           |                                 | -0.44 | 0.09 |            | -0.10 | 0.13 |            | 0.36  | 0.05 |            | -1.26 | 0.39 |            | 0.00  | 0.10 |                    |
| 98UYZG                    | 1.39                            | -2.56 | 0.37 | 2.58       | -3.12 | 0.51 | 5.15       | -3.83 | 1.00 | 5.22       | -2.88 | 0.76 | 4.08       | -2.59 | 0.43 |                    |
|                           |                                 | -1.81 | 0.04 |            | -2.64 | 0.08 |            | -6.74 | 0.49 |            | -6.64 | 0.30 |            | -5.02 | 0.17 |                    |
| RCXBZX                    | 2.87                            | -0.47 | 0.49 | 5.65       | 0.52  | 0.20 | 11.90      | 0.01  | 0.11 | 11.86      | 0.00  | 0.44 | 8.66       | -0.23 | 0.56 |                    |
|                           |                                 | -0.33 | 0.06 |            | 0.44  | 0.03 |            | 0.01  | 0.06 |            | 0.00  | 0.18 |            | -0.44 | 0.21 |                    |
| HUC6ZA                    | 3.29                            | 0.13  | 3.03 | 5.57       | 0.42  | 0.97 | 11.93      | 0.02  | 0.26 | 12.75      | 0.39  | 1.40 | 9.65       | 0.28  | 1.16 |                    |
|                           |                                 | 0.09  | 0.36 |            | 0.35  | 0.14 |            | 0.04  | 0.13 |            | 0.89  | 0.56 |            | 0.55  | 0.44 |                    |
| YTJ7GT                    | 3.20                            | 0.00  |      | 5.19       | -0.03 |      | 12.52      | 0.36  |      | 13.27      | 0.61  |      | 9.63       | 0.27  |      |                    |
|                           |                                 | 0.00  | 0.00 |            | -0.02 | 0.00 |            | 0.63  | 0.00 |            | 1.41  | 0.00 |            | 0.53  | 0.00 |                    |
| YPJVKT                    | 3.08                            | -0.17 | 0.05 | 5.23       | 0.02  | 0.19 | 10.43      | -0.83 | 0.82 | 10.08      | -0.77 | 0.15 | 7.55       | -0.80 | 0.00 |                    |
|                           |                                 | -0.12 | 0.01 |            | 0.02  | 0.03 |            | -1.46 | 0.40 |            | -1.78 | 0.06 |            | -1.55 | 0.00 |                    |
| WYZRCU                    | 3.73                            | 0.75  | 0.68 | 5.21       | 0.00  | 0.39 | 11.89      | 0.00  | 0.45 | 12.13      | 0.12  | 1.17 | 9.11       | 0.01  | 0.24 |                    |
|                           |                                 | 0.53  | 0.08 |            | 0.00  | 0.06 |            | 0.00  | 0.22 |            | 0.27  | 0.46 |            | 0.01  | 0.09 |                    |



## ALP Program - Participant Web Summary Report - Cycle 29

|                          | 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>BHL3GF</b>            | <b>3.86</b>        | 0.93    | 1.28    | <b>5.25</b>        | 0.04    | 1.45    | <b>11.43</b>       | -0.26   | 0.66    | <b>12.47</b>       | 0.26    | 2.44    | <b>9.72</b>        | 0.32    | 0.57    |
|                          |                    | 0.66    | 0.15    |                    | 0.04    | 0.22    |                    | -0.46   | 0.32    |                    | 0.61    | 0.97    |                    | 0.62    | 0.22    |
| <b>MZGWVZ</b>            | <b>5.18</b>        | 2.80    | 0.08    | <b>8.99</b>        | 4.47    | 0.07    | <b>7.67</b>        | -2.40   | 0.41    | <b>4.63</b>        | -3.13   | 0.18    | <b>0.88</b>        | -4.25   | 0.42    |
|                          |                    | 1.98    | 0.01    |                    | 3.78    | 0.01    |                    | -4.23   | 0.20    |                    | -7.23   | 0.07    |                    | -8.22   | 0.16    |
| <b>ZZZ3WM</b>            | <b>4.09</b>        | 1.26    |         | <b>4.98</b>        | -0.27   |         | <b>14.04</b>       | 1.22    |         | <b>17.29</b>       | 2.35    |         | <b>10.60</b>       | 0.77    |         |
|                          |                    | 0.89    | 0.00    |                    | -0.23   | 0.00    |                    | 2.15    | 0.00    |                    | 5.43    | 0.00    |                    | 1.50    | 0.00    |
| <b>PHEWWY</b>            | <b>3.23</b>        | 0.04    |         | <b>5.90</b>        | 0.82    |         | <b>13.32</b>       | 0.81    |         | <b>11.89</b>       | 0.01    |         | <b>10.17</b>       | 0.56    |         |
|                          |                    | 0.03    | 0.00    |                    | 0.69    | 0.00    |                    | 1.43    | 0.00    |                    | 0.03    | 0.00    |                    | 1.08    | 0.00    |
| <b>J6NUD7</b>            | <b>2.96</b>        | -0.34   |         | <b>5.29</b>        | 0.09    |         | <b>10.45</b>       | -0.82   |         | <b>11.59</b>       | -0.12   |         | <b>8.15</b>        | -0.49   |         |
|                          |                    | -0.24   | 0.00    |                    | 0.08    | 0.00    |                    | -1.44   | 0.00    |                    | -0.27   | 0.00    |                    | -0.95   | 0.00    |
| <b>Grand Median</b>      |                    | 3.20    |         |                    | 5.21    |         |                    | 11.9    |         |                    | 11.9    |         |                    | 9.10    |         |
| <b>Median Abs Dev</b>    |                    | 0.29    |         |                    | 0.36    |         |                    | 0.6     |         |                    | 1.0     |         |                    | 0.90    |         |
| <b>Avg Within Lab SD</b> |                    | 0.12    |         |                    | 0.15    |         |                    | 0.5     |         |                    | 0.4     |         |                    | 0.38    |         |
| <b>Labs Included</b>     |                    | 25      |         |                    | 25      |         |                    | 25      |         |                    | 25      |         |                    | 25      |         |
| <b>Labs Reporting</b>    |                    | 25      |         |                    | 25      |         |                    | 25      |         |                    | 25      |         |                    | 25      |         |





## ALP Program - Participant Web Summary Report - Cycle 29

| 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 107) | in the Salinity Property Groups |       |      |             |       |      |             |       |      |             |       |      |             |       |      | Data units: mmol/L |
|---------------------------|---------------------------------|-------|------|-------------|-------|------|-------------|-------|------|-------------|-------|------|-------------|-------|------|--------------------|
|                           | SRSSRS1601                      |       |      | SRSSRS1602  |       |      | SRSSRS1603  |       |      | SRSSRS1604  |       |      | SRSSRS1605  |       |      |                    |
| <b>YAA32W</b>             | <b>1.02</b>                     | 0.18  | 0.30 | <b>1.03</b> | -1.04 | 0.25 | <b>3.86</b> | 0.72  | 0.00 | <b>6.75</b> | 0.61  | 0.57 | <b>2.99</b> | 0.30  | 0.06 |                    |
|                           |                                 | 0.04  | 0.01 |             | -0.20 | 0.01 |             | 0.40  | 0.00 |             | 0.64  | 0.11 |             | 0.17  | 0.01 |                    |
| <b>GZ63WD</b>             | <b>0.88</b>                     | -0.50 | 0.75 | <b>1.08</b> | -0.80 | 0.76 | <b>2.89</b> | -1.04 | 1.42 | <b>4.72</b> | -1.31 | 1.31 | <b>2.55</b> | -0.48 | 0.27 |                    |
|                           |                                 | -0.10 | 0.03 |             | -0.15 | 0.03 |             | -0.57 | 0.20 |             | -1.38 | 0.25 |             | -0.27 | 0.04 |                    |
| <b>83L8FJ</b>             | <b>1.07</b>                     | 0.46  | 1.42 | <b>1.16</b> | -0.39 | 1.33 | <b>3.21</b> | -0.46 | 0.76 | <b>6.68</b> | 0.54  | 0.54 | <b>2.53</b> | -0.50 | 0.46 |                    |
|                           |                                 | 0.09  | 0.06 |             | -0.08 | 0.05 |             | -0.25 | 0.11 |             | 0.58  | 0.10 |             | -0.28 | 0.06 |                    |
| <b>644GFL</b>             | <b>0.84</b>                     | -0.73 | 1.16 | <b>1.18</b> | -0.26 | 1.12 | <b>3.40</b> | -0.11 | 1.92 | <b>5.38</b> | -0.69 | 1.57 | <b>2.73</b> | -0.15 | 0.92 |                    |
|                           |                                 | -0.15 | 0.05 |             | -0.05 | 0.04 |             | -0.06 | 0.27 |             | -0.73 | 0.30 |             | -0.08 | 0.13 |                    |
| <b>2GK3BP</b>             | <b>1.01</b>                     | 0.16  | 1.92 | <b>1.45</b> | 1.11  | 1.14 | <b>3.28</b> | -0.34 | 2.50 | <b>6.32</b> | 0.20  | 1.15 | <b>3.23</b> | 0.73  | 1.79 |                    |
|                           |                                 | 0.03  | 0.08 |             | 0.21  | 0.05 |             | -0.19 | 0.36 |             | 0.21  | 0.22 |             | 0.42  | 0.25 |                    |
| <b>33JQFQ</b>             | <b>1.17</b>                     | 0.95  | 0.00 | <b>1.25</b> | 0.09  |      | <b>3.50</b> | 0.07  |      | <b>6.42</b> | 0.30  | 0.00 | <b>2.50</b> | -0.56 |      |                    |
|                           |                                 | 0.19  | 0.00 |             | 0.02  | 0.00 |             | 0.04  | 0.00 |             | 0.31  | 0.00 |             | -0.32 | 0.00 |                    |
| <b>XNBEWV</b>             | <b>0.84</b>                     | -0.73 | 0.79 | <b>1.34</b> | 0.57  | 1.65 | <b>4.10</b> | 1.15  | 0.68 | <b>7.46</b> | 1.28  | 0.35 | <b>3.66</b> | 1.49  | 1.33 |                    |
|                           |                                 | -0.15 | 0.03 |             | 0.11  | 0.07 |             | 0.64  | 0.10 |             | 1.35  | 0.07 |             | 0.85  | 0.19 |                    |
| <b>FPNYC9</b>             | <b>1.03</b>                     | 0.24  | 0.65 | <b>1.08</b> | -0.78 | 2.50 | <b>3.14</b> | -0.59 | 0.88 | <b>5.63</b> | -0.45 | 1.59 | <b>2.69</b> | -0.23 | 0.27 |                    |
|                           |                                 | 0.05  | 0.03 |             | -0.15 | 0.10 |             | -0.33 | 0.13 |             | -0.48 | 0.30 |             | -0.13 | 0.04 |                    |
| <b>FKH3T9</b>             | <b>0.88</b>                     | -0.50 | 0.51 | <b>1.24</b> | 0.02  | 0.53 | <b>3.33</b> | -0.24 | 0.44 | <b>5.54</b> | -0.54 | 0.48 | <b>2.68</b> | -0.24 | 0.44 |                    |
|                           |                                 | -0.10 | 0.02 |             | 0.00  | 0.02 |             | -0.13 | 0.06 |             | -0.57 | 0.09 |             | -0.14 | 0.06 |                    |
| <b>WGX7VT</b>             | <b>1.43</b>                     | 2.26  | 0.25 | <b>2.01</b> | 4.05  | 0.39 | <b>3.93</b> | 0.85  | 0.15 | <b>6.02</b> | -0.08 | 0.41 | <b>3.63</b> | 1.43  | 0.19 |                    |
|                           |                                 | 0.45  | 0.01 |             | 0.78  | 0.02 |             | 0.47  | 0.02 |             | -0.09 | 0.08 |             | 0.81  | 0.03 |                    |
| <b>QECBRZ</b>             | <b>1.13</b>                     | 0.76  | 1.42 | <b>1.17</b> | -0.35 | 1.46 | <b>3.87</b> | 0.73  | 0.81 | <b>7.03</b> | 0.88  | 1.10 | <b>3.30</b> | 0.85  | 0.72 |                    |
|                           |                                 | 0.15  | 0.06 |             | -0.07 | 0.06 |             | 0.40  | 0.12 |             | 0.93  | 0.21 |             | 0.48  | 0.10 |                    |
| <b>6VACMK</b>             | <b>0.98</b>                     | -0.01 |      | <b>1.32</b> | 0.45  |      | <b>3.91</b> | 0.81  |      | <b>6.39</b> | 0.27  |      | <b>2.50</b> | -0.56 |      |                    |
|                           |                                 | 0.00  | 0.00 |             | 0.09  | 0.00 |             | 0.45  | 0.00 |             | 0.28  | 0.00 |             | -0.32 | 0.00 |                    |
| <b>UNPG82</b>             | <b>0.96</b>                     | -0.13 | 0.93 | <b>1.37</b> | 0.71  | 1.11 | <b>3.69</b> | 0.41  | 2.72 | <b>6.00</b> | -0.10 | 1.12 | <b>3.20</b> | 0.67  | 3.71 |                    |
|                           |                                 | -0.03 | 0.04 |             | 0.14  | 0.04 |             | 0.23  | 0.39 |             | -0.11 | 0.21 |             | 0.38  | 0.52 |                    |
| <b>JBF2VE</b>             | <b>0.84</b>                     | -0.72 | 1.07 | <b>1.20</b> | -0.20 | 0.28 | <b>3.50</b> | 0.07  | 0.35 | <b>5.14</b> | -0.92 | 0.97 | <b>2.91</b> | 0.16  | 0.68 |                    |
|                           |                                 | -0.14 | 0.04 |             | -0.04 | 0.01 |             | 0.04  | 0.05 |             | -0.97 | 0.18 |             | 0.09  | 0.09 |                    |
| <b>98UYZG</b>             | <b>0.38</b>                     | -3.03 | 0.38 | <b>0.57</b> | -3.47 | 1.02 | <b>1.34</b> | -3.84 | 0.89 | <b>2.39</b> | -3.52 | 0.76 | <b>1.14</b> | -2.96 | 0.32 |                    |
|                           |                                 | -0.60 | 0.02 |             | -0.67 | 0.04 |             | -2.12 | 0.13 |             | -3.72 | 0.14 |             | -1.68 | 0.04 |                    |
| <b>RCXBZX</b>             | <b>0.89</b>                     | -0.48 | 0.20 | <b>1.29</b> | 0.30  | 0.50 | <b>3.35</b> | -0.20 | 0.19 | <b>6.10</b> | 0.00  | 0.55 | <b>2.73</b> | -0.16 | 0.61 |                    |
|                           |                                 | -0.10 | 0.01 |             | 0.06  | 0.02 |             | -0.11 | 0.03 |             | 0.00  | 0.10 |             | -0.09 | 0.08 |                    |
| <b>HUC6ZA</b>             | <b>0.98</b>                     | 0.01  | 2.72 | <b>1.35</b> | 0.59  | 0.39 | <b>3.51</b> | 0.08  | 0.25 | <b>6.45</b> | 0.33  | 1.61 | <b>3.19</b> | 0.66  | 1.06 |                    |
|                           |                                 | 0.00  | 0.11 |             | 0.11  | 0.02 |             | 0.05  | 0.04 |             | 0.35  | 0.30 |             | 0.37  | 0.15 |                    |
| <b>YTJ7GT</b>             | <b>1.02</b>                     | 0.19  |      | <b>1.28</b> | 0.24  |      | <b>3.92</b> | 0.82  |      | <b>7.00</b> | 0.85  |      | <b>3.19</b> | 0.66  |      |                    |
|                           |                                 | 0.04  | 0.00 |             | 0.05  | 0.00 |             | 0.46  | 0.00 |             | 0.89  | 0.00 |             | 0.37  | 0.00 |                    |
| <b>YPJVKT</b>             | <b>0.93</b>                     | -0.24 | 0.14 | <b>1.21</b> | -0.14 | 0.29 | <b>3.18</b> | -0.51 | 0.53 | <b>5.21</b> | -0.85 | 0.18 | <b>2.44</b> | -0.66 | 0.25 |                    |
|                           |                                 | -0.05 | 0.01 |             | -0.03 | 0.01 |             | -0.28 | 0.08 |             | -0.90 | 0.03 |             | -0.38 | 0.03 |                    |
| <b>WYZRCU</b>             | <b>1.12</b>                     | 0.68  | 0.56 | <b>1.23</b> | -0.02 | 0.43 | <b>3.62</b> | 0.29  | 0.48 | <b>6.12</b> | 0.02  | 1.27 | <b>2.90</b> | 0.15  | 0.20 |                    |
|                           |                                 | 0.14  | 0.02 |             | 0.00  | 0.02 |             | 0.16  | 0.07 |             | 0.02  | 0.24 |             | 0.08  | 0.03 |                    |



## ALP Program - Participant Web Summary Report - Cycle 29

|                          | 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>BHL3GF</b>            | <b>1.20</b>        | 1.10    | 1.73    | <b>1.23</b>        | -0.04   | 2.11    | <b>3.43</b>        | -0.07   | 0.69    | <b>6.33</b>        | 0.21    | 2.51    | <b>3.18</b>        | 0.64    | 1.04    |
|                          |                    | 0.22    | 0.07    |                    | -0.01   | 0.08    |                    | -0.04   | 0.10    |                    | 0.22    | 0.47    |                    | 0.37    | 0.14    |
| <b>MZGWVZ</b>            | <b>1.44</b>        | 2.31    | 0.25    | <b>2.83</b>        | 8.30    | 3.44    | <b>1.47</b>        | -3.59   | 0.93    | <b>1.04</b>        | -4.79   | 0.31    | <b>0.30</b>        | -4.43   | 1.24    |
|                          |                    | 0.46    | 0.01    |                    | 1.60    | 0.14    |                    | -1.99   | 0.13    |                    | -5.06   | 0.06    |                    | -2.52   | 0.17    |
| <b>ZZZ3WM</b>            | <b>1.23</b>        | 1.25    |         | <b>1.23</b>        | -0.02   |         | <b>4.02</b>        | 1.01    |         | <b>8.39</b>        | 2.16    |         | <b>3.18</b>        | 0.63    |         |
|                          |                    | 0.25    | 0.00    |                    | 0.00    | 0.00    |                    | 0.56    | 0.00    |                    | 2.29    | 0.00    |                    | 0.36    | 0.00    |
| <b>PHEWWY</b>            | <b>0.93</b>        | -0.26   |         | <b>1.34</b>        | 0.55    |         | <b>3.97</b>        | 0.91    |         | <b>6.11</b>        | 0.00    |         | <b>3.34</b>        | 0.91    |         |
|                          |                    | -0.05   | 0.00    |                    | 0.11    | 0.00    |                    | 0.50    | 0.00    |                    | 0.00    | 0.00    |                    | 0.52    | 0.00    |
| <b>J6NUD7</b>            | <b>0.86</b>        | -0.61   |         | <b>1.24</b>        | 0.03    |         | <b>2.97</b>        | -0.89   |         | <b>6.02</b>        | -0.08   |         | <b>2.57</b>        | -0.43   |         |
|                          |                    | -0.12   | 0.00    |                    | 0.01    | 0.00    |                    | -0.49   | 0.00    |                    | -0.09   | 0.00    |                    | -0.25   | 0.00    |
| <b>Grand Median</b>      |                    | 0.98    |         |                    | 1.23    |         |                    | 3.46    |         |                    | 6.11    |         |                    | 2.82    |         |
| <b>Median Abs Dev</b>    |                    | 0.10    |         |                    | 0.07    |         |                    | 0.30    |         |                    | 0.52    |         |                    | 0.34    |         |
| <b>Avg Within Lab SD</b> |                    | 0.04    |         |                    | 0.04    |         |                    | 0.14    |         |                    | 0.19    |         |                    | 0.14    |         |
| <b>Labs Included</b>     |                    | 24      |         |                    | 24      |         |                    | 24      |         |                    | 24      |         |                    | 24      |         |
| <b>Labs Reporting</b>    |                    | 24      |         |                    | 24      |         |                    | 24      |         |                    | 24      |         |                    | 24      |         |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 108) | in the Salinity Property Groups |       |      |             |       |      |             |       |      |             |       |      |             |       |      | Data units: mmolc/L |
|---------------------------|---------------------------------|-------|------|-------------|-------|------|-------------|-------|------|-------------|-------|------|-------------|-------|------|---------------------|
|                           | SRSSRS1601                      |       |      | SRSSRS1602  |       |      | SRSSRS1603  |       |      | SRSSRS1604  |       |      | SRSSRS1605  |       |      |                     |
| YAA32W                    | <b>0.18</b>                     | -0.01 | 0.15 | <b>0.42</b> | 2.50  | 0.32 | <b>0.63</b> | 3.57  | 3.60 | <b>0.78</b> | 1.78  | 1.72 | <b>0.59</b> | 3.33  | 0.56 |                     |
|                           |                                 | 0.00  | 0.00 |             | 0.19  | 0.01 |             | 0.38  | 0.19 |             | 0.21  | 0.07 |             | 0.32  | 0.02 |                     |
| GZ63WD                    | <b>0.19</b>                     | 0.17  | 0.20 | <b>0.21</b> | -0.24 | 0.45 | <b>0.19</b> | -0.56 | 0.37 | <b>0.48</b> | -0.77 | 0.74 | <b>0.26</b> | -0.13 | 0.15 |                     |
|                           |                                 | 0.01  | 0.01 |             | -0.02 | 0.01 |             | -0.06 | 0.02 |             | -0.09 | 0.03 |             | -0.01 | 0.01 |                     |
| 83L8FJ                    | <b>0.23</b>                     | 0.67  | 3.29 | <b>0.23</b> | 0.00  | 2.66 | <b>0.25</b> | 0.00  | 0.50 | <b>0.68</b> | 0.88  | 3.05 | <b>0.29</b> | 0.13  | 1.90 |                     |
|                           |                                 | 0.05  | 0.09 |             | 0.00  | 0.06 |             | 0.00  | 0.03 |             | 0.10  | 0.13 |             | 0.01  | 0.07 |                     |
| 644GFL                    | <b>0.13</b>                     | -0.59 | 2.01 | <b>0.22</b> | -0.10 | 0.36 | <b>0.33</b> | 0.70  | 0.78 | <b>0.53</b> | -0.34 | 0.90 | <b>0.40</b> | 1.31  | 0.59 |                     |
|                           |                                 | -0.05 | 0.06 |             | -0.01 | 0.01 |             | 0.08  | 0.04 |             | -0.04 | 0.04 |             | 0.12  | 0.02 |                     |
| 2GK3BP                    | <b>0.40</b>                     | 2.91  | 1.07 | <b>0.53</b> | 3.94  | 0.94 | <b>0.45</b> | 1.88  | 1.07 | <b>0.84</b> | 2.27  | 0.70 | <b>0.48</b> | 2.16  | 0.89 |                     |
|                           |                                 | 0.22  | 0.03 |             | 0.30  | 0.02 |             | 0.20  | 0.06 |             | 0.26  | 0.03 |             | 0.20  | 0.03 |                     |
| 33JQFQ                    | <b>0.17</b>                     | -0.13 | 0.00 | <b>0.22</b> | -0.11 | 0.00 | <b>0.22</b> | -0.28 | 0.00 | <b>0.57</b> | -0.03 | 0.00 | <b>0.22</b> | -0.58 | 0.00 |                     |
|                           |                                 | -0.01 | 0.00 |             | -0.01 | 0.00 |             | -0.03 | 0.00 |             | 0.00  | 0.00 |             | -0.06 | 0.00 |                     |
| XNBEWV                    | <b>0.08</b>                     | -1.26 | 0.20 | <b>0.16</b> | -0.94 | 0.69 | <b>0.18</b> | -0.62 | 0.28 | <b>0.58</b> | 0.06  | 0.49 | <b>0.26</b> | -0.20 | 0.78 |                     |
|                           |                                 | -0.10 | 0.01 |             | -0.07 | 0.02 |             | -0.07 | 0.02 |             | 0.01  | 0.02 |             | -0.02 | 0.03 |                     |
| FPNYC9                    | <b>0.15</b>                     | -0.39 | 1.82 | <b>0.24</b> | 0.16  | 1.63 | <b>0.25</b> | 0.00  | 0.49 | <b>0.60</b> | 0.26  | 0.51 | <b>0.30</b> | 0.30  | 0.15 |                     |
|                           |                                 | -0.03 | 0.05 |             | 0.01  | 0.04 |             | 0.00  | 0.03 |             | 0.03  | 0.02 |             | 0.03  | 0.01 |                     |
| FKH3T9                    | <b>0.21</b>                     | 0.39  | 0.35 | <b>0.30</b> | 0.90  | 1.45 | <b>0.30</b> | 0.43  | 0.92 | <b>0.59</b> | 0.11  | 0.37 | <b>0.31</b> | 0.33  | 1.29 |                     |
|                           |                                 | 0.03  | 0.01 |             | 0.07  | 0.03 |             | 0.05  | 0.05 |             | 0.01  | 0.02 |             | 0.03  | 0.05 |                     |
| WGX7VT                    | <b>0.20</b>                     | 0.30  | 0.20 | <b>0.24</b> | 0.16  | 0.45 | <b>0.19</b> | -0.53 | 0.11 | <b>0.52</b> | -0.46 | 0.24 | <b>0.47</b> | 2.09  | 0.65 |                     |
|                           |                                 | 0.02  | 0.01 |             | 0.01  | 0.01 |             | -0.06 | 0.01 |             | -0.05 | 0.01 |             | 0.20  | 0.03 |                     |
| QECBRZ                    | <b>0.20</b>                     | 0.26  | 0.00 | <b>0.27</b> | 0.51  | 2.60 | <b>0.27</b> | 0.15  | 1.07 | <b>0.63</b> | 0.52  | 1.41 | <b>0.37</b> | 0.96  | 1.48 |                     |
|                           |                                 | 0.02  | 0.00 |             | 0.04  | 0.06 |             | 0.02  | 0.06 |             | 0.06  | 0.06 |             | 0.09  | 0.06 |                     |
| 6VACMK                    | <b>0.26</b>                     | 1.04  |      | <b>0.24</b> | 0.16  |      | <b>0.27</b> | 0.19  |      | <b>0.57</b> | -0.03 |      | <b>0.21</b> | -0.69 |      |                     |
|                           |                                 | 0.08  | 0.00 |             | 0.01  | 0.00 |             | 0.02  | 0.00 |             | 0.00  | 0.00 |             | -0.07 | 0.00 |                     |
| UNPG82                    | <b>0.12</b>                     | -0.82 | 0.40 | <b>0.20</b> | -0.42 | 0.26 | <b>0.20</b> | -0.49 | 0.11 | <b>0.54</b> | -0.32 | 0.51 | <b>0.25</b> | -0.30 | 1.04 |                     |
|                           |                                 | -0.06 | 0.01 |             | -0.03 | 0.01 |             | -0.05 | 0.01 |             | -0.04 | 0.02 |             | -0.03 | 0.04 |                     |
| JBF2VE                    | <b>0.16</b>                     | -0.30 | 0.53 | <b>0.21</b> | -0.21 | 0.82 | <b>0.21</b> | -0.40 | 0.09 | <b>0.48</b> | -0.77 | 0.92 | <b>0.30</b> | 0.27  | 0.86 |                     |
|                           |                                 | -0.02 | 0.02 |             | -0.02 | 0.02 |             | -0.04 | 0.00 |             | -0.09 | 0.04 |             | 0.03  | 0.03 |                     |
| 98UYZG                    | <b>0.12</b>                     | -0.83 | 0.75 | <b>0.18</b> | -0.65 | 0.69 | <b>0.18</b> | -0.62 | 0.68 | <b>0.48</b> | -0.76 | 0.44 | <b>0.26</b> | -0.19 | 2.54 |                     |
|                           |                                 | -0.06 | 0.02 |             | -0.05 | 0.02 |             | -0.07 | 0.04 |             | -0.09 | 0.02 |             | -0.02 | 0.10 |                     |
| RCXBZX                    | <b>0.12</b>                     | -0.76 | 0.27 | <b>0.22</b> | -0.09 | 0.59 | <b>0.20</b> | -0.47 | 0.16 | <b>0.54</b> | -0.29 | 0.12 | <b>0.23</b> | -0.47 | 0.25 |                     |
|                           |                                 | -0.06 | 0.01 |             | -0.01 | 0.01 |             | -0.05 | 0.01 |             | -0.03 | 0.00 |             | -0.04 | 0.01 |                     |
| HUC6ZA                    |                                 |       |      | <b>0.23</b> | 0.02  |      |             |       |      | <b>0.62</b> | 0.37  | 1.23 | <b>0.24</b> | -0.37 | 0.00 |                     |
|                           |                                 |       |      |             | 0.00  | 0.00 |             |       |      |             | 0.04  | 0.05 |             | -0.04 | 0.00 |                     |
| YTJ7GT                    |                                 |       |      | <b>0.22</b> | -0.11 |      |             | 0.09  |      | <b>0.78</b> | 1.78  |      | <b>0.30</b> | 0.26  |      |                     |
|                           |                                 |       |      |             | -0.01 | 0.00 |             | 0.01  | 0.00 |             | 0.21  | 0.00 |             | 0.02  | 0.00 |                     |
| YPJVKT                    |                                 |       |      |             |       |      | <b>0.30</b> | 0.49  | 0.11 | <b>0.45</b> | -1.09 | 0.14 |             |       |      |                     |
|                           |                                 |       |      |             |       |      |             | 0.05  | 0.01 |             | -0.13 | 0.01 |             |       |      |                     |
| WYZRCU                    | <b>0.19</b>                     | 0.19  | 0.24 | <b>0.27</b> | 0.53  | 0.60 | <b>0.24</b> | -0.09 | 0.17 | <b>0.61</b> | 0.28  | 0.14 | <b>0.26</b> | -0.14 | 0.07 |                     |
|                           |                                 | 0.01  | 0.01 |             | 0.04  | 0.01 |             | -0.01 | 0.01 |             | 0.03  | 0.01 |             | -0.01 | 0.00 |                     |



## ALP Program - Participant Web Summary Report - Cycle 29

|                          | 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>BHL3GF</b>            |                    |         |         |                    |         |         |                    |         |         | <b>0.57</b>        | 0.00    | 0.70    | <b>0.29</b>        | 0.15    | 1.80    |
| <b>MZGWVZ</b>            | <b>0.23</b>        | 0.69    | 0.53    | <b>0.35</b>        | 1.56    | 0.69    | <b>0.53</b>        | 2.63    | 2.24    | <b>0.54</b>        | -0.26   | 2.20    | <b>0.26</b>        | -0.16   | 1.56    |
| <b>ZZZ3WM</b>            | <b>0.29</b>        | 1.48    |         | <b>0.35</b>        | 1.61    |         | <b>0.27</b>        | 0.22    |         | <b>0.89</b>        | -0.03   | 0.09    | <b>0.34</b>        | -0.02   | 0.06    |
| <b>PHEWWY</b>            | <b>0.11</b>        | -0.96   | 0.00    | <b>0.20</b>        | -0.35   | 0.00    | <b>0.20</b>        | -0.46   | 0.00    | <b>0.58</b>        | 2.72    | 0.00    | <b>0.24</b>        | 0.07    | 0.00    |
| <b>J6NUD7</b>            | <b>0.18</b>        | -0.07   | 0.00    | <b>0.21</b>        | -0.03   | 0.00    | <b>0.18</b>        | -0.05   | 0.00    | <b>0.49</b>        | 0.02    | 0.00    | <b>0.22</b>        | -0.39   | -0.04   |
|                          |                    | 0.00    | 0.00    |                    | -0.24   |         |                    | -0.65   |         |                    | -0.72   |         |                    | -0.58   | 0.00    |
|                          |                    | 0.00    | 0.00    |                    | -0.02   | 0.00    |                    | -0.07   | 0.00    |                    | -0.08   | 0.00    |                    | -0.06   | 0.00    |
| <b>Grand Median</b>      |                    | 0.18    |         |                    | 0.23    |         |                    | 0.25    |         |                    | 0.57    |         |                    | 0.28    |         |
| <b>Median Abs Dev</b>    |                    | 0.05    |         |                    | 0.02    |         |                    | 0.05    |         |                    | 0.04    |         |                    | 0.03    |         |
| <b>Avg Within Lab SD</b> |                    | 0.03    |         |                    | 0.02    |         |                    | 0.05    |         |                    | 0.04    |         |                    | 0.04    |         |
| <b>Labs Included</b>     |                    | 21      |         |                    | 23      |         |                    | 23      |         |                    | 25      |         |                    | 24      |         |
| <b>Labs Reporting</b>    |                    | 21      |         |                    | 23      |         |                    | 23      |         |                    | 25      |         |                    | 24      |         |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 109) | in the Salinity Property Groups |       |      |             |       |      |             |       |      |             |       |      | Data units: value |       |      |
|----------------------------|---------------------------------|-------|------|-------------|-------|------|-------------|-------|------|-------------|-------|------|-------------------|-------|------|
|                            | SRSSRS1601                      |       |      | SRSSRS1602  |       |      | SRSSRS1603  |       |      | SRSSRS1604  |       |      | SRSSRS1605        |       |      |
| YAA32W                     | <b>0.12</b>                     | -0.17 | 0.14 | <b>0.24</b> | 1.85  | 0.28 | <b>0.22</b> | 3.34  | 3.36 | <b>0.25</b> | 1.13  | 1.67 | <b>0.24</b>       | 2.91  | 0.41 |
|                            |                                 | -0.01 | 0.00 |             | 0.10  | 0.00 |             | 0.12  | 0.07 |             | 0.05  | 0.02 |                   | 0.11  | 0.01 |
| 83L8FJ                     | <b>0.16</b>                     | 0.60  | 2.83 | <b>0.14</b> | 0.00  | 1.96 | <b>0.10</b> | -0.14 | 0.58 | <b>0.22</b> | 0.44  | 3.34 | <b>0.13</b>       | 0.03  | 1.65 |
|                            |                                 | 0.03  | 0.07 |             | 0.00  | 0.03 |             | 0.00  | 0.01 |             | 0.02  | 0.04 |                   | 0.00  | 0.03 |
| 644GFL                     | <b>0.10</b>                     | -0.55 | 1.60 | <b>0.12</b> | -0.27 | 0.28 | <b>0.12</b> | 0.44  | 0.50 | <b>0.19</b> | -0.35 | 0.56 | <b>0.17</b>       | 1.08  | 0.32 |
|                            |                                 | -0.03 | 0.04 |             | -0.01 | 0.00 |             | 0.02  | 0.01 |             | -0.01 | 0.01 |                   | 0.04  | 0.01 |
| 2GK3BP                     | <b>0.29</b>                     | 2.97  | 0.71 | <b>0.28</b> | 2.64  | 0.55 | <b>0.17</b> | 1.86  | 1.42 | <b>0.27</b> | 1.56  | 0.70 | <b>0.19</b>       | 1.71  | 0.37 |
|                            |                                 | 0.16  | 0.02 |             | 0.15  | 0.01 |             | 0.07  | 0.03 |             | 0.07  | 0.01 |                   | 0.07  | 0.01 |
| FPNYC9                     | <b>0.11</b>                     | -0.37 | 1.18 | <b>0.15</b> | 0.20  | 0.86 | <b>0.10</b> | 0.00  | 0.49 | <b>0.21</b> | 0.31  | 0.46 | <b>0.13</b>       | 0.15  | 0.00 |
|                            |                                 | -0.02 | 0.03 |             | 0.01  | 0.02 |             | 0.00  | 0.01 |             | 0.01  | 0.01 |                   | 0.01  | 0.00 |
| FKH3T9                     | <b>0.15</b>                     | 0.50  | 0.47 | <b>0.17</b> | 0.57  | 0.86 | <b>0.11</b> | 0.28  | 0.86 | <b>0.21</b> | 0.16  | 0.46 | <b>0.13</b>       | 0.15  | 1.04 |
|                            |                                 | 0.03  | 0.01 |             | 0.03  | 0.02 |             | 0.01  | 0.02 |             | 0.01  | 0.01 |                   | 0.01  | 0.02 |
| QECBRZ                     | <b>0.10</b>                     | -0.50 | 0.00 | <b>0.17</b> | 0.57  | 3.27 | <b>0.10</b> | 0.00  | 0.00 | <b>0.20</b> | 0.00  | 0.00 | <b>0.17</b>       | 1.10  | 2.99 |
|                            |                                 | -0.03 | 0.00 |             | 0.03  | 0.06 |             | 0.00  | 0.00 |             | 0.00  | 0.00 |                   | 0.04  | 0.06 |
| 6VACMK                     | <b>0.19</b>                     | 1.18  |      | <b>0.14</b> | 0.08  |      | <b>0.10</b> | 0.00  |      | <b>0.19</b> | -0.23 |      | <b>0.10</b>       | -0.64 |      |
|                            |                                 | 0.06  | 0.00 |             | 0.00  | 0.00 |             | 0.00  | 0.00 |             | -0.01 | 0.00 |                   | -0.02 | 0.00 |
| UNPG82                     |                                 |       |      | <b>0.10</b> | -0.65 | 0.00 |             |       |      | <b>0.20</b> | 0.00  | 0.00 | <b>0.10</b>       | -0.64 |      |
|                            |                                 |       |      |             | -0.04 | 0.00 |             |       |      |             | 0.00  | 0.00 |                   | -0.02 | 0.00 |
| JBF2VE                     | <b>0.12</b>                     | -0.19 | 0.47 | <b>0.12</b> | -0.28 | 0.57 | <b>0.07</b> | -0.74 | 0.29 | <b>0.17</b> | -0.62 | 1.21 | <b>0.12</b>       | -0.03 | 0.79 |
|                            |                                 | -0.01 | 0.01 |             | -0.02 | 0.01 |             | -0.03 | 0.01 |             | -0.03 | 0.02 |                   | 0.00  | 0.02 |
| RCXBZX                     | <b>0.09</b>                     | -0.68 | 0.00 | <b>0.12</b> | -0.34 | 0.33 | <b>0.07</b> | -0.83 | 0.00 | <b>0.18</b> | -0.47 | 0.00 | <b>0.10</b>       | -0.72 | 0.30 |
|                            |                                 | -0.04 | 0.00 |             | -0.02 | 0.01 |             | -0.03 | 0.00 |             | -0.02 | 0.00 |                   | -0.03 | 0.01 |
| HUC6ZA                     |                                 |       |      | <b>0.12</b> | -0.28 |      |             |       |      | <b>0.20</b> | 0.00  | 1.38 |                   |       |      |
|                            |                                 |       |      |             | -0.02 | 0.00 |             |       |      |             | 0.00  | 0.02 |                   |       |      |
| YTJ7GT                     |                                 |       |      | <b>0.12</b> | -0.28 |      |             |       |      | <b>0.25</b> | 1.17  |      | <b>0.12</b>       | -0.11 |      |
|                            |                                 |       |      |             | -0.02 | 0.00 |             |       |      |             | 0.05  | 0.00 |                   | 0.00  | 0.00 |
| YPJVKT                     |                                 |       |      |             |       |      | <b>0.12</b> | 0.55  |      | <b>0.16</b> | -0.94 |      |                   |       |      |
|                            |                                 |       |      |             |       |      |             | 0.02  | 0.00 |             | -0.04 | 0.00 |                   |       |      |
| WYZRCU                     | <b>0.13</b>                     | 0.00  | 0.24 | <b>0.15</b> | 0.20  | 0.33 | <b>0.09</b> | -0.38 | 0.19 | <b>0.20</b> | 0.08  | 0.46 | <b>0.11</b>       | -0.38 | 0.00 |
|                            |                                 | 0.00  | 0.01 |             | 0.01  | 0.01 |             | -0.01 | 0.00 |             | 0.00  | 0.01 |                   | -0.01 | 0.00 |
| BHL3GF                     |                                 |       |      |             |       |      |             |       |      | <b>0.19</b> | -0.31 | 0.46 | <b>0.12</b>       | -0.11 | 1.47 |
|                            |                                 |       |      |             |       |      |             |       |      |             | -0.01 | 0.01 |                   | 0.00  | 0.03 |
| MZGWVZ                     | <b>0.42</b>                     | 5.54  | 0.63 | <b>0.80</b> | 12.08 | 0.57 | <b>0.63</b> | 14.71 | 1.14 | <b>0.96</b> | 17.79 | 4.21 | <b>0.58</b>       | 11.88 | 1.79 |
|                            |                                 | 0.30  | 0.02 |             | 0.66  | 0.01 |             | 0.53  | 0.02 |             | 0.76  | 0.05 |                   | 0.46  | 0.03 |
| ZZZ3WM                     | <b>0.18</b>                     | 1.00  |      | <b>0.20</b> | 1.15  |      | <b>0.09</b> | -0.25 |      | <b>0.25</b> | 1.12  |      | <b>0.13</b>       | 0.15  |      |
|                            |                                 | 0.05  | 0.00 |             | 0.06  | 0.00 |             | -0.01 | 0.00 |             | 0.05  | 0.00 |                   | 0.01  | 0.00 |
| PHEWWY                     |                                 |       |      | <b>0.05</b> | -1.63 |      | <b>0.08</b> | -0.49 |      | <b>0.06</b> | -3.23 |      |                   |       |      |
|                            |                                 |       |      |             | -0.09 | 0.00 |             | -0.02 | 0.00 |             | -0.14 | 0.00 |                   |       |      |
| J6NUD7                     | <b>0.13</b>                     | 0.06  |      | <b>0.11</b> | -0.46 |      | <b>0.07</b> | -0.83 |      | <b>0.17</b> | -0.70 |      | <b>0.09</b>       | -0.90 |      |
|                            |                                 | 0.00  | 0.00 |             | -0.03 | 0.00 |             | -0.03 | 0.00 |             | -0.03 | 0.00 |                   | -0.03 | 0.00 |



## ALP Program - Participant Web Summary Report - Cycle 29

|                          | 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>Grand Median</b>      |                    | 0.13    |         |                    | 0.14    |         |                    | 0.10    |         |                    | 0.20    |         |                    | 0.12    |         |
| <b>Median Abs Dev</b>    |                    | 0.03    |         |                    | 0.02    |         |                    | 0.02    |         |                    | 0.02    |         |                    | 0.02    |         |
| <b>Avg Within Lab SD</b> |                    | 0.02    |         |                    | 0.02    |         |                    | 0.02    |         |                    | 0.01    |         |                    | 0.02    |         |
| <b>Labs Included</b>     |                    | 13      |         |                    | 17      |         |                    | 15      |         |                    | 19      |         |                    | 16      |         |
| <b>Labs Reporting</b>    |                    | 13      |         |                    | 17      |         |                    | 15      |         |                    | 19      |         |                    | 16      |         |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 110) | in the Salinity Property Groups |       |      |             |       |      |             |       |      |             |       |      |             |       |      | Data units: mmol/L |
|---------------------------|---------------------------------|-------|------|-------------|-------|------|-------------|-------|------|-------------|-------|------|-------------|-------|------|--------------------|
|                           | SRSSRS1601                      |       |      | SRSSRS1602  |       |      | SRSSRS1603  |       |      | SRSSRS1604  |       |      | SRSSRS1605  |       |      |                    |
| YAA32W                    | <b>0.40</b>                     | 0.09  | 0.53 | <b>0.76</b> | 0.25  | 0.25 | <b>0.40</b> | 0.53  | 0.36 | <b>1.00</b> | 1.71  | 0.22 | <b>0.53</b> | 1.27  | 0.22 |                    |
|                           |                                 | 0.03  | 0.02 |             | 0.16  | 0.02 |             | 0.13  | 0.01 |             | 0.32  | 0.01 |             | 0.29  | 0.02 |                    |
| GZ63WD                    | <b>0.45</b>                     | 0.23  | 0.33 | <b>0.58</b> | -0.05 | 0.25 | <b>0.30</b> | 0.13  | 1.11 | <b>0.67</b> | -0.06 | 1.17 | <b>0.30</b> | 0.24  | 0.34 |                    |
|                           |                                 | 0.08  | 0.01 |             | -0.03 | 0.02 |             | 0.03  | 0.03 |             | -0.01 | 0.05 |             | 0.06  | 0.03 |                    |
| 83L8FJ                    | <b>0.29</b>                     | -0.20 | 1.63 | <b>0.40</b> | -0.33 | 0.26 | <b>0.17</b> | -0.40 | 1.29 | <b>0.53</b> | -0.82 | 0.86 | <b>0.13</b> | -0.50 | 0.22 |                    |
|                           |                                 | -0.07 | 0.06 |             | -0.21 | 0.02 |             | -0.10 | 0.04 |             | -0.15 | 0.03 |             | -0.11 | 0.02 |                    |
| 644GFL                    | <b>0.32</b>                     | -0.12 | 0.39 | <b>0.56</b> | -0.08 | 0.26 | <b>0.23</b> | -0.15 | 0.29 | <b>0.69</b> | 0.05  | 0.58 | <b>0.19</b> | -0.23 | 0.08 |                    |
|                           |                                 | -0.05 | 0.01 |             | -0.05 | 0.02 |             | -0.04 | 0.01 |             | 0.01  | 0.02 |             | -0.05 | 0.01 |                    |
| PMCBR2                    | <b>0.36</b>                     | 0.00  | 1.25 | <b>0.58</b> | -0.05 | 0.41 | <b>0.19</b> | -0.30 | 1.16 | <b>0.62</b> | -0.34 | 0.75 | <b>0.19</b> | -0.24 | 0.10 |                    |
|                           |                                 | 0.00  | 0.04 |             | -0.03 | 0.03 |             | -0.08 | 0.04 |             | -0.06 | 0.03 |             | -0.05 | 0.01 |                    |
| 2GK3BP                    | <b>0.51</b>                     | 0.41  | 2.60 | <b>0.90</b> | 0.47  | 4.44 | <b>0.29</b> | 0.09  | 1.37 | <b>0.73</b> | 0.23  | 2.05 | <b>0.27</b> | 0.13  | 0.47 |                    |
|                           |                                 | 0.15  | 0.09 |             | 0.29  | 0.30 |             | 0.02  | 0.04 |             | 0.04  | 0.08 |             | 0.03  | 0.05 |                    |
| 33JQFQ                    | <b>0.25</b>                     | -0.31 |      | <b>0.45</b> | -0.26 | 0.00 | <b>0.14</b> | -0.51 | 0.00 | <b>0.51</b> | -0.92 | 0.00 | <b>0.20</b> | -0.20 | 0.00 |                    |
|                           |                                 | -0.11 | 0.00 |             | -0.16 | 0.00 |             | -0.13 | 0.00 |             | -0.17 | 0.00 |             | -0.05 | 0.00 |                    |
| XNBEWV                    | <b>0.34</b>                     | -0.07 | 0.57 | <b>0.60</b> | -0.01 | 0.30 | <b>0.13</b> | -0.53 | 0.18 | <b>0.74</b> | 0.29  | 0.15 | <b>0.16</b> | -0.36 | 0.11 |                    |
|                           |                                 | -0.02 | 0.02 |             | -0.01 | 0.02 |             | -0.13 | 0.01 |             | 0.05  | 0.01 |             | -0.08 | 0.01 |                    |
| FPNYC9                    | <b>0.30</b>                     | -0.18 | 0.49 | <b>0.48</b> | -0.20 | 0.55 | <b>0.14</b> | -0.52 | 0.18 | <b>0.55</b> | -0.72 | 0.53 | <b>0.21</b> | -0.16 | 0.54 |                    |
|                           |                                 | -0.06 | 0.02 |             | -0.13 | 0.04 |             | -0.13 | 0.01 |             | -0.14 | 0.02 |             | -0.04 | 0.06 |                    |
| FKH3T9                    | <b>0.30</b>                     | -0.17 | 0.72 | <b>0.51</b> | -0.16 | 0.08 | <b>0.29</b> | 0.10  | 0.80 | <b>0.71</b> | 0.15  | 0.26 | <b>0.25</b> | 0.02  | 0.10 |                    |
|                           |                                 | -0.06 | 0.03 |             | -0.10 | 0.01 |             | 0.03  | 0.03 |             | 0.03  | 0.01 |             | 0.01  | 0.01 |                    |
| QECBRZ                    | <b>0.45</b>                     | 0.24  | 0.29 | <b>0.69</b> | 0.13  | 0.59 | <b>0.27</b> | 0.02  | 1.58 | <b>0.84</b> | 0.86  | 1.26 | <b>0.28</b> | 0.16  | 0.39 |                    |
|                           |                                 | 0.09  | 0.01 |             | 0.08  | 0.04 |             | 0.01  | 0.05 |             | 0.16  | 0.05 |             | 0.04  | 0.04 |                    |
| UNPG82                    | <b>0.33</b>                     | -0.10 | 0.87 | <b>0.56</b> | -0.08 | 0.73 | <b>0.06</b> | -0.84 | 0.37 | <b>0.62</b> | -0.33 | 1.35 | <b>0.02</b> | -0.99 | 0.06 |                    |
|                           |                                 | -0.04 | 0.03 |             | -0.05 | 0.05 |             | -0.21 | 0.01 |             | -0.06 | 0.05 |             | -0.22 | 0.01 |                    |
| JBF2VE                    | <b>0.34</b>                     | -0.07 | 0.08 | <b>0.49</b> | -0.19 | 0.91 | <b>0.16</b> | -0.41 | 0.03 | <b>0.56</b> | -0.67 | 0.41 | <b>0.20</b> | -0.18 | 0.11 |                    |
|                           |                                 | -0.02 | 0.00 |             | -0.12 | 0.06 |             | -0.10 | 0.00 |             | -0.12 | 0.02 |             | -0.04 | 0.01 |                    |
| 98UYZG                    | <b>0.32</b>                     | -0.12 | 0.21 | <b>0.61</b> | 0.01  |      | <b>0.16</b> | -0.43 | 0.43 | <b>0.67</b> | -0.05 | 1.16 | <b>0.34</b> | 0.42  |      |                    |
|                           |                                 | -0.04 | 0.01 |             | 0.01  | 0.00 |             | -0.11 | 0.01 |             | -0.01 | 0.05 |             | 0.09  | 0.00 |                    |
| RCXBZX                    | <b>0.38</b>                     | 0.04  | 0.73 | <b>0.66</b> | 0.09  | 0.15 | <b>0.27</b> | -0.01 | 1.05 | <b>0.80</b> | 0.61  | 0.13 | <b>0.25</b> | 0.04  | 0.11 |                    |
|                           |                                 | 0.01  | 0.03 |             | 0.05  | 0.01 |             | 0.00  | 0.03 |             | 0.11  | 0.00 |             | 0.01  | 0.01 |                    |
| HUC6ZA                    | <b>0.64</b>                     | 0.75  | 1.82 | <b>0.69</b> | 0.13  | 0.51 |             |       |      | <b>0.76</b> | 0.42  | 0.00 |             |       |      |                    |
|                           |                                 | 0.27  | 0.06 |             | 0.08  | 0.03 |             |       |      |             | 0.08  | 0.00 |             |       |      |                    |
| YTJ7GT                    | <b>0.44</b>                     | 0.21  |      | <b>0.67</b> | 0.10  |      | <b>0.27</b> | 0.01  |      | <b>0.90</b> | 1.16  |      | <b>0.24</b> | -0.02 |      |                    |
|                           |                                 | 0.08  | 0.00 |             | 0.06  | 0.00 |             | 0.00  | 0.00 |             | 0.22  | 0.00 |             | -0.01 | 0.00 |                    |
| YPJVKT                    | <b>0.32</b>                     | -0.11 | 0.16 | <b>0.49</b> | -0.19 | 0.00 | <b>0.44</b> | 0.68  | 0.00 | <b>0.57</b> | -0.60 | 0.00 | <b>0.18</b> | -0.27 | 0.06 |                    |
|                           |                                 | -0.04 | 0.01 |             | -0.12 | 0.00 |             | 0.17  | 0.00 |             | -0.11 | 0.00 |             | -0.06 | 0.01 |                    |
| WYZRCU                    | <b>0.59</b>                     | 0.62  | 1.43 | <b>0.80</b> | 0.30  | 0.26 | <b>0.33</b> | 0.24  | 0.79 | <b>0.91</b> | 1.23  | 2.35 | <b>0.29</b> | 0.21  | 0.12 |                    |
|                           |                                 | 0.22  | 0.05 |             | 0.19  | 0.02 |             | 0.06  | 0.02 |             | 0.23  | 0.09 |             | 0.05  | 0.01 |                    |
|                           | <b>0.66</b>                     | 0.83  | 1.53 | <b>0.90</b> | 0.47  | 0.31 | <b>0.35</b> | 0.31  | 1.09 | <b>0.95</b> | 1.46  | 1.77 | <b>0.30</b> | 0.23  | 0.09 |                    |
|                           |                                 | 0.30  | 0.05 |             | 0.29  | 0.02 |             | 0.08  | 0.03 |             | 0.27  | 0.07 |             | 0.05  | 0.01 |                    |



## ALP Program - Participant Web Summary Report - Cycle 29

|                          | 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>BHL3GF</b>            |                    |         |         | <b>0.64</b>        | 0.06    | 1.13    |                    |         |         | <b>0.80</b>        | 0.63    | 0.44    |                    |         |         |
| <b>MZGWVZ</b>            | <b>0.44</b>        | 0.21    | 0.29    | <b>0.65</b>        | 0.03    | 0.08    | <b>0.54</b>        | 1.08    | 2.73    | <b>0.52</b>        | -0.88   | 1.47    | <b>0.38</b>        | 0.60    | 4.56    |
| <b>K6MG64</b>            | <b>0.36</b>        | -0.01   | 1.05    | <b>0.52</b>        | 0.07    | 0.15    | <b>0.16</b>        | 0.27    | 0.09    | <b>0.61</b>        | -0.17   | 0.06    | <b>0.18</b>        | 0.14    | 0.47    |
| <b>PHEWWY</b>            | <b>4.13</b>        | -0.01   | 0.04    | <b>8.29</b>        | -0.14   | 0.09    | <b>2.06</b>        | -0.44   | 0.81    | <b>0.38</b>        | -0.39   | 0.65    | <b>2.06</b>        | -0.30   | 0.40    |
| <b>J6NUD7</b>            | <b>21.17</b>       | -0.01   | 0.01    | <b>23.60</b>       | -0.08   | 0.01    | <b>18.23</b>       | -0.11   | 0.03    | <b>29.86</b>       | -0.07   | 0.03    | <b>16.73</b>       | -0.07   | 0.04    |
|                          |                    | 10.42   | 0.17    |                    | 12.38   | 0.14    |                    | 7.12    | 1.05    |                    | -1.59   | 0.05    |                    | 8.06    | 0.26    |
|                          |                    | 3.77    | 0.01    |                    | 7.69    | 0.01    |                    | 1.80    | 0.03    |                    | -0.30   | 0.00    |                    | 1.81    | 0.03    |
|                          |                    | 57.51   | 123.05  |                    | 37.05   | 13.82   |                    | 71.18   | 14.25   |                    | 155.79  | 29.04   |                    | 73.31   | 2.69    |
|                          |                    | 20.80   | 4.31    |                    | 22.99   | 0.95    |                    | 17.96   | 0.45    |                    | 29.17   | 1.14    |                    | 16.48   | 0.28    |
| <b>Grand Median</b>      |                    | 0.36    |         |                    | 0.61    |         |                    | 0.27    |         |                    | 0.68    |         |                    | 0.25    |         |
| <b>Median Abs Dev</b>    |                    | 0.06    |         |                    | 0.08    |         |                    | 0.10    |         |                    | 0.12    |         |                    | 0.05    |         |
| <b>Avg Within Lab SD</b> |                    | 0.03    |         |                    | 0.07    |         |                    | 0.03    |         |                    | 0.04    |         |                    | 0.10    |         |
| <b>Labs Included</b>     |                    | 23      |         |                    | 24      |         |                    | 22      |         |                    | 24      |         |                    | 22      |         |
| <b>Labs Reporting</b>    |                    | 23      |         |                    | 24      |         |                    | 22      |         |                    | 24      |         |                    | 22      |         |





## ALP Program - Participant Web Summary Report - Cycle 29

| 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 111) | in the Salinity Property Groups |       |      |             |       |      |             |       |      |             |       |      |             |       |      | Data units: mmolc/L |
|----------------------------|---------------------------------|-------|------|-------------|-------|------|-------------|-------|------|-------------|-------|------|-------------|-------|------|---------------------|
|                            | SRSSRS1601                      |       |      | SRSSRS1602  |       |      | SRSSRS1603  |       |      | SRSSRS1604  |       |      | SRSSRS1605  |       |      |                     |
| YAA32W                     | <b>0.45</b>                     | 1.05  | 0.29 | <b>1.10</b> | 1.28  | 0.97 | <b>0.23</b> | 0.00  | 0.48 | <b>2.48</b> | 0.80  | 0.01 | <b>0.29</b> | 0.00  | 1.67 |                     |
|                            |                                 | 0.12  | 0.01 |             | 0.25  | 0.03 |             | 0.00  | 0.01 |             | 0.41  | 0.00 |             | 0.00  | 0.06 |                     |
| GZ63WD                     | <b>0.32</b>                     | -0.09 | 1.40 | <b>0.72</b> | -0.61 | 1.13 | <b>0.26</b> | 0.31  | 1.29 | <b>1.76</b> | -0.61 | 1.27 | <b>0.27</b> | -0.18 | 0.46 |                     |
|                            |                                 | -0.01 | 0.04 |             | -0.12 | 0.04 |             | 0.03  | 0.03 |             | -0.31 | 0.10 |             | -0.02 | 0.02 |                     |
| 83L8FJ                     | <b>0.38</b>                     | 0.41  | 1.77 | <b>0.81</b> | -0.17 | 0.47 | <b>0.27</b> | 0.45  | 0.40 | <b>2.15</b> | 0.16  | 2.10 | <b>0.30</b> | 0.09  | 0.11 |                     |
|                            |                                 | 0.05  | 0.06 |             | -0.03 | 0.02 |             | 0.04  | 0.01 |             | 0.08  | 0.16 |             | 0.01  | 0.00 |                     |
| 644GFL                     | <b>0.23</b>                     | -0.84 | 0.41 | <b>0.75</b> | -0.49 | 0.77 | <b>0.33</b> | 1.09  | 0.71 | <b>2.12</b> | 0.09  | 1.34 | <b>0.43</b> | 1.52  | 0.45 |                     |
|                            |                                 | -0.10 | 0.01 |             | -0.10 | 0.03 |             | 0.10  | 0.02 |             | 0.05  | 0.10 |             | 0.14  | 0.02 |                     |
| PMCBR2                     | <b>0.35</b>                     | 0.15  | 1.36 | <b>0.86</b> | 0.07  | 1.49 | <b>0.36</b> | 1.45  | 1.48 | <b>2.03</b> | -0.08 | 0.89 | <b>0.44</b> | 1.63  | 0.65 |                     |
|                            |                                 | 0.02  | 0.04 |             | 0.01  | 0.05 |             | 0.13  | 0.04 |             | -0.04 | 0.07 |             | 0.15  | 0.02 |                     |
| 2GK3BP                     | <b>0.56</b>                     | 2.01  | 1.51 | <b>1.09</b> | 1.22  | 2.11 | <b>0.41</b> | 2.03  | 1.71 | <b>2.21</b> | 0.27  | 2.32 | <b>0.47</b> | 1.98  | 1.25 |                     |
|                            |                                 | 0.23  | 0.05 |             | 0.24  | 0.08 |             | 0.18  | 0.04 |             | 0.14  | 0.18 |             | 0.19  | 0.05 |                     |
| 33JQFQ                     | <b>0.65</b>                     | 2.75  | 0.00 | <b>0.44</b> | -2.04 | 0.00 | <b>0.94</b> | 8.16  | 0.00 | <b>0.25</b> | -3.57 |      | <b>2.19</b> | 20.21 | 0.00 |                     |
|                            |                                 | 0.32  | 0.00 |             | -0.41 | 0.00 |             | 0.71  | 0.00 |             | -1.82 | 0.00 |             | 1.90  | 0.00 |                     |
| XNBEWV                     | <b>0.34</b>                     | 0.06  | 0.49 | <b>0.85</b> | 0.04  | 0.64 | <b>0.26</b> | 0.31  | 0.24 | <b>1.67</b> | -0.78 | 0.35 | <b>0.31</b> | 0.21  | 0.55 |                     |
|                            |                                 | 0.01  | 0.02 |             | 0.01  | 0.02 |             | 0.03  | 0.01 |             | -0.40 | 0.03 |             | 0.02  | 0.02 |                     |
| FPNYC9                     | <b>0.22</b>                     | -0.95 | 2.24 | <b>0.57</b> | -1.39 | 0.84 | <b>0.18</b> | -0.54 | 1.36 | <b>1.78</b> | -0.56 | 0.66 | <b>0.20</b> | -0.89 | 0.40 |                     |
|                            |                                 | -0.11 | 0.07 |             | -0.28 | 0.03 |             | -0.05 | 0.03 |             | -0.29 | 0.05 |             | -0.08 | 0.02 |                     |
| FKH3T9                     | <b>0.43</b>                     | 0.86  | 1.92 | <b>0.92</b> | 0.36  | 0.32 | <b>0.30</b> | 0.77  | 3.05 | <b>2.10</b> | 0.07  | 0.28 | <b>0.31</b> | 0.21  | 0.40 |                     |
|                            |                                 | 0.10  | 0.06 |             | 0.07  | 0.01 |             | 0.07  | 0.07 |             | 0.03  | 0.02 |             | 0.02  | 0.02 |                     |
| WGX7VT                     | <b>0.38</b>                     | 0.46  | 0.92 | <b>0.86</b> | 0.08  | 0.28 | <b>0.27</b> | 0.46  | 0.42 | <b>2.16</b> | 0.17  | 0.43 | <b>0.32</b> | 0.38  | 0.31 |                     |
|                            |                                 | 0.05  | 0.03 |             | 0.02  | 0.01 |             | 0.04  | 0.01 |             | 0.09  | 0.03 |             | 0.04  | 0.01 |                     |
| QECBRZ                     | <b>0.37</b>                     | 0.32  | 0.67 | <b>0.99</b> | 0.73  | 0.28 | <b>0.22</b> | -0.15 | 0.24 | <b>2.67</b> | 1.18  | 0.35 | <b>0.28</b> | -0.08 | 0.53 |                     |
|                            |                                 | 0.04  | 0.02 |             | 0.15  | 0.01 |             | -0.01 | 0.01 |             | 0.60  | 0.03 |             | -0.01 | 0.02 |                     |
| UNPG82                     | <b>0.31</b>                     | -0.17 | 0.64 | <b>0.84</b> | -0.03 | 0.74 | <b>0.16</b> | -0.80 | 0.42 | <b>1.97</b> | -0.20 | 0.48 | <b>0.22</b> | -0.75 | 0.40 |                     |
|                            |                                 | -0.02 | 0.02 |             | -0.01 | 0.03 |             | -0.07 | 0.01 |             | -0.10 | 0.04 |             | -0.07 | 0.02 |                     |
| JBF2VE                     | <b>0.29</b>                     | -0.37 | 0.19 | <b>0.65</b> | -0.97 | 2.89 | <b>0.16</b> | -0.80 | 0.28 | <b>1.72</b> | -0.68 | 0.39 | <b>0.30</b> | 0.10  | 0.45 |                     |
|                            |                                 | -0.04 | 0.01 |             | -0.19 | 0.10 |             | -0.07 | 0.01 |             | -0.35 | 0.03 |             | 0.01  | 0.02 |                     |
| 98UYZG                     | <b>0.09</b>                     | -2.07 | 0.24 | <b>0.34</b> | -2.54 | 0.25 | <b>0.09</b> | -1.58 | 0.14 | <b>0.91</b> | -2.28 | 0.71 | <b>0.10</b> | -1.99 | 0.32 |                     |
|                            |                                 | -0.24 | 0.01 |             | -0.50 | 0.01 |             | -0.14 | 0.00 |             | -1.16 | 0.05 |             | -0.19 | 0.01 |                     |
| RCXBZX                     | <b>0.29</b>                     | -0.33 | 0.17 | <b>0.86</b> | 0.06  | 0.41 | <b>0.22</b> | -0.12 | 0.91 | <b>2.10</b> | 0.05  | 0.48 | <b>0.26</b> | -0.27 | 0.36 |                     |
|                            |                                 | -0.04 | 0.01 |             | 0.01  | 0.01 |             | -0.01 | 0.02 |             | 0.03  | 0.04 |             | -0.03 | 0.01 |                     |
| HUC6ZA                     | <b>0.32</b>                     | -0.06 | 0.49 | <b>0.85</b> | 0.03  | 0.48 | <b>0.15</b> | -0.88 | 0.49 | <b>2.04</b> | -0.05 | 1.08 | <b>0.22</b> | -0.72 | 0.26 |                     |
|                            |                                 | -0.01 | 0.02 |             | 0.01  | 0.02 |             | -0.08 | 0.01 |             | -0.03 | 0.08 |             | -0.07 | 0.01 |                     |
| YTJ7GT                     | <b>0.38</b>                     | 0.43  |      | <b>0.88</b> | 0.18  |      | <b>0.24</b> | 0.12  |      | <b>2.46</b> | 0.76  |      | <b>0.29</b> | 0.03  |      |                     |
|                            |                                 | 0.05  | 0.00 |             | 0.04  | 0.00 |             | 0.01  | 0.00 |             | 0.39  | 0.00 |             | 0.00  | 0.00 |                     |
| YPJVKT                     | <b>0.23</b>                     | -0.86 | 0.00 | <b>0.68</b> | -0.85 | 0.16 | <b>0.24</b> | 0.15  | 0.24 | <b>2.00</b> | -0.14 |      | <b>0.22</b> | -0.72 | 0.00 |                     |
|                            |                                 | -0.10 | 0.00 |             | -0.17 | 0.01 |             | 0.01  | 0.01 |             | -0.07 | 0.00 |             | -0.07 | 0.00 |                     |
| WYZRCU                     | <b>0.25</b>                     | -0.66 | 0.19 | <b>0.84</b> | -0.03 | 0.33 | <b>0.17</b> | -0.68 | 0.19 | <b>2.65</b> | 1.14  | 1.18 | <b>0.22</b> | -0.77 | 0.17 |                     |
|                            |                                 | -0.08 | 0.01 |             | -0.01 | 0.01 |             | -0.06 | 0.00 |             | 0.58  | 0.09 |             | -0.07 | 0.01 |                     |



## ALP Program - Participant Web Summary Report - Cycle 29

|                          | 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>BHL3GF</b>            | <b>0.45</b>        | 1.03    | 1.16    | <b>0.90</b>        | 0.29    | 1.16    | <b>0.23</b>        | 0.00    | 1.12    | <b>2.46</b>        | 0.76    | 1.83    | <b>0.41</b>        | 1.27    | 3.76    |
|                          |                    | 0.12    | 0.04    |                    | 0.06    | 0.04    |                    | 0.00    | 0.03    |                    | 0.39    | 0.14    |                    | 0.12    | 0.14    |
| <b>MZGWVZ</b>            | <b>0.15</b>        | -1.55   | 0.32    | <b>0.23</b>        | -3.12   | 0.16    | <b>0.11</b>        | -1.38   | 0.42    | <b>0.22</b>        | -3.62   | 0.13    |                    |         |         |
|                          |                    | -0.18   | 0.01    |                    | -0.62   | 0.01    |                    | -0.12   | 0.01    |                    | -1.85   | 0.01    |                    |         |         |
| <b>PHEWWY</b>            | <b>0.35</b>        | 0.13    |         | <b>0.91</b>        | 0.30    |         | <b>0.16</b>        | -0.78   |         | <b>2.27</b>        | 0.38    |         | <b>0.25</b>        | -0.39   |         |
|                          |                    | 0.02    | 0.00    |                    | 0.06    | 0.00    |                    | -0.07   | 0.00    |                    | 0.20    | 0.00    |                    | -0.04   | 0.00    |
| <b>Grand Median</b>      |                    | 0.33    |         |                    | 0.85    |         |                    | 0.23    |         |                    | 2.07    |         |                    | 0.29    |         |
| <b>Median Abs Dev</b>    |                    | 0.05    |         |                    | 0.07    |         |                    | 0.05    |         |                    | 0.24    |         |                    | 0.04    |         |
| <b>Avg Within Lab SD</b> |                    | 0.03    |         |                    | 0.04    |         |                    | 0.02    |         |                    | 0.08    |         |                    | 0.04    |         |
| <b>Labs Included</b>     |                    | 22      |         |                    | 22      |         |                    | 22      |         |                    | 22      |         |                    | 21      |         |
| <b>Labs Reporting</b>    |                    | 22      |         |                    | 22      |         |                    | 22      |         |                    | 22      |         |                    | 21      |         |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 112)      |             |       |      |             |       |      |              |        |      |              |        |      |              |        |      |
|---------------------------------|-------------|-------|------|-------------|-------|------|--------------|--------|------|--------------|--------|------|--------------|--------|------|
| in the Salinity Property Groups |             |       |      |             |       |      |              |        |      |              |        |      |              |        |      |
| Data units: mmolc/L             |             |       |      |             |       |      |              |        |      |              |        |      |              |        |      |
|                                 | SRSSRS1601  |       |      | SRSSRS1602  |       |      | SRSSRS1603   |        |      | SRSSRS1604   |        |      | SRSSRS1605   |        |      |
| YAA32W                          | <b>0.01</b> | -0.79 | 0.05 | <b>0.03</b> | -1.11 | 0.01 | <b>17.67</b> | 0.64   | 0.79 | <b>17.53</b> | 0.31   | 1.54 | <b>13.60</b> | 0.12   | 0.17 |
|                                 |             | -0.36 | 0.00 |             | -2.72 | 0.00 |              | 1.53   | 0.72 |              | 1.16   | 0.74 |              | 0.40   | 0.08 |
| 644GFL                          | <b>0.37</b> | 0.00  | 0.16 | <b>3.12</b> | 0.15  | 0.49 | <b>17.23</b> | 0.46   | 0.60 | <b>16.08</b> | -0.08  | 0.96 | <b>13.50</b> | 0.09   | 0.72 |
|                                 |             | 0.00  | 0.01 |             | 0.37  | 0.08 |              | 1.10   | 0.55 |              | -0.29  | 0.46 |              | 0.30   | 0.34 |
| 2GK3BP                          | <b>1.40</b> | 2.32  | 2.43 | <b>4.37</b> | 0.66  | 1.10 | <b>15.57</b> | -0.24  | 0.71 | <b>17.37</b> | 0.26   | 1.74 | <b>12.90</b> | -0.09  | 0.76 |
|                                 |             | 1.04  | 0.14 |             | 1.62  | 0.18 |              | -0.57  | 0.65 |              | 1.00   | 0.83 |              | -0.30  | 0.36 |
| 33JQFQ                          | <b>0.19</b> | -0.39 | 0.00 | <b>0.50</b> | -0.92 |      | <b>15.15</b> | -0.41  | 0.00 | <b>16.65</b> | 0.08   | 0.00 | <b>12.29</b> | -0.26  | 0.00 |
|                                 |             | -0.17 | 0.00 |             | -2.25 | 0.00 |              | -0.99  | 0.00 |              | 0.29   | 0.00 |              | -0.91  | 0.00 |
| FPNYC9                          |             |       |      | <b>0.10</b> | -1.09 | 0.15 | <b>5.57</b>  | -4.40  | 0.36 | <b>6.29</b>  | -2.66  | 0.63 | <b>5.16</b>  | -2.34  | 0.31 |
|                                 |             |       |      |             | -2.65 | 0.03 |              | -10.56 | 0.33 |              | -10.07 | 0.30 |              | -8.04  | 0.15 |
| FKH3T9                          | <b>0.49</b> | 0.27  | 1.34 | <b>3.34</b> | 0.24  | 0.20 | <b>16.91</b> | 0.32   | 0.16 | <b>15.37</b> | -0.26  | 0.40 | <b>12.29</b> | -0.26  | 2.55 |
|                                 |             | 0.12  | 0.08 |             | 0.59  | 0.03 |              | 0.77   | 0.15 |              | -0.99  | 0.19 |              | -0.91  | 1.21 |
| JBF2VE                          | <b>0.36</b> | 0.00  | 0.32 | <b>2.38</b> | -0.15 | 1.15 | <b>13.88</b> | -0.94  | 0.40 | <b>12.15</b> | -1.11  | 1.23 | <b>10.61</b> | -0.75  | 0.46 |
|                                 |             | 0.00  | 0.02 |             | -0.37 | 0.19 |              | -2.25  | 0.36 |              | -4.22  | 0.59 |              | -2.58  | 0.22 |
| 98UYZG                          | <b>0.52</b> | 0.34  | 0.61 | <b>3.19</b> | 0.18  | 0.14 | <b>15.76</b> | -0.16  | 0.30 | <b>15.30</b> | -0.28  | 1.18 | <b>11.93</b> | -0.37  | 0.50 |
|                                 |             | 0.15  | 0.03 |             | 0.44  | 0.02 |              | -0.38  | 0.28 |              | -1.07  | 0.56 |              | -1.27  | 0.24 |
| RCXBZX                          | <b>0.62</b> | 0.57  | 0.89 | <b>3.87</b> | 0.46  | 0.66 | <b>18.76</b> | 1.10   | 0.52 | <b>18.76</b> | 0.63   | 0.63 | <b>14.48</b> | 0.37   | 0.33 |
|                                 |             | 0.26  | 0.05 |             | 1.12  | 0.11 |              | 2.63   | 0.48 |              | 2.40   | 0.30 |              | 1.28   | 0.16 |
| HUC6ZA                          | <b>0.74</b> | 0.84  | 0.78 | <b>3.89</b> | 0.47  | 0.68 | <b>16.98</b> | 0.35   | 0.32 | <b>17.91</b> | 0.41   | 0.08 | <b>14.62</b> | 0.41   | 0.48 |
|                                 |             | 0.38  | 0.04 |             | 1.14  | 0.11 |              | 0.84   | 0.29 |              | 1.54   | 0.04 |              | 1.42   | 0.23 |
| YTJ7GT                          | <b>0.11</b> | -0.57 |      | <b>2.16</b> | -0.24 |      | <b>17.40</b> | 0.53   |      | <b>18.90</b> | 0.67   |      | <b>14.70</b> | 0.44   |      |
|                                 |             | -0.25 | 0.00 |             | -0.59 | 0.00 |              | 1.26   | 0.00 |              | 2.54   | 0.00 |              | 1.50   | 0.00 |
| YPJVKT                          |             |       |      | <b>1.31</b> | -0.59 | 0.00 | <b>14.74</b> | -0.58  | 0.36 | <b>13.38</b> | -0.79  | 0.69 | <b>11.86</b> | -0.39  | 0.52 |
|                                 |             |       |      |             | -1.44 | 0.00 |              | -1.40  | 0.33 |              | -2.98  | 0.33 |              | -1.34  | 0.25 |
| WYZRCU                          | <b>0.15</b> | -0.47 | 0.27 | <b>0.37</b> | -0.97 | 0.34 | <b>16.31</b> | 0.07   | 0.97 | <b>16.65</b> | 0.08   | 1.22 | <b>13.50</b> | 0.09   | 0.91 |
|                                 |             | -0.21 | 0.01 |             | -2.38 | 0.05 |              | 0.17   | 0.88 |              | 0.29   | 0.58 |              | 0.30   | 0.43 |
| BHL3GF                          | <b>0.05</b> | -0.70 | 0.18 | <b>1.17</b> | -0.65 | 2.87 | <b>17.07</b> | 0.39   | 0.77 | <b>17.90</b> | 0.41   | 1.82 | <b>15.43</b> | 0.65   | 1.00 |
|                                 |             | -0.32 | 0.01 |             | -1.58 | 0.47 |              | 0.93   | 0.70 |              | 1.54   | 0.87 |              | 2.23   | 0.47 |
| MZGWVZ                          | <b>0.34</b> | -0.06 | 0.18 | <b>8.50</b> | 2.36  | 0.06 | <b>15.80</b> | -0.14  | 0.79 | <b>6.63</b>  | -2.57  | 0.32 | <b>0.56</b>  | -3.67  | 0.13 |
|                                 |             | -0.02 | 0.01 |             | 5.75  | 0.01 |              | -0.34  | 0.72 |              | -9.73  | 0.15 |              | -12.64 | 0.06 |
| PHEWWY                          | <b>1.31</b> | 2.12  | 2.06 | <b>4.05</b> | 0.53  | 1.97 | <b>15.96</b> | -0.07  | 3.38 | <b>15.63</b> | -0.19  | 0.67 | <b>14.90</b> | 0.50   | 2.32 |
|                                 |             | 0.95  | 0.12 |             | 1.30  | 0.32 |              | -0.17  | 3.09 |              | -0.73  | 0.32 |              | 1.71   | 1.10 |
| <b>Grand Median</b>             |             | 0.36  |      |             | 2.75  |      |              | 16.1   |      |              | 16.4   |      |              | 13.2   |      |
| <b>Median Abs Dev</b>           |             | 0.23  |      |             | 1.37  |      |              | 1.0    |      |              | 1.4    |      |              | 1.3    |      |
| <b>Avg Within Lab SD</b>        |             | 0.06  |      |             | 0.16  |      |              | 0.9    |      |              | 0.5    |      |              | 0.5    |      |
| <b>Labs Included</b>            |             | 14    |      |             | 16    |      |              | 16     |      |              | 16     |      |              | 16     |      |
| <b>Labs Reporting</b>           |             | 14    |      |             | 16    |      |              | 16     |      |              | 16     |      |              | 16     |      |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 113) | in the Salinity Property Groups |        |       |              |        |       |              |        |       |              |        |        | Data units: mg/L |        |       |
|--------------------------|---------------------------------|--------|-------|--------------|--------|-------|--------------|--------|-------|--------------|--------|--------|------------------|--------|-------|
|                          | SRSSRS1601                      |        |       | SRSSRS1602   |        |       | SRSSRS1603   |        |       | SRSSRS1604   |        |        | SRSSRS1605       |        |       |
| <b>YAA32W</b>            | <b>0.072</b>                    | 0.774  | 1.237 | <b>0.086</b> | 0.313  | 0.711 | <b>0.108</b> | 0.283  | 0.423 | <b>0.104</b> | 0.580  | 0.639  | <b>0.032</b>     | 0.000  | 0.456 |
|                          |                                 | 0.015  | 0.008 |              | 0.008  | 0.005 |              | 0.008  | 0.003 |              | 0.015  | 0.004  |                  | 0.000  | 0.004 |
| <b>GZ63WD</b>            | <b>0.057</b>                    | 0.000  | 0.893 | <b>0.067</b> | -0.458 | 0.912 | <b>0.097</b> | -0.118 | 0.814 | <b>0.080</b> | -0.333 | 1.598  | <b>0.027</b>     | -0.290 | 0.752 |
|                          |                                 | 0.000  | 0.006 |              | -0.011 | 0.006 |              | -0.003 | 0.006 |              | -0.009 | 0.010  |                  | -0.005 | 0.006 |
| <b>644GFL</b>            | <b>0.067</b>                    | 0.525  | 0.794 | <b>0.111</b> | 1.358  | 1.115 | <b>0.141</b> | 1.454  | 1.201 | <b>0.117</b> | 1.085  | 0.792  | <b>0.040</b>     | 0.490  | 0.595 |
|                          |                                 | 0.010  | 0.005 |              | 0.033  | 0.007 |              | 0.041  | 0.009 |              | 0.029  | 0.005  |                  | 0.008  | 0.005 |
| <b>2GK3BP</b>            | <b>0.083</b>                    | 1.347  | 2.362 | <b>0.083</b> | 0.225  | 0.912 | <b>0.100</b> | 0.000  | 1.410 | <b>0.090</b> | 0.048  | 1.598  | <b>0.037</b>     | 0.310  | 0.752 |
|                          |                                 | 0.027  | 0.015 |              | 0.005  | 0.006 |              | 0.000  | 0.010 |              | 0.001  | 0.010  |                  | 0.005  | 0.006 |
| <b>33JQFQ</b>            | <b>0.057</b>                    | 0.000  | 0.893 | <b>0.070</b> | -0.322 | 0.000 | <b>0.100</b> | 0.000  | 0.000 | <b>0.080</b> | -0.333 | 0.000  | <b>0.020</b>     | -0.690 | 0.000 |
|                          |                                 | 0.000  | 0.006 |              | -0.008 | 0.000 |              | 0.000  | 0.000 |              | -0.009 | 0.000  |                  | -0.012 | 0.000 |
| <b>XNBEWV</b>            | <b>0.080</b>                    | 1.178  | 0.000 | <b>0.090</b> | 0.498  | 0.000 | <b>0.117</b> | 0.590  | 0.814 | <b>0.090</b> | 0.048  | 0.000  | <b>0.020</b>     | -0.690 | 0.000 |
|                          |                                 | 0.023  | 0.000 |              | 0.012  | 0.000 |              | 0.017  | 0.006 |              | 0.001  | 0.000  |                  | -0.012 | 0.000 |
| <b>FKH3T9</b>            | <b>0.053</b>                    | -0.182 | 0.337 | <b>0.082</b> | 0.171  | 1.094 | <b>0.118</b> | 0.635  | 1.645 | <b>0.090</b> | 0.029  | 0.181  | <b>0.032</b>     | 0.054  | 0.081 |
|                          |                                 | -0.004 | 0.002 |              | 0.004  | 0.007 |              | 0.018  | 0.012 |              | 0.001  | 0.001  |                  | 0.001  | 0.001 |
| <b>WGX7VT</b>            | <b>0.047</b>                    | -0.505 | 0.893 | <b>0.046</b> | -1.305 | 0.836 | <b>0.080</b> | -0.696 | 0.777 | <b>0.061</b> | -1.069 | 0.185  | <b>0.048</b>     | 1.009  | 0.376 |
|                          |                                 | -0.010 | 0.006 |              | -0.032 | 0.005 |              | -0.020 | 0.006 |              | -0.028 | 0.001  |                  | 0.017  | 0.003 |
| <b>QECBRZ</b>            | <b>0.113</b>                    | 2.862  | 0.893 | <b>0.113</b> | 1.454  | 2.412 | <b>0.150</b> | 1.770  | 1.410 | <b>0.127</b> | 1.443  | 1.845  | <b>0.053</b>     | 1.309  | 1.504 |
|                          |                                 | 0.057  | 0.006 |              | 0.035  | 0.015 |              | 0.050  | 0.010 |              | 0.038  | 0.012  |                  | 0.022  | 0.012 |
| <b>UNPG82</b>            | <b>0.055</b>                    | -0.067 | 0.778 | <b>0.083</b> | 0.225  | 0.912 | <b>0.117</b> | 0.590  | 0.814 | <b>0.092</b> | 0.111  | 0.461  | <b>0.017</b>     | -0.849 | 0.301 |
|                          |                                 | -0.001 | 0.005 |              | 0.005  | 0.006 |              | 0.017  | 0.006 |              | 0.003  | 0.003  |                  | -0.014 | 0.002 |
| <b>4JGF2L</b>            | <b>0.050</b>                    | -0.334 | 0.851 | <b>0.050</b> | -1.139 | 0.869 | <b>0.053</b> | -1.656 | 1.556 | <b>0.019</b> | -2.664 | 0.037  |                  |        |       |
|                          |                                 | -0.007 | 0.006 |              | -0.028 | 0.006 |              | -0.047 | 0.011 |              | -0.070 | 0.000  |                  |        |       |
| <b>RCXBZX</b>            | <b>0.044</b>                    | -0.657 | 0.794 | <b>0.074</b> | -0.171 | 0.795 | <b>0.094</b> | -0.201 | 0.651 | <b>0.088</b> | -0.029 | 1.964  | <b>0.003</b>     | -1.729 | 2.609 |
|                          |                                 | -0.013 | 0.005 |              | -0.004 | 0.005 |              | -0.006 | 0.005 |              | -0.001 | 0.012  |                  | -0.029 | 0.020 |
| <b>YPJVKT</b>            | <b>0.050</b>                    | -0.337 |       | <b>0.062</b> | -0.663 | 0.810 | <b>0.077</b> | -0.814 | 0.508 | <b>0.071</b> | -0.663 | 0.561  |                  |        |       |
|                          |                                 | -0.007 | 0.000 |              | -0.016 | 0.005 |              | -0.023 | 0.004 |              | -0.017 | 0.004  |                  |        |       |
| <b>MZGWVZ</b>            | <b>0.343</b>                    | 14.477 | 1.786 | <b>0.347</b> | 11.013 | 2.412 | <b>0.327</b> | 8.026  | 0.814 | <b>0.377</b> | 10.955 | 26.468 | <b>0.290</b>     | 15.500 | 6.892 |
|                          |                                 | 0.287  | 0.012 |              | 0.269  | 0.015 |              | 0.227  | 0.006 |              | 0.288  | 0.166  |                  | 0.259  | 0.053 |
| <b>PHEWWY</b>            |                                 |        |       | <b>0.050</b> | -1.141 |       | <b>0.082</b> | -0.635 |       | <b>0.062</b> | -1.010 |        |                  |        |       |
|                          |                                 |        |       |              | -0.028 | 0.000 |              | -0.018 | 0.000 |              | -0.027 | 0.000  |                  |        |       |
| <b>Grand Median</b>      |                                 | 0.057  |       |              | 0.078  |       |              | 0.10   |       |              | 0.089  |        |                  | 0.032  |       |
| <b>Median Abs Dev</b>    |                                 | 0.010  |       |              | 0.012  |       |              | 0.02   |       |              | 0.012  |        |                  | 0.012  |       |
| <b>Avg Within Lab SD</b> |                                 | 0.006  |       |              | 0.006  |       |              | 0.01   |       |              | 0.006  |        |                  | 0.008  |       |
| <b>Labs Included</b>     |                                 | 13     |       |              | 14     |       |              | 14     |       |              | 14     |        |                  | 11     |       |
| <b>Labs Reporting</b>    |                                 | 13     |       |              | 14     |       |              | 14     |       |              | 14     |        |                  | 11     |       |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 114) |             |                         | in the Soil pH & EC Property Groups |             |                       |                      |             |                       |                      |             |                      |                      | Data units: dS/m |                       |                      |
|---------------------------------|-------------|-------------------------|-------------------------------------|-------------|-----------------------|----------------------|-------------|-----------------------|----------------------|-------------|----------------------|----------------------|------------------|-----------------------|----------------------|
| SRSSRS1601                      |             |                         | SRSSRS1602                          |             |                       | SRSSRS1603           |             |                       | SRSSRS1604           |             |                      | SRSSRS1605           |                  |                       |                      |
| AAUKBK                          | <b>0.21</b> | -0.47<br>-0.09<br>-0.08 | 0.50<br>0.01<br>0.77                | <b>0.32</b> | 0.07<br>0.01<br>-0.07 | 0.85<br>0.02<br>0.85 | <b>0.75</b> | 1.43<br>0.27<br>-0.32 | 0.51<br>0.01<br>1.35 | <b>0.90</b> | 1.11<br>0.19<br>0.00 | 0.34<br>0.01<br>0.34 | <b>0.39</b>      | 0.74<br>0.08<br>-0.95 | 0.43<br>0.01<br>0.86 |
| GZ63WD                          | <b>0.28</b> | -0.02<br>0.22           | 0.02<br>0.50                        | <b>0.31</b> | -0.01<br>0.07         | 0.02<br>0.64         | <b>0.42</b> | -0.06<br>0.39         | 0.03<br>0.78         | <b>0.70</b> | 0.00<br>-0.02        | 0.01<br>0.78         | <b>0.20</b>      | -0.11<br>-0.36        | 0.02<br>0.49         |
| 83L8FJ                          | <b>0.34</b> | 0.04<br>0.00            | 0.01<br>0.38                        | <b>0.32</b> | 0.01<br>0.00          | 0.01<br>0.42         | <b>0.55</b> | 0.07<br>0.26          | 0.02<br>1.39         | <b>0.70</b> | 0.00<br>-0.06        | 0.03<br>0.00         | <b>0.27</b>      | -0.04<br>0.01         | 0.01<br>0.32         |
| BFZE6F                          | <b>0.30</b> | 0.00<br>0.15            | 0.01<br>2.53                        | <b>0.31</b> | 0.00<br>1.76          | 0.01<br>0.85         | <b>0.53</b> | 0.05<br>1.50          | 0.03<br>0.30         | <b>0.69</b> | -0.01<br>1.68        | 0.00<br>0.62         | <b>0.31</b>      | 0.00<br>0.50          | 0.01<br>0.25         |
| 644GFL                          | <b>0.33</b> | 0.03<br>0.13            | 0.05<br>0.29                        | <b>0.43</b> | 0.12<br>0.46          | 0.02<br>0.32         | <b>0.76</b> | 0.28<br>-0.56         | 0.01<br>0.78         | <b>1.00</b> | 0.29<br>0.13         | 0.02<br>0.17         | <b>0.36</b>      | 0.06<br>0.92          | 0.01<br>0.43         |
| 2GK3BP                          | <b>0.32</b> | 0.02<br>-0.34           | 0.01<br>0.29                        | <b>0.34</b> | 0.03<br>-0.75         | 0.01<br>0.56         | <b>0.37</b> | -0.11<br>-0.19        | 0.02<br>0.78         | <b>0.73</b> | 0.02<br>-0.40        | 0.01<br>0.17         | <b>0.41</b>      | 0.10<br>-0.33         | 0.01<br>0.00         |
| 33JQFQ                          | <b>0.23</b> | -0.07<br>0.85           | 0.01<br>1.03                        | <b>0.26</b> | -0.05<br>0.95         | 0.01<br>0.90         | <b>0.44</b> | -0.04<br>-0.14        | 0.02<br>1.36         | <b>0.63</b> | -0.07<br>0.74        | 0.01<br>1.87         | <b>0.27</b>      | -0.04<br>0.48         | 0.00<br>0.11         |
| 6BMKMN                          | <b>0.46</b> | 0.16<br>0.06            | 0.02<br>0.50                        | <b>0.38</b> | 0.07<br>-0.55         | 0.02<br>0.32         | <b>0.45</b> | -0.03<br>-0.23        | 0.03<br>0.30         | <b>0.83</b> | 0.13<br>-0.40        | 0.06<br>0.17         | <b>0.36</b>      | 0.05<br>-1.13         | 0.00<br>0.43         |
| F92H9C                          | <b>0.31</b> | 0.01<br>-0.29           | 0.01<br>1.31                        | <b>0.27</b> | -0.04<br>-1.60        | 0.01<br>2.83         | <b>0.44</b> | -0.04<br>-1.05        | 0.01<br>0.89         | <b>0.63</b> | -0.07<br>-1.46       | 0.01<br>2.39         | <b>0.18</b>      | -0.13<br>-1.41        | 0.01<br>1.08         |
| PFR9KY                          | <b>0.24</b> | -0.06<br>-0.05          | 0.03<br>0.00                        | <b>0.20</b> | -0.11<br>0.41         | 0.05<br>0.96         | <b>0.28</b> | -0.20<br>-0.18        | 0.02<br>0.78         | <b>0.45</b> | -0.25<br>-0.17       | 0.08<br>0.85         | <b>0.15</b>      | -0.16<br>-0.95        | 0.03<br>0.00         |
| K8VMR6                          | <b>0.29</b> | -0.01<br>-0.75          | 0.00<br>0.08                        | <b>0.34</b> | 0.03<br>-0.92         | 0.02<br>0.18         | <b>0.45</b> | -0.03<br>0.19         | 0.02<br>0.63         | <b>0.67</b> | -0.03<br>-0.47       | 0.03<br>0.02         | <b>0.20</b>      | -0.11<br>-0.40        | 0.00<br>0.03         |
| FKH3T9                          | <b>0.16</b> | -0.14<br>0.15           | 0.00<br>0.58                        | <b>0.25</b> | -0.06<br>-0.02        | 0.00<br>0.96         | <b>0.52</b> | 0.04<br>0.30          | 0.01<br>0.78         | <b>0.62</b> | -0.08<br>0.32        | 0.00<br>0.78         | <b>0.26</b>      | -0.04<br>-1.04        | 0.00<br>1.54         |
| 6VACMK                          | <b>0.33</b> | 0.03<br>0.20            | 0.01<br>1.05                        | <b>0.31</b> | 0.00<br>0.84          | 0.02<br>0.96         | <b>0.54</b> | 0.06<br>1.52          | 0.02<br>1.18         | <b>0.76</b> | 0.06<br>0.29         | 0.03<br>1.04         | <b>0.19</b>      | -0.12<br>0.95         | 0.04<br>0.65         |
| BMDAYP                          | <b>0.34</b> | 0.04<br>-0.34           | 0.02<br>0.54                        | <b>0.37</b> | 0.06<br>-0.39         | 0.02<br>1.23         | <b>0.77</b> | 0.29<br>0.46          | 0.02<br>0.36         | <b>0.75</b> | 0.05<br>1.00         | 0.04<br>0.72         | <b>0.41</b>      | 0.11<br>1.40          | 0.02<br>0.23         |
| T84DB7                          | <b>0.23</b> | -0.06<br>0.06           | 0.01<br>0.50                        | <b>0.28</b> | -0.03<br>-0.41        | 0.02<br>0.32         | <b>0.57</b> | 0.09<br>-0.14         | 0.01<br>0.30         | <b>0.88</b> | 0.18<br>-0.13        | 0.02<br>0.00         | <b>0.46</b>      | 0.16<br>-0.36         | 0.01<br>0.25         |
| CJDKVM                          | <b>0.31</b> | 0.01<br>-0.48           | 0.01<br>0.29                        | <b>0.28</b> | -0.03<br>0.41         | 0.01<br>0.56         | <b>0.45</b> | -0.03<br>1.53         | 0.01<br>0.00         | <b>0.68</b> | -0.02<br>1.56        | 0.00<br>0.68         | <b>0.27</b>      | -0.04<br>0.77         | 0.01<br>0.25         |
| JBF2VE                          | <b>0.21</b> | -0.09<br>0.02           | 0.01<br>0.29                        | <b>0.34</b> | 0.03<br>0.26          | 0.01<br>0.00         | <b>0.77</b> | 0.29<br>0.88          | 0.00<br>0.78         | <b>0.98</b> | 0.27<br>0.34         | 0.02<br>0.74         | <b>0.39</b>      | 0.09<br>0.36          | 0.01<br>0.99         |
| PWR8L8                          | <b>0.30</b> | 0.00<br>-0.02           | 0.01<br>0.58                        | <b>0.33</b> | 0.02<br>0.19          | 0.00<br>0.53         | <b>0.65</b> | 0.17<br>-0.90         | 0.02<br>0.61         | <b>0.76</b> | 0.06<br>0.09         | 0.03<br>0.50         | <b>0.35</b>      | 0.04<br>-0.96         | 0.02<br>0.35         |
| VBVLAX                          | <b>0.30</b> | 0.00<br>-1.05           | 0.01<br>0.00                        | <b>0.33</b> | 0.01<br>-1.61         | 0.01<br>0.00         | <b>0.31</b> | -0.17<br>-0.95        | 0.01<br>0.00         | <b>0.72</b> | 0.02<br>-1.74        | 0.02<br>0.00         | <b>0.20</b>      | -0.11<br>-0.95        | 0.01<br>0.00         |
| TBLXV2                          | <b>0.10</b> | -0.20<br>0.00           | 0.00<br>0.00                        | <b>0.20</b> | -0.11<br>0.00         | 0.00<br>0.00         | <b>0.30</b> | -0.18<br>0.00         | 0.00<br>0.00         | <b>0.40</b> | -0.30<br>0.00        | 0.00<br>0.00         | <b>0.20</b>      | -0.11<br>0.00         | 0.00<br>0.00         |



## ALP Program - Participant Web Summary Report - Cycle 29

|                          | 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>3BBBBQ</b>            | <b>0.30</b>        | 0.01    | 0.00    | <b>0.30</b>        | -0.17   | 0.00    | <b>0.40</b>        | -0.42   | 0.00    | <b>0.60</b>        | -0.59   | 0.00    | <b>0.27</b>        | -0.36   | 2.47    |
|                          |                    | 0.00    | 0.00    |                    | -0.01   | 0.00    |                    | -0.08   | 0.00    |                    | -0.10   | 0.00    |                    | -0.04   | 0.06    |
| <b>LVRZT6</b>            | <b>0.10</b>        | -1.05   | 0.00    | <b>0.10</b>        | -3.06   | 0.00    | <b>0.50</b>        | 0.11    |         | <b>0.57</b>        | -0.78   | 1.71    | <b>0.27</b>        | -0.36   | 2.47    |
|                          |                    | -0.20   | 0.00    |                    | -0.21   | 0.00    |                    | 0.02    | 0.00    |                    | -0.14   | 0.06    |                    | -0.04   | 0.06    |
| <b>RCXBZX</b>            | <b>0.14</b>        | -0.82   | 0.21    | <b>0.25</b>        | -0.94   | 3.12    | <b>0.25</b>        | -1.21   | 1.17    | <b>0.13</b>        | -3.25   | 0.67    | <b>0.17</b>        | -1.25   | 0.67    |
|                          |                    | -0.16   | 0.00    |                    | -0.07   | 0.06    |                    | -0.23   | 0.02    |                    | -0.57   | 0.02    |                    | -0.14   | 0.02    |
| <b>MZGWVZ</b>            | <b>0.32</b>        | 0.09    | 1.16    | <b>0.31</b>        | -0.07   | 0.64    | <b>0.48</b>        | 0.00    | 3.58    | <b>0.63</b>        | -0.42   | 1.29    | <b>0.31</b>        | 0.00    | 0.25    |
|                          |                    | 0.02    | 0.02    |                    | -0.01   | 0.01    |                    | 0.00    | 0.07    |                    | -0.07   | 0.04    |                    | 0.00    | 0.01    |
| <b>K6MG64</b>            | <b>0.20</b>        | -0.52   | 0.00    | <b>0.35</b>        | 0.51    | 0.32    | <b>0.78</b>        | 1.59    | 0.00    | <b>1.00</b>        | 1.70    | 0.30    | <b>0.39</b>        | 0.71    | 0.65    |
|                          |                    | -0.10   | 0.00    |                    | 0.04    | 0.01    |                    | 0.30    | 0.00    |                    | 0.30    | 0.01    |                    | 0.08    | 0.02    |
| <b>C8H8XB</b>            | <b>0.29</b>        | -0.06   | 2.03    | <b>0.35</b>        | 0.55    | 0.56    | <b>0.69</b>        | 1.09    | 0.78    | <b>0.64</b>        | -0.36   | 1.56    | <b>0.35</b>        | 0.36    | 1.31    |
|                          |                    | -0.01   | 0.04    |                    | 0.04    | 0.01    |                    | 0.21    | 0.02    |                    | -0.06   | 0.05    |                    | 0.04    | 0.03    |
| <b>XYFCWR</b>            | <b>0.34</b>        | 0.21    | 0.14    | <b>0.37</b>        | 0.81    | 0.11    | <b>0.34</b>        | -0.74   | 0.20    | <b>0.71</b>        | 0.04    | 0.05    | <b>0.34</b>        | 0.30    | 0.27    |
|                          |                    | 0.04    | 0.00    |                    | 0.06    | 0.00    |                    | -0.14   | 0.00    |                    | 0.01    | 0.00    |                    | 0.03    | 0.01    |
| <b>VNJNRP</b>            | <b>2.25</b>        | 10.27   |         | <b>0.27</b>        | -0.60   |         | <b>0.62</b>        | 0.71    |         | <b>0.74</b>        | 0.23    |         | <b>0.35</b>        | 0.38    |         |
|                          |                    | 1.95    | 0.00    |                    | -0.04   | 0.00    |                    | 0.14    | 0.00    |                    | 0.04    | 0.00    |                    | 0.04    | 0.00    |
| <b>DYXQH7</b>            | <b>0.46</b>        | 0.83    | 3.18    | <b>0.39</b>        | 1.11    | 1.15    | <b>0.37</b>        | -0.56   | 1.13    | <b>0.72</b>        | 0.07    | 2.59    | <b>0.41</b>        | 0.91    | 2.68    |
|                          |                    | 0.16    | 0.06    |                    | 0.08    | 0.02    |                    | -0.11   | 0.02    |                    | 0.01    | 0.09    |                    | 0.10    | 0.06    |
| <b>Grand Median</b>      |                    | 0.30    |         |                    | 0.31    |         |                    | 0.48    |         |                    | 0.70    |         |                    | 0.31    |         |
| <b>Median Abs Dev</b>    |                    | 0.04    |         |                    | 0.04    |         |                    | 0.11    |         |                    | 0.07    |         |                    | 0.08    |         |
| <b>Avg Within Lab SD</b> |                    | 0.02    |         |                    | 0.02    |         |                    | 0.02    |         |                    | 0.03    |         |                    | 0.02    |         |
| <b>Labs Included</b>     |                    | 29      |         |                    | 29      |         |                    | 29      |         |                    | 29      |         |                    | 29      |         |
| <b>Labs Reporting</b>    |                    | 29      |         |                    | 29      |         |                    | 29      |         |                    | 29      |         |                    | 29      |         |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 115) |             |       | in the Soil pH & EC Property Groups |             |       |            |             |       |            |             |       |            |             |       | Data units: dS/m |  |
|---------------------------------|-------------|-------|-------------------------------------|-------------|-------|------------|-------------|-------|------------|-------------|-------|------------|-------------|-------|------------------|--|
| SRSSRS1601                      |             |       | SRSSRS1602                          |             |       | SRSSRS1603 |             |       | SRSSRS1604 |             |       | SRSSRS1605 |             |       |                  |  |
| 83L8FJ                          | <b>0.25</b> | 0.28  | 1.00                                | <b>0.23</b> | 0.53  | 0.98       | <b>0.36</b> | -0.24 | 0.63       | <b>0.56</b> | 0.23  | 0.45       | <b>0.14</b> | -0.93 | 0.79             |  |
|                                 |             | 0.09  | 0.01                                |             | 0.04  | 0.01       |             | -0.03 | 0.01       |             | 0.03  | 0.02       |             | -0.06 | 0.01             |  |
| 644GFL                          | <b>0.21</b> | 0.15  | 0.50                                | <b>0.27</b> | 1.16  | 0.57       | <b>0.43</b> | 0.29  | 0.96       | <b>0.58</b> | 0.41  | 0.30       | <b>0.20</b> | 0.00  | 0.46             |  |
|                                 |             | 0.05  | 0.01                                |             | 0.08  | 0.01       |             | 0.04  | 0.02       |             | 0.05  | 0.01       |             | 0.00  | 0.01             |  |
| 33JQFQ                          | <b>0.17</b> | 0.03  | 0.50                                | <b>0.18</b> | -0.19 | 0.98       | <b>0.32</b> | -0.53 | 1.31       | <b>0.40</b> | -0.97 | 2.07       | <b>0.17</b> | -0.44 | 0.00             |  |
|                                 |             | 0.01  | 0.01                                |             | -0.01 | 0.01       |             | -0.07 | 0.02       |             | -0.13 | 0.07       |             | -0.03 | 0.00             |  |
| 9JP2MJ                          | <b>0.28</b> | 0.37  | 0.86                                | <b>0.32</b> | 1.89  | 1.50       | <b>0.72</b> | 2.61  | 1.26       | <b>0.94</b> | 3.18  | 0.95       | <b>0.39</b> | 3.12  | 1.21             |  |
|                                 |             | 0.12  | 0.01                                |             | 0.13  | 0.02       |             | 0.33  | 0.02       |             | 0.42  | 0.03       |             | 0.19  | 0.02             |  |
| PFR9KY                          | <b>0.16</b> | -0.01 | 1.50                                | <b>0.17</b> | -0.34 | 0.98       | <b>0.28</b> | -0.87 | 1.09       | <b>0.45</b> | -0.61 | 2.39       | <b>0.15</b> | -0.82 | 1.99             |  |
|                                 |             | 0.00  | 0.02                                |             | -0.02 | 0.01       |             | -0.11 | 0.02       |             | -0.08 | 0.08       |             | -0.05 | 0.03             |  |
| XWTMKR                          | <b>0.13</b> | -0.10 | 0.13                                | <b>0.18</b> | -0.18 | 0.06       | <b>0.41</b> | 0.13  | 0.04       | <b>0.53</b> | 0.00  | 0.09       | <b>0.20</b> | 0.10  | 0.05             |  |
|                                 |             | -0.03 | 0.00                                |             | -0.01 | 0.00       |             | 0.02  | 0.00       |             | 0.00  | 0.00       |             | 0.01  | 0.00             |  |
| FKH3T9                          | <b>0.11</b> | -0.18 | 0.10                                | <b>0.14</b> | -0.71 | 0.36       | <b>0.32</b> | -0.58 | 0.32       | <b>0.42</b> | -0.80 | 0.03       | <b>0.16</b> | -0.68 | 0.43             |  |
|                                 |             | -0.06 | 0.00                                |             | -0.05 | 0.00       |             | -0.07 | 0.01       |             | -0.10 | 0.00       |             | -0.04 | 0.01             |  |
| YKBCLZ                          | <b>0.13</b> | -0.10 | 0.00                                | <b>0.18</b> | -0.16 | 0.00       | <b>0.42</b> | 0.20  | 0.00       | <b>0.52</b> | -0.08 | 0.00       | <b>0.20</b> | 0.05  | 0.00             |  |
|                                 |             | -0.03 | 0.00                                |             | -0.01 | 0.00       |             | 0.03  | 0.00       |             | -0.01 | 0.00       |             | 0.00  | 0.00             |  |
| RMZ998                          | <b>0.13</b> | -0.09 | 0.92                                | <b>0.16</b> | -0.50 | 0.86       | <b>0.20</b> | -1.47 | 0.35       | <b>0.41</b> | -0.86 | 1.01       | <b>0.14</b> | -0.92 | 0.33             |  |
|                                 |             | -0.03 | 0.01                                |             | -0.03 | 0.01       |             | -0.19 | 0.01       |             | -0.11 | 0.03       |             | -0.06 | 0.00             |  |
| LZMPAC                          | <b>0.14</b> | -0.09 | 0.50                                | <b>0.15</b> | -0.63 | 0.00       | <b>0.29</b> | -0.79 | 0.63       | <b>0.46</b> | -0.51 | 0.30       | <b>0.20</b> | 0.05  | 0.79             |  |
|                                 |             | -0.03 | 0.01                                |             | -0.04 | 0.00       |             | -0.10 | 0.01       |             | -0.07 | 0.01       |             | 0.00  | 0.01             |  |
| GAPFPH                          | <b>0.23</b> | 0.20  | 0.15                                | <b>0.20</b> | 0.05  | 0.30       | <b>0.19</b> | -1.60 | 0.10       | <b>0.42</b> | -0.81 | 0.16       | <b>0.11</b> | -1.41 | 0.37             |  |
|                                 |             | 0.06  | 0.00                                |             | 0.00  | 0.00       |             | -0.20 | 0.00       |             | -0.11 | 0.01       |             | -0.09 | 0.00             |  |
| TNQUE3                          | <b>0.19</b> | 0.08  | 0.00                                | <b>0.24</b> | 0.68  | 1.70       | <b>0.44</b> | 0.37  | 0.96       | <b>0.65</b> | 0.94  | 0.30       | <b>0.30</b> | 1.75  | 0.46             |  |
|                                 |             | 0.03  | 0.00                                |             | 0.05  | 0.02       |             | 0.05  | 0.02       |             | 0.12  | 0.01       |             | 0.11  | 0.01             |  |
| JBF2VE                          | <b>0.14</b> | -0.08 | 0.00                                | <b>0.19</b> | 0.00  | 0.57       | <b>0.42</b> | 0.21  | 0.36       | <b>0.53</b> | 0.00  | 0.17       | <b>0.21</b> | 0.16  | 0.46             |  |
|                                 |             | -0.02 | 0.00                                |             | 0.00  | 0.01       |             | 0.03  | 0.01       |             | 0.00  | 0.01       |             | 0.01  | 0.01             |  |
| 6B3QZT                          | <b>0.21</b> | 0.13  | 0.70                                | <b>0.28</b> | 1.30  | 0.73       | <b>0.43</b> | 0.34  | 0.10       | <b>0.57</b> | 0.36  | 0.15       | <b>0.19</b> | -0.04 | 0.29             |  |
|                                 |             | 0.04  | 0.01                                |             | 0.09  | 0.01       |             | 0.04  | 0.00       |             | 0.05  | 0.00       |             | 0.00  | 0.00             |  |
| CPEWRJ                          | <b>2.73</b> | 8.13  | 3.06                                | <b>3.25</b> | 44.53 | 12.28      | <b>5.52</b> | 40.60 | 3.79       | <b>7.42</b> | 52.54 | 0.30       | <b>2.47</b> | 37.30 | 5.03             |  |
|                                 |             | 2.56  | 0.04                                |             | 3.06  | 0.13       |             | 5.13  | 0.06       |             | 6.89  | 0.01       |             | 2.27  | 0.06             |  |
| AM2DUK                          | <b>0.18</b> | 0.03  | 1.25                                | <b>0.18</b> | -0.23 | 1.82       | <b>0.34</b> | -0.40 | 0.98       | <b>0.44</b> | -0.64 | 0.63       | <b>0.19</b> | -0.15 | 1.11             |  |
|                                 |             | 0.01  | 0.01                                |             | -0.02 | 0.02       |             | -0.05 | 0.02       |             | -0.08 | 0.02       |             | -0.01 | 0.01             |  |
| XHNEVW                          | <b>0.16</b> | -0.01 | 0.00                                | <b>0.22</b> | 0.34  | 0.25       | <b>0.43</b> | 0.35  | 0.06       | <b>0.56</b> | 0.24  | 0.22       | <b>0.21</b> | 0.19  | 0.09             |  |
|                                 |             | 0.00  | 0.00                                |             | 0.02  | 0.00       |             | 0.04  | 0.00       |             | 0.03  | 0.01       |             | 0.01  | 0.00             |  |
| LVRZT6                          | <b>5.00</b> | 15.35 |                                     |             |       |            |             |       |            |             |       |            |             |       |                  |  |
|                                 |             | 4.84  | 0.00                                |             |       |            |             |       |            |             |       |            |             |       |                  |  |
| RCXBZX                          | <b>0.13</b> | -0.10 | 0.15                                | <b>0.17</b> | -0.34 | 1.18       | <b>0.21</b> | -1.46 | 0.98       | <b>0.35</b> | -1.35 | 1.65       | <b>0.15</b> | -0.80 | 1.67             |  |
|                                 |             | -0.03 | 0.00                                |             | -0.02 | 0.01       |             | -0.18 | 0.02       |             | -0.18 | 0.06       |             | -0.05 | 0.02             |  |
| HUC6ZA                          | <b>0.14</b> | -0.09 | 0.35                                | <b>0.18</b> | -0.24 | 0.15       | <b>0.39</b> | 0.00  | 0.13       | <b>0.54</b> | 0.11  | 0.68       | <b>0.19</b> | -0.06 | 0.27             |  |
|                                 |             | -0.03 | 0.00                                |             | -0.02 | 0.00       |             | 0.00  | 0.00       |             | 0.02  | 0.02       |             | 0.00  | 0.00             |  |



## ALP Program - Participant Web Summary Report - Cycle 29

|                          | 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>YTJ7GT</b>            | <b>0.15</b>        | -0.04   |         | <b>0.14</b>        | -0.73   |         | <b>0.32</b>        | -0.54   |         | <b>0.46</b>        | -0.55   |         | <b>0.25</b>        | 0.84    |         |
|                          |                    | -0.01   | 0.00    |                    | -0.05   | 0.00    |                    | -0.07   | 0.00    |                    | -0.07   | 0.00    |                    | 0.05    | 0.00    |
| <b>BHL3GF</b>            | <b>0.17</b>        | 0.01    | 0.17    | <b>0.22</b>        | 0.43    | 0.45    | <b>0.42</b>        | 0.27    | 0.95    | <b>0.54</b>        | 0.09    | 0.23    | <b>0.21</b>        | 0.27    | 0.55    |
|                          |                    | 0.00    | 0.00    |                    | 0.03    | 0.00    |                    | 0.03    | 0.02    |                    | 0.01    | 0.01    |                    | 0.02    | 0.01    |
| <b>4KCY3M</b>            | <b>0.28</b>        | 0.37    | 1.50    | <b>0.27</b>        | 1.16    | 1.50    | <b>0.27</b>        | -0.98   | 1.31    | <b>0.55</b>        | 0.15    | 0.85    | <b>0.12</b>        | -1.20   | 3.30    |
|                          |                    | 0.12    | 0.02    |                    | 0.08    | 0.02    |                    | -0.12   | 0.02    |                    | 0.02    | 0.03    |                    | -0.07   | 0.04    |
| <b>K6MG64</b>            | <b>0.15</b>        | -0.06   | 0.50    | <b>0.21</b>        | 0.19    | 0.57    | <b>0.43</b>        | 0.29    | 0.36    | <b>0.53</b>        | 0.05    | 0.17    | <b>0.21</b>        | 0.27    | 0.46    |
|                          |                    | -0.02   | 0.01    |                    | 0.01    | 0.01    |                    | 0.04    | 0.01    |                    | 0.01    | 0.01    |                    | 0.02    | 0.01    |
| <b>7CWYLG</b>            | <b>0.27</b>        | 0.33    | 3.76    | <b>0.32</b>        | 1.84    | 2.60    | <b>0.51</b>        | 0.92    | 2.55    | <b>0.58</b>        | 0.43    | 0.95    | <b>0.34</b>        | 2.35    | 1.58    |
|                          |                    | 0.11    | 0.04    |                    | 0.13    | 0.03    |                    | 0.12    | 0.04    |                    | 0.06    | 0.03    |                    | 0.14    | 0.02    |
| <b>DM76CB</b>            | <b>0.12</b>        | -0.13   | 1.80    | <b>0.14</b>        | -0.73   | 1.50    | <b>0.35</b>        | -0.29   | 2.85    | <b>0.38</b>        | -1.09   | 3.02    | <b>0.18</b>        | -0.33   | 0.91    |
|                          |                    | -0.04   | 0.02    |                    | -0.05   | 0.02    |                    | -0.04   | 0.05    |                    | -0.14   | 0.10    |                    | -0.02   | 0.01    |
| <b>PHEWWY</b>            | <b>0.08</b>        | -0.27   |         | <b>0.06</b>        | -1.97   |         | <b>0.18</b>        | -1.70   |         | <b>0.10</b>        | -3.27   |         | <b>0.13</b>        | -1.06   |         |
|                          |                    | -0.08   | 0.00    |                    | -0.14   | 0.00    |                    | -0.21   | 0.00    |                    | -0.43   | 0.00    |                    | -0.06   | 0.00    |
| <b>X3EMTR</b>            | <b>0.19</b>        | 0.08    | 0.25    | <b>0.24</b>        | 0.69    | 0.17    | <b>0.42</b>        | 0.26    | 0.07    | <b>0.54</b>        | 0.12    | 0.05    | <b>0.20</b>        | 0.09    | 0.12    |
|                          |                    | 0.02    | 0.00    |                    | 0.05    | 0.00    |                    | 0.03    | 0.00    |                    | 0.02    | 0.00    |                    | 0.01    | 0.00    |
| <b>F4R897</b>            | <b>0.20</b>        | 0.13    | 0.48    | <b>0.26</b>        | 0.97    | 0.46    | <b>0.46</b>        | 0.53    | 0.35    | <b>0.58</b>        | 0.37    | 0.14    | <b>0.20</b>        | 0.10    | 0.57    |
|                          |                    | 0.04    | 0.01    |                    | 0.07    | 0.00    |                    | 0.07    | 0.01    |                    | 0.05    | 0.00    |                    | 0.01    | 0.01    |
| <b>Grand Median</b>      |                    | 0.16    |         |                    | 0.19    |         |                    | 0.39    |         |                    | 0.53    |         |                    | 0.20    |         |
| <b>Median Abs Dev</b>    |                    | 0.03    |         |                    | 0.04    |         |                    | 0.05    |         |                    | 0.06    |         |                    | 0.02    |         |
| <b>Avg Within Lab SD</b> |                    | 0.01    |         |                    | 0.01    |         |                    | 0.02    |         |                    | 0.03    |         |                    | 0.01    |         |
| <b>Labs Included</b>     |                    | 28      |         |                    | 27      |         |                    | 27      |         |                    | 27      |         |                    | 27      |         |
| <b>Labs Reporting</b>    |                    | 28      |         |                    | 27      |         |                    | 27      |         |                    | 27      |         |                    | 27      |         |





## ALP Program - Participant Web Summary Report - Cycle 29

|                    |         |         |                    |         |         |                    |         |         |                    |         |         |                    |         |         |
|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|
| 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 116) in the Soil pH & EC Property Groups |       |      |             |       |      |             |       |      |             |       |      |             |       |      |                  |
|---------------|--|-------|------|-------------|-------|------|-------------|-------|------|-------------|-------|------|-------------|-------|------|------------------|
|               | SRSSRS1601   |       |      | SRSSRS1602  |       |      | SRSSRS1603  |       |      | SRSSRS1604  |       |      | SRSSRS1605  |       |      | Data units: Unit |
| <b>YAA32W</b> | <b>8.10</b>  | 0.67  | 0.00 | <b>7.67</b> | 0.35  | 1.22 | <b>5.73</b> | 0.24  | 0.99 | <b>5.63</b> | 0.91  | 1.37 | <b>4.70</b> | 0.58  | 1.38 |                  |
|               |  | 0.13  | 0.00 |             | 0.06  | 0.06 |             | 0.03  | 0.06 |             | 0.13  | 0.06 |             | 0.10  | 0.10 |                  |
| <b>AAUKBK</b> | <b>8.00</b>  | 0.15  | 0.18 | <b>7.61</b> | 0.02  | 0.24 | <b>5.70</b> | 0.00  | 0.90 | <b>5.55</b> | 0.30  | 1.19 | <b>4.66</b> | 0.38  | 0.78 |                  |
|               |  | 0.03  | 0.01 |             | 0.00  | 0.01 |             | 0.00  | 0.05 |             | 0.04  | 0.05 |             | 0.07  | 0.06 |                  |
| <b>GZ63WD</b> | <b>7.71</b>  | -1.34 | 0.70 | <b>7.26</b> | -2.19 | 0.88 | <b>5.45</b> | -1.79 | 0.84 | <b>5.33</b> | -1.29 | 1.09 | <b>4.35</b> | -1.37 | 0.78 |                  |
|               |  | -0.26 | 0.04 |             | -0.35 | 0.04 |             | -0.25 | 0.05 |             | -0.18 | 0.05 |             | -0.24 | 0.06 |                  |
| <b>HRQGNA</b> | <b>7.93</b>  | -0.19 | 2.69 | <b>7.63</b> | 0.14  | 1.22 | <b>5.67</b> | -0.24 | 0.99 | <b>5.53</b> | 0.18  | 1.37 | <b>4.77</b> | 0.96  | 0.79 |                  |
|               |  | -0.04 | 0.15 |             | 0.02  | 0.06 |             | -0.03 | 0.06 |             | 0.03  | 0.06 |             | 0.17  | 0.06 |                  |
| <b>P9QWN3</b> | <b>8.20</b>  | 1.19  | 0.00 | <b>7.87</b> | 1.59  | 1.22 | <b>5.73</b> | 0.24  | 0.99 | <b>5.50</b> | -0.06 |      | <b>4.47</b> | -0.73 | 0.79 |                  |
|               |  | 0.23  | 0.00 |             | 0.26  | 0.06 |             | 0.03  | 0.06 |             | -0.01 | 0.00 |             | -0.13 | 0.06 |                  |
| <b>83L8FJ</b> | <b>8.01</b>  | 0.22  | 0.44 | <b>7.61</b> | 0.00  | 0.56 | <b>5.80</b> | 0.73  | 0.51 | <b>5.65</b> | 1.03  | 0.41 | <b>4.69</b> | 0.54  | 0.40 |                  |
|               |  | 0.04  | 0.03 |             | 0.00  | 0.03 |             | 0.10  | 0.03 |             | 0.14  | 0.02 |             | 0.10  | 0.03 |                  |
| <b>BFZE6F</b> | <b>8.18</b>  | 1.07  | 0.18 | <b>7.73</b> | 0.75  | 0.13 | <b>5.60</b> | -0.75 | 0.71 | <b>5.41</b> | -0.68 | 0.14 | <b>4.61</b> | 0.06  | 0.71 |                  |
|               |  | 0.21  | 0.01 |             | 0.12  | 0.01 |             | -0.10 | 0.04 |             | -0.09 | 0.01 |             | 0.01  | 0.05 |                  |
| <b>GBLMGA</b> | <b>8.10</b>  | 0.67  | 0.00 | <b>7.70</b> | 0.56  | 0.00 | <b>5.77</b> | 0.49  | 0.99 | <b>5.50</b> | -0.06 |      | <b>4.67</b> | 0.39  | 0.79 |                  |
|               |  | 0.13  | 0.00 |             | 0.09  | 0.00 |             | 0.07  | 0.06 |             | -0.01 | 0.00 |             | 0.07  | 0.06 |                  |
| <b>644GFL</b> | <b>7.90</b>  | -0.34 | 0.44 | <b>7.57</b> | -0.27 | 0.12 | <b>5.77</b> | 0.53  | 0.20 | <b>5.63</b> | 0.88  | 0.24 | <b>4.75</b> | 0.88  | 0.29 |                  |
|               |  | -0.07 | 0.03 |             | -0.04 | 0.01 |             | 0.07  | 0.01 |             | 0.12  | 0.01 |             | 0.16  | 0.02 |                  |
| <b>2GK3BP</b> | <b>8.01</b>  | 0.22  | 0.62 | <b>7.63</b> | 0.14  | 0.88 | <b>5.64</b> | -0.41 | 0.79 | <b>5.51</b> | 0.04  | 1.07 | <b>4.57</b> | -0.13 | 0.68 |                  |
|               |  | 0.04  | 0.04 |             | 0.02  | 0.04 |             | -0.06 | 0.05 |             | 0.01  | 0.05 |             | -0.02 | 0.05 |                  |
| <b>37H3CQ</b> | <b>8.01</b>  | 0.22  | 0.44 | <b>7.64</b> | 0.21  | 0.24 | <b>5.71</b> | 0.07  | 0.30 | <b>5.49</b> | -0.13 | 0.47 | <b>4.74</b> | 0.79  | 0.42 |                  |
|               |  | 0.04  | 0.03 |             | 0.03  | 0.01 |             | 0.01  | 0.02 |             | -0.02 | 0.02 |             | 0.14  | 0.03 |                  |
| <b>33JQFQ</b> | <b>8.00</b>  | 0.17  | 0.54 | <b>7.66</b> | 0.29  | 0.24 | <b>5.59</b> | -0.78 | 0.52 | <b>5.48</b> | -0.23 | 0.36 | <b>4.49</b> | -0.60 | 0.14 |                  |
|               |  | 0.03  | 0.03 |             | 0.05  | 0.01 |             | -0.11 | 0.03 |             | -0.03 | 0.02 |             | -0.11 | 0.01 |                  |
| <b>LM4ZL8</b> | <b>7.78</b>  | -0.96 | 0.54 | <b>7.54</b> | -0.41 | 0.44 | <b>5.75</b> | 0.36  | 0.34 | <b>5.61</b> | 0.71  | 0.76 | <b>4.71</b> | 0.66  | 0.29 |                  |
|               |  | -0.19 | 0.03 |             | -0.07 | 0.02 |             | 0.05  | 0.02 |             | 0.10  | 0.03 |             | 0.12  | 0.02 |                  |
| <b>6BMKMN</b> | <b>7.67</b>  | -1.57 | 1.02 | <b>7.40</b> | -1.30 | 0.00 | <b>5.75</b> | 0.34  | 1.38 | <b>5.60</b> | 0.66  | 0.00 | <b>4.86</b> | 1.48  | 2.08 |                  |
|               |  | -0.30 | 0.06 |             | -0.21 | 0.00 |             | 0.05  | 0.08 |             | 0.09  | 0.00 |             | 0.26  | 0.15 |                  |
| <b>F92H9C</b> | <b>7.74</b>  | -1.17 | 0.20 | <b>7.49</b> | -0.74 | 0.42 | <b>5.61</b> | -0.63 | 0.10 | <b>5.48</b> | -0.18 | 0.27 | <b>4.45</b> | -0.81 | 0.32 |                  |
|               |  | -0.23 | 0.01 |             | -0.12 | 0.02 |             | -0.09 | 0.01 |             | -0.03 | 0.01 |             | -0.14 | 0.02 |                  |
| <b>PFR9KY</b> | <b>8.20</b>  | 1.17  | 3.37 | <b>7.80</b> | 1.20  | 2.13 | <b>6.33</b> | 4.61  | 4.50 | <b>6.29</b> | 5.64  | 2.87 | <b>5.64</b> | 5.90  | 1.52 |                  |
|               |  | 0.23  | 0.19 |             | 0.19  | 0.10 |             | 0.63  | 0.26 |             | 0.78  | 0.12 |             | 1.05  | 0.11 |                  |
| <b>K8VMR6</b> | <b>8.12</b>  | 0.76  | 0.51 | <b>7.63</b> | 0.14  | 0.61 | <b>5.62</b> | -0.61 | 0.49 | <b>5.47</b> | -0.30 | 0.69 | <b>4.47</b> | -0.73 | 0.79 |                  |
|               |  | 0.15  | 0.03 |             | 0.02  | 0.03 |             | -0.08 | 0.03 |             | -0.04 | 0.03 |             | -0.13 | 0.06 |                  |
| <b>XWTMKR</b> | <b>8.22</b>  | 1.29  | 0.93 | <b>7.71</b> | 0.60  | 2.61 | <b>5.67</b> | -0.19 | 1.45 | <b>5.54</b> | 0.25  | 2.63 | <b>4.55</b> | -0.28 | 0.83 |                  |
|               |  | 0.25  | 0.05 |             | 0.10  | 0.12 |             | -0.03 | 0.09 |             | 0.04  | 0.11 |             | -0.05 | 0.06 |                  |
| <b>FKH3T9</b> | <b>8.28</b>  | 1.60  | 1.99 | <b>7.58</b> | -0.17 | 2.33 | <b>5.74</b> | 0.27  | 0.52 | <b>5.93</b> | 3.03  | 3.29 | <b>5.14</b> | 3.04  | 1.43 |                  |
|               |  | 0.31  | 0.11 |             | -0.03 | 0.11 |             | 0.04  | 0.03 |             | 0.42  | 0.14 |             | 0.54  | 0.10 |                  |
| <b>6VACMK</b> | <b>7.97</b>  | -0.02 | 1.02 | <b>7.63</b> | 0.14  | 1.22 | <b>5.83</b> | 0.97  | 0.99 | <b>5.50</b> | -0.06 |      | <b>4.60</b> | 0.02  | 1.38 |                  |
|               |  | 0.00  | 0.06 |             | 0.02  | 0.06 |             | 0.13  | 0.06 |             | -0.01 | 0.00 |             | 0.00  | 0.10 |                  |



## ALP Program - Participant Web Summary Report - Cycle 29

|               | 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>DFA3JC</b> | <b>8.12</b> | 0.76       | 0.10    | <b>7.70</b> | 0.56       | 0.00    | <b>5.55</b> | -1.12      | 0.10    | <b>5.49</b> | -0.13      | 0.00    | <b>4.50</b> | -0.54      | 0.14    |
|               |             | 0.15       | 0.01    |             | 0.09       | 0.00    |             | -0.15      | 0.01    |             | -0.02      | 0.00    |             | -0.10      | 0.01    |
| <b>K2N3HD</b> | <b>8.21</b> | 1.26       | 0.20    | <b>7.74</b> | 0.83       | 0.65    | <b>5.64</b> | -0.44      | 0.17    | <b>5.49</b> | -0.13      | 0.24    | <b>4.50</b> | -0.56      | 0.16    |
|               |             | 0.24       | 0.01    |             | 0.13       | 0.03    |             | -0.06      | 0.01    |             | -0.02      | 0.01    |             | -0.10      | 0.01    |
| <b>YKBCLZ</b> | <b>8.06</b> | 0.45       | 0.62    | <b>7.54</b> | -0.45      | 0.74    | <b>5.61</b> | -0.63      | 0.26    | <b>5.41</b> | -0.74      | 0.27    | <b>4.42</b> | -0.98      | 0.29    |
|               |             | 0.09       | 0.04    |             | -0.07      | 0.04    |             | -0.09      | 0.02    |             | -0.10      | 0.01    |             | -0.17      | 0.02    |
| <b>RMZ998</b> | <b>7.83</b> | -0.71      | 1.02    | <b>7.50</b> | -0.68      | 2.12    | <b>5.57</b> | -0.97      | 3.55    | <b>5.43</b> | -0.54      | 1.37    | <b>4.80</b> | 1.15       | 3.64    |
|               |             | -0.14      | 0.06    |             | -0.11      | 0.10    |             | -0.13      | 0.21    |             | -0.08      | 0.06    |             | 0.20       | 0.26    |
| <b>T9EFX6</b> | <b>6.17</b> | -9.29      |         | <b>6.16</b> | -8.97      |         | <b>5.98</b> | 2.04       |         | <b>6.02</b> | 3.71       |         | <b>5.81</b> | 6.83       |         |
|               |             | -1.80      | 0.00    |             | -1.45      | 0.00    |             | 0.28       | 0.00    |             | 0.51       | 0.00    |             | 1.21       | 0.00    |
| <b>3KE7UV</b> | <b>8.01</b> | 0.22       | 0.27    | <b>7.51</b> | -0.62      | 0.21    | <b>5.54</b> | -1.16      | 0.30    | <b>5.34</b> | -1.24      | 0.49    | <b>4.49</b> | -0.60      | 0.50    |
|               |             | 0.04       | 0.02    |             | -0.10      | 0.01    |             | -0.16      | 0.02    |             | -0.17      | 0.02    |             | -0.11      | 0.04    |
| <b>R9KB47</b> | <b>7.88</b> | -0.46      | 0.18    | <b>7.53</b> | -0.50      | 0.42    | <b>5.57</b> | -0.97      | 0.94    | <b>5.35</b> | -1.17      | 1.72    | <b>4.48</b> | -0.66      | 0.48    |
|               |             | -0.09      | 0.01    |             | -0.08      | 0.02    |             | -0.13      | 0.06    |             | -0.16      | 0.07    |             | -0.12      | 0.03    |
| <b>LZMPAC</b> | <b>7.95</b> | -0.10      | 1.23    | <b>7.62</b> | 0.08       | 0.32    | <b>5.75</b> | 0.36       | 0.45    | <b>5.62</b> | 0.81       | 1.09    | <b>4.65</b> | 0.30       | 0.77    |
|               |             | -0.02      | 0.07    |             | 0.01       | 0.02    |             | 0.05       | 0.03    |             | 0.11       | 0.05    |             | 0.05       | 0.06    |
| <b>YPKQ4Y</b> | <b>7.94</b> | -0.15      | 0.00    | <b>7.53</b> | -0.50      | 0.00    | <b>5.69</b> | -0.07      | 0.00    | <b>5.55</b> | 0.30       | 0.00    | <b>4.60</b> | 0.02       | 0.00    |
|               |             | -0.03      | 0.00    |             | -0.08      | 0.00    |             | -0.01      | 0.00    |             | 0.04       | 0.00    |             | 0.00       | 0.00    |
| <b>BMDAYP</b> | <b>7.93</b> | -0.19      | 1.02    | <b>7.63</b> | 0.14       | 1.22    | <b>5.73</b> | 0.24       | 0.99    | <b>5.53</b> | 0.18       | 1.37    | <b>4.80</b> | 1.15       | 1.38    |
|               |             | -0.04      | 0.06    |             | 0.02       | 0.06    |             | 0.03       | 0.06    |             | 0.03       | 0.06    |             | 0.20       | 0.10    |
| <b>738BNU</b> | <b>7.56</b> | -2.12      | 1.27    | <b>7.38</b> | -1.42      | 1.81    | <b>5.72</b> | 0.12       | 0.26    | <b>5.59</b> | 0.62       | 0.55    | <b>4.68</b> | 0.47       | 0.48    |
|               |             | -0.41      | 0.07    |             | -0.23      | 0.09    |             | 0.02       | 0.02    |             | 0.09       | 0.02    |             | 0.08       | 0.03    |
| <b>T84DB7</b> | <b>8.04</b> | 0.34       | 0.44    | <b>7.69</b> | 0.47       | 0.32    | <b>5.68</b> | -0.12      | 0.36    | <b>5.52</b> | 0.06       | 0.49    | <b>4.54</b> | -0.34      | 0.69    |
|               |             | 0.07       | 0.03    |             | 0.08       | 0.02    |             | -0.02      | 0.02    |             | 0.01       | 0.02    |             | -0.06      | 0.05    |
| <b>L2J8CD</b> | <b>8.19</b> | 1.12       | 0.27    | <b>7.82</b> | 1.32       | 0.44    | <b>5.66</b> | -0.32      | 0.20    | <b>5.57</b> | 0.42       | 0.27    | <b>4.47</b> | -0.71      | 0.24    |
|               |             | 0.22       | 0.02    |             | 0.21       | 0.02    |             | -0.04      | 0.01    |             | 0.06       | 0.01    |             | -0.13      | 0.02    |
| <b>CJDKVM</b> | <b>8.15</b> | 0.95       | 0.10    | <b>7.63</b> | 0.14       | 0.12    | <b>5.72</b> | 0.17       | 0.10    | <b>5.52</b> | 0.08       | 0.00    | <b>4.57</b> | -0.15      | 0.00    |
|               |             | 0.18       | 0.01    |             | 0.02       | 0.01    |             | 0.02       | 0.01    |             | 0.01       | 0.00    |             | -0.03      | 0.00    |
| <b>TNQUE3</b> | <b>8.03</b> | 0.33       | 0.37    | <b>7.60</b> | -0.08      | 0.44    | <b>5.74</b> | 0.27       | 0.26    | <b>5.55</b> | 0.30       | 0.47    | <b>4.66</b> | 0.36       | 0.36    |
|               |             | 0.06       | 0.02    |             | -0.01      | 0.02    |             | 0.04       | 0.02    |             | 0.04       | 0.02    |             | 0.06       | 0.03    |
| <b>79D4JP</b> | <b>7.96</b> | -0.03      | 0.41    | <b>7.75</b> | 0.87       | 0.37    | <b>5.79</b> | 0.63       | 0.55    | <b>5.61</b> | 0.71       | 0.49    | <b>4.93</b> | 1.88       | 0.36    |
|               |             | -0.01      | 0.02    |             | 0.14       | 0.02    |             | 0.09       | 0.03    |             | 0.10       | 0.02    |             | 0.33       | 0.03    |
| <b>PWWNK7</b> | <b>7.86</b> | -0.57      | 0.64    | <b>7.56</b> | -0.33      | 1.17    | <b>5.88</b> | 1.31       | 1.49    | <b>5.64</b> | 0.93       | 1.12    | <b>4.76</b> | 0.94       | 0.08    |
|               |             | -0.11      | 0.04    |             | -0.05      | 0.06    |             | 0.18       | 0.09    |             | 0.13       | 0.05    |             | 0.17       | 0.01    |
| <b>A9GXQK</b> | <b>8.09</b> | 0.60       | 0.27    | <b>7.75</b> | 0.89       | 1.49    | <b>5.77</b> | 0.51       | 0.78    | <b>5.64</b> | 0.93       | 0.49    | <b>4.68</b> | 0.45       | 0.56    |
|               |             | 0.12       | 0.02    |             | 0.14       | 0.07    |             | 0.07       | 0.05    |             | 0.13       | 0.02    |             | 0.08       | 0.04    |
| <b>8CMGZN</b> | <b>7.97</b> | 0.02       | 0.10    | <b>7.60</b> | -0.08      | 0.12    | <b>5.66</b> | -0.32      | 0.10    | <b>5.42</b> | -0.62      | 0.14    | <b>4.52</b> | -0.41      | 0.08    |
|               |             | 0.00       | 0.01    |             | -0.01      | 0.01    |             | -0.04      | 0.01    |             | -0.09      | 0.01    |             | -0.07      | 0.01    |
| <b>JBF2VE</b> | <b>7.78</b> | -0.96      | 0.37    | <b>7.37</b> | -1.51      | 0.32    | <b>5.52</b> | -1.29      | 0.52    | <b>5.42</b> | -0.62      | 0.76    | <b>4.49</b> | -0.60      | 1.24    |
|               |             | -0.19      | 0.02    |             | -0.24      | 0.02    |             | -0.18      | 0.03    |             | -0.09      | 0.03    |             | -0.11      | 0.09    |
| <b>XM44Y7</b> | <b>7.84</b> | -0.67      | 0.47    | <b>7.46</b> | -0.91      | 0.74    | <b>6.00</b> | 2.21       | 0.65    | <b>5.50</b> | -0.04      | 0.49    | <b>4.90</b> | 1.71       | 0.41    |
|               |             | -0.13      | 0.03    |             | -0.15      | 0.04    |             | 0.30       | 0.04    |             | -0.01      | 0.02    |             | 0.30       | 0.03    |
| <b>PWR8L8</b> | <b>7.79</b> | -0.95      | 0.54    | <b>7.36</b> | -1.57      | 0.32    | <b>5.72</b> | 0.15       | 0.59    | <b>5.46</b> | -0.37      | 0.36    | <b>4.56</b> | -0.19      | 0.48    |
|               |             | -0.18      | 0.03    |             | -0.25      | 0.02    |             | 0.02       | 0.03    |             | -0.05      | 0.02    |             | -0.03      | 0.04    |



## ALP Program - Participant Web Summary Report - Cycle 29

|               | 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>CPEWRJ</b> | <b>8.07</b> | 0.53       | 1.02    | <b>7.68</b> | 0.41       | 0.44    | <b>5.71</b> | 0.05       | 0.20    | <b>5.55</b> | 0.28       | 0.60    | <b>4.53</b> | -0.39      | 0.16    |
| <b>VBVLAX</b> | <b>7.97</b> | -0.02      | 1.02    | <b>7.57</b> | -0.27      | 1.22    | <b>5.53</b> | -1.21      | 0.99    | <b>5.33</b> | -1.27      | 1.37    | <b>4.60</b> | 0.02       | 0.00    |
| <b>TJBJ2Y</b> | <b>8.01</b> | 0.21       | 0.00    | <b>7.64</b> | 0.19       | 0.00    | <b>5.62</b> | -0.17      | 0.06    | <b>5.46</b> | -0.18      | 0.06    | <b>4.59</b> | 0.00       | 0.00    |
| <b>XHNEVW</b> | <b>7.89</b> | -0.41      | 0.81    | <b>7.53</b> | -0.47      | 0.12    | <b>5.61</b> | -0.61      | 0.20    | <b>5.45</b> | -0.33      | 0.14    | <b>4.55</b> | -0.02      | 0.16    |
| <b>49YVGP</b> | <b>7.81</b> | 0.04       | 0.00    | <b>7.56</b> | 0.03       | 0.00    | <b>5.51</b> | -0.08      | 0.01    | <b>5.36</b> | -0.05      | 0.01    | <b>4.45</b> | 0.00       | 0.01    |
| <b>3BBBBQ</b> | <b>8.20</b> | -0.83      | 0.92    | <b>7.80</b> | -0.08      | 0.01    | <b>5.73</b> | -0.42      | 0.36    | <b>5.53</b> | -0.42      | 0.41    | <b>4.60</b> | -0.28      | 0.52    |
| <b>98UYZG</b> | <b>7.79</b> | -0.16      | 0.05    | <b>7.61</b> | -0.31      | 0.76    | <b>5.97</b> | -0.09      | 0.02    | <b>5.81</b> | -0.06      | 0.02    | <b>4.91</b> | -0.05      | 0.04    |
| <b>LVRZT6</b> | <b>8.13</b> | 1.19       | 0.00    | <b>7.73</b> | -0.18      | 0.00    | <b>5.70</b> | -1.36      | 0.77    | <b>5.60</b> | -1.05      | 0.55    | <b>4.57</b> | -0.83      | 0.41    |
| <b>RCXBZX</b> | <b>7.71</b> | 0.23       | 0.00    | <b>7.44</b> | 0.19       | 0.00    | <b>5.73</b> | 0.24       | 0.99    | <b>5.95</b> | 0.18       | 1.37    | <b>4.70</b> | 0.02       | 0.00    |
| <b>4KCY3M</b> | <b>7.97</b> | -0.91      | 0.87    | <b>7.57</b> | 0.00       | 1.39    | <b>5.70</b> | 1.94       | 2.04    | <b>5.43</b> | 2.21       | 0.36    | <b>4.47</b> | 1.78       | 1.61    |
| <b>67Q7RL</b> | <b>8.01</b> | -0.18      | 0.05    | <b>7.67</b> | 0.00       | 0.07    | <b>5.74</b> | 0.27       | 0.12    | <b>5.52</b> | 0.31       | 0.02    | <b>4.65</b> | 0.32       | 0.12    |
| <b>MZGWVZ</b> | <b>7.57</b> | 0.84       | 1.02    | <b>7.27</b> | 0.76       | 1.22    | <b>5.25</b> | 0.00       | 1.71    | <b>5.27</b> | 0.66       | 0.00    | <b>4.37</b> | -0.17      | 0.79    |
| <b>8FPFBG</b> | <b>7.94</b> | 0.16       | 0.06    | <b>7.39</b> | 0.12       | 0.06    | <b>5.39</b> | 0.00       | 0.10    | <b>5.49</b> | 0.09       | 0.00    | <b>4.46</b> | -0.03      | 0.06    |
| <b>K6MG64</b> | <b>7.88</b> | -1.36      | 3.57    | <b>7.38</b> | -1.05      | 1.60    | <b>5.78</b> | 0.19       | 0.43    | <b>5.42</b> | 3.22       | 1.12    | <b>4.57</b> | 0.56       | 0.42    |
| <b>7CWYLG</b> | <b>7.79</b> | -0.26      | 0.20    | <b>7.41</b> | -0.17      | 0.08    | <b>5.60</b> | 0.03       | 0.03    | <b>5.37</b> | 0.45       | 0.05    | <b>4.43</b> | 0.10       | 0.03    |
| <b>C8H8XB</b> | <b>8.07</b> | -0.02      | 1.02    | <b>7.47</b> | -0.27      | 1.22    | <b>5.67</b> | 0.00       | 2.96    | <b>5.67</b> | -0.54      | 1.37    | <b>4.57</b> | -0.73      | 0.79    |
| <b>DM76CB</b> | <b>8.11</b> | 0.00       | 0.06    | <b>7.82</b> | -0.04      | 0.06    | <b>5.83</b> | 0.00       | 0.17    | <b>5.63</b> | -0.08      | 0.06    | <b>4.70</b> | -0.13      | 0.06    |
| <b>XYFCWR</b> | <b>8.04</b> | 0.21       | 0.35    | <b>7.82</b> | 0.39       | 0.80    | <b>5.60</b> | 0.27       | 0.26    | <b>5.56</b> | 0.06       | 0.60    | <b>4.61</b> | 0.30       | 0.36    |
| <b>DURWNB</b> | <b>8.10</b> | 0.04       | 0.02    | <b>7.70</b> | 0.06       | 0.04    | <b>5.70</b> | 0.04       | 0.02    | <b>5.50</b> | 0.01       | 0.03    | <b>4.73</b> | 0.05       | 0.03    |
| <b>VNJNRP</b> | <b>7.77</b> | -2.06      | 1.70    | <b>7.27</b> | -2.10      | 2.58    | <b>5.77</b> | -3.25      | 2.17    | <b>5.27</b> | -1.75      | 0.90    | <b>4.37</b> | -1.28      | 0.73    |
| <b>BLKJTA</b> | <b>7.97</b> | -0.40      | 0.10    | <b>7.41</b> | -0.34      | 0.12    | <b>5.60</b> | -0.45      | 0.13    | <b>5.27</b> | -0.24      | 0.04    | <b>4.37</b> | -0.23      | 0.05    |
| <b>DYXQH7</b> | <b>8.28</b> | -0.15      | 1.86    | <b>7.39</b> | -1.34      | 0.68    | <b>5.39</b> | -2.28      | 0.69    | <b>5.49</b> | -0.13      | 0.41    | <b>4.46</b> | -0.77      | 1.22    |
|               |             | -0.03      | 0.11    |             | -0.22      | 0.03    |             | -0.31      | 0.04    |             | -0.02      | 0.02    |             | -0.14      | 0.09    |
|               |             | -0.48      | 0.37    |             | -1.44      | 0.88    |             | 0.58       | 0.34    |             | -0.64      | 0.47    |             | -0.17      | 0.29    |
|               |             | -0.09      | 0.02    |             | -0.23      | 0.04    |             | 0.08       | 0.02    |             | -0.09      | 0.02    |             | -0.03      | 0.02    |
|               |             | -0.91      | 2.06    |             | -1.24      | 1.48    |             | -0.73      | 0.34    |             | -1.00      | 1.09    |             | -0.92      | 1.31    |
|               |             | -0.18      | 0.12    |             | -0.20      | 0.07    |             | -0.10      | 0.02    |             | -0.14      | 0.05    |             | -0.16      | 0.10    |
|               |             | 0.50       | 1.02    |             | -0.89      | 1.22    |             | -0.24      | 0.99    |             | 1.15       | 2.74    |             | -0.17      | 0.79    |
|               |             | 0.10       | 0.06    |             | -0.14      | 0.06    |             | -0.03      | 0.06    |             | 0.16       | 0.12    |             | -0.03      | 0.06    |
|               |             | 0.72       | 0.81    |             | 1.28       | 1.24    |             | 0.95       | 1.33    |             | 0.91       | 1.31    |             | 0.56       | 0.87    |
|               |             | 0.14       | 0.05    |             | 0.21       | 0.06    |             | 0.13       | 0.08    |             | 0.13       | 0.06    |             | 0.10       | 0.06    |
|               |             | 0.34       | 0.41    |             | 1.30       | 0.37    |             | -0.70      | 1.04    |             | 0.37       | 0.63    |             | 0.08       | 0.86    |
|               |             | 0.07       | 0.02    |             | 0.21       | 0.02    |             | -0.10      | 0.06    |             | 0.05       | 0.03    |             | 0.01       | 0.06    |
|               |             | 0.67       | 0.00    |             | 0.56       | 0.00    |             | 0.00       | 0.00    |             | -0.06      |         |             | 0.77       | 0.79    |
|               |             | 0.13       | 0.00    |             | 0.09       | 0.00    |             | 0.00       | 0.00    |             | -0.01      | 0.00    |             | 0.14       | 0.06    |
|               |             | -1.03      |         |             | 1.36       |         |             | 0.51       |         |             | 1.32       |         |             | 0.92       |         |
|               |             | -0.20      | 0.00    |             | 0.22       | 0.00    |             | 0.07       | 0.00    |             | 0.18       | 0.00    |             | 0.16       | 0.00    |
|               |             | -0.02      | 1.02    |             | -0.47      | 1.22    |             | -1.70      | 0.99    |             | -1.75      | 1.37    |             | -1.30      | 0.79    |
|               |             | 0.00       | 0.06    |             | -0.08      | 0.06    |             | -0.23      | 0.06    |             | -0.24      | 0.06    |             | -0.23      | 0.06    |
|               |             | 1.62       | 2.27    |             | 0.58       | 0.53    |             | -1.31      | 0.90    |             | -0.57      | 1.03    |             | -1.18      | 3.79    |
|               |             | 0.31       | 0.13    |             | 0.09       | 0.03    |             | -0.18      | 0.05    |             | -0.08      | 0.04    |             | -0.21      | 0.28    |



## ALP Program - Participant Web Summary Report - Cycle 29

|                          | 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>Grand Median</b>      |                    | 7.97    |         |                    | 7.61    |         |                    | 5.70    |         |                    | 5.51    |         |                    | 4.60    |         |
| <b>Median Abs Dev</b>    |                    | 0.12    |         |                    | 0.09    |         |                    | 0.07    |         |                    | 0.08    |         |                    | 0.11    |         |
| <b>Avg Within Lab SD</b> |                    | 0.06    |         |                    | 0.05    |         |                    | 0.06    |         |                    | 0.04    |         |                    | 0.07    |         |
| <b>Labs Included</b>     |                    | 62      |         |                    | 62      |         |                    | 62      |         |                    | 62      |         |                    | 62      |         |
| <b>Labs Reporting</b>    |                    | 62      |         |                    | 62      |         |                    | 62      |         |                    | 62      |         |                    | 62      |         |



## ALP Program - Participant Web Summary Report - Cycle 29

|                    |         |         |                    |         |         |                    |         |         |                    |         |         |                    |         |         |
|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|
| 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 117) | in the Soil pH & EC Property Groups |       |      |             |       |      |             |       |      |             |       |      | Data units: Unit |       |      |
|----------------------------------|-------------------------------------|-------|------|-------------|-------|------|-------------|-------|------|-------------|-------|------|------------------|-------|------|
|                                  | SRSSRS1601                          |       |      | SRSSRS1602  |       |      | SRSSRS1603  |       |      | SRSSRS1604  |       |      | SRSSRS1605       |       |      |
| <b>83L8FJ</b>                    | <b>8.16</b>                         | 0.51  | 0.22 | <b>7.81</b> | 0.52  | 0.17 | <b>5.88</b> | 0.10  | 0.48 | <b>5.75</b> | 0.27  | 0.36 | <b>4.78</b>      | 0.13  | 0.40 |
|                                  |                                     | 0.11  | 0.02 |             | 0.15  | 0.01 |             | 0.03  | 0.03 |             | 0.08  | 0.02 |                  | 0.03  | 0.03 |
| <b>644GFL</b>                    | <b>8.05</b>                         | 0.03  | 0.08 | <b>7.64</b> | -0.09 | 0.29 | <b>5.84</b> | -0.06 | 0.00 | <b>5.74</b> | 0.24  | 0.24 | <b>4.87</b>      | 0.47  | 0.17 |
|                                  |                                     | 0.01  | 0.01 |             | -0.03 | 0.02 |             | -0.02 | 0.00 |             | 0.07  | 0.02 |                  | 0.12  | 0.01 |
| <b>33JQFQ</b>                    | <b>8.12</b>                         | 0.35  | 0.22 | <b>7.77</b> | 0.38  | 0.00 | <b>5.65</b> | -0.82 | 0.43 | <b>5.53</b> | -0.46 | 0.58 | <b>4.55</b>      | -0.78 | 0.86 |
|                                  |                                     | 0.08  | 0.02 |             | 0.11  | 0.00 |             | -0.21 | 0.03 |             | -0.14 | 0.04 |                  | -0.20 | 0.06 |
| <b>9JP2MJ</b>                    | <b>7.83</b>                         | -0.98 | 0.81 | <b>7.50</b> | -0.59 | 1.67 | <b>5.47</b> | -1.56 | 0.93 | <b>5.33</b> | -1.12 | 0.89 | <b>4.37</b>      | -1.52 | 0.87 |
|                                  |                                     | -0.21 | 0.06 |             | -0.17 | 0.10 |             | -0.39 | 0.06 |             | -0.34 | 0.06 |                  | -0.38 | 0.06 |
| <b>FKH3T9</b>                    | <b>8.03</b>                         | -0.06 | 1.06 | <b>7.29</b> | -1.36 | 1.13 | <b>6.08</b> | 0.90  | 0.70 | <b>5.69</b> | 0.06  | 0.53 | <b>4.71</b>      | -0.14 | 2.78 |
|                                  |                                     | -0.01 | 0.08 |             | -0.38 | 0.07 |             | 0.23  | 0.04 |             | 0.02  | 0.03 |                  | -0.04 | 0.18 |
| <b>3KE7UV</b>                    | <b>8.03</b>                         | -0.06 | 0.22 | <b>7.59</b> | -0.27 | 0.44 | <b>5.65</b> | -0.83 | 0.09 | <b>5.45</b> | -0.74 | 0.56 | <b>4.52</b>      | -0.92 | 0.23 |
|                                  |                                     | -0.01 | 0.02 |             | -0.08 | 0.03 |             | -0.21 | 0.01 |             | -0.22 | 0.04 |                  | -0.23 | 0.02 |
| <b>2WG8UU</b>                    | <b>7.52</b>                         | -2.44 | 1.42 | <b>7.27</b> | -1.43 | 1.83 | <b>5.62</b> | -0.93 | 1.23 | <b>5.44</b> | -0.77 | 0.53 | <b>4.28</b>      | -1.86 | 1.92 |
|                                  |                                     | -0.53 | 0.10 |             | -0.40 | 0.11 |             | -0.23 | 0.08 |             | -0.23 | 0.03 |                  | -0.47 | 0.13 |
| <b>JBF2VE</b>                    | <b>8.04</b>                         | -0.03 | 0.98 | <b>7.54</b> | -0.46 | 0.58 | <b>5.66</b> | -0.78 | 1.54 | <b>5.46</b> | -0.71 | 0.24 | <b>4.61</b>      | -0.55 | 1.34 |
|                                  |                                     | -0.01 | 0.07 |             | -0.13 | 0.04 |             | -0.20 | 0.10 |             | -0.22 | 0.02 |                  | -0.14 | 0.09 |
| <b>6B3QZT</b>                    | <b>7.87</b>                         | -0.83 | 1.08 | <b>7.71</b> | 0.17  | 0.51 | <b>6.10</b> | 1.00  | 0.97 | <b>5.89</b> | 0.71  | 0.62 | <b>4.77</b>      | 0.09  | 0.90 |
|                                  |                                     | -0.18 | 0.08 |             | 0.05  | 0.03 |             | 0.25  | 0.06 |             | 0.22  | 0.04 |                  | 0.02  | 0.06 |
| <b>AM2DUK</b>                    | <b>7.97</b>                         | -0.37 | 2.93 | <b>7.80</b> | 0.48  | 2.88 | <b>6.47</b> | 2.45  | 0.93 | <b>6.97</b> | 4.30  | 3.87 | <b>5.70</b>      | 3.80  | 1.51 |
|                                  |                                     | -0.08 | 0.21 |             | 0.14  | 0.17 |             | 0.61  | 0.06 |             | 1.30  | 0.25 |                  | 0.95  | 0.10 |
| <b>TBLXV2</b>                    | <b>8.20</b>                         | 0.71  | 2.44 | <b>7.80</b> | 0.48  | 1.67 | <b>5.80</b> | -0.22 | 0.00 | <b>5.50</b> | -0.57 | 1.54 | <b>4.67</b>      | -0.33 | 0.87 |
|                                  |                                     | 0.15  | 0.17 |             | 0.14  | 0.10 |             | -0.06 | 0.00 |             | -0.17 | 0.10 |                  | -0.08 | 0.06 |
| <b>98UYZG</b>                    | <b>8.14</b>                         | 0.43  | 0.49 | <b>7.84</b> | 0.64  | 1.17 | <b>6.26</b> | 1.64  | 3.61 | <b>5.91</b> | 0.80  | 0.36 | <b>5.06</b>      | 1.23  | 1.30 |
|                                  |                                     | 0.09  | 0.03 |             | 0.18  | 0.07 |             | 0.41  | 0.22 |             | 0.24  | 0.02 |                  | 0.31  | 0.09 |
| <b>RCXBZX</b>                    | <b>7.88</b>                         | -0.75 | 0.41 | <b>7.32</b> | -1.24 | 0.76 | <b>5.72</b> | -0.54 | 0.58 | <b>5.64</b> | -0.09 | 0.36 | <b>4.69</b>      | -0.25 | 0.35 |
|                                  |                                     | -0.16 | 0.03 |             | -0.35 | 0.05 |             | -0.14 | 0.04 |             | -0.03 | 0.02 |                  | -0.06 | 0.02 |
| <b>HUC6ZA</b>                    | <b>8.02</b>                         | -0.11 | 0.22 | <b>7.74</b> | 0.26  | 0.10 | <b>5.93</b> | 0.29  | 0.09 | <b>5.81</b> | 0.45  | 0.09 | <b>4.79</b>      | 0.17  | 0.15 |
|                                  |                                     | -0.02 | 0.02 |             | 0.07  | 0.01 |             | 0.07  | 0.01 |             | 0.14  | 0.01 |                  | 0.04  | 0.01 |
| <b>YTJ7GT</b>                    | <b>8.07</b>                         | 0.11  |      | <b>7.67</b> | 0.02  |      | <b>5.70</b> | -0.62 |      | <b>5.49</b> | -0.60 |      | <b>4.75</b>      | 0.01  |      |
|                                  |                                     | 0.02  | 0.00 |             | 0.01  | 0.00 |             | -0.16 | 0.00 |             | -0.18 | 0.00 |                  | 0.00  | 0.00 |
| <b>YPJVKT</b>                    | <b>7.85</b>                         | -0.92 | 0.49 | <b>7.49</b> | -0.63 | 0.29 | <b>5.89</b> | 0.13  | 0.65 | <b>5.73</b> | 0.19  | 0.71 | <b>4.86</b>      | 0.43  | 0.61 |
|                                  |                                     | -0.20 | 0.04 |             | -0.18 | 0.02 |             | 0.03  | 0.04 |             | 0.06  | 0.05 |                  | 0.11  | 0.04 |
| <b>WYZRCU</b>                    | <b>8.34</b>                         | 1.34  | 0.16 | <b>7.95</b> | 1.01  | 0.25 | <b>6.01</b> | 0.61  | 0.41 | <b>5.88</b> | 0.69  | 0.15 | <b>4.86</b>      | 0.46  | 0.83 |
|                                  |                                     | 0.29  | 0.01 |             | 0.28  | 0.02 |             | 0.15  | 0.03 |             | 0.21  | 0.01 |                  | 0.12  | 0.06 |
| <b>BHL3GF</b>                    | <b>8.38</b>                         | 1.55  | 0.33 | <b>7.80</b> | 0.47  | 0.25 | <b>5.82</b> | -0.13 | 0.19 | <b>5.65</b> | -0.06 | 0.24 | <b>4.79</b>      | 0.15  | 0.17 |
|                                  |                                     | 0.34  | 0.02 |             | 0.13  | 0.02 |             | -0.03 | 0.01 |             | -0.02 | 0.02 |                  | 0.04  | 0.01 |
| <b>K6MG64</b>                    | <b>8.10</b>                         | 0.25  | 0.42 | <b>7.66</b> | -0.02 | 0.33 | <b>6.06</b> | 0.82  | 0.32 | <b>5.54</b> | -0.44 | 0.46 | <b>4.73</b>      | -0.09 | 0.23 |
|                                  |                                     | 0.05  | 0.03 |             | -0.01 | 0.02 |             | 0.21  | 0.02 |             | -0.13 | 0.03 |                  | -0.02 | 0.02 |
| <b>ZZZ3WM</b>                    | <b>8.17</b>                         | 0.58  | 0.45 | <b>7.83</b> | 0.58  | 0.35 | <b>5.91</b> | 0.22  | 0.00 | <b>5.69</b> | 0.06  | 0.41 | <b>4.75</b>      | -0.01 | 0.48 |
|                                  |                                     | 0.13  | 0.03 |             | 0.16  | 0.02 |             | 0.06  | 0.00 |             | 0.02  | 0.03 |                  | 0.00  | 0.03 |



## ALP Program - Participant Web Summary Report - Cycle 29

|                          | 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>PHEWWY</b>            | <b>8.41</b>        | 1.68    |         | <b>6.80</b>        | -3.11   |         | <b>5.82</b>        | -0.14   |         | <b>5.57</b>        | -0.34   |         | <b>4.49</b>        | -1.03   |         |
|                          |                    | 0.36    | 0.00    |                    | -0.87   | 0.00    |                    | -0.04   | 0.00    |                    | -0.10   | 0.00    |                    | -0.26   | 0.00    |
| <b>X3EMTR</b>            | <b>7.89</b>        | -0.74   | 0.45    | <b>7.49</b>        | -0.63   | 0.44    | <b>5.87</b>        | 0.06    | 0.58    | <b>6.02</b>        | 1.15    | 0.88    | <b>4.86</b>        | 0.43    | 0.17    |
|                          |                    | -0.16   | 0.03    |                    | -0.18   | 0.03    |                    | 0.02    | 0.04    |                    | 0.35    | 0.06    |                    | 0.11    | 0.01    |
| <b>Grand Median</b>      |                    | 8.05    |         |                    | 7.67    |         |                    | 5.86    |         |                    | 5.67    |         |                    | 4.75    |         |
| <b>Median Abs Dev</b>    |                    | 0.12    |         |                    | 0.14    |         |                    | 0.15    |         |                    | 0.16    |         |                    | 0.11    |         |
| <b>Avg Within Lab SD</b> |                    | 0.07    |         |                    | 0.06    |         |                    | 0.06    |         |                    | 0.06    |         |                    | 0.07    |         |
| <b>Labs Included</b>     |                    | 22      |         |                    | 22      |         |                    | 22      |         |                    | 22      |         |                    | 22      |         |
| <b>Labs Reporting</b>    |                    | 22      |         |                    | 22      |         |                    | 22      |         |                    | 22      |         |                    | 22      |         |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 <sub>2</sub> (SubTestCode 118) | in the Soil pH & EC Property Groups |       |      |             |       |      |             |       |      |             |       |      |             |       | Data units: Unit |  |  |
|--|-------------------------------------|-------|------|-------------|-------|------|-------------|-------|------|-------------|-------|------|-------------|-------|------------------|--|--|
|  | SRSSRS1601                          |       |      | SRSSRS1602  |       |      | SRSSRS1603  |       |      | SRSSRS1604  |       |      | SRSSRS1605  |       |                  |  |  |
| <b>HRQGNA</b>                                      | <b>7.43</b>                         | -0.15 | 1.14 | <b>6.93</b> | -1.37 | 1.01 | <b>5.37</b> | -0.28 | 1.39 | <b>5.20</b> | -1.21 | 2.18 | <b>4.40</b> | 0.09  | 0.00             |  |  |
|  |                                     | -0.03 | 0.06 |             | -0.24 | 0.06 |             | -0.05 | 0.06 |             | -0.12 | 0.10 |             | 0.01  | 0.00             |  |  |
| <b>83L8FJ</b>                                      | <b>7.56</b>                         | 0.53  | 0.41 | <b>7.23</b> | 0.34  | 0.20 | <b>5.48</b> | 0.38  | 0.14 | <b>5.39</b> | 0.71  | 0.22 | <b>4.38</b> | -0.09 | 0.53             |  |  |
|  |                                     | 0.10  | 0.02 |             | 0.06  | 0.01 |             | 0.06  | 0.01 |             | 0.07  | 0.01 |             | -0.01 | 0.02             |  |  |
| <b>644GFL</b>                                      | <b>7.42</b>                         | -0.24 | 0.11 | <b>7.11</b> | -0.38 | 0.10 | <b>5.50</b> | 0.50  | 0.61 | <b>5.39</b> | 0.71  | 0.00 | <b>4.44</b> | 0.41  | 0.53             |  |  |
|  |                                     | -0.04 | 0.01 |             | -0.07 | 0.01 |             | 0.08  | 0.03 |             | 0.07  | 0.00 |             | 0.06  | 0.02             |  |  |
| <b>2GK3BP</b>                                      | <b>7.48</b>                         | 0.09  | 0.30 | <b>7.18</b> | 0.04  | 0.46 | <b>5.36</b> | -0.32 | 1.35 | <b>5.29</b> | -0.30 | 1.09 | <b>4.25</b> | -1.01 | 1.49             |  |  |
|  |                                     | 0.02  | 0.02 |             | 0.01  | 0.03 |             | -0.05 | 0.06 |             | -0.03 | 0.05 |             | -0.14 | 0.06             |  |  |
| <b>F92H9C</b>                                      | <b>7.40</b>                         | -0.33 | 0.52 | <b>7.13</b> | -0.25 | 0.30 | <b>5.37</b> | -0.26 | 0.24 | <b>5.32</b> | 0.03  | 0.13 | <b>4.22</b> | -1.23 | 0.29             |  |  |
|  |                                     | -0.06 | 0.03 |             | -0.04 | 0.02 |             | -0.04 | 0.01 |             | 0.00  | 0.01 |             | -0.17 | 0.01             |  |  |
| <b>XWTMKR</b>                                      | <b>7.53</b>                         | 0.37  | 0.50 | <b>7.19</b> | 0.08  | 0.62 | <b>5.38</b> | -0.20 | 0.42 | <b>5.27</b> | -0.54 | 0.88 | <b>4.70</b> | 2.31  | 2.06             |  |  |
|  |                                     | 0.07  | 0.03 |             | 0.01  | 0.04 |             | -0.03 | 0.02 |             | -0.05 | 0.04 |             | 0.31  | 0.08             |  |  |
| <b>FKH3T9</b>                                      | <b>6.92</b>                         | -2.98 | 1.73 | <b>6.72</b> | -2.59 | 3.00 | <b>6.25</b> | 5.02  | 2.38 | <b>5.35</b> | 0.27  | 0.55 | <b>4.45</b> | 0.46  | 2.69             |  |  |
|  |                                     | -0.54 | 0.09 |             | -0.45 | 0.17 |             | 0.84  | 0.10 |             | 0.03  | 0.03 |             | 0.06  | 0.11             |  |  |
| <b>DFA3JC</b>                                      | <b>7.57</b>                         | 0.60  | 0.00 | <b>7.22</b> | 0.29  | 0.10 | <b>5.34</b> | -0.44 | 0.00 | <b>5.32</b> | 0.00  | 0.00 | <b>4.23</b> | -1.21 | 0.15             |  |  |
|  |                                     | 0.11  | 0.00 |             | 0.05  | 0.01 |             | -0.07 | 0.00 |             | 0.00  | 0.00 |             | -0.16 | 0.01             |  |  |
| <b>K2N3HD</b>                                      | <b>7.63</b>                         | 0.95  | 0.41 | <b>7.32</b> | 0.86  | 0.10 | <b>5.41</b> | -0.04 | 0.37 | <b>5.32</b> | 0.00  | 0.22 | <b>4.31</b> | -0.59 | 0.44             |  |  |
|  |                                     | 0.17  | 0.02 |             | 0.15  | 0.01 |             | -0.01 | 0.02 |             | 0.00  | 0.01 |             | -0.08 | 0.02             |  |  |
| <b>RMZ998</b>                                      | <b>7.40</b>                         | -0.33 | 1.97 | <b>6.93</b> | -1.37 | 1.01 | <b>5.23</b> | -1.08 | 1.39 | <b>5.17</b> | -1.55 | 2.51 | <b>4.40</b> | 0.09  | 0.00             |  |  |
|  |                                     | -0.06 | 0.10 |             | -0.24 | 0.06 |             | -0.18 | 0.06 |             | -0.15 | 0.12 |             | 0.01  | 0.00             |  |  |
| <b>LZMPAC</b>                                      | <b>7.43</b>                         | -0.18 | 1.31 | <b>7.13</b> | -0.27 | 0.83 | <b>5.46</b> | 0.26  | 0.28 | <b>5.43</b> | 1.11  | 0.95 | <b>4.42</b> | 0.24  | 0.67             |  |  |
|  |                                     | -0.03 | 0.07 |             | -0.05 | 0.05 |             | 0.04  | 0.01 |             | 0.11  | 0.04 |             | 0.03  | 0.03             |  |  |
| <b>GAPFPH</b>                                      | <b>7.60</b>                         | 0.79  | 0.46 | <b>7.27</b> | 0.55  | 0.00 | <b>5.46</b> | 0.28  | 0.64 | <b>5.36</b> | 0.37  | 0.50 | <b>4.43</b> | 0.31  | 0.51             |  |  |
|  |                                     | 0.14  | 0.02 |             | 0.10  | 0.00 |             | 0.05  | 0.03 |             | 0.04  | 0.02 |             | 0.04  | 0.02             |  |  |
| <b>L2J8CD</b>                                      | <b>7.60</b>                         | 0.79  | 0.60 | <b>7.31</b> | 0.76  | 0.37 | <b>5.42</b> | 0.04  | 0.48 | <b>5.21</b> | -1.11 | 0.22 | <b>4.19</b> | -1.46 | 0.39             |  |  |
|  |                                     | 0.14  | 0.03 |             | 0.13  | 0.02 |             | 0.01  | 0.02 |             | -0.11 | 0.01 |             | -0.20 | 0.02             |  |  |
| <b>79D4JP</b>                                      | <b>7.44</b>                         | -0.09 | 0.50 | <b>7.06</b> | -0.67 | 0.62 | <b>5.52</b> | 0.62  | 0.70 | <b>5.28</b> | -0.37 | 0.33 | <b>4.52</b> | 0.98  | 1.17             |  |  |
|  |                                     | -0.02 | 0.03 |             | -0.12 | 0.04 |             | 0.10  | 0.03 |             | -0.04 | 0.02 |             | 0.13  | 0.05             |  |  |
| <b>98UYZG</b>                                      | <b>7.33</b>                         | -0.69 | 2.11 | <b>7.24</b> | 0.38  | 0.18 | <b>5.69</b> | 1.68  | 1.57 | <b>5.61</b> | 2.93  | 0.00 | <b>4.36</b> | -0.24 | 0.96             |  |  |
|  |                                     | -0.13 | 0.11 |             | 0.07  | 0.01 |             | 0.28  | 0.07 |             | 0.29  | 0.00 |             | -0.03 | 0.04             |  |  |
| <b>LVRZT6</b>                                      | <b>7.60</b>                         | 0.77  | 0.00 | <b>7.23</b> | 0.34  | 1.01 | <b>5.43</b> | 0.12  | 1.39 | <b>5.27</b> | -0.54 | 1.26 | <b>4.30</b> | -0.66 | 0.00             |  |  |
|  |                                     | 0.14  | 0.00 |             | 0.06  | 0.06 |             | 0.02  | 0.06 |             | -0.05 | 0.06 |             | -0.09 | 0.00             |  |  |
| <b>RCXBZX</b>                                      | <b>7.12</b>                         | -1.88 | 0.75 | <b>6.90</b> | -1.56 | 1.69 | <b>5.32</b> | -0.54 | 0.50 | <b>5.30</b> | -0.24 | 0.33 | <b>4.30</b> | -0.69 | 0.53             |  |  |
|  |                                     | -0.34 | 0.04 |             | -0.27 | 0.10 |             | -0.09 | 0.02 |             | -0.02 | 0.02 |             | -0.09 | 0.02             |  |  |
| <b>DURWNB</b>                                      | <b>7.53</b>                         | 0.40  | 1.14 | <b>7.17</b> | -0.04 | 1.01 | <b>5.40</b> | -0.08 | 0.00 | <b>5.33</b> | 0.13  | 1.26 | <b>4.40</b> | 0.09  | 0.00             |  |  |
|  |                                     | 0.07  | 0.06 |             | -0.01 | 0.06 |             | -0.01 | 0.00 |             | 0.01  | 0.06 |             | 0.01  | 0.00             |  |  |



## ALP Program - Participant Web Summary Report - Cycle 29

|                          | 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>Grand Median</b>      |                    | 7.46    |         |                    | 7.17    |         |                    | 5.41    |         |                    | 5.32    |         |                    | 4.39    |         |
| <b>Median Abs Dev</b>    |                    | 0.09    |         |                    | 0.07    |         |                    | 0.05    |         |                    | 0.05    |         |                    | 0.07    |         |
| <b>Avg Within Lab SD</b> |                    | 0.05    |         |                    | 0.06    |         |                    | 0.04    |         |                    | 0.05    |         |                    | 0.04    |         |
| <b>Labs Included</b>     |                    | 18      |         |                    | 18      |         |                    | 18      |         |                    | 18      |         |                    | 18      |         |
| <b>Labs Reporting</b>    |                    | 18      |         |                    | 18      |         |                    | 18      |         |                    | 18      |         |                    | 18      |         |





## ALP Program - Participant Web Summary Report - Cycle 29

|                    |         |         |                    |         |         |                    |         |         |                    |         |         |                    |         |         |
|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|
| 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 CaCl2 (SubTestCode 119) | in the Soil pH & EC Property Groups |       |      |             |       |      |             |       |      |             |       |      | Data units: Unit |       |      |
|--|-------------------------------------|-------|------|-------------|-------|------|-------------|-------|------|-------------|-------|------|------------------|-------|------|
|  | SRSSRS1601                          |       |      | SRSSRS1602  |       |      | SRSSRS1603  |       |      | SRSSRS1604  |       |      | SRSSRS1605       |       |      |
| <b>644GFL</b>                          | <b>7.51</b>                         | 0.58  | 0.52 | <b>7.12</b> | 0.17  | 0.29 | <b>5.52</b> | -0.15 | 0.21 | <b>5.43</b> | 0.80  | 0.37 | <b>4.50</b>      | 1.00  | 0.37 |
|  |                                     | 0.16  | 0.06 |             | 0.03  | 0.03 |             | -0.02 | 0.01 |             | 0.09  | 0.01 |                  | 0.14  | 0.02 |
| <b>FKH3T9</b>                          | <b>6.75</b>                         | -2.14 | 1.72 | <b>6.80</b> | -1.86 | 0.63 | <b>5.56</b> | 0.15  | 1.06 | <b>5.46</b> | 1.04  | 2.49 | <b>4.52</b>      | 1.13  | 1.78 |
|  |                                     | -0.60 | 0.19 |             | -0.30 | 0.06 |             | 0.02  | 0.06 |             | 0.12  | 0.08 |                  | 0.15  | 0.10 |
| <b>JBF2VE</b>                          | <b>7.27</b>                         | -0.26 | 0.10 | <b>6.89</b> | -1.28 | 0.11 | <b>5.27</b> | -2.46 | 0.18 | <b>5.15</b> | -1.74 | 1.29 | <b>4.22</b>      | -1.08 | 0.49 |
|  |                                     | -0.07 | 0.01 |             | -0.21 | 0.01 |             | -0.27 | 0.01 |             | -0.19 | 0.04 |                  | -0.15 | 0.03 |
| <b>XHNEVW</b>                          | <b>7.53</b>                         | 0.68  | 0.28 | <b>7.23</b> | 0.85  | 0.29 | <b>5.46</b> | -0.73 | 1.11 | <b>5.35</b> | 0.05  | 0.32 | <b>4.36</b>      | -0.06 | 0.11 |
|  |                                     | 0.19  | 0.03 |             | 0.14  | 0.03 |             | -0.08 | 0.06 |             | 0.01  | 0.01 |                  | -0.01 | 0.01 |
| <b>98UYZG</b>                          | <b>7.33</b>                         | -0.05 | 0.95 | <b>7.21</b> | 0.68  | 0.18 | <b>5.62</b> | 0.73  | 1.79 | <b>5.49</b> | 1.35  | 0.80 | <b>4.37</b>      | 0.06  | 1.23 |
|  |                                     | -0.02 | 0.11 |             | 0.11  | 0.02 |             | 0.08  | 0.10 |             | 0.15  | 0.03 |                  | 0.01  | 0.07 |
| <b>RCXBZX</b>                          | <b>7.11</b>                         | -0.83 | 0.05 | <b>6.95</b> | -0.93 | 0.24 | <b>5.38</b> | -1.43 | 0.28 | <b>5.32</b> | -0.26 | 0.49 | <b>4.33</b>      | -0.26 | 0.19 |
|  |                                     | -0.23 | 0.01 |             | -0.15 | 0.02 |             | -0.16 | 0.02 |             | -0.03 | 0.02 |                  | -0.04 | 0.01 |
| <b>HUC6ZA</b>                          | <b>7.54</b>                         | 0.70  | 0.09 | <b>7.17</b> | 0.43  | 0.07 | <b>5.58</b> | 0.36  | 0.18 | <b>5.34</b> | -0.05 | 0.32 | <b>4.29</b>      | -0.53 | 0.11 |
|  |                                     | 0.20  | 0.01 |             | 0.07  | 0.01 |             | 0.04  | 0.01 |             | -0.01 | 0.01 |                  | -0.07 | 0.01 |
| <b>YPJVKT</b>                          | <b>7.36</b>                         | 0.05  | 0.09 | <b>7.07</b> | -0.17 | 0.20 | <b>5.56</b> | 0.18  | 0.83 | <b>5.45</b> | 0.92  | 0.18 | <b>4.41</b>      | 0.31  | 0.28 |
|  |                                     | 0.02  | 0.01 |             | -0.03 | 0.02 |             | 0.02  | 0.05 |             | 0.10  | 0.01 |                  | 0.04  | 0.02 |
| <b>BHL3GF</b>                          | <b>7.60</b>                         | 0.93  | 0.05 | <b>7.13</b> | 0.19  | 0.96 | <b>5.56</b> | 0.18  | 1.89 | <b>5.33</b> | -0.14 | 0.96 | <b>4.36</b>      | -0.06 | 0.47 |
|  |                                     | 0.26  | 0.01 |             | 0.03  | 0.08 |             | 0.02  | 0.10 |             | -0.02 | 0.03 |                  | -0.01 | 0.03 |
| <b>C8H8XB</b>                          | <b>7.20</b>                         | -0.52 | 2.40 | <b>7.07</b> | -0.19 | 2.89 | <b>5.50</b> | -0.36 |      | <b>5.30</b> | -0.41 | 0.00 | <b>4.67</b>      | 2.24  | 2.14 |
|  |                                     | -0.15 | 0.26 |             | -0.03 | 0.25 |             | -0.04 | 0.00 |             | -0.05 | 0.00 |                  | 0.30  | 0.12 |
| <b>Grand Median</b>                    |                                     | 7.35  |      | 7.10        |       |      | 5.54        |       |      | 5.35        |       |      | 4.37             |       |      |
| <b>Median Abs Dev</b>                  |                                     | 0.18  |      | 0.09        |       |      | 0.04        |       |      | 0.07        |       |      | 0.06             |       |      |
| <b>Avg Within Lab SD</b>               |                                     | 0.11  |      | 0.09        |       |      | 0.06        |       |      | 0.03        |       |      | 0.05             |       |      |
| <b>Labs Included</b>                   |                                     | 10    |      | 10          |       |      | 10          |       |      | 10          |       |      | 10               |       |      |
| <b>Labs Reporting</b>                  |                                     | 10    |      | 10          |       |      | 10          |       |      | 10          |       |      | 10               |       |      |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 120) | in the Soil pH & EC Property Groups |      |             |      |             |      |             |      | Data units: dS/m |       |
|-------------------------------------|-------------------------------------|------|-------------|------|-------------|------|-------------|------|------------------|-------|
| SRSSRS1601                          | SRSSRS1602                          |      | SRSSRS1603  |      | SRSSRS1604  |      | SRSSRS1605  |      |                  |       |
| <b>2WG8UU</b>                       | <b>0.10</b>                         | 1.60 | <b>0.10</b> | 0.91 | <b>0.18</b> | 1.53 | <b>0.23</b> | 1.65 | <b>0.09</b>      | 0.49  |
|                                     |                                     | 0.01 |             | 0.01 |             | 0.01 |             | 0.01 |                  | 0.00  |
| <b>ZVM3ZV</b>                       | <b>0.13</b>                         | 0.28 | <b>0.15</b> | 0.00 | <b>0.20</b> | 0.09 | <b>0.26</b> | 0.31 | <b>0.09</b>      | 0.00  |
|                                     |                                     | 0.00 |             | 0.00 |             | 0.00 |             | 0.00 |                  | 0.00  |
| <b>6B3QZT</b>                       | <b>0.14</b>                         | 0.61 | <b>0.17</b> | 1.48 | <b>0.19</b> | 0.81 | <b>0.25</b> | 0.43 | <b>0.09</b>      | 1.66  |
|                                     |                                     | 0.00 |             | 0.01 |             | 0.01 |             | 0.00 |                  | 0.00  |
| <b>Grand Median</b>                 |                                     | 0.13 |             | 0.15 |             | 0.19 |             | 0.25 |                  | 0.086 |
| <b>Median Abs Dev</b>               |                                     |      |             |      |             |      |             |      |                  |       |
| <b>Avg Within Lab SD</b>            |                                     | 0.00 |             | 0.01 |             | 0.01 |             | 0.00 |                  | 0.002 |
| <b>Labs Included</b>                |                                     | 3    |             | 3    |             | 3    |             | 3    |                  | 3     |
| <b>Labs Reporting</b>               |                                     | 3    |             | 3    |             | 3    |             | 3    |                  | 3     |



## ALP Program - Participant Web Summary Report - Cycle 29

|                    |         |         |                    |         |         |                    |         |         |                    |         |         |                    |         |         |
|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|
| 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 122) | in the Buffer pH, Lime Requirement Property Groups |       |      |             |       |      |             |       |      |             |       |      |             |       |      | Data units: Unit |
|---------------------------------|--|-------|------|-------------|-------|------|-------------|-------|------|-------------|-------|------|-------------|-------|------|------------------|
|                                 | SRSSRS1601   |       |      | SRSSRS1602  |       |      | SRSSRS1603  |       |      | SRSSRS1604  |       |      | SRSSRS1605  |       |      |                  |
| <b>GZ63WD</b>                   | <b>7.37</b>  | -0.71 | 1.56 | <b>7.29</b> | -0.09 | 0.43 | <b>6.63</b> | 0.66  | 0.56 | <b>6.90</b> | 0.14  | 0.88 | <b>7.06</b> | 0.28  | 0.94 |                  |
|                                 |  | -0.06 | 0.03 |             | -0.01 | 0.02 |             | 0.10  | 0.02 |             | 0.02  | 0.02 |             | 0.04  | 0.03 |                  |
| <b>83L8FJ</b>                   | <b>7.44</b>  | 0.10  | 1.56 | <b>7.26</b> | -0.34 | 0.16 | <b>6.33</b> | -1.40 | 0.36 | <b>6.66</b> | -1.94 | 0.67 | <b>6.70</b> | -2.03 | 0.36 |                  |
|                                 |  | 0.01  | 0.03 |             | -0.03 | 0.01 |             | -0.21 | 0.01 |             | -0.22 | 0.01 |             | -0.32 | 0.01 |                  |
| <b>644GFL</b>                   | <b>7.45</b>  | 0.25  | 0.90 | <b>7.19</b> | -1.11 | 0.28 | <b>6.52</b> | -0.11 | 0.73 | <b>6.85</b> | -0.29 | 1.76 | <b>7.09</b> | 0.49  | 0.54 |                  |
|                                 |  | 0.02  | 0.02 |             | -0.11 | 0.01 |             | -0.02 | 0.02 |             | -0.03 | 0.03 |             | 0.08  | 0.02 |                  |
| <b>LM4ZL8</b>                   | <b>7.55</b>  | 1.40  | 0.34 | <b>7.38</b> | 0.87  | 1.38 | <b>6.66</b> | 0.84  | 0.97 | <b>6.94</b> | 0.49  | 1.76 | <b>7.04</b> | 0.13  | 0.54 |                  |
|                                 |  | 0.12  | 0.01 |             | 0.08  | 0.05 |             | 0.12  | 0.03 |             | 0.06  | 0.03 |             | 0.02  | 0.02 |                  |
| <b>XWTMKR</b>                   | <b>7.42</b>  | -0.10 | 0.90 | <b>7.32</b> | 0.23  | 0.98 | <b>6.58</b> | 0.27  | 1.84 | <b>6.94</b> | 0.49  | 0.33 | <b>6.99</b> | -0.17 | 0.94 |                  |
|                                 |  | -0.01 | 0.02 |             | 0.02  | 0.04 |             | 0.04  | 0.05 |             | 0.06  | 0.01 |             | -0.03 | 0.03 |                  |
| <b>DFA3JC</b>                   | <b>7.60</b>  | 1.94  | 0.00 | <b>7.46</b> | 1.75  | 0.00 | <b>6.61</b> | 0.50  | 0.00 | <b>6.85</b> | -0.32 | 0.00 | <b>6.92</b> | -0.62 | 0.00 |                  |
|                                 |  | 0.17  | 0.00 |             | 0.17  | 0.00 |             | 0.07  | 0.00 |             | -0.04 | 0.00 |             | -0.10 | 0.00 |                  |
| <b>R9KB47</b>                   | <b>7.48</b>  | 0.52  | 1.23 | <b>7.38</b> | 0.87  | 0.85 | <b>6.88</b> | 2.33  | 0.97 | <b>7.07</b> | 1.59  | 1.15 | <b>7.15</b> | 0.88  | 1.09 |                  |
|                                 |  | 0.05  | 0.02 |             | 0.08  | 0.03 |             | 0.34  | 0.03 |             | 0.18  | 0.02 |             | 0.14  | 0.03 |                  |
| <b>LZMPAC</b>                   | <b>7.38</b>  | -0.59 | 0.00 | <b>7.30</b> | 0.09  | 0.43 | <b>6.65</b> | 0.77  | 0.36 | <b>6.91</b> | 0.17  | 0.88 | <b>7.02</b> | 0.00  | 0.90 |                  |
|                                 |  | -0.05 | 0.00 |             | 0.01  | 0.02 |             | 0.11  | 0.01 |             | 0.02  | 0.02 |             | 0.00  | 0.03 |                  |
| <b>UNPG82</b>                   | <b>7.42</b>  | -0.17 | 1.71 | <b>7.32</b> | 0.27  | 0.28 | <b>6.50</b> | -0.27 | 0.42 | <b>6.89</b> | 0.00  | 0.88 | <b>7.11</b> | 0.58  | 1.14 |                  |
|                                 |  | -0.02 | 0.03 |             | 0.03  | 0.01 |             | -0.04 | 0.01 |             | 0.00  | 0.02 |             | 0.09  | 0.03 |                  |
| <b>XHNEVW</b>                   | <b>7.46</b>  | 0.29  | 0.34 | <b>7.26</b> | -0.34 | 0.16 | <b>6.43</b> | -0.70 | 0.42 | <b>6.89</b> | 0.06  | 0.33 | <b>7.10</b> | 0.51  | 0.21 |                  |
|                                 |  | 0.03  | 0.01 |             | -0.03 | 0.01 |             | -0.10 | 0.01 |             | 0.01  | 0.01 |             | 0.08  | 0.01 |                  |
| <b>4JGF2L</b>                   | <b>7.29</b>  | -1.67 | 0.90 | <b>7.19</b> | -1.15 | 0.16 | <b>6.44</b> | -0.66 | 0.63 | <b>6.64</b> | -2.14 | 0.58 | <b>6.72</b> | -1.92 | 0.74 |                  |
|                                 |  | -0.15 | 0.02 |             | -0.11 | 0.01 |             | -0.10 | 0.02 |             | -0.25 | 0.01 |             | -0.30 | 0.02 |                  |
| <b>C8H8XB</b>                   | <b>7.40</b>  | -0.36 | 0.00 | <b>7.20</b> | -1.01 | 2.79 | <b>6.50</b> | -0.25 | 0.00 | <b>6.80</b> | -0.75 | 0.00 | <b>6.93</b> | -0.53 | 2.05 |                  |
|                                 |  | -0.03 | 0.00 |             | -0.10 | 0.10 |             | -0.04 | 0.00 |             | -0.09 | 0.00 |             | -0.08 | 0.06 |                  |
| <b>DYXQH7</b>                   |  |       |      |             |       |      | <b>6.54</b> | 0.00  | 2.43 | <b>6.84</b> | -0.38 | 1.45 | <b>6.92</b> | -0.62 | 1.55 |                  |
|                                 |  |       |      |             |       |      |             | 0.00  | 0.07 |             | -0.04 | 0.03 |             | -0.10 | 0.04 |                  |
| <b>Grand Median</b>             |  | 7.43  |      | 7.30        |       |      | 6.54        |       |      | 6.89        |       |      | 7.02        |       |      |                  |
| <b>Median Abs Dev</b>           |  | 0.04  |      | 0.06        |       |      | 0.10        |       |      | 0.04        |       |      | 0.08        |       |      |                  |
| <b>Avg Within Lab SD</b>        |  | 0.02  |      | 0.04        |       |      | 0.03        |       |      | 0.02        |       |      | 0.03        |       |      |                  |
| <b>Labs Included</b>            |  | 12    |      | 12          |       |      | 13          |       |      | 13          |       |      | 13          |       |      |                  |
| <b>Labs Reporting</b>           |  | 12    |      | 12          |       |      | 13          |       |      | 13          |       |      | 13          |       |      |                  |



## ALP Program - Participant Web Summary Report - Cycle 29

|                    |         |         |                    |         |         |                    |         |         |                    |         |         |                    |         |         |
|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|
| 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 123) |             |       |      | in the Buffer pH, Lime Requirement Property Groups |       |      |             |       |      |             |       |      |             |       |      | Data units: Unit |  |
|------------------------------------|-------------|-------|------|--|-------|------|-------------|-------|------|-------------|-------|------|-------------|-------|------|------------------|--|
|                                    | SRSSRS1601  |       |      | SRSSRS1602   |       |      | SRSSRS1603  |       |      | SRSSRS1604  |       |      | SRSSRS1605  |       |      |                  |  |
| <b>YAA32W</b>                      | <b>7.40</b> | -0.62 | 2.23 | <b>7.30</b>  | -0.68 | 2.27 | <b>6.80</b> | 0.47  | 0.00 | <b>7.03</b> | 0.87  | 1.22 | <b>7.10</b> | 0.56  | 1.39 |                  |  |
|                                    |             | -0.04 | 0.10 |  | -0.05 | 0.10 |             | 0.07  | 0.00 |             | 0.13  | 0.06 |             | 0.07  | 0.10 |                  |  |
| <b>P9QWN3</b>                      | <b>7.07</b> | -5.38 | 1.29 | <b>7.00</b>  | -4.79 |      | <b>6.33</b> | -2.83 | 0.90 | <b>6.47</b> | -2.83 | 1.22 | <b>6.60</b> | -3.65 | 0.00 |                  |  |
|                                    |             | -0.38 | 0.06 |  | -0.35 | 0.00 |             | -0.40 | 0.06 |             | -0.43 | 0.06 |             | -0.43 | 0.00 |                  |  |
| <b>2GK3BP</b>                      | <b>7.44</b> | -0.05 | 0.39 | <b>7.32</b>  | -0.41 | 0.91 | <b>6.66</b> | -0.49 | 0.59 | <b>6.83</b> | -0.44 | 0.64 | <b>6.96</b> | -0.65 | 0.29 |                  |  |
|                                    |             | 0.00  | 0.02 |  | -0.03 | 0.04 |             | -0.07 | 0.04 |             | -0.07 | 0.03 |             | -0.08 | 0.02 |                  |  |
| <b>33JQFQ</b>                      | <b>7.40</b> | -0.57 | 1.29 | <b>7.24</b>  | -1.46 | 1.31 | <b>6.54</b> | -1.34 | 0.90 | <b>6.74</b> | -1.02 | 1.22 | <b>7.06</b> | 0.20  | 0.56 |                  |  |
|                                    |             | -0.04 | 0.06 |  | -0.11 | 0.06 |             | -0.19 | 0.06 |             | -0.16 | 0.06 |             | 0.02  | 0.04 |                  |  |
| <b>6BMKMN</b>                      | <b>7.43</b> | -0.14 | 1.29 | <b>7.33</b>  | -0.23 | 1.31 | <b>6.79</b> | 0.42  | 0.18 | <b>6.85</b> | -0.35 | 1.06 | <b>7.00</b> | -0.28 |      |                  |  |
|                                    |             | -0.01 | 0.06 |  | -0.02 | 0.06 |             | 0.06  | 0.01 |             | -0.05 | 0.05 |             | -0.03 | 0.00 |                  |  |
| <b>PFR9KY</b>                      | <b>7.40</b> | -0.57 | 1.73 | <b>7.36</b>  | 0.18  | 1.70 | <b>6.97</b> | 1.65  | 1.92 | <b>7.00</b> | 0.65  | 0.97 | <b>7.24</b> | 1.71  | 2.30 |                  |  |
|                                    |             | -0.04 | 0.08 |  | 0.01  | 0.08 |             | 0.23  | 0.12 |             | 0.10  | 0.05 |             | 0.20  | 0.17 |                  |  |
| <b>RMZ998</b>                      | <b>7.53</b> | 1.29  | 1.29 | <b>7.37</b>  | 0.23  | 1.31 | <b>6.83</b> | 0.71  | 3.24 | <b>7.07</b> | 1.09  | 1.22 | <b>7.20</b> | 1.41  | 2.40 |                  |  |
|                                    |             | 0.09  | 0.06 |  | 0.02  | 0.06 |             | 0.10  | 0.21 |             | 0.17  | 0.06 |             | 0.17  | 0.17 |                  |  |
| <b>3KE7UV</b>                      | <b>7.49</b> | 0.71  | 0.13 | <b>7.40</b>  | 0.73  | 0.26 | <b>6.73</b> | 0.00  | 0.09 | <b>6.76</b> | -0.89 | 0.32 | <b>7.03</b> | 0.00  | 0.35 |                  |  |
|                                    |             | 0.05  | 0.01 |  | 0.05  | 0.01 |             | 0.00  | 0.01 |             | -0.14 | 0.02 |             | 0.00  | 0.03 |                  |  |
| <b>LZMPAC</b>                      | <b>7.50</b> | 0.76  | 0.26 | <b>7.41</b>  | 0.82  | 0.60 | <b>6.80</b> | 0.45  | 0.86 | <b>6.99</b> | 0.59  | 0.42 | <b>7.13</b> | 0.79  | 0.29 |                  |  |
|                                    |             | 0.05  | 0.01 |  | 0.06  | 0.03 |             | 0.06  | 0.06 |             | 0.09  | 0.02 |             | 0.09  | 0.02 |                  |  |
| <b>738BNU</b>                      | <b>7.50</b> | 0.86  | 0.64 | <b>7.42</b>  | 0.91  | 0.94 | <b>6.88</b> | 1.06  | 0.50 | <b>6.97</b> | 0.48  | 3.03 | <b>7.13</b> | 0.84  | 2.02 |                  |  |
|                                    |             | 0.06  | 0.03 |  | 0.07  | 0.04 |             | 0.15  | 0.03 |             | 0.07  | 0.14 |             | 0.10  | 0.15 |                  |  |
| <b>T84DB7</b>                      | <b>7.49</b> | 0.62  | 0.84 | <b>7.40</b>  | 0.68  | 0.00 | <b>6.72</b> | -0.12 | 0.70 | <b>7.00</b> | 0.63  | 0.85 | <b>7.01</b> | -0.22 | 0.08 |                  |  |
|                                    |             | 0.04  | 0.04 |  | 0.05  | 0.00 |             | -0.02 | 0.05 |             | 0.10  | 0.04 |             | -0.03 | 0.01 |                  |  |
| <b>L2J8CD</b>                      | <b>7.44</b> | 0.00  | 0.13 | <b>7.36</b>  | 0.18  | 0.13 | <b>6.64</b> | -0.68 | 0.32 | <b>6.88</b> | -0.11 | 0.12 | <b>6.98</b> | -0.48 | 0.45 |                  |  |
|                                    |             | 0.00  | 0.01 |  | 0.01  | 0.01 |             | -0.10 | 0.02 |             | -0.02 | 0.01 |             | -0.06 | 0.03 |                  |  |
| <b>8CMGZN</b>                      | <b>7.40</b> | -0.62 | 0.22 | <b>7.31</b>  | -0.50 | 0.13 | <b>6.67</b> | -0.45 | 0.16 | <b>6.83</b> | -0.46 | 0.21 | <b>6.97</b> | -0.56 | 0.08 |                  |  |
|                                    |             | -0.04 | 0.01 |  | -0.04 | 0.01 |             | -0.06 | 0.01 |             | -0.07 | 0.01 |             | -0.07 | 0.01 |                  |  |
| <b>PWR8L8</b>                      | <b>7.44</b> | 0.00  | 0.13 | <b>7.30</b>  | -0.73 | 0.13 | <b>6.56</b> | -1.22 | 0.31 | <b>6.81</b> | -0.59 | 0.37 | <b>7.06</b> | 0.25  | 0.21 |                  |  |
|                                    |             | 0.00  | 0.01 |  | -0.05 | 0.01 |             | -0.17 | 0.02 |             | -0.09 | 0.02 |             | 0.03  | 0.02 |                  |  |
| <b>VBVLAX</b>                      | <b>7.37</b> | -1.10 | 1.29 | <b>7.33</b>  | -0.23 | 1.31 | <b>6.77</b> | 0.24  | 0.90 | <b>6.87</b> | -0.22 | 1.22 | <b>7.00</b> | -0.28 |      |                  |  |
|                                    |             | -0.08 | 0.06 |  | -0.02 | 0.06 |             | 0.03  | 0.06 |             | -0.03 | 0.06 |             | -0.03 | 0.00 |                  |  |
| <b>TJBJ2Y</b>                      | <b>7.46</b> | 0.19  | 0.13 | <b>7.35</b>  | 0.00  | 0.00 | <b>6.75</b> | 0.09  | 0.09 | <b>6.91</b> | 0.07  | 0.00 | <b>7.10</b> | 0.53  | 0.08 |                  |  |
|                                    |             | 0.01  | 0.01 |  | 0.00  | 0.00 |             | 0.01  | 0.01 |             | 0.01  | 0.00 |             | 0.06  | 0.01 |                  |  |
| <b>49YVGP</b>                      | <b>7.50</b> | 0.81  | 1.16 | <b>7.43</b>  | 1.05  | 0.47 | <b>7.16</b> | 2.99  | 0.55 | <b>7.24</b> | 2.20  | 0.44 | <b>7.10</b> | 0.59  | 0.64 |                  |  |
|                                    |             | 0.06  | 0.05 |  | 0.08  | 0.02 |             | 0.42  | 0.04 |             | 0.34  | 0.02 |             | 0.07  | 0.05 |                  |  |
| <b>3BBBBQ</b>                      | <b>7.40</b> | -0.62 | 0.00 | <b>7.40</b>  | 0.68  | 0.00 | <b>6.70</b> | -0.24 | 0.00 | <b>6.90</b> | 0.00  | 0.00 | <b>7.00</b> | -0.28 |      |                  |  |
|                                    |             | -0.04 | 0.00 |  | 0.05  | 0.00 |             | -0.03 | 0.00 |             | 0.00  | 0.00 |             | -0.03 | 0.00 |                  |  |
| <b>4KCY3M</b>                      | <b>7.47</b> | 0.33  | 1.29 | <b>7.33</b>  | -0.23 | 1.31 | <b>6.73</b> | 0.00  | 0.90 | <b>6.90</b> | 0.00  | 0.00 | <b>7.03</b> | 0.00  | 0.80 |                  |  |
|                                    |             | 0.02  | 0.06 |  | -0.02 | 0.06 |             | 0.00  | 0.06 |             | 0.00  | 0.00 |             | 0.00  | 0.06 |                  |  |
| <b>VNJNRP</b>                      | <b>7.65</b> | 2.95  |      | <b>7.56</b>  | 2.87  |      | <b>6.76</b> | 0.19  |      | <b>7.23</b> | 2.16  |      | <b>7.41</b> | 3.18  |      |                  |  |
|                                    |             | 0.21  | 0.00 |  | 0.21  | 0.00 |             | 0.03  | 0.00 |             | 0.33  | 0.00 |             | 0.38  | 0.00 |                  |  |



## ALP Program - Participant Web Summary Report - Cycle 29

|                          | 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>Grand Median</b>      |                    | 7.44    |         |                    | 7.35    |         |                    | 6.73    |         |                    | 6.90    |         |                    | 7.03    |         |
| <b>Median Abs Dev</b>    |                    | 0.04    |         |                    | 0.05    |         |                    | 0.06    |         |                    | 0.09    |         |                    | 0.06    |         |
| <b>Avg Within Lab SD</b> |                    | 0.04    |         |                    | 0.04    |         |                    | 0.06    |         |                    | 0.05    |         |                    | 0.07    |         |
| <b>Labs Included</b>     |                    | 19      |         |                    | 19      |         |                    | 19      |         |                    | 19      |         |                    | 19      |         |
| <b>Labs Reporting</b>    |                    | 19      |         |                    | 19      |         |                    | 19      |         |                    | 19      |         |                    | 19      |         |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 124) | in the Buffer pH, Lime Requirement Property Groups |      |             |       |             |             |       |             |             |       | Data units: Unit |             |       |             |
|---|--|------|-------------|-------|-------------|-------------|-------|-------------|-------------|-------|------------------|-------------|-------|-------------|
| SRSSRS1601                              | SRSSRS1602   |      | SRSSRS1603  |       |             | SRSSRS1604  |       |             | SRSSRS1605  |       |                  |             |       |             |
| <b>AAUKBK</b>                           |  |      | <b>7.33</b> | -1.91 | 0.32        | <b>7.52</b> | -1.73 | 0.58        | <b>7.77</b> | -0.25 | 1.10             |             |       |             |
|   |  |      |             | -0.15 | 0.01        |             | -0.07 | 0.01        |             | -0.01 | 0.01             |             |       |             |
| <b>XWTMKR</b>                           | <b>7.77</b>  | 1.53 | <b>7.75</b> | 1.57  |             | <b>7.49</b> | 0.13  | 1.64        | <b>7.58</b> | -0.21 | 1.53             | <b>7.78</b> | 0.25  | 1.10        |
|   |  | 0.02 |             | 0.03  |             |             | 0.01  | 0.03        |             | -0.01 | 0.02             |             | 0.01  | 0.01        |
| <b>YKBCLZ</b>                           | <b>7.79</b>  | 0.58 | <b>7.76</b> | 0.52  |             | <b>7.52</b> | 0.52  | 0.55        | <b>7.61</b> | 0.55  | 0.58             | <b>7.81</b> | 1.77  | 0.00        |
|   |  | 0.01 |             | 0.01  |             |             | 0.04  | 0.01        |             | 0.02  | 0.01             |             | 0.04  | 0.00        |
| <b>TNQUE3</b>                           | <b>7.76</b>  | 0.58 | <b>7.73</b> | 0.52  |             | <b>7.47</b> | -0.13 | 0.95        | <b>7.60</b> | 0.21  | 1.00             | <b>7.77</b> | -0.42 | 1.26        |
|   |  | 0.01 |             | 0.01  |             |             | -0.01 | 0.02        |             | 0.01  | 0.01             |             | -0.01 | 0.01        |
| <b>Grand Median</b>                     | <b>7.77</b>  |      | <b>7.75</b> |       | <b>7.48</b> |             |       | <b>7.59</b> |             |       | <b>7.78</b>      |             |       |             |
| <b>Median Abs Dev</b>                   |  |      |             |       | <b>0.03</b> |             |       | <b>0.02</b> |             |       | <b>0.01</b>      |             |       | <b>0.01</b> |
| <b>Avg Within Lab SD</b>                | <b>0.01</b>  |      | <b>0.02</b> |       | <b>0.02</b> |             |       | <b>0.01</b> |             |       | <b>0.01</b>      |             |       | <b>0.01</b> |
| <b>Labs Included</b>                    | <b>3</b>   |      | <b>3</b>    |       | <b>4</b>    |             |       | <b>4</b>    |             |       | <b>4</b>         |             |       | <b>4</b>    |
| <b>Labs Reporting</b>                   | <b>3</b>   |      | <b>3</b>    |       | <b>4</b>    |             |       | <b>4</b>    |             |       | <b>4</b>         |             |       | <b>4</b>    |



## ALP Program - Participant Web Summary Report - Cycle 29

|                    |         |         |                    |         |         |                    |         |         |                    |         |         |                    |         |         |
|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|
| 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 125) | in the Buffer pH, Lime Requirement Property Groups |       |      |             |       |      |             |       |      |             |       |      | Data units: Unit |       |      |
|--------------------------------------|--|-------|------|-------------|-------|------|-------------|-------|------|-------------|-------|------|------------------|-------|------|
|                                      | SRSSRS1601   |       |      | SRSSRS1602  |       |      | SRSSRS1603  |       |      | SRSSRS1604  |       |      | SRSSRS1605       |       |      |
| <b>83L8FJ</b>                        | <b>7.23</b>  | 1.40  | 1.43 | <b>7.09</b> | 0.26  | 0.36 | <b>6.35</b> | -1.85 | 0.37 | <b>6.65</b> | 0.00  | 0.41 | <b>6.64</b>      | -1.17 | 0.20 |
|                                      |  | 0.10  | 0.02 |             | 0.01  | 0.01 |             | -0.18 | 0.02 |             | 0.00  | 0.02 |                  | -0.13 | 0.01 |
| <b>2GK3BP</b>                        | <b>7.12</b>  | -0.12 | 1.05 | <b>7.06</b> | -0.33 | 0.65 | <b>6.59</b> | 0.55  | 0.74 | <b>6.76</b> | 1.07  | 0.41 | <b>6.77</b>      | 0.03  | 0.20 |
|                                      |  | -0.01 | 0.02 |             | -0.02 | 0.02 |             | 0.05  | 0.04 |             | 0.11  | 0.02 |                  | 0.00  | 0.01 |
| <b>F92H9C</b>                        | <b>7.09</b>  | -0.61 | 0.69 | <b>7.01</b> | -1.30 | 0.18 | <b>6.45</b> | -0.89 | 0.27 | <b>6.63</b> | -0.16 | 0.70 | <b>6.67</b>      | -0.92 | 0.63 |
|                                      |  | -0.04 | 0.01 |             | -0.07 | 0.01 |             | -0.09 | 0.02 |             | -0.02 | 0.03 |                  | -0.10 | 0.03 |
| <b>XWTMKR</b>                        | <b>7.13</b>  | -0.02 | 0.69 | <b>7.06</b> | -0.26 | 0.62 | <b>6.55</b> | 0.14  | 0.80 | <b>6.76</b> | 1.10  | 0.92 | <b>6.77</b>      | 0.00  | 0.45 |
|                                      |  | 0.00  | 0.01 |             | -0.01 | 0.02 |             | 0.01  | 0.05 |             | 0.11  | 0.03 |                  | 0.00  | 0.02 |
| <b>6VACMK</b>                        | <b>7.30</b>  | 2.48  | 0.00 | <b>7.13</b> | 1.17  | 1.79 | <b>6.53</b> | 0.00  | 2.71 | <b>6.60</b> | -0.45 | 0.00 | <b>6.73</b>      | -0.31 | 1.13 |
|                                      |  | 0.17  | 0.00 |             | 0.06  | 0.06 |             | 0.00  | 0.15 |             | -0.05 | 0.00 |                  | -0.03 | 0.06 |
| <b>DFA3JC</b>                        | <b>7.15</b>  | 0.27  | 0.00 | <b>7.09</b> | 0.33  | 0.00 | <b>6.59</b> | 0.58  | 0.00 | <b>6.75</b> | 0.97  | 0.15 | <b>6.79</b>      | 0.21  | 0.00 |
|                                      |  | 0.02  | 0.00 |             | 0.02  | 0.00 |             | 0.06  | 0.00 |             | 0.10  | 0.01 |                  | 0.02  | 0.00 |
| <b>RMZ998</b>                        | <b>7.10</b>  | -0.47 | 0.00 | <b>7.03</b> | -0.78 | 1.79 | <b>6.60</b> | 0.69  | 0.00 | <b>6.73</b> | 0.84  | 1.53 | <b>6.90</b>      | 1.23  | 0.00 |
|                                      |  | -0.03 | 0.00 |             | -0.04 | 0.06 |             | 0.07  | 0.00 |             | 0.09  | 0.06 |                  | 0.13  | 0.00 |
| <b>L2J8CD</b>                        | <b>7.13</b>  | 0.02  | 1.98 | <b>7.12</b> | 0.98  | 0.78 | <b>6.53</b> | -0.03 | 0.47 | <b>6.62</b> | -0.29 | 0.31 | <b>6.79</b>      | 0.18  | 0.23 |
|                                      |  | 0.00  | 0.03 |             | 0.05  | 0.03 |             | 0.00  | 0.03 |             | -0.03 | 0.01 |                  | 0.02  | 0.01 |
| <b>DYXQH7</b>                        |  |       |      |             |       |      | <b>6.40</b> | -1.34 | 0.20 | <b>6.52</b> | -1.19 | 2.21 | <b>6.55</b>      | -2.02 | 2.65 |
|                                      |  |       |      |             |       |      |             | -0.13 | 0.01 |             | -0.12 | 0.08 |                  | -0.22 | 0.14 |
| <b>Grand Median</b>                  |  | 7.13  |      | 7.07        |       |      | 6.53        |       |      | 6.65        |       |      | 6.77             |       |      |
| <b>Median Abs Dev</b>                |  | 0.03  |      | 0.03        |       |      | 0.06        |       |      | 0.09        |       |      | 0.03             |       |      |
| <b>Avg Within Lab SD</b>             |  | 0.01  |      | 0.03        |       |      | 0.06        |       |      | 0.04        |       |      | 0.05             |       |      |
| <b>Labs Included</b>                 |  | 8     |      | 8           |       |      | 9           |       |      | 9           |       |      | 9                |       |      |
| <b>Labs Reporting</b>                |  | 8     |      | 8           |       |      | 9           |       |      | 9           |       |      | 9                |       |      |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 126) | in the Buffer pH, Lime Requirement Property Groups |              |             |              |             |                                |              |             |                              |              | Data units: Unit |                              |              |
|-------------------------------------|--|--------------|-------------|--------------|-------------|--------------------------------|--------------|-------------|------------------------------|--------------|------------------|------------------------------|--------------|
| SRSSRS1601                          | SRSSRS1602   |              | SRSSRS1603  |              | SRSSRS1604  |                                | SRSSRS1605   |             |                              |              |                  |                              |              |
| <b>RMZ998</b>                       | <b>6.83</b>  | 1.41<br>0.06 | <b>6.73</b> | 1.41<br>0.06 | <b>6.07</b> | -0.35<br>-0.02<br>0.65<br>1.25 | 1.25<br>0.06 | <b>6.27</b> | 0.84<br>0.05<br>0.30<br>1.09 | 1.09<br>0.06 | <b>6.40</b>      | 1.76<br>0.16<br>0.26<br>1.00 | 1.72<br>0.10 |
| <b>LVRZT6</b>                       |  |              |             |              | <b>6.13</b> | 0.04<br>-1.35<br>0.78          | 0.06         | <b>6.23</b> | 0.02<br>-1.27<br>1.23        | 0.06         | <b>6.27</b>      | 0.02<br>-0.26<br>0.17        | 0.06         |
| <b>7CWYLG</b>                       | <b>6.78</b>  | 0.14<br>0.01 | <b>6.68</b> | 0.14<br>0.01 | <b>6.00</b> | -0.09<br>0.35<br>0.54          | 0.04         | <b>6.14</b> | -0.08<br>-0.30<br>0.29       | 0.07         | <b>6.22</b>      | -0.02<br>-0.41<br>0.10       | 0.01         |
| <b>DM76CB</b>                       |  |              |             |              | <b>6.11</b> | 0.02<br>0.03                   | 0.03         | <b>6.20</b> | -0.02<br>0.02                | 0.02         | <b>6.21</b>      | -0.04<br>0.01                | 0.01         |
| <b>Grand Median</b>                 | 6.81   |              | 6.71        |              | 6.09        |                                |              | 6.22        |                              |              | 6.24             |                              |              |
| <b>Median Abs Dev</b>               |  |              |             |              | 0.03        |                                |              | 0.04        |                              |              | 0.03             |                              |              |
| <b>Avg Within Lab SD</b>            | 0.04   |              | 0.04        |              | 0.05        |                                |              | 0.05        |                              |              | 0.06             |                              |              |
| <b>Labs Included</b>                | 2  |              | 2           |              | 4           |                                |              | 4           |                              |              | 4                |                              |              |
| <b>Labs Reporting</b>               | 2  |              | 2           |              | 4           |                                |              | 4           |                              |              | 4                |                              |              |





## ALP Program - Participant Web Summary Report - Cycle 29

| 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 127) |      |      | in the Inorganic Nitrogen (NO3-N & NH4-N) Property Groups |      |      |            |       |       |            |       |       |            |      |      | Data units: mg/kg |  |  |
|---------------------------------|------|------|---|------|------|------------|-------|-------|------------|-------|-------|------------|------|------|-------------------|--|--|
| SRSSRS1601                      |      |      | SRSSRS1602  |      |      | SRSSRS1603 |       |       | SRSSRS1604 |       |       | SRSSRS1605 |      |      |                   |  |  |
| YAA32W                          | 6.3  | 0.0  | 0.6   | 19.0 | -0.4 |            | 78.8  | -0.8  | 0.3        | 95.5  | -0.5  | 0.1        | 54.2 | 1.2  | 0.3               |  |  |
|                                 |      | 0.0  | 0.3   |      | -1.3 | 0.0        |       | -9.1  | 1.3        |       | -6.2  | 0.5        |      | 10.3 | 0.6               |  |  |
| GZ63WD                          | 7.3  | 0.6  | 0.9   | 21.9 | 0.5  | 0.4        | 90.8  | 0.2   | 0.3        | 101.4 | 0.0   | 0.1        | 38.4 | -0.6 | 0.6               |  |  |
|                                 |      | 1.0  | 0.4   |      | 1.6  | 0.5        |       | 2.9   | 1.2        |       | -0.3  | 0.7        |      | -5.5 | 1.1               |  |  |
| CJTVUF                          | 6.3  | 0.0  | 1.0   | 19.4 | -0.3 | 0.4        | 79.7  | -0.7  | 0.4        | 105.3 | 0.3   | 0.1        | 55.9 | 1.4  | 0.7               |  |  |
|                                 |      | 0.0  | 0.5   |      | -0.9 | 0.5        |       | -8.2  | 1.7        |       | 3.6   | 0.8        |      | 12.0 | 1.3               |  |  |
| P9QWN3                          | 8.0  | 1.1  | 0.1   | 20.2 | 0.0  | 0.2        | 91.0  | 0.3   | 0.1        | 102.4 | 0.1   | 0.2        | 37.0 | -0.8 | 0.2               |  |  |
|                                 |      | 1.7  | 0.1   |      | -0.1 | 0.3        |       | 3.2   | 0.5        |       | 0.8   | 0.9        |      | -6.9 | 0.4               |  |  |
| 83L8FJ                          | 6.7  | 0.2  | 0.4   | 20.6 | 0.1  | 0.3        | 101.3 | 1.1   | 0.1        | 110.2 | 0.7   | 0.2        | 60.7 | 2.0  | 0.3               |  |  |
|                                 |      | 0.3  | 0.2   |      | 0.3  | 0.4        |       | 13.4  | 0.2        |       | 8.5   | 1.1        |      | 16.8 | 0.6               |  |  |
| BFZE6F                          | 7.8  | 1.0  | 0.6   | 20.5 | 0.1  | 1.0        | 88.0  | 0.0   | 1.5        | 96.5  | -0.4  | 1.2        | 40.3 | -0.4 | 0.6               |  |  |
|                                 |      | 1.5  | 0.3   |      | 0.2  | 1.2        |       | 0.1   | 6.3        |       | -5.1  | 6.2        |      | -3.6 | 1.0               |  |  |
| 644GFL                          | 7.2  | 0.5  | 2.3   | 23.2 | 1.0  | 0.9        | 87.2  | -0.1  | 1.2        | 89.9  | -1.0  | 1.3        | 41.8 | -0.2 | 0.4               |  |  |
|                                 |      | 0.8  | 1.2   |      | 2.9  | 1.1        |       | -0.7  | 5.1        |       | -11.8 | 7.0        |      | -2.1 | 0.8               |  |  |
| 2GK3BP                          | 6.0  | -0.2 | 0.8   | 19.8 | -0.2 | 1.1        | 81.3  | -0.5  | 1.0        | 104.5 | 0.3   | 0.3        | 53.7 | 1.1  | 0.5               |  |  |
|                                 |      | -0.4 | 0.4   |      | -0.5 | 1.5        |       | -6.5  | 4.2        |       | 2.9   | 1.7        |      | 9.7  | 0.9               |  |  |
| 33JQFQ                          | 6.3  | 0.0  | 3.0   | 17.3 | -1.0 | 2.0        | 76.7  | -0.9  | 1.5        | 102.0 | 0.0   | 1.4        | 54.3 | 1.2  | 2.4               |  |  |
|                                 |      | 0.0  | 1.5   |      | -3.0 | 2.5        |       | -11.2 | 6.4        |       | 0.3   | 7.5        |      | 10.4 | 4.5               |  |  |
| XNBEWV                          | 5.2  | -0.8 | 0.7   | 20.0 | -0.1 | 1.1        | 93.4  | 0.5   | 1.0        | 108.5 | 0.6   | 0.2        | 44.9 | 0.1  | 0.2               |  |  |
|                                 |      | -1.2 | 0.4   |      | -0.3 | 1.4        |       | 5.5   | 4.5        |       | 6.8   | 1.0        |      | 1.0  | 0.4               |  |  |
| LM4ZL8                          | 13.8 | 4.8  | 0.8   | 22.5 | 0.8  | 0.4        | 80.1  | -0.6  | 0.2        | 52.0  | -4.3  | 0.0        | 52.2 | 1.0  | 0.4               |  |  |
|                                 |      | 7.4  | 0.4   |      | 2.2  | 0.5        |       | -7.7  | 0.9        |       | -49.7 | 0.1        |      | 8.3  | 0.8               |  |  |
| 6BMKMN                          | 4.6  | -1.1 | 0.8   | 16.7 | -1.2 | 0.3        | 90.5  | 0.2   | 0.1        | 110.5 | 0.8   | 0.7        | 55.5 | 1.3  | 1.5               |  |  |
|                                 |      | -1.8 | 0.4   |      | -3.6 | 0.4        |       | 2.6   | 0.6        |       | 8.9   | 3.5        |      | 11.6 | 2.8               |  |  |
| 9JP2MJ                          | 5.8  | -0.3 | 1.9   | 18.8 | -0.5 | 1.9        | 87.3  | 0.0   | 0.5        | 98.6  | -0.3  | 1.5        | 38.3 | -0.7 | 3.0               |  |  |
|                                 |      | -0.5 | 1.0   |      | -1.5 | 2.4        |       | -0.6  | 2.0        |       | -3.0  | 7.9        |      | -5.6 | 5.7               |  |  |
| K8VMR6                          | 7.2  | 0.5  | 0.6   | 16.5 | -1.3 |            | 71.7  | -1.4  | 0.3        | 98.3  | -0.3  | 0.1        | 56.3 | 1.4  | 0.3               |  |  |
|                                 |      | 0.8  | 0.3   |      | -3.8 | 0.0        |       | -16.2 | 1.5        |       | -3.3  | 0.6        |      | 12.4 | 0.6               |  |  |
| XWTMKR                          | 6.3  | 0.0  | 0.9   | 22.0 | 0.6  | 0.5        | 93.8  | 0.5   | 0.1        | 101.7 | 0.0   | 0.1        | 43.9 | 0.0  | 0.3               |  |  |
|                                 |      | 0.0  | 0.5   |      | 1.7  | 0.7        |       | 5.9   | 0.3        |       | 0.0   | 0.5        |      | 0.0  | 0.7               |  |  |
| FPNYC9                          | 6.2  | -0.1 | 0.2   | 23.1 | 1.0  | 0.1        | 100.0 | 1.0   | 1.6        | 110.0 | 0.7   | 0.3        | 42.1 | -0.2 | 0.5               |  |  |
|                                 |      | -0.1 | 0.1   |      | 2.8  | 0.2        |       | 12.2  | 7.0        |       | 8.3   | 1.7        |      | -1.8 | 0.9               |  |  |
| WGX7VT                          | 9.8  | 2.3  | 2.4   | 25.3 | 1.7  | 0.4        | 93.4  | 0.5   | 0.2        | 107.7 | 0.5   | 0.2        | 56.8 | 1.5  | 0.9               |  |  |
|                                 |      | 3.5  | 1.2   |      | 5.0  | 0.5        |       | 5.5   | 0.9        |       | 6.0   | 1.1        |      | 12.9 | 1.7               |  |  |
| 6VACMK                          | 5.6  | -0.5 | 0.5   | 17.7 | -0.9 | 0.1        | 79.9  | -0.7  | 0.3        | 97.7  | -0.3  | 0.2        | 51.9 | 0.9  | 0.7               |  |  |
|                                 |      | -0.7 | 0.3   |      | -2.6 | 0.2        |       | -7.9  | 1.4        |       | -3.9  | 1.1        |      | 8.0  | 1.2               |  |  |
| YKBCLZ                          | 4.8  | -1.0 | 0.2   | 14.8 | -1.9 | 0.1        | 64.4  | -2.0  | 0.2        | 92.4  | -0.8  | 0.2        | 43.6 | 0.0  | 0.3               |  |  |
|                                 |      | -1.5 | 0.1   |      | -5.5 | 0.1        |       | -23.5 | 1.0        |       | -9.2  | 1.1        |      | -0.3 | 0.5               |  |  |
| RMZ998                          | 7.6  | 0.8  | 0.6   | 21.9 | 0.6  | 0.3        | 87.9  | 0.0   | 0.1        | 123.0 | 1.9   | 3.5        | 42.8 | -0.1 | 0.4               |  |  |
|                                 |      | 1.2  | 0.3   |      | 1.6  | 0.4        |       | 0.0   | 0.2        |       | 21.3  | 18.3       |      | -1.1 | 0.7               |  |  |



## ALP Program - Participant Web Summary Report - Cycle 29

| ALP Program - Participant Web Summary Report - Cycle 29 |                    |         |         |                    |         |         |                    |         |         |                    |         |         |                    |         |         |
|---|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|
|   | 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>T9EFX6</b>   | <b>6.3</b>         | 0.0     |         | <b>18.9</b>        | -0.5    |         | <b>77.9</b>        | -0.8    |         | <b>74.9</b>        | -2.3    |         | <b>41.3</b>        | -0.3    |         |
|   |                    | 0.0     | 0.0     |                    | -1.4    | 0.0     |                    | -9.9    | 0.0     |                    | -26.7   | 0.0     |                    | -2.6    | 0.0     |
| <b>LZMPAC</b>   | <b>4.8</b>         | -1.0    | 0.1     | <b>22.0</b>        | 0.6     | 0.3     | <b>92.1</b>        | 0.4     | 0.2     | <b>98.2</b>        | -0.3    | 0.7     | <b>40.3</b>        | -0.4    | 1.3     |
|   |                    | -1.5    | 0.1     |                    | 1.7     | 0.4     |                    | 4.3     | 0.7     |                    | -3.5    | 3.8     |                    | -3.6    | 2.5     |
| <b>BMDAYP</b>   | <b>7.0</b>         | 0.4     | 0.7     | <b>23.3</b>        | 1.0     | 0.4     | <b>93.3</b>        | 0.5     | 0.1     | <b>120.0</b>       | 1.6     |         | <b>55.7</b>        | 1.4     | 0.3     |
|   |                    | 0.7     | 0.4     |                    | 3.0     | 0.6     |                    | 5.5     | 0.6     |                    | 18.3    | 0.0     |                    | 11.8    | 0.6     |
| <b>GAPFPH</b>   | <b>6.1</b>         | -0.1    | 1.0     | <b>22.3</b>        | 0.7     | 0.4     | <b>92.3</b>        | 0.4     | 0.0     | <b>106.0</b>       | 0.4     | 0.4     | <b>45.6</b>        | 0.2     | 1.8     |
|   |                    | -0.2    | 0.5     |                    | 2.0     | 0.5     |                    | 4.5     | 0.1     |                    | 4.3     | 2.1     |                    | 1.6     | 3.5     |
| <b>T84DB7</b>   | <b>7.5</b>         | 0.7     | 0.5     | <b>17.2</b>        | -1.0    | 0.3     | <b>71.6</b>        | -1.4    | 0.7     | <b>94.0</b>        | -0.7    | 0.7     | <b>56.3</b>        | 1.4     | 2.1     |
|   |                    | 1.1     | 0.2     |                    | -3.1    | 0.4     |                    | -16.3   | 2.8     |                    | -7.6    | 3.7     |                    | 12.4    | 3.9     |
| <b>CJDKVM</b>   | <b>4.9</b>         | -0.9    | 0.0     | <b>15.8</b>        | -1.5    | 0.0     | <b>74.6</b>        | -1.1    | 0.0     | <b>103.9</b>       | 0.2     | 0.0     | <b>46.3</b>        | 0.3     | 0.0     |
|   |                    | -1.4    | 0.0     |                    | -4.5    | 0.0     |                    | -13.2   | 0.0     |                    | 2.3     | 0.1     |                    | 2.4     | 0.1     |
| <b>TNQUE3</b>   | <b>5.7</b>         | -0.4    | 1.1     | <b>16.7</b>        | -1.2    | 0.4     | <b>63.7</b>        | -2.0    | 0.3     | <b>83.7</b>        | -1.6    | 1.7     | <b>44.0</b>        | 0.0     | 1.9     |
|   |                    | -0.7    | 0.6     |                    | -3.6    | 0.6     |                    | -24.2   | 1.5     |                    | -18.0   | 9.2     |                    | 0.1     | 3.6     |
| <b>2WG8UU</b>   | <b>6.6</b>         | 0.1     | 0.7     | <b>21.9</b>        | 0.5     | 0.5     | <b>80.0</b>        | -0.7    | 4.7     | <b>98.7</b>        | -0.3    | 0.2     | <b>43.4</b>        | -0.1    | 1.4     |
|   |                    | 0.2     | 0.4     |                    | 1.6     | 0.7     |                    | -7.9    | 20.6    |                    | -2.9    | 1.3     |                    | -0.5    | 2.6     |
| <b>UNPG82</b>   | <b>5.3</b>         | -0.7    | 1.4     | <b>19.6</b>        | -0.3    | 0.4     | <b>92.7</b>        | 0.4     | 0.2     | <b>104.0</b>       | 0.2     | 0.2     | <b>40.6</b>        | -0.4    | 0.2     |
|   |                    | -1.0    | 0.7     |                    | -0.7    | 0.5     |                    | 4.8     | 0.7     |                    | 2.3     | 1.0     |                    | -3.3    | 0.3     |
| <b>ZV768V</b>   | <b>6.8</b>         | 0.3     | 0.1     | <b>20.4</b>        | 0.0     | 0.0     | <b>94.7</b>        | 0.6     | 0.1     | <b>107.7</b>       | 0.5     | 0.1     | <b>42.2</b>        | -0.2    | 0.2     |
|   |                    | 0.4     | 0.0     |                    | 0.1     | 0.1     |                    | 6.8     | 0.6     |                    | 6.1     | 0.7     |                    | -1.7    | 0.3     |
| <b>VBVLAX</b>   | <b>7.3</b>         | 0.6     | 0.6     | <b>20.0</b>        | -0.1    | 1.3     | <b>85.5</b>        | -0.2    | 0.6     | <b>96.1</b>        | -0.5    | 0.7     | <b>52.4</b>        | 1.0     | 0.9     |
|   |                    | 0.9     | 0.3     |                    | -0.3    | 1.6     |                    | -2.4    | 2.7     |                    | -5.5    | 3.6     |                    | 8.5     | 1.7     |
| <b>TJBJ2Y</b>   | <b>5.6</b>         | -0.5    | 0.2     | <b>18.9</b>        | -0.5    | 0.2     | <b>76.8</b>        | -0.9    | 0.4     | <b>103.1</b>       | 0.1     | 0.1     | <b>54.6</b>        | 1.2     | 0.3     |
|   |                    | -0.8    | 0.1     |                    | -1.4    | 0.2     |                    | -11.0   | 1.7     |                    | 1.5     | 0.3     |                    | 10.7    | 0.6     |
| <b>AM2DUK</b>   | <b>5.6</b>         | -0.5    | 0.1     | <b>20.7</b>        | 0.1     | 0.4     | <b>83.0</b>        | -0.4    | 1.0     | <b>92.3</b>        | -0.8    | 0.1     | <b>40.3</b>        | -0.4    | 0.3     |
|   |                    | -0.7    | 0.1     |                    | 0.4     | 0.6     |                    | -4.9    | 4.6     |                    | -9.3    | 0.6     |                    | -3.6    | 0.6     |
| <b>XHNEVW</b>   | <b>7.2</b>         | 0.5     | 0.2     | <b>20.4</b>        | 0.0     | 0.1     | <b>92.0</b>        | 0.3     | 0.4     | <b>101.5</b>       | 0.0     | 0.1     | <b>40.7</b>        | -0.4    | 0.8     |
|   |                    | 0.8     | 0.1     |                    | 0.1     | 0.2     |                    | 4.1     | 1.7     |                    | -0.2    | 0.7     |                    | -3.2    | 1.5     |
| <b>YTJ7GT</b>   | <b>6.1</b>         | -0.2    |         | <b>20.3</b>        | 0.0     |         | <b>80.0</b>        | -0.7    |         | <b>92.0</b>        | -0.8    |         | <b>39.0</b>        | -0.6    |         |
|   |                    | -0.2    | 0.0     |                    | 0.0     | 0.0     |                    | -7.9    | 0.0     |                    | -9.7    | 0.0     |                    | -4.9    | 0.0     |
| <b>4KCY3M</b>   | <b>8.0</b>         | 1.1     | 0.3     | <b>21.1</b>        | 0.3     | 0.7     | <b>91.7</b>        | 0.3     | 0.3     | <b>102.3</b>       | 0.1     | 0.3     | <b>42.0</b>        | -0.2    | 0.6     |
|   |                    | 1.7     | 0.2     |                    | 0.8     | 0.9     |                    | 3.8     | 1.2     |                    | 0.7     | 1.5     |                    | -1.9    | 1.1     |
| <b>C8H8XB</b>   | <b>5.1</b>         | -0.8    | 0.2     | <b>20.2</b>        | 0.0     | 0.1     | <b>86.9</b>        | -0.1    | 0.5     | <b>100.0</b>       | -0.1    | 0.0     | <b>40.0</b>        | -0.5    | 0.6     |
|   |                    | -1.2    | 0.1     |                    | -0.1    | 0.2     |                    | -1.0    | 2.3     |                    | -1.7    | 0.1     |                    | -3.9    | 1.1     |
| <b>ZZZ3WM</b>   | <b>6.6</b>         | 0.2     | 2.1     | <b>20.5</b>        | 0.1     | 2.3     | <b>101.9</b>       | 1.2     | 2.0     | <b>109.3</b>       | 0.7     | 3.9     | <b>43.0</b>        | -0.1    | 1.6     |
|   |                    | 0.3     | 1.1     |                    | 0.2     | 2.9     |                    | 14.1    | 8.7     |                    | 7.6     | 20.8    |                    | -0.9    | 3.1     |
| <b>X3EMTR</b>   | <b>9.6</b>         | 2.1     | 0.3     | <b>29.4</b>        | 3.1     | 0.3     | <b>124.7</b>       | 3.1     | 1.0     | <b>127.3</b>       | 2.2     | 0.4     | <b>50.4</b>        | 0.8     | 0.6     |
|   |                    | 3.2     | 0.2     |                    | 9.1     | 0.3     |                    | 36.8    | 4.4     |                    | 25.6    | 2.2     |                    | 6.5     | 1.2     |
| <b>J6NUD7</b>   | <b>5.6</b>         | -0.4    | 0.5     | <b>23.9</b>        | 1.2     | 4.3     | <b>90.7</b>        | 0.2     | 0.1     | <b>104.1</b>       | 0.2     | 0.3     | <b>41.1</b>        | -0.3    | 0.0     |
|   |                    | -0.7    | 0.2     |                    | 3.6     | 5.6     |                    | 2.9     | 0.4     |                    | 2.5     | 1.5     |                    | -2.8    | 0.0     |
| <b>VNJNRP</b>   | <b>5.8</b>         | -0.4    |         | <b>18.6</b>        | -0.6    |         | <b>89.0</b>        | 0.1     |         | <b>100.7</b>       | -0.1    |         | <b>54.9</b>        | 1.3     |         |
|   |                    | -0.6    | 0.0     |                    | -1.7    | 0.0     |                    | 1.2     | 0.0     |                    | -0.9    | 0.0     |                    | 11.0    | 0.0     |



## ALP Program - Participant Web Summary Report - Cycle 29

|                          | 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>Grand Median</b>      |                    | 6.33    |         |                    | 20.3    |         |                    | 87.9    |         |                    | 101.7   |         |                    | 43.9    |         |
| <b>Median Abs Dev</b>    |                    | 0.78    |         |                    | 1.6     |         |                    | 5.9     |         |                    | 5.1     |         |                    | 3.9     |         |
| <b>Avg Within Lab SD</b> |                    | 0.52    |         |                    | 1.3     |         |                    | 4.4     |         |                    | 5.3     |         |                    | 1.9     |         |
| <b>Labs Included</b>     |                    | 41      |         |                    | 41      |         |                    | 41      |         |                    | 41      |         |                    | 41      |         |
| <b>Labs Reporting</b>    |                    | 41      |         |                    | 41      |         |                    | 41      |         |                    | 41      |         |                    | 41      |         |



## ALP Program - Participant Web Summary Report - Cycle 29

|                    |         |         |                    |         |         |                    |         |         |                    |         |         |                    |         |         |
|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|
| 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 |         |         |

|                          | in the Inorganic Nitrogen (NO3-N & NH4-N) Property Groups |      |     |             |      |     |              |       |     |              |       |      |             |       |     | Data units: mg/kg |
|--------------------------|---|------|-----|-------------|------|-----|--------------|-------|-----|--------------|-------|------|-------------|-------|-----|-------------------|
|                          | SRSSRS1601  |      |     | SRSSRS1602  |      |     | SRSSRS1603   |       |     | SRSSRS1604   |       |      | SRSSRS1605  |       |     |                   |
| <b>QECBRZ</b>            | <b>2.9</b>  | -0.7 | 1.0 | <b>12.8</b> | -1.0 | 0.2 | <b>63.3</b>  | -0.8  | 0.5 | <b>70.3</b>  | -1.1  | 0.2  | <b>31.8</b> | -1.1  | 0.4 |                   |
|                          |   | -5.1 | 0.6 |             | -9.1 | 0.5 |              | -25.9 | 0.9 |              | -26.2 | 1.1  |             | -13.6 | 0.7 |                   |
| <b>3KE7UV</b>            | <b>7.3</b>  | -0.1 | 0.1 | <b>16.4</b> | -0.6 | 0.1 | <b>67.8</b>  | -0.6  | 1.0 | <b>96.4</b>  | 0.0   | 0.9  | <b>50.2</b> | 0.4   | 1.3 |                   |
|                          |   | -0.7 | 0.1 |             | -5.5 | 0.1 |              | -21.4 | 1.7 |              | -0.1  | 6.3  |             | 4.7   | 2.1 |                   |
| <b>PWR8L8</b>            | <b>7.6</b>  | -0.1 | 0.2 | <b>20.3</b> | -0.2 | 0.1 | <b>101.6</b> | 0.4   | 0.6 | <b>111.7</b> | 0.7   | 0.2  | <b>47.0</b> | 0.1   | 0.3 |                   |
|                          |   | -0.4 | 0.1 |             | -1.6 | 0.3 |              | 12.4  | 1.1 |              | 15.1  | 1.2  |             | 1.5   | 0.4 |                   |
| <b>3BBBBQ</b>            | <b>14.0</b>   | 0.8  |     | <b>26.0</b> | 0.5  | 0.4 | <b>70.0</b>  | -0.6  |     | <b>90.3</b>  | -0.3  | 0.2  | <b>44.0</b> | -0.1  |     |                   |
|                          |   | 6.0  | 0.0 |             | 4.1  | 1.0 |              | -19.2 | 0.0 |              | -6.2  | 1.5  |             | -1.5  | 0.0 |                   |
| <b>MZGWVZ</b>            | <b>32.2</b>   | 3.2  | 1.2 | <b>34.3</b> | 1.4  | 2.8 | <b>151.9</b> | 1.9   | 1.1 | <b>130.8</b> | 1.5   | 2.6  | <b>47.3</b> | 0.1   | 1.0 |                   |
|                          |   | 24.2 | 0.8 |             | 12.4 | 6.9 |              | 62.7  | 1.9 |              | 34.3  | 18.2 |             | 1.8   | 1.6 |                   |
| <b>8FPFBG</b>            | <b>6.3</b>  | -0.2 | 0.9 | <b>19.7</b> | -0.3 | 0.2 | <b>87.3</b>  | -0.1  | 1.5 | <b>95.3</b>  | -0.1  | 0.2  | <b>42.7</b> | -0.2  | 1.3 |                   |
|                          |   | -1.7 | 0.6 |             | -2.3 | 0.6 |              | -1.9  | 2.5 |              | -1.2  | 1.5  |             | -2.8  | 2.1 |                   |
| <b>DM76CB</b>            | <b>10.6</b>   | 0.3  | 1.0 | <b>23.6</b> | 0.2  | 0.4 | <b>91.0</b>  | 0.1   | 1.4 | <b>96.7</b>  | 0.0   | 0.3  | <b>40.8</b> | -0.4  | 0.6 |                   |
|                          |   | 2.6  | 0.6 |             | 1.6  | 1.0 |              | 1.9   | 2.5 |              | 0.1   | 2.0  |             | -4.7  | 0.9 |                   |
| <b>DYXQH7</b>            | <b>8.4</b>  | 0.1  | 1.9 | <b>33.5</b> | 1.3  | 0.0 | <b>122.6</b> | 1.0   | 1.0 | <b>137.7</b> | 1.8   | 0.0  | <b>83.5</b> | 3.0   | 1.7 |                   |
|                          |   | 0.4  | 1.2 |             | 11.5 | 0.1 |              | 33.4  | 1.7 |              | 41.2  | 0.3  |             | 38.1  | 2.8 |                   |
| <b>Grand Median</b>      |   | 7.98 |     |             | 21.9 |     |              | 89.2  |     |              | 96.5  |      |             | 45.5  |     |                   |
| <b>Median Abs Dev</b>    |   | 2.12 |     |             | 4.8  |     |              | 20.3  |     |              | 10.7  |      |             | 3.8   |     |                   |
| <b>Avg Within Lab SD</b> |   | 0.64 |     |             | 2.5  |     |              | 1.7   |     |              | 6.9   |      |             | 1.6   |     |                   |
| <b>Labs Included</b>     |   | 8    |     |             | 8    |     |              | 8     |     |              | 8     |      |             | 8     |     |                   |
| <b>Labs Reporting</b>    |   | 8    |     |             | 8    |     |              | 8     |     |              | 8     |      |             | 8     |     |                   |



## ALP Program - Participant Web Summary Report - Cycle 29

|                    |         |         |                    |         |         |                    |         |         |                    |         |         |                    |         |         |
|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|
| 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 129) | in the Inorganic Nitrogen (NO3-N & NH4-N) Property Groups |      |              |      |              |      |              |       | Data units: mg/kg |      |
|-----------------------------|---|------|--------------|------|--------------|------|--------------|-------|-------------------|------|
|                             | SRSSRS1601  |      | SRSSRS1602   |      | SRSSRS1603   |      | SRSSRS1604   |       | SRSSRS1605        |      |
| <b>AAUKBK</b>               | <b>6.9</b>  | 0.8  | <b>22.2</b>  | 0.5  | <b>94.1</b>  | 1.1  | <b>107.3</b> | 0.7   | <b>43.4</b>       | 0.7  |
|                             |   | 0.4  |              | 0.6  |              | 2.9  |              | 1.5   |                   | 0.8  |
| <b>PFR9KY</b>               | <b>8.0</b>  | 1.4  | <b>20.1</b>  | 1.6  | <b>84.0</b>  | 1.2  | <b>90.4</b>  | 1.6   | <b>39.8</b>       | 1.2  |
|                             |   | 0.6  |              | 1.8  |              | 3.2  |              | 3.4   |                   | 1.5  |
| <b>4JGF2L</b>               | <b>38.8</b>   | 0.5  | <b>100.6</b> | 0.3  | <b>423.3</b> | 0.6  | <b>481.0</b> | 0.0   | <b>172.1</b>      | 1.0  |
|                             |   | 0.2  |              | 0.4  |              | 1.5  |              | 0.0   |                   | 1.2  |
| <b>Grand Median</b>         |   | 8.01 |              | 22.2 |              | 94.1 |              | 107.3 |                   | 43.4 |
| <b>Median Abs Dev</b>       |   |      |              |      |              |      |              |       |                   |      |
| <b>Avg Within Lab SD</b>    |   | 0.43 |              | 1.1  |              | 2.6  |              | 2.1   |                   | 1.2  |
| <b>Labs Included</b>        |   | 3    |              | 3    |              | 3    |              | 3     |                   | 3    |
| <b>Labs Reporting</b>       |   | 3    |              | 3    |              | 3    |              | 3     |                   | 3    |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 130) | in the Inorganic Nitrogen (NO3-N & NH4-N) Property Groups |     |             |     |              |      |              |      |              |      | Data units: mg/kg |
|----------------------------------|---|-----|-------------|-----|--------------|------|--------------|------|--------------|------|-------------------|
|                                  | SRSSRS1601  |     | SRSSRS1602  |     | SRSSRS1603   |      | SRSSRS1604   |      | SRSSRS1605   |      |                   |
| <b>XM44Y7</b>                    | <b>7.7</b>  | 1.0 | <b>44.3</b> | 0.6 | <b>237.3</b> | 1.7  | <b>298.7</b> | 1.6  | <b>138.7</b> | 1.7  |                   |
|                                  |   | 0.6 |             | 2.5 |              | 11.0 |              | 46.3 |              | 14.7 |                   |
| <b>BHL3GF</b>                    | <b>5.5</b>  | 0.3 | <b>22.0</b> | 0.1 | <b>96.1</b>  | 0.3  | <b>108.7</b> | 0.1  | <b>45.1</b>  | 0.1  |                   |
|                                  |   | 0.2 |             | 0.5 |              | 1.9  |              | 1.5  |              | 1.0  |                   |
| <b>MZGWVZ</b>                    | <b>32.2</b>   | 1.4 | <b>34.3</b> | 1.6 | <b>151.9</b> | 0.3  | <b>130.8</b> | 0.6  | <b>47.3</b>  | 0.2  |                   |
|                                  |   | 0.8 |             | 6.9 |              | 1.9  |              | 18.2 |              | 1.6  |                   |
| <b>Grand Median</b>              | 7.70  |     | 34.3        |     | 151.9        |      | 130.8        |      | 47.3         |      |                   |
| <b>Median Abs Dev</b>            |   |     |             |     |              |      |              |      |              |      |                   |
| <b>Avg Within Lab SD</b>         | 0.57  |     | 4.2         |     | 6.6          |      | 28.7         |      | 8.6          |      |                   |
| <b>Labs Included</b>             | 3   |     | 3           |     | 3            |      | 3            |      | 3            |      |                   |
| <b>Labs Reporting</b>            | 3   |     | 3           |     | 3            |      | 3            |      | 3            |      |                   |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 131) |              |       | in the Inorganic Nitrogen (NO3-N & NH4-N) Property Groups |              |       |            |             |       |            |             |       |            |             |       | Data units: mg/kg |  |  |
|---------------------------------------|--------------|-------|---|--------------|-------|------------|-------------|-------|------------|-------------|-------|------------|-------------|-------|-------------------|--|--|
| SRSSRS1601                            |              |       | SRSSRS1602  |              |       | SRSSRS1603 |             |       | SRSSRS1604 |             |       | SRSSRS1605 |             |       |                   |  |  |
| YAA32W                                | <b>5.08</b>  | -0.33 | 0.16  | <b>9.92</b>  | 0.20  | 0.07       | <b>0.66</b> | -0.37 | 0.16       | <b>3.44</b> | 0.00  | 0.12       | <b>3.11</b> | -0.12 | 0.02              |  |  |
|                                       |              | -0.42 | 0.05  |              | 0.35  | 0.06       |             | -0.61 | 0.07       |             | 0.00  | 0.04       |             | -0.16 | 0.01              |  |  |
| AAUKBK                                | <b>4.00</b>  | -1.17 | 0.34  | <b>8.60</b>  | -0.54 | 0.27       | <b>0.43</b> | -0.51 | 0.14       | <b>2.53</b> | -0.83 | 0.18       | <b>5.07</b> | 1.37  | 0.28              |  |  |
|                                       |              | -1.50 | 0.10  |              | -0.97 | 0.20       |             | -0.83 | 0.06       |             | -0.90 | 0.06       |             | 1.80  | 0.12              |  |  |
| P9QWN3                                | <b>5.49</b>  | -0.01 | 0.14  | <b>10.36</b> | 0.44  | 0.57       | <b>1.34</b> | 0.04  | 0.31       | <b>5.52</b> | 1.91  | 0.29       | <b>6.57</b> | 2.52  | 0.29              |  |  |
|                                       |              | -0.01 | 0.04  |              | 0.79  | 0.43       |             | 0.07  | 0.13       |             | 2.08  | 0.09       |             | 3.30  | 0.12              |  |  |
| 83L8FJ                                | <b>5.50</b>  | 0.00  | 1.27  | <b>8.68</b>  | -0.49 | 0.19       | <b>4.59</b> | 2.02  | 0.55       | <b>4.28</b> | 0.77  | 0.65       | <b>4.45</b> | 0.90  | 0.39              |  |  |
|                                       |              | 0.00  | 0.37  |              | -0.88 | 0.14       |             | 3.32  | 0.23       |             | 0.84  | 0.21       |             | 1.18  | 0.16              |  |  |
| BFZE6F                                | <b>4.41</b>  | -0.85 | 0.16  | <b>9.16</b>  | -0.23 | 0.16       | <b>1.86</b> | 0.36  | 0.17       | <b>3.57</b> | 0.12  | 0.35       | <b>1.30</b> | -1.50 | 0.12              |  |  |
|                                       |              | -1.09 | 0.05  |              | -0.41 | 0.12       |             | 0.59  | 0.07       |             | 0.13  | 0.12       |             | -1.97 | 0.05              |  |  |
| 644GFL                                | <b>6.30</b>  | 0.62  | 1.96  | <b>12.92</b> | 1.88  | 2.77       | <b>1.76</b> | 0.30  | 2.88       | <b>3.81</b> | 0.34  | 1.13       | <b>3.57</b> | 0.23  | 2.72              |  |  |
|                                       |              | 0.80  | 0.58  |              | 3.35  | 2.08       |             | 0.49  | 1.18       |             | 0.37  | 0.37       |             | 0.30  | 1.13              |  |  |
| 2GK3BP                                | <b>5.61</b>  | 0.09  | 0.92  | <b>9.12</b>  | -0.25 | 0.23       | <b>0.61</b> | -0.40 | 0.16       | <b>3.71</b> | 0.25  | 0.74       | <b>3.64</b> | 0.29  | 0.77              |  |  |
|                                       |              | 0.11  | 0.27  |              | -0.45 | 0.18       |             | -0.65 | 0.07       |             | 0.27  | 0.24       |             | 0.38  | 0.32              |  |  |
| 33JQFQ                                | <b>7.37</b>  | 1.46  | 1.35  | <b>10.47</b> | 0.51  | 1.45       | <b>3.58</b> | 1.41  | 3.02       | <b>5.34</b> | 1.74  | 2.01       | <b>4.94</b> | 1.27  | 2.85              |  |  |
|                                       |              | 1.87  | 0.40  |              | 0.90  | 1.09       |             | 2.31  | 1.23       |             | 1.90  | 0.66       |             | 1.67  | 1.18              |  |  |
| 9JP2MJ                                | <b>6.50</b>  | 0.78  | 1.87  | <b>11.97</b> | 1.35  | 2.47       | <b>2.46</b> | 0.73  | 1.31       | <b>5.67</b> | 2.05  | 2.81       | <b>4.26</b> | 0.76  | 1.61              |  |  |
|                                       |              | 1.00  | 0.55  |              | 2.40  | 1.86       |             | 1.20  | 0.54       |             | 2.24  | 0.92       |             | 1.00  | 0.67              |  |  |
| PFR9KY                                | <b>4.00</b>  | -1.17 | 0.98  | <b>8.15</b>  | -0.79 | 0.75       | <b>0.70</b> | -0.35 | 0.12       | <b>2.82</b> | -0.57 | 0.96       | <b>2.48</b> | -0.60 | 0.37              |  |  |
|                                       |              | -1.50 | 0.29  |              | -1.42 | 0.57       |             | -0.57 | 0.05       |             | -0.62 | 0.31       |             | -0.78 | 0.15              |  |  |
| FPNYC9                                | <b>5.80</b>  | 0.23  | 0.34  | <b>10.60</b> | 0.58  | 2.20       | <b>2.87</b> | 0.97  | 0.14       | <b>4.03</b> | 0.55  | 0.47       | <b>3.27</b> | 0.00  | 0.74              |  |  |
|                                       |              | 0.30  | 0.10  |              | 1.03  | 1.65       |             | 1.60  | 0.06       |             | 0.60  | 0.15       |             | 0.00  | 0.31              |  |  |
| 6VACMK                                | <b>3.97</b>  | -1.19 | 0.20  | <b>8.00</b>  | -0.88 | 0.13       | <b>0.13</b> | -0.69 | 0.14       | <b>2.67</b> | -0.71 | 0.35       | <b>2.90</b> | -0.28 | 0.48              |  |  |
|                                       |              | -1.53 | 0.06  |              | -1.57 | 0.10       |             | -1.13 | 0.06       |             | -0.77 | 0.12       |             | -0.37 | 0.20              |  |  |
| YKBCLZ                                | <b>5.95</b>  | 0.35  | 0.43  | <b>7.85</b>  | -0.96 | 0.18       | <b>0.26</b> | -0.61 | 0.06       | <b>3.14</b> | -0.28 | 0.23       | <b>2.66</b> | -0.46 | 0.77              |  |  |
|                                       |              | 0.45  | 0.13  |              | -1.71 | 0.14       |             | -1.00 | 0.03       |             | -0.30 | 0.08       |             | -0.61 | 0.32              |  |  |
| RMZ998                                | <b>10.47</b> | 3.87  | 1.04  | <b>16.40</b> | 3.83  | 0.48       | <b>5.70</b> | 2.70  | 2.96       | <b>8.43</b> | 4.59  | 3.70       | <b>7.30</b> | 3.07  | 0.87              |  |  |
|                                       |              | 4.97  | 0.31  |              | 6.83  | 0.36       |             | 4.43  | 1.21       |             | 5.00  | 1.21       |             | 4.03  | 0.36              |  |  |
| T9EFX6                                | <b>4.95</b>  | -0.43 |   | <b>6.63</b>  | -1.65 |            | <b>2.23</b> | 0.59  |            | <b>2.93</b> | -0.47 |            | <b>4.22</b> | 0.73  |                   |  |  |
|                                       |              | -0.55 | 0.00  |              | -2.94 | 0.00       |             | 0.96  | 0.00       |             | -0.51 | 0.00       |             | 0.95  | 0.00              |  |  |
| GAPFPH                                | <b>4.90</b>  | -0.47 | 1.33  | <b>9.41</b>  | -0.09 | 0.17       | <b>0.75</b> | -0.32 | 0.15       | <b>3.27</b> | -0.15 | 0.46       | <b>2.79</b> | -0.36 | 0.11              |  |  |
|                                       |              | -0.60 | 0.39  |              | -0.16 | 0.13       |             | -0.52 | 0.06       |             | -0.17 | 0.15       |             | -0.48 | 0.05              |  |  |
| CJDKVM                                | <b>6.01</b>  | 0.39  | 0.02  | <b>8.15</b>  | -0.80 | 0.01       | <b>0.53</b> | -0.45 | 0.00       | <b>3.02</b> | -0.38 | 0.02       | <b>3.08</b> | -0.14 | 0.00              |  |  |
|                                       |              | 0.51  | 0.01  |              | -1.42 | 0.01       |             | -0.74 | 0.00       |             | -0.41 | 0.01       |             | -0.19 | 0.00              |  |  |
| ZV768V                                | <b>4.72</b>  | -0.61 | 0.05  | <b>9.98</b>  | 0.23  | 0.13       |             |       |            | <b>3.22</b> | -0.20 | 0.02       | <b>2.59</b> | -0.51 | 0.12              |  |  |
|                                       |              | -0.78 | 0.02  |              | 0.41  | 0.10       |             |       |            |             | -0.22 | 0.01       |             | -0.67 | 0.05              |  |  |
| TJBJ2Y                                | <b>5.68</b>  | 0.14  | 0.51  | <b>9.57</b>  | 0.00  | 0.06       | <b>0.36</b> | -0.55 | 0.10       | <b>3.38</b> | -0.05 | 0.14       | <b>3.51</b> | 0.18  | 0.14              |  |  |
|                                       |              | 0.18  | 0.15  |              | 0.00  | 0.05       |             | -0.91 | 0.04       |             | -0.06 | 0.05       |             | 0.24  | 0.06              |  |  |
| AM2DUK                                | <b>6.47</b>  | 0.76  | 1.34  | <b>10.02</b> | 0.25  | 0.69       | <b>1.95</b> | 0.42  | 0.20       | <b>3.99</b> | 0.51  | 1.84       | <b>3.41</b> | 0.11  | 0.21              |  |  |
|                                       |              | 0.97  | 0.39  |              | 0.45  | 0.52       |             | 0.69  | 0.08       |             | 0.55  | 0.60       |             | 0.14  | 0.09              |  |  |



## ALP Program - Participant Web Summary Report - Cycle 29

|                          | 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>XHNEVW</b>            | <b>5.34</b>        | -0.12   | 0.17    | <b>9.03</b>        | -0.30   | 0.10    | <b>0.35</b>        | -0.56   | 0.10    | <b>2.94</b>        | -0.46   | 0.24    | <b>2.72</b>        | -0.41   | 0.28    |
|                          |                    | -0.16   | 0.05    |                    | -0.53   | 0.07    |                    | -0.92   | 0.04    |                    | -0.50   | 0.08    |                    | -0.54   | 0.12    |
| <b>YTJ7GT</b>            | <b>6.60</b>        | 0.86    |         | <b>11.10</b>       | 0.86    |         |                    |         |         | <b>3.40</b>        | -0.03   |         | <b>2.80</b>        | -0.36   |         |
|                          |                    | 1.10    | 0.00    |                    | 1.53    | 0.00    |                    |         |         |                    | -0.04   | 0.00    |                    | -0.47   | 0.00    |
| <b>4KCY3M</b>            | <b>9.13</b>        | 2.83    | 2.26    | <b>13.10</b>       | 1.98    | 0.80    | <b>5.40</b>        | 2.52    | 1.07    | <b>6.20</b>        | 2.54    | 0.81    | <b>6.10</b>        | 2.16    | 1.25    |
|                          |                    | 3.63    | 0.67    |                    | 3.53    | 0.60    |                    | 4.13    | 0.44    |                    | 2.76    | 0.26    |                    | 2.83    | 0.52    |
| <b>C8H8XB</b>            | <b>4.63</b>        | -0.68   | 0.98    | <b>10.03</b>       | 0.26    | 0.08    | <b>1.27</b>        | 0.00    | 0.28    | <b>4.10</b>        | 0.61    | 1.71    | <b>2.93</b>        | -0.25   | 0.85    |
|                          |                    | -0.87   | 0.29    |                    | 0.47    | 0.06    |                    | 0.00    | 0.12    |                    | 0.66    | 0.56    |                    | -0.33   | 0.35    |
| <b>Grand Median</b>      |                    | 5.50    |         |                    | 9.57    |         |                    | 1.27    |         |                    | 3.44    |         |                    | 3.27    |         |
| <b>Median Abs Dev</b>    |                    | 0.78    |         |                    | 0.90    |         |                    | 0.83    |         |                    | 0.51    |         |                    | 0.54    |         |
| <b>Avg Within Lab SD</b> |                    | 0.29    |         |                    | 0.75    |         |                    | 0.41    |         |                    | 0.33    |         |                    | 0.41    |         |
| <b>Labs Included</b>     |                    | 23      |         |                    | 23      |         |                    | 21      |         |                    | 23      |         |                    | 23      |         |
| <b>Labs Reporting</b>    |                    | 23      |         |                    | 23      |         |                    | 21      |         |                    | 23      |         |                    | 23      |         |





## ALP Program - Participant Web Summary Report - Cycle 29

| 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 |         |         |

| Amino Nitrogen (SubTestCode 132) | in the Inorganic Nitrogen (NO3-N & NH4-N) Property Groups |            |             |            |            |            |            |            |            |            | Data units: mg/kg |
|----------------------------------|---|------------|-------------|------------|------------|------------|------------|------------|------------|------------|-------------------|
| SRSSRS1601                       | SRSSRS1602  |            | SRSSRS1603  |            | SRSSRS1604 |            | SRSSRS1605 |            |            |            |                   |
| <b>LZMPAC</b>                    | <b>8.4</b>  | 1.0<br>0.9 | <b>14.3</b> | 1.0<br>0.2 | <b>2.9</b> | 1.0<br>0.2 | <b>6.6</b> | 1.0<br>0.2 | <b>5.3</b> | 1.0<br>0.5 |                   |
| <b>Grand Median</b>              | 8.37  |            | 14.3        |            | 2.90       |            | 6.57       |            | 5.27       |            |                   |
| <b>Median Abs Dev</b>            |   |            |             |            |            |            |            |            |            |            |                   |
| <b>Avg Within Lab SD</b>         | 0.91  |            | 0.2         |            | 0.17       |            | 0.21       |            | 0.45       |            |                   |
| <b>Labs Included</b>             | 1   |            | 1           |            | 1          |            | 1          |            | 1          |            |                   |
| <b>Labs Reporting</b>            | 1   |            | 1           |            | 1          |            | 1          |            | 1          |            |                   |



## ALP Program - Participant Web Summary Report - Cycle 29

|                    |         |         |                    |         |         |                    |         |         |                    |         |         |                    |         |         |
|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|
| 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 P1 (1:10) (SubTestCode 133) | in the Phosphorus and Sulfur Property Groups |      |     |            |      |     |            |       |      |            |      |     | Data units: mg/kg |       |     |
|--|--|------|-----|------------|------|-----|------------|-------|------|------------|------|-----|-------------------|-------|-----|
|  | SRSSRS1601                                   |      |     | SRSSRS1602 |      |     | SRSSRS1603 |       |      | SRSSRS1604 |      |     | SRSSRS1605        |       |     |
| AAUKBK                                 | 20.7   | 0.8  | 0.6 | 36.0       | 1.5  |     | 255.3      | 0.5   | 0.1  | 29.0       | 0.7  |     | 61.7              | -0.8  | 1.9 |
|  |  | 3.0  | 0.6 |            | 7.3  | 0.0 |            | 19.3  | 0.6  |            | 3.4  | 0.0 |                   | -8.3  | 4.7 |
| HRQGNA                                 | 27.0   | 2.4  | 1.0 | 43.0       | 2.9  | 1.1 | 224.0      | -0.3  | 0.2  | 29.0       | 0.7  | 1.0 | 79.0              | 0.9   | 0.4 |
|  |  | 9.4  | 1.0 |            | 14.3 | 1.0 |            | -12.0 | 1.7  |            | 3.4  | 1.0 |                   | 9.1   | 1.0 |
| P9QWN3                                 | 18.3   | 0.2  | 0.2 | 28.0       | -0.2 | 0.3 | 230.4      | -0.1  | 0.1  | 24.7       | -0.2 | 0.4 | 72.7              | 0.3   | 0.3 |
|  |  | 0.6  | 0.2 |            | -0.8 | 0.3 |            | -5.6  | 1.1  |            | -0.9 | 0.4 |                   | 2.7   | 0.8 |
| 83L8FJ                                 | 17.2   | -0.1 | 0.7 | 24.8       | -0.8 | 0.5 | 239.3      | 0.1   | 0.3  | 22.5       | -0.6 | 0.5 | 61.7              | -0.8  | 0.2 |
|  |  | -0.5 | 0.7 |            | -4.0 | 0.5 |            | 3.3   | 2.0  |            | -3.1 | 0.5 |                   | -8.2  | 0.4 |
| 644GFL                                 | 13.6   | -1.0 | 1.0 | 22.4       | -1.3 | 0.6 | 208.1      | -0.7  | 0.4  | 18.7       | -1.4 | 0.8 | 48.4              | -2.0  | 0.8 |
|  |  | -4.0 | 1.0 |            | -6.4 | 0.5 |            | -27.9 | 2.8  |            | -6.9 | 0.8 |                   | -21.5 | 1.9 |
| 2GK3BP                                 | 16.8   | -0.2 | 0.4 | 28.8       | 0.0  | 0.6 | 225.2      | -0.3  | 0.5  | 26.5       | 0.2  | 0.9 | 79.6              | 0.9   | 3.6 |
|  |  | -0.8 | 0.4 |            | 0.1  | 0.5 |            | -10.8 | 3.5  |            | 1.0  | 0.9 |                   | 9.7   | 9.0 |
| LM4ZL8                                 | 14.7   | -0.8 | 0.4 | 20.8       | -1.6 | 0.5 | 163.9      | -1.9  | 0.2  | 15.8       | -2.0 | 0.4 | 55.2              | -1.4  | 0.4 |
|  |  | -3.0 | 0.5 |            | -7.9 | 0.5 |            | -72.1 | 1.7  |            | -9.8 | 0.4 |                   | -14.7 | 1.0 |
| 6BMKMN                                 | 16.1   | -0.4 | 0.2 | 27.9       | -0.2 | 1.2 | 242.8      | 0.2   | 0.3  | 25.2       | -0.1 | 1.4 | 75.6              | 0.5   | 0.9 |
|  |  | -1.5 | 0.2 |            | -0.8 | 1.1 |            | 6.8   | 2.3  |            | -0.4 | 1.5 |                   | 5.7   | 2.2 |
| PFR9KY                                 | 17.4   | -0.1 | 2.1 | 30.6       | 0.4  | 1.0 | 255.7      | 0.5   | 4.2  | 24.2       | -0.3 | 1.2 | 63.2              | -0.6  | 0.2 |
|  |  | -0.2 | 2.2 |            | 1.9  | 0.9 |            | 19.7  | 31.8 |            | -1.4 | 1.3 |                   | -6.8  | 0.5 |
| K8VMR6                                 | 20.0   | 0.6  |     | 28.7       | 0.0  | 0.6 | 221.7      | -0.4  | 1.0  | 25.7       | 0.0  | 0.6 | 58.0              | -1.1  | 0.7 |
|  |  | 2.4  | 0.0 |            | -0.1 | 0.6 |            | -14.3 | 7.6  |            | 0.1  | 0.6 |                   | -11.9 | 1.7 |
| 6VACMK                                 | 16.0   | -0.4 |     | 31.7       | 0.6  | 0.6 | 279.7      | 1.2   | 0.5  | 25.3       | -0.1 | 0.6 | 72.0              | 0.2   | 0.4 |
|  |  | -1.6 | 0.0 |            | 2.9  | 0.6 |            | 43.7  | 4.0  |            | -0.3 | 0.6 |                   | 2.1   | 1.0 |
| DFA3JC                                 | 19.7   | 0.5  | 0.3 | 29.3       | 0.1  | 0.6 | 160.0      | -2.0  | 0.2  | 24.9       | -0.1 | 0.3 | 77.4              | 0.7   | 0.2 |
|  |  | 2.1  | 0.3 |            | 0.6  | 0.6 |            | -76.0 | 1.2  |            | -0.7 | 0.4 |                   | 7.4   | 0.5 |
| K2N3HD                                 | 16.4   | -0.3 | 0.3 | 28.8       | 0.0  | 0.7 | 236.0      | 0.0   | 0.5  | 26.6       | 0.2  | 0.8 | 58.3              | -1.1  | 0.6 |
|  |  | -1.2 | 0.3 |            | 0.1  | 0.6 |            | 0.0   | 3.5  |            | 1.0  | 0.9 |                   | -11.7 | 1.5 |
| YKBCLZ                                 | 17.8   | 0.0  | 0.2 | 34.0       | 1.1  | 0.1 | 268.8      | 0.9   | 0.3  | 32.5       | 1.4  | 0.2 | 82.6              | 1.2   | 0.1 |
|  |  | 0.1  | 0.3 |            | 5.2  | 0.1 |            | 32.8  | 2.1  |            | 6.9  | 0.2 |                   | 12.7  | 0.2 |
| 3KE7UV                                 | 13.9   | -1.0 | 0.2 | 25.5       | -0.7 | 1.3 | 297.0      | 1.6   | 1.6  | 22.0       | -0.8 | 1.2 | 65.5              | -0.4  | 0.3 |
|  |  | -3.8 | 0.2 |            | -3.2 | 1.3 |            | 61.0  | 12.2 |            | -3.6 | 1.3 |                   | -4.5  | 0.8 |
| LZMPAC                                 | 17.3   | -0.1 | 0.6 | 27.0       | -0.3 | 1.1 | 235.3      | 0.0   | 0.2  | 25.0       | -0.1 |     | 68.0              | -0.2  |     |
|  |  | -0.3 | 0.6 |            | -1.7 | 1.0 |            | -0.7  | 1.2  |            | -0.6 | 0.0 |                   | -1.9  | 0.0 |
| T84DB7                                 | 21.7   | 1.0  | 0.6 | 29.7       | 0.2  | 0.6 | 256.0      | 0.5   | 0.3  | 29.0       | 0.7  |     | 71.0              | 0.1   | 0.4 |
|  |  | 4.0  | 0.6 |            | 0.9  | 0.6 |            | 20.0  | 2.0  |            | 3.4  | 0.0 |                   | 1.1   | 1.0 |
| L2J8CD                                 | 17.5   | 0.0  | 0.1 | 26.0       | -0.5 | 0.6 | 242.3      | 0.2   | 0.2  | 21.2       | -0.9 | 0.2 | 75.2              | 0.5   | 0.2 |
|  |  | -0.1 | 0.2 |            | -2.7 | 0.5 |            | 6.3   | 1.2  |            | -4.4 | 0.2 |                   | 5.2   | 0.6 |
| 79D4JP                                 | 25.0   | 1.9  | 1.7 | 32.3       | 0.7  | 2.7 | 200.3      | -0.9  | 0.7  | 36.7       | 2.3  | 1.5 | 91.7              | 2.1   | 1.1 |
|  |  | 7.4  | 1.7 |            | 3.6  | 2.5 |            | -35.7 | 5.5  |            | 11.1 | 1.5 |                   | 21.7  | 2.9 |
| A9GXQK                                 | 18.7   | 0.3  | 1.5 | 31.7       | 0.6  | 1.6 | 279.7      | 1.2   | 1.7  | 25.5       | 0.0  | 0.5 | 68.3              | -0.2  | 0.8 |
|  |  | 1.0  | 1.5 |            | 2.9  | 1.4 |            | 43.7  | 12.7 |            | -0.1 | 0.5 |                   | -1.6  | 2.0 |



## ALP Program - Participant Web Summary Report - Cycle 29

|                          | 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>PWR8L8</b>            | <b>20.2</b> | 0.6        | 3.2     | <b>30.9</b> | 0.4        | 0.4     | <b>136.9</b> | -2.6       | 0.3     | <b>31.9</b> | 1.3        | 0.7     | <b>70.3</b> | 0.0        | 0.3     |
|                          |             | 2.5        | 3.3     |             | 2.1        | 0.4     |              | -99.1      | 2.4     |             | 6.4        | 0.8     |             | 0.3        | 0.7     |
| <b>VBVLAX</b>            | <b>19.3</b> | 0.4        | 0.6     | <b>26.0</b> | -0.6       | 1.1     | <b>240.3</b> | 0.1        | 0.3     | <b>31.0</b> | 1.1        | 2.5     | <b>73.3</b> | 0.3        | 0.8     |
|                          |             | 1.7        | 0.6     |             | -2.7       | 1.0     |              | 4.3        | 2.5     |             | 5.4        | 2.6     |             | 3.4        | 2.1     |
| <b>TJBJ2Y</b>            | <b>16.3</b> | -0.3       | 0.3     | <b>28.1</b> | -0.1       | 0.6     | <b>237.0</b> | 0.0        | 0.5     | <b>24.5</b> | -0.2       | 0.6     | <b>69.9</b> | 0.0        | 0.4     |
|                          |             | -1.3       | 0.3     |             | -0.6       | 0.6     |              | 1.0        | 3.6     |             | -1.1       | 0.7     |             | 0.0        | 1.1     |
| <b>3BBBBQ</b>            | <b>12.0</b> | -1.5       | 1.0     | <b>25.7</b> | -0.6       | 0.6     | <b>220.0</b> | -0.4       |         | <b>29.0</b> | 0.7        | 1.0     | <b>69.3</b> | -0.1       | 0.6     |
|                          |             | -5.6       | 1.0     |             | -3.1       | 0.6     |              | -16.0      | 0.0     |             | 3.4        | 1.0     |             | -0.6       | 1.5     |
| <b>4KCY3M</b>            | <b>20.0</b> | 0.6        | 1.0     | <b>26.7</b> | -0.4       | 0.6     | <b>236.7</b> | 0.0        | 0.6     | <b>25.7</b> | 0.0        | 0.6     | <b>69.3</b> | -0.1       | 2.0     |
|                          |             | 2.4        | 1.0     |             | -2.1       | 0.6     |              | 0.7        | 4.6     |             | 0.1        | 0.6     |             | -0.6       | 5.1     |
| <b>DURWNB</b>            | <b>25.0</b> | 1.9        |         | <b>37.7</b> | 1.8        | 1.6     | <b>212.3</b> | -0.6       | 0.3     | <b>34.7</b> | 1.9        | 2.4     | <b>85.7</b> | 1.5        | 0.5     |
|                          |             | 7.4        | 0.0     |             | 8.9        | 1.5     |              | -23.7      | 2.5     |             | 9.1        | 2.5     |             | 15.7       | 1.2     |
| <b>VNJNRP</b>            |             |            |         |             |            |         | <b>201.5</b> | -0.9       |         | <b>25.6</b> | 0.0        |         | <b>67.9</b> | -0.2       |         |
|                          |             |            |         |             |            |         |              | -34.5      | 0.0     |             | 0.0        | 0.0     |             | -2.0       | 0.0     |
| <b>Grand Median</b>      |             | 17.6       |         | 28.7        |            |         | 236.0        |            |         | 25.6        |            |         | 69.9        |            |         |
| <b>Median Abs Dev</b>    |             | 1.9        |         | 2.7         |            |         | 19.3         |            |         | 3.1         |            |         | 5.7         |            |         |
| <b>Avg Within Lab SD</b> |             | 1.0        |         | 0.9         |            |         | 7.5          |            |         | 1.0         |            |         | 2.5         |            |         |
| <b>Labs Included</b>     |             | 26         |         | 26          |            |         | 27           |            |         | 27          |            |         | 27          |            |         |
| <b>Labs Reporting</b>    |             | 26         |         | 26          |            |         | 27           |            |         | 27          |            |         | 27          |            |         |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 134) | in the Phosphorus and Sulfur Property Groups |      |     |             |      |     |              |       |      |             |      |     | Data units: mg/kg |      |     |
|--------------------------------------|--|------|-----|-------------|------|-----|--------------|-------|------|-------------|------|-----|-------------------|------|-----|
|                                      | SRSSRS1601                                   |      |     | SRSSRS1602  |      |     | SRSSRS1603   |       |      | SRSSRS1604  |      |     | SRSSRS1605        |      |     |
| <b>GZ63WD</b>                        | <b>12.1</b>                                  | -0.8 | 0.6 | <b>20.2</b> | -0.3 | 0.7 | <b>160.7</b> | 0.0   | 0.2  | <b>21.0</b> | -0.6 | 0.9 | <b>62.1</b>       | 0.0  | 1.4 |
|                                      |  | -1.9 | 0.9 |             | -1.5 | 0.6 |              | 0.0   | 2.1  |             | -1.0 | 1.0 |                   | 0.0  | 3.7 |
| <b>33JQFQ</b>                        | <b>14.0</b>                                  | 0.0  | 0.6 | <b>17.0</b> | -1.0 | 1.2 | <b>78.0</b>  | -1.1  | 0.1  | <b>22.0</b> | 0.0  | 0.0 | <b>65.7</b>       | 0.4  | 1.6 |
|                                      |  | 0.0  | 1.0 |             | -4.7 | 1.0 |              | -82.7 | 1.0  |             | 0.0  | 0.0 |                   | 3.5  | 4.2 |
| <b>PFR9KY</b>                        | <b>17.4</b>                                  | 1.4  | 1.4 | <b>30.6</b> | 2.0  | 1.1 | <b>255.7</b> | 1.3   | 2.5  | <b>24.2</b> | 1.3  | 1.1 | <b>63.2</b>       | 0.1  | 0.2 |
|                                      |  | 3.4  | 2.2 |             | 8.9  | 0.9 |              | 94.9  | 31.8 |             | 2.2  | 1.3 |                   | 1.0  | 0.5 |
| <b>T9EFX6</b>                        | <b>12.5</b>                                  | -0.6 | 1.3 | <b>20.0</b> | -0.4 | 1.7 | <b>129.0</b> | -0.4  | 0.3  | <b>23.5</b> | 0.9  | 1.9 | <b>89.5</b>       | 3.4  | 1.4 |
|                                      |  | -1.5 | 2.1 |             | -1.7 | 1.4 |              | -31.7 | 4.2  |             | 1.5  | 2.1 |                   | 27.4 | 3.5 |
| <b>C8H8XB</b>                        | <b>10.0</b>                                  | -1.6 | 1.6 | <b>23.5</b> | 0.4  | 0.4 | <b>176.3</b> | 0.2   | 0.7  | <b>24.1</b> | 1.2  | 0.8 | <b>61.3</b>       | -0.1 | 0.4 |
|                                      |  | -4.0 | 2.6 |             | 1.8  | 0.3 |              | 15.6  | 9.3  |             | 2.1  | 0.9 |                   | -0.8 | 1.1 |
| <b>PHEWWY</b>                        | <b>14.2</b>                                  | 0.1  | 0.1 | <b>24.3</b> | 0.6  | 0.8 | <b>267.0</b> | 1.4   | 0.5  | <b>21.5</b> | -0.3 | 0.9 | <b>60.0</b>       | -0.3 | 0.2 |
|                                      |  | 0.2  | 0.2 |             | 2.6  | 0.6 |              | 106.2 | 6.1  |             | -0.5 | 1.0 |                   | -2.1 | 0.6 |
| <b>XYFCWR</b>                        | <b>14.7</b>                                  | 0.3  | 0.0 | <b>21.7</b> | 0.0  | 0.1 | <b>133.7</b> | -0.4  | 0.1  | <b>21.2</b> | -0.5 | 0.1 | <b>59.2</b>       | -0.4 | 0.0 |
|                                      |  | 0.7  | 0.0 |             | 0.0  | 0.1 |              | -27.0 | 1.8  |             | -0.8 | 0.1 |                   | -3.0 | 0.0 |
| <b>Grand Median</b>                  |  | 14.0 |     | 21.7        |      |     | 160.7        |       |      | 22.0        |      |     | 62.1              |      |     |
| <b>Median Abs Dev</b>                |  | 1.5  |     | 1.8         |      |     | 31.7         |       |      | 1.0         |      |     | 2.1               |      |     |
| <b>Avg Within Lab SD</b>             |  | 1.6  |     | 0.8         |      |     | 12.9         |       |      | 1.1         |      |     | 2.5               |      |     |
| <b>Labs Included</b>                 |  | 7    |     | 7           |      |     | 7            |       |      | 7           |      |     | 7                 |      |     |
| <b>Labs Reporting</b>                |  | 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 |         |         |

|               | PO4-P Olsen/Bicarb (1:20) (SubTestCode 135) in the Phosphorus and Sulfur Property Groups |      |     |             |      |     |             |       |     |             |      |     |             |      |     | Data units: mg/kg |
|---------------|--|------|-----|-------------|------|-----|-------------|-------|-----|-------------|------|-----|-------------|------|-----|-------------------|
|               | SRSSRS1601   |      |     | SRSSRS1602  |      |     | SRSSRS1603  |       |     | SRSSRS1604  |      |     | SRSSRS1605  |      |     |                   |
| <b>AAUKBK</b> | <b>11.3</b>  | -0.2 | 0.7 | <b>14.7</b> | -0.1 | 0.5 | <b>61.0</b> | -0.5  | 0.3 | <b>11.7</b> | -0.2 | 0.7 | <b>19.0</b> | -0.5 | 0.7 |                   |
|               |  | -0.8 | 0.6 |             | -0.5 | 0.6 |             | -6.9  | 1.0 |             | -0.7 | 0.6 |             | -4.3 | 1.0 |                   |
| <b>GZ63WD</b> | <b>10.1</b>  | -0.6 | 1.7 | <b>14.7</b> | -0.1 | 1.4 | <b>60.3</b> | -0.6  | 1.0 | <b>11.0</b> | -0.4 | 1.7 | <b>18.5</b> | -0.6 | 1.1 |                   |
|               |  | -2.0 | 1.4 |             | -0.5 | 1.5 |             | -7.6  | 2.9 |             | -1.3 | 1.4 |             | -4.9 | 1.5 |                   |
| <b>CJTVUF</b> | <b>11.7</b>  | -0.1 | 1.5 | <b>14.1</b> | -0.2 | 0.5 | <b>54.3</b> | -1.1  | 0.2 | <b>11.8</b> | -0.2 | 1.7 | <b>22.9</b> | -0.1 | 1.1 |                   |
|               |  | -0.4 | 1.3 |             | -1.0 | 0.6 |             | -13.6 | 0.6 |             | -0.5 | 1.4 |             | -0.4 | 1.6 |                   |
| <b>83L8FJ</b> | <b>14.0</b>  | 0.6  | 0.7 | <b>17.0</b> | 0.4  | 0.6 | <b>66.2</b> | -0.1  | 0.2 | <b>9.2</b>  | -0.9 | 0.4 | <b>24.6</b> | 0.2  | 0.3 |                   |
|               |  | 1.9  | 0.6 |             | 1.9  | 0.6 |             | -1.7  | 0.5 |             | -3.1 | 0.3 |             | 1.3  | 0.5 |                   |
| <b>BFZE6F</b> | <b>15.8</b>  | 1.1  | 0.0 | <b>16.7</b> | 0.3  | 0.2 | <b>65.5</b> | -0.2  | 0.5 | <b>10.4</b> | -0.6 | 0.3 | <b>19.0</b> | -0.5 | 0.2 |                   |
|               |  | 3.7  | 0.0 |             | 1.6  | 0.2 |             | -2.5  | 1.5 |             | -1.9 | 0.2 |             | -4.3 | 0.3 |                   |
| <b>2GK3BP</b> | <b>10.5</b>  | -0.5 | 0.0 | <b>13.2</b> | -0.4 | 0.3 | <b>64.7</b> | -0.3  | 1.9 | <b>11.2</b> | -0.4 | 0.7 | <b>22.5</b> | -0.1 | 0.5 |                   |
|               |  | -1.6 | 0.0 |             | -2.0 | 0.3 |             | -3.2  | 5.3 |             | -1.2 | 0.6 |             | -0.8 | 0.7 |                   |
| <b>33JQFQ</b> | <b>12.3</b>  | 0.1  | 1.8 | <b>14.3</b> | -0.2 | 3.9 | <b>69.3</b> | 0.1   | 3.3 | <b>11.3</b> | -0.3 | 2.8 | <b>23.3</b> | 0.0  | 2.9 |                   |
|               |  | 0.2  | 1.5 |             | -0.9 | 4.2 |             | 1.4   | 9.5 |             | -1.0 | 2.3 |             | 0.0  | 4.0 |                   |
| <b>XNBEWV</b> | <b>10.7</b>  | -0.4 | 0.7 | <b>13.9</b> | -0.3 | 0.1 | <b>52.2</b> | -1.2  | 1.5 | <b>8.6</b>  | -1.1 | 0.5 | <b>14.4</b> | -1.1 | 0.3 |                   |
|               |  | -1.4 | 0.6 |             | -1.3 | 0.1 |             | -15.7 | 4.2 |             | -3.8 | 0.4 |             | -9.0 | 0.5 |                   |
| <b>LM4ZL8</b> | <b>14.0</b>  | 0.6  | 0.5 | <b>13.5</b> | -0.4 | 0.6 | <b>96.6</b> | 2.3   | 0.4 | <b>20.0</b> | 2.3  | 1.2 | <b>29.7</b> | 0.8  | 1.1 |                   |
|               |  | 1.9  | 0.4 |             | -1.7 | 0.7 |             | 28.7  | 1.1 |             | 7.7  | 1.0 |             | 6.3  | 1.5 |                   |
| <b>6BMKMN</b> | <b>14.0</b>  | 0.6  | 1.0 | <b>13.5</b> | -0.4 | 0.5 | <b>67.9</b> | 0.0   | 1.1 | <b>13.6</b> | 0.4  | 0.5 | <b>32.9</b> | 1.2  | 0.7 |                   |
|               |  | 1.9  | 0.8 |             | -1.7 | 0.5 |             | 0.0   | 3.3 |             | 1.3  | 0.4 |             | 9.5  | 1.1 |                   |
| <b>9JP2MJ</b> | <b>13.2</b>  | 0.3  | 0.3 | <b>5.4</b>  | -2.1 | 0.1 | <b>81.6</b> | 1.1   | 0.5 | <b>13.4</b> | 0.3  | 1.9 | <b>26.2</b> | 0.3  | 1.2 |                   |
|               |  | 1.1  | 0.3 |             | -9.8 | 0.1 |             | 13.7  | 1.4 |             | 1.1  | 1.6 |             | 2.8  | 1.7 |                   |
| <b>PFR9KY</b> | <b>13.0</b>  | 0.3  | 0.7 | <b>16.4</b> | 0.3  | 0.6 | <b>70.5</b> | 0.2   | 0.5 | <b>12.6</b> | 0.1  | 0.3 | <b>19.0</b> | -0.5 | 0.2 |                   |
|               |  | 0.9  | 0.6 |             | 1.2  | 0.7 |             | 2.6   | 1.4 |             | 0.2  | 0.2 |             | -4.3 | 0.3 |                   |
| <b>K8VMR6</b> | <b>15.3</b>  | 1.0  | 0.7 | <b>18.7</b> | 0.8  | 0.5 | <b>45.7</b> | -1.7  | 0.4 | <b>14.7</b> | 0.7  | 0.7 | <b>26.0</b> | 0.3  |     |                   |
|               |  | 3.2  | 0.6 |             | 3.5  | 0.6 |             | -22.2 | 1.2 |             | 2.3  | 0.6 |             | 2.7  | 0.0 |                   |
| <b>FPNYC9</b> | <b>24.1</b>  | 3.7  | 1.0 | <b>31.4</b> | 3.5  | 0.7 | <b>85.0</b> | 1.3   | 1.2 | <b>19.1</b> | 2.0  | 0.2 | <b>35.2</b> | 1.5  | 1.5 |                   |
|               |  | 12.0 | 0.9 |             | 16.3 | 0.7 |             | 17.1  | 3.5 |             | 6.8  | 0.2 |             | 11.8 | 2.1 |                   |
| <b>WGX7VT</b> | <b>12.4</b>  | 0.1  | 0.0 | <b>18.4</b> | 0.7  | 0.5 | <b>86.9</b> | 1.5   | 0.2 | <b>15.4</b> | 0.9  | 0.2 | <b>33.6</b> | 1.3  | 0.6 |                   |
|               |  | 0.3  | 0.0 |             | 3.2  | 0.5 |             | 19.0  | 0.5 |             | 3.1  | 0.1 |             | 10.3 | 0.8 |                   |
| <b>QECBRZ</b> | <b>12.6</b>  | 0.2  | 1.0 | <b>18.3</b> | 0.7  | 0.3 | <b>76.5</b> | 0.7   | 1.1 | <b>16.3</b> | 1.2  | 0.8 | <b>22.9</b> | -0.1 | 0.4 |                   |
|               |  | 0.5  | 0.8 |             | 3.2  | 0.3 |             | 8.6   | 3.1 |             | 4.0  | 0.7 |             | -0.4 | 0.6 |                   |
| <b>6VACMK</b> | <b>10.7</b>  | -0.4 | 0.7 | <b>13.3</b> | -0.4 | 0.5 | <b>67.3</b> | 0.0   | 0.4 | <b>11.0</b> | -0.4 |     | <b>24.7</b> | 0.2  | 0.8 |                   |
|               |  | -1.4 | 0.6 |             | -1.9 | 0.6 |             | -0.6  | 1.2 |             | -1.3 | 0.0 |             | 1.3  | 1.2 |                   |
| <b>RMZ998</b> | <b>10.7</b>  | -0.4 | 0.7 | <b>15.0</b> | 0.0  | 1.6 | <b>55.7</b> | -1.0  | 0.2 | <b>13.3</b> | 0.3  | 0.7 | <b>21.7</b> | -0.2 | 1.1 |                   |
|               |  | -1.4 | 0.6 |             | -0.2 | 1.7 |             | -12.2 | 0.6 |             | 1.0  | 0.6 |             | -1.7 | 1.5 |                   |
| <b>LZMPAC</b> | <b>11.7</b>  | -0.1 | 0.7 | <b>17.3</b> | 0.5  | 1.4 | <b>66.0</b> | -0.1  | 0.3 | <b>12.3</b> | 0.0  | 0.7 | <b>24.0</b> | 0.1  | 1.4 |                   |
|               |  | -0.4 | 0.6 |             | 2.2  | 1.5 |             | -1.9  | 1.0 |             | 0.0  | 0.6 |             | 0.7  | 2.0 |                   |
| <b>BMDAYP</b> | <b>10.6</b>  | -0.5 | 2.5 | <b>14.0</b> | -0.3 | 1.6 | <b>59.3</b> | -0.7  | 0.4 | <b>11.7</b> | -0.2 | 2.5 | <b>16.7</b> | -0.8 | 1.1 |                   |
|               |  | -1.5 | 2.1 |             | -1.2 | 1.7 |             | -8.6  | 1.2 |             | -0.7 | 2.1 |             | -6.7 | 1.5 |                   |



## ALP Program - Participant Web Summary Report - Cycle 29

|                          | 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>T84DB7</b>            | <b>12.0</b> | 0.0        | 1.1     | <b>15.4</b> | 0.0        | 0.6     | <b>69.4</b>  | 0.1        | 0.4     | <b>12.7</b> | 0.1        | 0.3     | <b>29.1</b> | 0.7        | 1.5     |
|                          |             | -0.1       | 0.9     |             | 0.2        | 0.6     |              | 1.5        | 1.2     |             | 0.4        | 0.3     |             | 5.8        | 2.2     |
| <b>UNPG82</b>            | <b>14.8</b> | 0.8        | 0.4     | <b>12.8</b> | -0.5       | 1.7     | <b>67.8</b>  | 0.0        | 0.2     | <b>9.3</b>  | -0.9       | 0.2     | <b>17.4</b> | -0.7       | 0.5     |
|                          |             | 2.7        | 0.4     |             | -2.4       | 1.8     |              | -0.1       | 0.5     |             | -3.1       | 0.2     |             | -5.9       | 0.7     |
| <b>VBVLAX</b>            | <b>13.0</b> | 0.3        | 1.2     | <b>16.0</b> | 0.2        | 0.9     | <b>69.7</b>  | 0.1        | 0.7     | <b>12.3</b> | 0.0        | 0.7     | <b>25.7</b> | 0.3        | 0.8     |
|                          |             | 0.9        | 1.0     |             | 0.8        | 1.0     |              | 1.8        | 2.1     |             | 0.0        | 0.6     |             | 2.3        | 1.2     |
| <b>AM2DUK</b>            | <b>11.3</b> | -0.2       | 0.7     | <b>17.3</b> | 0.5        | 0.5     | <b>79.0</b>  | 0.9        | 0.6     | <b>12.7</b> | 0.1        | 0.7     | <b>19.3</b> | -0.5       | 0.4     |
|                          |             | -0.8       | 0.6     |             | 2.2        | 0.6     |              | 11.1       | 1.7     |             | 0.3        | 0.6     |             | -4.0       | 0.6     |
| <b>3BBBBQ</b>            | <b>11.0</b> | -0.3       |         | <b>13.0</b> | -0.5       |         | <b>69.7</b>  | 0.1        | 0.5     | <b>15.7</b> | 1.0        | 0.7     | <b>31.7</b> | 1.0        | 1.1     |
|                          |             | -1.1       | 0.0     |             | -2.2       | 0.0     |              | 1.8        | 1.5     |             | 3.3        | 0.6     |             | 8.3        | 1.5     |
| <b>4JGF2L</b>            | <b>2.9</b>  | -2.8       | 0.3     | <b>10.0</b> | -1.1       | 0.2     | <b>72.6</b>  | 0.4        | 0.5     | <b>14.6</b> | 0.7        | 0.6     | <b>29.5</b> | 0.8        | 0.9     |
|                          |             | -9.2       | 0.2     |             | -5.2       | 0.2     |              | 4.7        | 1.5     |             | 2.3        | 0.5     |             | 6.1        | 1.3     |
| <b>YTJ7GT</b>            | <b>12.5</b> | 0.1        |         | <b>18.4</b> | 0.7        |         | <b>71.6</b>  | 0.3        |         | <b>11.6</b> | -0.2       |         | <b>18.9</b> | -0.5       |         |
|                          |             | 0.4        | 0.0     |             | 3.2        | 0.0     |              | 3.7        | 0.0     |             | -0.7       | 0.0     |             | -4.4       | 0.0     |
| <b>MZGWVZ</b>            | <b>7.5</b>  | -1.4       | 1.0     | <b>9.5</b>  | -1.2       | 0.5     | <b>54.0</b>  | -1.1       | 1.0     | <b>4.3</b>  | -2.4       | 0.6     | <b>1.6</b>  | -2.7       | 0.1     |
|                          |             | -4.6       | 0.8     |             | -5.7       | 0.5     |              | -13.9      | 3.0     |             | -8.0       | 0.5     |             | -21.7      | 0.2     |
| <b>C8H8XB</b>            | <b>10.9</b> | -0.4       | 0.7     | <b>16.2</b> | 0.2        | 0.2     | <b>63.5</b>  | -0.3       | 1.1     | <b>10.9</b> | -0.4       | 0.3     | <b>18.9</b> | -0.5       | 0.1     |
|                          |             | -1.2       | 0.6     |             | 1.1        | 0.2     |              | -4.4       | 3.2     |             | -1.5       | 0.2     |             | -4.4       | 0.2     |
| <b>PHEWWY</b>            | <b>12.3</b> | 0.0        | 1.4     | <b>17.8</b> | 0.6        | 0.9     | <b>81.7</b>  | 1.1        | 0.6     | <b>12.8</b> | 0.1        | 1.4     | <b>27.1</b> | 0.5        | 0.9     |
|                          |             | 0.1        | 1.2     |             | 2.6        | 1.0     |              | 13.8       | 1.7     |             | 0.5        | 1.2     |             | 3.8        | 1.3     |
| <b>X3EMTR</b>            | <b>9.5</b>  | -0.8       | 0.3     | <b>12.2</b> | -0.6       | 0.2     | <b>58.6</b>  | -0.7       | 0.0     | <b>9.8</b>  | -0.8       | 0.2     | <b>15.3</b> | -1.0       | 0.1     |
|                          |             | -2.6       | 0.3     |             | -3.0       | 0.2     |              | -9.3       | 0.1     |             | -2.5       | 0.1     |             | -8.1       | 0.1     |
| <b>XYFCWR</b>            | <b>15.9</b> | 1.2        | 0.3     | <b>21.3</b> | 1.3        | 0.2     | <b>79.0</b>  | 0.9        | 0.1     | <b>14.0</b> | 0.5        | 0.2     | <b>24.5</b> | 0.1        | 0.2     |
|                          |             | 3.8        | 0.2     |             | 6.1        | 0.2     |              | 11.1       | 0.4     |             | 1.7        | 0.2     |             | 1.1        | 0.2     |
| <b>J6NUD7</b>            | <b>33.1</b> | 6.4        | 0.4     | <b>44.1</b> | 6.3        | 1.1     | <b>138.1</b> | 5.5        | 2.6     | <b>29.6</b> | 5.2        | 1.0     | <b>51.5</b> | 3.5        | 0.5     |
|                          |             | 20.9       | 0.3     |             | 28.9       | 1.2     |              | 70.2       | 7.3     |             | 17.3       | 0.8     |             | 28.2       | 0.7     |
| <b>VNJNRP</b>            | <b>11.4</b> | -0.2       |         | <b>17.6</b> | 0.5        |         |              |            |         |             |            |         |             |            |         |
|                          |             | -0.7       | 0.0     |             | 2.4        | 0.0     |              |            |         |             |            |         |             |            |         |
| <b>DYXQH7</b>            | <b>19.5</b> | 2.3        | 2.2     | <b>28.8</b> | 2.9        | 0.3     | <b>86.0</b>  | 1.4        | 2.3     | <b>19.0</b> | 2.0        | 0.2     | <b>43.5</b> | 2.5        | 2.1     |
|                          |             | 7.4        | 1.8     |             | 13.6       | 0.3     |              | 18.1       | 6.6     |             | 6.6        | 0.2     |             | 20.2       | 2.9     |
| <b>Grand Median</b>      |             | 12.1       |         |             | 15.2       |         |              | 67.9       |         |             | 12.3       |         |             | 23.3       |         |
| <b>Median Abs Dev</b>    |             | 1.4        |         |             | 2.1        |         |              | 7.6        |         |             | 1.3        |         |             | 4.3        |         |
| <b>Avg Within Lab SD</b> |             | 0.8        |         |             | 1.1        |         |              | 2.9        |         |             | 0.8        |         |             | 1.4        |         |
| <b>Labs Included</b>     |             | 34         |         |             | 34         |         |              | 33         |         |             | 33         |         |             | 33         |         |
| <b>Labs Reporting</b>    |             | 34         |         |             | 34         |         |              | 33         |         |             | 33         |         |             | 33         |         |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 136) | in the Phosphorus and Sulfur Property Groups |      |             |      |            |      |            |      |            |      | Data units: mg/kg |
|-----------------------------------|--|------|-------------|------|------------|------|------------|------|------------|------|-------------------|
|                                   | SRSSRS1601                                   |      | SRSSRS1602  |      | SRSSRS1603 |      | SRSSRS1604 |      | SRSSRS1605 |      |                   |
| <b>AAUKBK</b>                     | <b>11.9</b>                                  | 0.0  | <b>12.2</b> | 0.1  | <b>9.5</b> | 0.0  | <b>2.3</b> | 1.7  | <b>5.4</b> | 0.2  |                   |
|                                   |  | 0.0  |             | 0.1  |            | 0.0  |            | 0.1  |            | 0.1  |                   |
| <b>LVRZT6</b>                     | <b>7.3</b>                                   | 1.4  | <b>8.3</b>  | 1.4  | <b>5.3</b> | 1.4  | <b>1.0</b> | 0.0  | <b>2.3</b> | 1.4  |                   |
|                                   |  | 0.6  |             | 0.6  |            | 1.5  |            | 0.0  |            | 0.6  |                   |
| <b>4JGF2L</b>                     |  |      |             |      | <b>0.3</b> | 0.0  | <b>0.0</b> | 0.3  |            | 0.0  |                   |
|                                   |  |      |             |      |            | 0.0  |            | 0.0  |            |      |                   |
| <b>Grand Median</b>               |  | 9.62 |             | 10.3 |            | 5.33 |            | 1.00 |            | 3.87 |                   |
| <b>Median Abs Dev</b>             |  |      |             |      |            |      |            |      |            |      |                   |
| <b>Avg Within Lab SD</b>          |  | 0.41 |             | 0.4  |            | 1.08 |            | 0.06 |            | 0.41 |                   |
| <b>Labs Included</b>              |  | 2    |             | 2    |            | 3    |            | 3    |            | 2    |                   |
| <b>Labs Reporting</b>             |  | 2    |             | 2    |            | 3    |            | 3    |            | 2    |                   |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 137) | in the Phosphorus and Sulfur Property Groups |            |             |            |              |     |             |            |             |            | Data units: mg/kg |
|--------------------------------------|--|------------|-------------|------------|--------------|-----|-------------|------------|-------------|------------|-------------------|
|                                      | SRSSRS1601                                   |            | SRSSRS1602  |            | SRSSRS1603   |     | SRSSRS1604  |            | SRSSRS1605  |            |                   |
| <b>AM2DUK</b>                        | <b>15.7</b>                                  | 1.4<br>0.6 | <b>25.3</b> | 1.4<br>0.6 | <b>180.0</b> | 0.0 | <b>20.7</b> | 1.4<br>1.2 | <b>44.3</b> | 1.4<br>2.3 |                   |
| <b>YTJ7GT</b>                        | <b>13.9</b>                                  | 0.0        | <b>20.7</b> | 0.0        | <b>122.0</b> | 0.0 | <b>16.1</b> | 0.0        | <b>41.4</b> | 0.0        |                   |
| <b>Grand Median</b>                  | 14.8   |            | 23.0        |            | 151.0        |     | 18.4        |            | 42.9        |            |                   |
| <b>Median Abs Dev</b>                |  |            |             |            |              |     |             |            |             |            |                   |
| <b>Avg Within Lab SD</b>             | 0.4  |            | 0.4         |            | 0.0          |     | 0.8         |            | 1.6         |            |                   |
| <b>Labs Included</b>                 | 2  |            | 2           |            | 2            |     | 2           |            | 2           |            |                   |
| <b>Labs Reporting</b>                | 2  |            | 2           |            | 2            |     | 2           |            | 2           |            |                   |





## ALP Program - Participant Web Summary Report - Cycle 29

| 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 138) | in the Phosphorus and Sulfur Property Groups |       |     |              |       |     |              |        |      |             |      |     | Data units: mg/kg |       |     |
|--|--|-------|-----|--------------|-------|-----|--------------|--------|------|-------------|------|-----|-------------------|-------|-----|
|  | SRSSRS1601                                   |       |     | SRSSRS1602   |       |     | SRSSRS1603   |        |      | SRSSRS1604  |      |     | SRSSRS1605        |       |     |
| <b>AAUKBK</b>                              | <b>77.3</b>                                  | 0.3   | 0.7 | <b>110.0</b> | 0.3   | 0.3 | <b>428.0</b> | -0.3   | 0.2  | <b>44.3</b> | 0.1  | 0.4 | <b>66.0</b>       | -1.8  | 0.4 |
|  |  | 3.5   | 1.5 |              | 2.0   | 1.0 |              | -22.3  | 2.0  |             | 0.5  | 0.6 |                   | -19.8 | 1.0 |
| <b>83L8FJ</b>                              | <b>80.9</b>                                  | 0.7   | 0.5 | <b>120.0</b> | 1.6   | 1.2 | <b>474.6</b> | 0.3    | 0.7  | <b>42.4</b> | -0.2 | 0.5 | <b>83.7</b>       | -0.2  | 0.3 |
|  |  | 7.0   | 1.1 |              | 12.0  | 3.6 |              | 24.3   | 8.9  |             | -1.4 | 0.7 |                   | -2.2  | 0.8 |
| <b>2GK3BP</b>                              | <b>73.1</b>                                  | -0.1  | 2.3 | <b>110.8</b> | 0.4   | 1.4 | <b>503.6</b> | 0.7    | 1.6  | <b>48.2</b> | 0.8  | 1.4 | <b>99.2</b>       | 1.2   | 0.4 |
|  |  | -0.8  | 5.3 |              | 2.8   | 4.2 |              | 53.3   | 19.8 |             | 4.3  | 2.0 |                   | 13.4  | 0.9 |
| <b>6BMKMN</b>                              | <b>74.7</b>                                  | 0.1   | 0.7 | <b>106.2</b> | -0.2  | 0.8 | <b>383.7</b> | -0.8   | 0.5  | <b>43.3</b> | -0.1 | 0.4 | <b>91.7</b>       | 0.5   | 0.2 |
|  |  | 0.8   | 1.5 |              | -1.8  | 2.4 |              | -66.7  | 6.8  |             | -0.5 | 0.6 |                   | 5.9   | 0.5 |
| <b>6VACMK</b>                              | <b>79.3</b>                                  | 0.5   | 0.7 | <b>107.0</b> | -0.1  | 1.2 | <b>505.3</b> | 0.7    | 1.9  | <b>44.7</b> | 0.1  | 0.4 | <b>86.3</b>       | 0.0   | 0.7 |
|  |  | 5.5   | 1.5 |              | -1.0  | 3.6 |              | 55.0   | 23.7 |             | 0.8  | 0.6 |                   | 0.5   | 1.5 |
| <b>T9EFX6</b>                              | <b>53.0</b>                                  | -2.1  |     | <b>109.0</b> | 0.1   |     | <b>314.0</b> | -1.7   |      | <b>40.0</b> | -0.7 |     | <b>89.0</b>       | 0.3   |     |
|  |  | -20.9 | 0.0 |              | 1.0   | 0.0 |              | -136.3 | 0.0  |             | -3.8 | 0.0 |                   | 3.2   | 0.0 |
| <b>LZMPAC</b>                              | <b>61.3</b>                                  | -1.2  | 0.3 | <b>92.0</b>  | -2.1  | 0.3 | <b>392.7</b> | -0.7   | 0.2  | <b>38.3</b> | -1.0 | 1.5 | <b>85.3</b>       | 0.0   | 1.4 |
|  |  | -12.5 | 0.6 |              | -16.0 | 1.0 |              | -57.7  | 2.1  |             | -5.5 | 2.1 |                   | -0.5  | 3.1 |
| <b>VBVLAX</b>                              | <b>70.7</b>                                  | -0.3  | 0.9 | <b>103.0</b> | -0.6  | 1.5 | <b>472.7</b> | 0.3    | 1.0  | <b>57.3</b> | 2.4  | 1.8 | <b>73.3</b>       | -1.2  | 2.3 |
|  |  | -3.2  | 2.1 |              | -5.0  | 4.6 |              | 22.3   | 12.5 |             | 13.5 | 2.5 |                   | -12.5 | 5.0 |
| <b>Grand Median</b>                        |  | 73.9  |     | 108.0        |       |     | 450.3        |        |      | 43.8        |      |     | 85.8              |       |     |
| <b>Median Abs Dev</b>                      |  | 4.5   |     | 2.4          |       |     | 54.2         |        |      | 2.6         |      |     | 4.5               |       |     |
| <b>Avg Within Lab SD</b>                   |  | 2.3   |     | 3.0          |       |     | 12.5         |        |      | 1.4         |      |     | 2.2               |       |     |
| <b>Labs Included</b>                       |  | 8     |     | 8            |       |     | 8            |        |      | 8           |      |     | 8                 |       |     |
| <b>Labs Reporting</b>                      |  | 8     |     | 8            |       |     | 8            |        |      | 8           |      |     | 8                 |       |     |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 140) | in the Phosphorus and Sulfur Property Groups |       |      |              |       |      |              |       |      |              |        |      |              |       | Data units: mg/kg |  |  |
|---------------------------------------|--|-------|------|--------------|-------|------|--------------|-------|------|--------------|--------|------|--------------|-------|-------------------|--|--|
|                                       | SRSSRS1601                                   |       |      | SRSSRS1602   |       |      | SRSSRS1603   |       |      | SRSSRS1604   |        |      | SRSSRS1605   |       |                   |  |  |
| <b>YAA32W</b>                         | <b>2.50</b>                                  | -0.24 | 1.01 | <b>6.00</b>  | -0.11 | 1.13 | <b>9.67</b>  | 0.20  | 0.45 | <b>40.00</b> | 0.39   | 0.33 | <b>3.67</b>  | -0.22 | 0.66              |  |  |
|                                       |  | -0.83 | 0.50 |              | -0.33 | 0.50 |              | 1.01  | 0.29 |              | 4.70   | 0.50 |              | -0.58 | 0.29              |  |  |
| <b>GZ63WD</b>                         | <b>1.70</b>                                  | -0.47 | 0.40 | <b>5.40</b>  | -0.32 | 1.59 | <b>9.87</b>  | 0.24  | 0.94 | <b>35.30</b> | 0.00   | 0.90 | <b>4.47</b>  | 0.08  | 0.58              |  |  |
|                                       |  | -1.63 | 0.20 |              | -0.93 | 0.70 |              | 1.21  | 0.60 |              | 0.00   | 1.35 |              | 0.22  | 0.25              |  |  |
| <b>83L8FJ</b>                         | <b>9.93</b>                                  | 1.90  | 0.99 | <b>9.98</b>  | 1.25  | 0.75 | <b>11.32</b> | 0.53  | 0.31 | <b>48.78</b> | 1.13   | 0.78 | <b>8.43</b>  | 1.60  | 1.44              |  |  |
|                                       |  | 6.60  | 0.49 |              | 3.64  | 0.33 |              | 2.67  | 0.20 |              | 13.48  | 1.18 |              | 4.18  | 0.63              |  |  |
| <b>BFZE6F</b>                         | <b>2.87</b>                                  | -0.14 | 0.28 | <b>6.27</b>  | -0.02 | 0.17 | <b>8.66</b>  | 0.00  | 0.21 | <b>32.20</b> | -0.26  | 0.35 | <b>3.31</b>  | -0.36 | 0.31              |  |  |
|                                       |  | -0.47 | 0.14 |              | -0.07 | 0.08 |              | 0.00  | 0.14 |              | -3.10  | 0.53 |              | -0.94 | 0.13              |  |  |
| <b>644GFL</b>                         | <b>2.91</b>                                  | -0.12 | 0.27 | <b>6.90</b>  | 0.19  | 0.23 | <b>3.26</b>  | -1.08 | 0.10 | <b>23.90</b> | -0.96  | 0.33 | <b>2.72</b>  | -0.59 | 0.33              |  |  |
|                                       |  | -0.42 | 0.14 |              | 0.57  | 0.10 |              | -5.40 | 0.07 |              | -11.40 | 0.49 |              | -1.53 | 0.14              |  |  |
| <b>2GK3BP</b>                         | <b>13.00</b>                                 | 2.79  | 2.01 | <b>13.33</b> | 2.40  | 2.62 | <b>14.00</b> | 1.07  |      | <b>36.00</b> | 0.06   |      | <b>10.33</b> | 2.32  | 2.66              |  |  |
|                                       |  | 9.67  | 1.00 |              | 7.00  | 1.15 |              | 5.35  | 0.00 |              | 0.70   | 0.00 |              | 6.08  | 1.15              |  |  |
| <b>33JQFQ</b>                         | <b>3.00</b>                                  | -0.10 |      | <b>6.33</b>  | 0.00  | 1.31 | <b>10.33</b> | 0.34  | 2.38 | <b>43.33</b> | 0.67   | 2.69 | <b>5.67</b>  | 0.54  | 1.33              |  |  |
|                                       |  | -0.33 | 0.00 |              | 0.00  | 0.58 |              | 1.68  | 1.53 |              | 8.03   | 4.04 |              | 1.42  | 0.58              |  |  |
| <b>6BMKMN</b>                         | <b>2.95</b>                                  | -0.11 | 0.10 | <b>5.14</b>  | -0.41 | 0.14 | <b>8.38</b>  | -0.05 | 0.11 | <b>29.10</b> | -0.52  | 0.20 | <b>5.29</b>  | 0.40  | 0.40              |  |  |
|                                       |  | -0.38 | 0.05 |              | -1.19 | 0.06 |              | -0.28 | 0.07 |              | -6.20  | 0.30 |              | 1.04  | 0.18              |  |  |
| <b>PFR9KY</b>                         | <b>8.13</b>                                  | 1.38  | 0.51 | <b>11.93</b> | 1.92  | 0.69 | <b>11.17</b> | 0.50  | 0.59 | <b>47.20</b> | 1.00   | 0.20 | <b>5.77</b>  | 0.58  | 0.53              |  |  |
|                                       |  | 4.80  | 0.25 |              | 5.60  | 0.31 |              | 2.51  | 0.38 |              | 11.90  | 0.30 |              | 1.52  | 0.23              |  |  |
| <b>K8VMR6</b>                         | <b>4.67</b>                                  | 0.38  | 1.16 | <b>7.00</b>  | 0.23  |      | <b>4.33</b>  | -0.86 | 0.90 | <b>28.33</b> | -0.58  | 0.38 | <b>4.33</b>  | 0.03  | 1.33              |  |  |
|                                       |  | 1.33  | 0.58 |              | 0.67  | 0.00 |              | -4.32 | 0.58 |              | -6.97  | 0.58 |              | 0.08  | 0.58              |  |  |
| <b>6VACMK</b>                         | <b>3.33</b>                                  | 0.00  | 1.16 | <b>6.67</b>  | 0.11  | 1.31 | <b>11.00</b> | 0.47  |      | <b>42.67</b> | 0.62   | 0.38 | <b>4.67</b>  | 0.16  | 1.33              |  |  |
|                                       |  | 0.00  | 0.58 |              | 0.33  | 0.58 |              | 2.35  | 0.00 |              | 7.37   | 0.58 |              | 0.42  | 0.58              |  |  |
| <b>T84DB7</b>                         | <b>3.55</b>                                  | 0.06  | 1.33 | <b>5.87</b>  | -0.16 | 0.81 | <b>10.27</b> | 0.32  | 2.27 | <b>36.39</b> | 0.09   | 1.73 | <b>3.95</b>  | -0.11 | 0.53              |  |  |
|                                       |  | 0.21  | 0.66 |              | -0.46 | 0.36 |              | 1.62  | 1.46 |              | 1.09   | 2.59 |              | -0.30 | 0.23              |  |  |
| <b>TNQUE3</b>                         | <b>6.17</b>                                  | 0.82  | 2.53 | <b>6.33</b>  | 0.00  | 1.73 | <b>7.33</b>  | -0.26 | 1.96 | <b>34.17</b> | -0.10  | 1.35 | <b>4.17</b>  | -0.03 | 0.66              |  |  |
|                                       |  | 2.83  | 1.26 |              | 0.00  | 0.76 |              | -1.32 | 1.26 |              | -1.13  | 2.02 |              | -0.08 | 0.29              |  |  |
| <b>8CMGZN</b>                         | <b>3.80</b>                                  | 0.13  | 0.53 | <b>6.93</b>  | 0.20  | 0.17 | <b>9.72</b>  | 0.21  | 0.40 | <b>35.57</b> | 0.02   | 0.34 | <b>4.57</b>  | 0.12  | 0.81              |  |  |
|                                       |  | 0.47  | 0.26 |              | 0.59  | 0.08 |              | 1.07  | 0.25 |              | 0.27   | 0.51 |              | 0.32  | 0.35              |  |  |
| <b>VBVLAX</b>                         | <b>3.33</b>                                  | 0.00  | 1.16 | <b>5.33</b>  | -0.34 | 1.31 | <b>3.00</b>  | -1.13 |      | <b>21.00</b> | -1.20  | 0.67 | <b>2.33</b>  | -0.73 | 1.33              |  |  |
|                                       |  | 0.00  | 0.58 |              | -1.00 | 0.58 |              | -5.66 | 0.00 |              | -14.30 | 1.00 |              | -1.92 | 0.58              |  |  |
| <b>AM2DUK</b>                         | <b>2.23</b>                                  | -0.32 | 0.12 | <b>6.17</b>  | -0.06 | 0.26 | <b>2.83</b>  | -1.16 | 0.09 | <b>22.00</b> | -1.12  | 0.67 | <b>1.97</b>  | -0.87 | 0.27              |  |  |
|                                       |  | -1.10 | 0.06 |              | -0.17 | 0.12 |              | -5.82 | 0.06 |              | -13.30 | 1.00 |              | -2.28 | 0.12              |  |  |
| <b>3BBBBQ</b>                         | <b>4.00</b>                                  | 0.19  |      | <b>6.00</b>  | -0.11 |      | <b>7.67</b>  | -0.20 | 0.90 | <b>30.33</b> | -0.42  | 1.68 | <b>4.00</b>  | -0.10 |                   |  |  |
|                                       |  | 0.67  | 0.00 |              | -0.33 | 0.00 |              | -0.99 | 0.58 |              | -4.97  | 2.52 |              | -0.25 | 0.00              |  |  |
| <b>YTJ7GT</b>                         | <b>4.70</b>                                  | 0.39  |      | <b>7.70</b>  | 0.47  |      | <b>4.10</b>  | -0.91 |      | <b>22.50</b> | -1.07  |      |              |       |                   |  |  |
|                                       |  | 1.37  | 0.00 |              | 1.37  | 0.00 |              | -4.56 | 0.00 |              | -12.80 | 0.00 |              |       |                   |  |  |
| <b>4KCY3M</b>                         | <b>3.20</b>                                  | -0.04 | 0.80 | <b>4.07</b>  | -0.78 | 0.52 | <b>2.07</b>  | -1.32 | 0.55 | <b>24.83</b> | -0.88  | 1.06 | <b>2.47</b>  | -0.68 | 0.96              |  |  |
|                                       |  | -0.13 | 0.40 |              | -2.27 | 0.23 |              | -6.59 | 0.35 |              | -10.47 | 1.59 |              | -1.78 | 0.42              |  |  |
| <b>MZGWVZ</b>                         | <b>1.47</b>                                  | -0.54 | 1.11 | <b>0.15</b>  | -2.12 | 0.03 | <b>2.40</b>  | -1.25 | 1.64 | <b>39.69</b> | 0.37   | 1.37 | <b>0.58</b>  | -1.40 | 0.14              |  |  |
|                                       |  | -1.87 | 0.55 |              | -6.19 | 0.02 |              | -6.25 | 1.06 |              | 4.39   | 2.05 |              | -3.67 | 0.06              |  |  |



## ALP Program - Participant Web Summary Report - Cycle 29

|                          | 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>VNJNRP</b>            | <b>17.35</b>       | 4.04    |         | <b>14.94</b>       | 2.95    |         | <b>18.94</b>       | 2.05    |         | <b>67.63</b>       | 2.71    |         | <b>10.96</b>       | 2.56    |         |
|                          |                    | 14.02   | 0.00    |                    | 8.61    | 0.00    |                    | 10.29   | 0.00    |                    | 32.33   | 0.00    |                    | 6.71    | 0.00    |
| <b>Grand Median</b>      |                    | 3.33    |         |                    | 6.33    |         |                    | 8.66    |         |                    | 35.3    |         |                    | 4.25    |         |
| <b>Median Abs Dev</b>    |                    | 0.83    |         |                    | 0.67    |         |                    | 2.51    |         |                    | 7.0     |         |                    | 1.23    |         |
| <b>Avg Within Lab SD</b> |                    | 0.50    |         |                    | 0.44    |         |                    | 0.64    |         |                    | 1.5     |         |                    | 0.43    |         |
| <b>Labs Included</b>     |                    | 21      |         |                    | 21      |         |                    | 21      |         |                    | 21      |         |                    | 20      |         |
| <b>Labs Reporting</b>    |                    | 21      |         |                    | 21      |         |                    | 21      |         |                    | 21      |         |                    | 20      |         |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 141) | in the Bases (1:10) Property Groups |       |      |              |       |      |              |       |      |              |       |      |             |       | Data units: mg/kg |  |  |
|--------------------------------------|-------------------------------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|-------|------|-------------|-------|-------------------|--|--|
|                                      | SRSSRS1601                          |       |      | SRSSRS1602   |       |      | SRSSRS1603   |       |      | SRSSRS1604   |       |      | SRSSRS1605  |       |                   |  |  |
| <b>GZ63WD</b>                        | <b>150.7</b>                        | 0.3   | 0.8  | <b>173.0</b> | 0.9   | 0.6  | <b>193.7</b> | 1.0   | 0.4  | <b>176.3</b> | 1.0   | 0.4  | <b>19.7</b> | -0.3  | 0.6               |  |  |
|                                      |                                     | 5.8   | 6.5  |              | 19.9  | 5.0  |              | 30.7  | 4.0  |              | 16.3  | 4.5  |             | -3.0  | 2.1               |  |  |
| <b>HRQGNA</b>                        | <b>150.2</b>                        | 0.3   | 0.3  | <b>152.1</b> | 0.0   | 0.4  | <b>157.7</b> | -0.2  | 0.3  | <b>156.5</b> | -0.2  | 0.4  | <b>30.9</b> | 0.9   | 0.9               |  |  |
|                                      |                                     | 5.3   | 2.1  |              | -1.0  | 3.0  |              | -5.3  | 3.5  |              | -3.5  | 4.9  |             | 8.2   | 2.8               |  |  |
| <b>CJTVUF</b>                        | <b>154.5</b>                        | 0.6   | 1.1  | <b>152.5</b> | 0.0   | 1.9  | <b>176.8</b> | 0.4   | 3.0  | <b>186.8</b> | 1.6   | 1.2  | <b>36.9</b> | 1.6   | 2.7               |  |  |
|                                      |                                     | 9.6   | 8.6  |              | -0.6  | 15.9 |              | 13.8  | 32.0 |              | 26.8  | 13.7 |             | 14.3  | 8.8               |  |  |
| <b>83L8FJ</b>                        | <b>175.9</b>                        | 1.8   | 0.2  | <b>176.6</b> | 1.1   | 0.4  | <b>179.7</b> | 0.5   | 0.5  | <b>165.4</b> | 0.3   | 0.4  | <b>22.7</b> | 0.0   | 0.1               |  |  |
|                                      |                                     | 31.0  | 1.6  |              | 23.5  | 3.6  |              | 16.7  | 5.4  |              | 5.4   | 4.7  |             | 0.0   | 0.4               |  |  |
| <b>BFZE6F</b>                        | <b>146.3</b>                        | 0.1   | 0.2  | <b>159.4</b> | 0.3   | 0.2  | <b>176.3</b> | 0.4   | 0.2  | <b>157.9</b> | -0.1  | 0.1  | <b>19.5</b> | -0.4  | 0.2               |  |  |
|                                      |                                     | 1.4   | 1.5  |              | 6.3   | 1.7  |              | 13.3  | 1.6  |              | -2.1  | 1.4  |             | -3.2  | 0.7               |  |  |
| <b>644GFL</b>                        | <b>154.9</b>                        | 0.6   | 1.4  | <b>169.4</b> | 0.7   | 1.0  | <b>193.5</b> | 1.0   | 0.6  | <b>163.2</b> | 0.2   | 0.4  | <b>18.1</b> | -0.5  | 0.2               |  |  |
|                                      |                                     | 10.1  | 10.9 |              | 16.3  | 8.2  |              | 30.5  | 6.1  |              | 3.2   | 4.2  |             | -4.6  | 0.5               |  |  |
| <b>2GK3BP</b>                        | <b>131.3</b>                        | -0.8  | 0.6  | <b>148.0</b> | -0.2  | 0.7  | <b>163.0</b> | 0.0   | 0.4  | <b>166.0</b> | 0.4   | 0.8  | <b>48.0</b> | 2.8   | 1.9               |  |  |
|                                      |                                     | -13.5 | 4.5  |              | -5.1  | 6.2  |              | 0.0   | 4.4  |              | 6.0   | 9.6  |             | 25.4  | 6.1               |  |  |
| <b>33JQFQ</b>                        | <b>127.0</b>                        | -1.0  | 0.7  | <b>145.3</b> | -0.4  | 0.2  | <b>169.7</b> | 0.2   | 0.9  | <b>169.3</b> | 0.6   | 0.4  | <b>23.7</b> | 0.1   | 0.5               |  |  |
|                                      |                                     | -17.9 | 5.6  |              | -7.8  | 1.5  |              | 6.7   | 9.0  |              | 9.3   | 4.9  |             | 1.0   | 1.5               |  |  |
| <b>XNBEWV</b>                        | <b>149.0</b>                        | 0.2   | 0.4  | <b>175.7</b> | 1.0   | 0.4  | <b>158.3</b> | -0.1  | 0.5  | <b>148.3</b> | -0.7  | 0.1  | <b>23.0</b> | 0.0   | 1.1               |  |  |
|                                      |                                     | 4.1   | 3.0  |              | 22.6  | 3.5  |              | -4.7  | 5.1  |              | -11.7 | 1.5  |             | 0.4   | 3.6               |  |  |
| <b>LM4ZL8</b>                        | <b>129.0</b>                        | -0.9  | 0.3  | <b>117.0</b> | -1.6  | 0.2  | <b>149.0</b> | -0.4  | 0.2  | <b>144.7</b> | -0.9  | 0.2  | <b>21.0</b> | -0.2  | 0.3               |  |  |
|                                      |                                     | -15.9 | 2.0  |              | -36.1 | 1.7  |              | -14.0 | 2.0  |              | -15.3 | 2.5  |             | -1.6  | 1.0               |  |  |
| <b>9JP2MJ</b>                        | <b>154.8</b>                        | 0.6   | 0.9  | <b>165.1</b> | 0.5   | 0.5  | <b>173.7</b> | 0.3   | 0.9  | <b>161.3</b> | 0.1   | 0.1  | <b>19.9</b> | -0.3  | 0.4               |  |  |
|                                      |                                     | 10.0  | 6.9  |              | 12.0  | 4.5  |              | 10.7  | 9.4  |              | 1.3   | 0.8  |             | -2.8  | 1.3               |  |  |
| <b>PFR9KY</b>                        | <b>153.5</b>                        | 0.5   | 0.3  | <b>172.1</b> | 0.9   | 0.3  | <b>195.9</b> | 1.1   | 0.2  | <b>171.2</b> | 0.7   | 0.3  | <b>28.5</b> | 0.7   | 0.7               |  |  |
|                                      |                                     | 8.6   | 2.3  |              | 19.0  | 2.5  |              | 32.9  | 2.5  |              | 11.2  | 3.7  |             | 5.9   | 2.1               |  |  |
| <b>K8VMR6</b>                        | <b>147.7</b>                        | 0.2   | 0.3  | <b>158.7</b> | 0.3   | 0.4  | <b>162.3</b> | 0.0   | 0.2  | <b>171.3</b> | 0.7   | 0.1  | <b>29.3</b> | 0.8   | 0.2               |  |  |
|                                      |                                     | 2.8   | 2.5  |              | 5.6   | 3.2  |              | -0.7  | 2.5  |              | 11.3  | 1.5  |             | 6.7   | 0.6               |  |  |
| <b>XWTMKR</b>                        | <b>134.6</b>                        | -0.6  | 0.2  | <b>147.5</b> | -0.3  | 0.2  | <b>190.1</b> | 0.9   | 0.2  | <b>169.6</b> | 0.6   | 0.6  | <b>23.5</b> | 0.1   | 0.2               |  |  |
|                                      |                                     | -10.3 | 1.3  |              | -5.6  | 1.4  |              | 27.1  | 2.0  |              | 9.6   | 6.6  |             | 0.9   | 0.6               |  |  |
| <b>FPNYC9</b>                        | <b>151.3</b>                        | 0.4   | 0.9  | <b>174.3</b> | 1.0   | 0.7  | <b>180.0</b> | 0.5   | 0.5  | <b>157.3</b> | -0.2  | 0.4  | <b>8.3</b>  | -1.6  | 0.2               |  |  |
|                                      |                                     | 6.5   | 7.2  |              | 21.2  | 5.5  |              | 17.0  | 5.2  |              | -2.7  | 4.7  |             | -14.3 | 0.6               |  |  |
| <b>WGX7VT</b>                        | <b>143.3</b>                        | -0.1  | 0.2  | <b>163.0</b> | 0.4   | 0.4  | <b>182.3</b> | 0.6   | 0.1  | <b>160.0</b> | 0.0   | 0.1  | <b>21.1</b> | -0.2  | 0.6               |  |  |
|                                      |                                     | -1.5  | 1.5  |              | 9.9   | 3.0  |              | 19.3  | 1.5  |              | 0.0   | 1.0  |             | -1.6  | 2.0               |  |  |
| <b>QECBRZ</b>                        | <b>158.0</b>                        | 0.8   | 0.3  | <b>179.7</b> | 1.2   | 0.1  | <b>205.7</b> | 1.4   | 0.1  | <b>177.7</b> | 1.1   | 0.3  | <b>22.7</b> | 0.0   | 0.2               |  |  |
|                                      |                                     | 13.1  | 2.6  |              | 26.6  | 0.6  |              | 42.7  | 0.6  |              | 17.7  | 3.2  |             | 0.0   | 0.6               |  |  |
| <b>6VACMK</b>                        | <b>154.7</b>                        | 0.6   | 1.0  | <b>133.7</b> | -0.9  | 1.0  | <b>147.0</b> | -0.5  | 0.8  | <b>136.3</b> | -1.4  | 0.6  | <b>45.3</b> | 2.5   | 3.4               |  |  |
|                                      |                                     | 9.8   | 7.8  |              | -19.4 | 8.1  |              | -16.0 | 8.7  |              | -23.7 | 7.2  |             | 22.7  | 11.0              |  |  |
| <b>DFA3JC</b>                        | <b>129.3</b>                        | -0.9  | 0.4  | <b>142.0</b> | -0.5  | 0.5  | <b>143.7</b> | -0.6  | 0.3  | <b>160.7</b> | 0.0   | 0.0  | <b>24.0</b> | 0.2   | 0.3               |  |  |
|                                      |                                     | -15.5 | 3.5  |              | -11.1 | 4.4  |              | -19.3 | 2.9  |              | 0.7   | 0.6  |             | 1.4   | 1.0               |  |  |
| <b>DCARMD</b>                        | <b>137.2</b>                        | -0.4  | 0.6  | <b>157.8</b> | 0.2   | 0.2  | <b>182.8</b> | 0.6   | 0.8  | <b>156.4</b> | -0.2  | 0.6  | <b>18.8</b> | -0.4  | 0.6               |  |  |
|                                      |                                     | -7.6  | 4.9  |              | 4.7   | 1.5  |              | 19.8  | 8.2  |              | -3.6  | 7.3  |             | -3.8  | 1.9               |  |  |



## ALP Program - Participant Web Summary Report - Cycle 29

|               | 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 |  |
| <b>K2N3HD</b> | <b>136.2</b> | -0.5       | 0.2  |         | <b>152.5</b> | 0.0        | 0.5     |     | <b>157.6</b> | -0.2        | 0.4  |     | <b>159.5</b> | 0.0        | 0.3  |         | <b>23.9</b> | 0.1        | 0.2         |     |  |            |     |     |         |            |     |     |  |
|               |              | -8.6       | 1.7  |         |              | -0.6       | 4.5     |     |              | -5.4        | 4.0  |     |              | -0.5       | 3.1  |         |             | 1.3        | 0.7         |     |  |            |     |     |         |            |     |     |  |
| <b>T9EFX6</b> | <b>146.5</b> | 0.1        | 0.8  |         | <b>147.0</b> | -0.3       | 0.5     |     | <b>152.5</b> | -0.3        | 0.9  |     | <b>140.5</b> | -1.2       | 0.2  |         | <b>21.5</b> | -0.1       | 1.1         |     |  |            |     |     |         |            |     |     |  |
|               |              | 1.6        | 6.4  |         |              | -6.1       | 4.2     |     |              | -10.5       | 9.2  |     |              | -19.5      | 2.1  |         |             | -1.1       | 3.5         |     |  |            |     |     |         |            |     |     |  |
| <b>3KE7UV</b> | <b>133.0</b> | -0.7       | 0.2  |         | <b>137.4</b> | -0.7       | 0.7     |     | <b>151.2</b> | -0.4        | 0.5  |     | <b>154.5</b> | -0.3       | 0.4  |         | <b>23.7</b> | 0.1        | 0.6         |     |  |            |     |     |         |            |     |     |  |
|               |              | -11.9      | 1.4  |         |              | -15.7      | 5.6     |     |              | -11.8       | 5.7  |     |              | -5.5       | 5.3  |         |             | 1.1        | 2.0         |     |  |            |     |     |         |            |     |     |  |
| <b>LZMPAC</b> | <b>136.3</b> | -0.5       | 0.3  |         | <b>144.0</b> | -0.4       | 0.1     |     | <b>154.7</b> | -0.3        | 0.4  |     | <b>170.7</b> | 0.6        | 0.0  |         | <b>22.6</b> | 0.0        | 0.4         |     |  |            |     |     |         |            |     |     |  |
|               |              | -8.5       | 2.1  |         |              | -9.1       | 1.0     |     |              | -8.3        | 4.0  |     |              | 10.7       | 0.6  |         |             | 0.0        | 1.2         |     |  |            |     |     |         |            |     |     |  |
| <b>BMDAYP</b> | <b>133.3</b> | -0.7       | 0.7  |         | <b>153.3</b> | 0.0        | 0.7     |     | <b>153.3</b> | -0.3        | 0.5  |     | <b>153.3</b> | -0.4       | 0.5  |         | <b>16.7</b> | -0.7       | 0.8         |     |  |            |     |     |         |            |     |     |  |
|               |              | -11.5      | 5.8  |         |              | 0.2        | 5.8     |     |              | -9.7        | 5.8  |     |              | -6.7       | 5.8  |         |             | -6.0       | 2.5         |     |  |            |     |     |         |            |     |     |  |
| <b>T84DB7</b> | <b>145.7</b> | 0.0        | 0.3  |         | <b>156.3</b> | 0.1        | 0.2     |     | <b>165.7</b> | 0.1         | 0.4  |     | <b>169.3</b> | 0.6        | 0.1  |         | <b>26.0</b> | 0.4        | 0.0         |     |  |            |     |     |         |            |     |     |  |
|               |              | 0.8        | 2.3  |         |              | 3.2        | 1.5     |     |              | 2.7         | 3.8  |     |              | 9.3        | 1.5  |         |             | 3.4        | 0.0         |     |  |            |     |     |         |            |     |     |  |
| <b>L2J8CD</b> | <b>120.7</b> | -1.4       | 0.1  |         | <b>126.3</b> | -1.2       | 0.4     |     | <b>126.3</b> | -1.2        | 0.3  |     | <b>145.7</b> | -0.9       | 0.5  |         | <b>19.9</b> | -0.3       | 0.2         |     |  |            |     |     |         |            |     |     |  |
|               |              | -24.2      | 1.2  |         |              | -26.8      | 3.2     |     |              | -36.7       | 3.1  |     |              | -14.3      | 5.5  |         |             | -2.7       | 0.5         |     |  |            |     |     |         |            |     |     |  |
| <b>79D4JP</b> | <b>153.3</b> | 0.5        | 0.5  |         | <b>150.7</b> | -0.1       | 0.1     |     | <b>145.5</b> | -0.6        | 0.4  |     | <b>159.0</b> | -0.1       | 0.7  |         | <b>27.2</b> | 0.5        | 0.9         |     |  |            |     |     |         |            |     |     |  |
|               |              | 8.4        | 4.2  |         |              | -2.4       | 1.1     |     |              | -17.5       | 4.2  |     |              | -1.0       | 8.5  |         |             | 4.6        | 2.9         |     |  |            |     |     |         |            |     |     |  |
| <b>2WG8UU</b> | <b>180.0</b> | 2.0        | 3.5  |         | <b>202.3</b> | 2.2        | 0.8     |     | <b>208.0</b> | 1.4         | 4.3  |     | <b>170.3</b> | 0.6        | 5.0  |         | <b>54.0</b> | 3.5        | 3.5         |     |  |            |     |     |         |            |     |     |  |
|               |              | 35.1       | 27.6 |         |              | 49.2       | 6.4     |     |              | 45.0        | 45.6 |     |              | 10.3       | 59.4 |         |             | 31.4       | 11.3        |     |  |            |     |     |         |            |     |     |  |
| <b>UNPG82</b> | <b>146.7</b> | 0.1        | 0.2  |         | <b>172.0</b> | 0.9        | 0.1     |     | <b>201.7</b> | 1.2         | 0.2  |     | <b>170.0</b> | 0.6        | 0.1  |         | <b>20.7</b> | -0.2       | 0.2         |     |  |            |     |     |         |            |     |     |  |
|               |              | 1.8        | 1.5  |         |              | 18.9       | 1.0     |     |              | 38.7        | 2.1  |     |              | 10.0       | 1.0  |         |             | -2.0       | 0.6         |     |  |            |     |     |         |            |     |     |  |
| <b>8CMGZN</b> | <b>144.1</b> | 0.0        | 0.1  |         | <b>148.5</b> | -0.2       | 0.2     |     | <b>138.2</b> | -0.8        | 0.1  |     | <b>156.1</b> | -0.2       | 0.1  |         | <b>26.7</b> | 0.5        | 0.1         |     |  |            |     |     |         |            |     |     |  |
|               |              | -0.8       | 0.9  |         |              | -4.6       | 1.3     |     |              | -24.8       | 0.8  |     |              | -3.9       | 0.9  |         |             | 4.1        | 0.4         |     |  |            |     |     |         |            |     |     |  |
| <b>PWR8L8</b> | <b>151.5</b> | 0.4        | 0.1  |         | <b>171.5</b> | 0.8        | 0.4     |     | <b>202.5</b> | 1.3         | 0.3  |     | <b>174.2</b> | 0.9        | 0.1  |         | <b>30.0</b> | 0.8        | 0.2         |     |  |            |     |     |         |            |     |     |  |
|               |              | 6.6        | 0.5  |         |              | 18.4       | 3.5     |     |              | 39.5        | 3.5  |     |              | 14.2       | 1.4  |         |             | 7.3        | 0.5         |     |  |            |     |     |         |            |     |     |  |
| <b>VBVLAX</b> | <b>150.7</b> | 0.3        | 0.7  |         | <b>146.3</b> | -0.3       | 1.0     |     | <b>152.0</b> | -0.4        | 0.7  |     | <b>156.3</b> | -0.2       | 0.4  |         | <b>23.0</b> | 0.0        | 0.3         |     |  |            |     |     |         |            |     |     |  |
|               |              | 5.8        | 5.9  |         |              | -6.8       | 8.5     |     |              | -11.0       | 7.2  |     |              | -3.7       | 4.7  |         |             | 0.4        | 1.0         |     |  |            |     |     |         |            |     |     |  |
| <b>AM2DUK</b> | <b>133.3</b> | -0.7       | 0.7  |         | <b>160.0</b> | 0.3        |         |     | <b>183.3</b> | 0.7         | 0.5  |     | <b>160.0</b> | 0.0        |      |         | <b>19.7</b> | -0.3       | 0.5         |     |  |            |     |     |         |            |     |     |  |
|               |              | -11.5      | 5.8  |         |              | 6.9        | 0.0     |     |              | 20.3        | 5.8  |     |              | 0.0        | 0.0  |         |             | -3.0       | 1.5         |     |  |            |     |     |         |            |     |     |  |
| <b>3BBBBQ</b> | <b>142.7</b> | -0.1       | 0.3  |         | <b>144.0</b> | -0.4       | 0.1     |     | <b>139.3</b> | -0.8        | 0.1  |     | <b>160.0</b> | 0.0        | 0.2  |         | <b>34.0</b> | 1.3        | 0.3         |     |  |            |     |     |         |            |     |     |  |
|               |              | -2.2       | 2.5  |         |              | -9.1       | 1.0     |     |              | -23.7       | 1.5  |     |              | 0.0        | 2.0  |         |             | 11.4       | 1.0         |     |  |            |     |     |         |            |     |     |  |
| <b>4JGF2L</b> | <b>6.0</b>   | -8.0       | 0.0  |         | <b>7.1</b>   | -6.6       | 0.0     |     | <b>8.8</b>   | -5.0        | 0.0  |     | <b>7.1</b>   | -9.2       | 0.0  |         | <b>0.9</b>  | -2.4       | 0.0         |     |  |            |     |     |         |            |     |     |  |
|               |              | -138.9     | 0.0  |         |              | -146.0     | 0.3     |     |              | -154.2      | 0.1  |     |              | -152.9     | 0.0  |         |             | -21.8      | 0.0         |     |  |            |     |     |         |            |     |     |  |
| <b>YTJ7GT</b> |              |            |      |         |              |            |         |     | <b>211.0</b> | 1.5         |      |     |              |            |      |         |             |            |             |     |  |            |     |     |         |            |     |     |  |
|               |              |            |      |         |              |            |         |     |              | 48.0        | 0.0  |     |              |            |      |         |             |            |             |     |  |            |     |     |         |            |     |     |  |
| <b>MZGWVZ</b> | <b>134.7</b> | -0.6       | 0.9  |         | <b>125.5</b> | -1.2       | 2.8     |     | <b>132.4</b> | -1.0        | 1.2  |     | <b>123.2</b> | -2.2       | 0.4  |         | <b>11.3</b> | -1.3       | 0.3         |     |  |            |     |     |         |            |     |     |  |
|               |              | -10.2      | 7.2  |         |              | -27.6      | 23.3    |     |              | -30.6       | 12.9 |     |              | -36.8      | 4.2  |         |             | -11.4      | 1.0         |     |  |            |     |     |         |            |     |     |  |
| <b>C8H8XB</b> | <b>139.3</b> | -0.3       | 0.3  |         | <b>161.7</b> | 0.4        | 1.2     |     | <b>194.0</b> | 1.0         | 0.2  |     | <b>168.3</b> | 0.5        | 0.2  |         | <b>18.3</b> | -0.5       | 0.4         |     |  |            |     |     |         |            |     |     |  |
|               |              | -5.5       | 2.5  |         |              | 8.6        | 10.5    |     |              | 31.0        | 1.7  |     |              | 8.3        | 2.3  |         |             | -4.3       | 1.2         |     |  |            |     |     |         |            |     |     |  |
| <b>ZZZ3WM</b> | <b>194.4</b> | 2.9        | 4.3  |         | <b>226.0</b> | 3.3        | 4.6     |     | <b>271.0</b> | 3.5         | 2.6  |     | <b>241.4</b> | 4.9        | 3.4  |         | <b>27.2</b> | 0.5        | 0.5         |     |  |            |     |     |         |            |     |     |  |
|               |              | 49.5       | 34.1 |         |              | 72.9       | 38.8    |     |              | 108.0       | 27.2 |     |              | 81.4       | 41.0 |         |             | 4.6        | 1.8         |     |  |            |     |     |         |            |     |     |  |
| <b>PHEWWY</b> | <b>155.5</b> | 0.6        | 0.5  |         | <b>166.7</b> | 0.6        | 0.2     |     | <b>192.8</b> | 1.0         | 0.5  |     | <b>176.0</b> | 1.0        | 0.2  |         | <b>16.7</b> | -0.7       | 0.2         |     |  |            |     |     |         |            |     |     |  |
|               |              | 10.7       | 3.9  |         |              | 13.6       | 1.5     |     |              | 29.8        | 4.8  |     |              | 16.0       | 2.3  |         |             | -6.0       | 0.6         |     |  |            |     |     |         |            |     |     |  |
| <b>X3EMTR</b> | <b>113.3</b> | -1.8       | 0.0  |         | <b>132.1</b> | -1.0       | 0.1     |     | <b>157.6</b> | -0.2        | 0.1  |     | <b>135.4</b> | -1.5       | 0.2  |         | <b>17.9</b> | -0.5       | 0.1         |     |  |            |     |     |         |            |     |     |  |
|               |              | -31.6      | 0.3  |         |              | -21.0      | 0.8     |     |              | -5.4        | 0.6  |     |              | -24.6      | 2.7  |         |             | -4.8       | 0.5         |     |  |            |     |     |         |            |     |     |  |



## ALP Program - Participant Web Summary Report - Cycle 29

|                          | 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>XYFCWR</b>            | <b>0.5</b>         | -8.4    | 0.0     | <b>0.5</b>         | -6.9    | 0.0     | <b>0.6</b>         | -5.2    | 0.0     | <b>0.5</b>         | -9.6    | 0.0     | <b>0.0</b>         | -2.5    | 0.0     |
|                          |                    | -144.4  | 0.0     |                    | -152.6  | 0.0     |                    | -162.4  | 0.0     |                    | -159.5  | 0.0     |                    | -22.6   | 0.0     |
| <b>J6NUD7</b>            | <b>135.0</b>       | -0.6    | 0.5     | <b>161.6</b>       | 0.4     | 0.1     | <b>192.9</b>       | 1.0     | 0.2     | <b>165.1</b>       | 0.3     | 0.1     | <b>16.1</b>        | -0.7    | 0.4     |
|                          |                    | -9.9    | 3.8     |                    | 8.5     | 1.0     |                    | 29.9    | 2.4     |                    | 5.1     | 0.8     |                    | -6.6    | 1.2     |
| <b>DURWNB</b>            | <b>143.2</b>       | -0.1    | 0.5     | <b>152.9</b>       | 0.0     | 0.8     | <b>155.0</b>       | -0.3    | 0.7     | <b>157.2</b>       | -0.2    | 0.0     | <b>28.1</b>        | 0.6     | 0.2     |
|                          |                    | -1.6    | 3.9     |                    | -0.2    | 7.1     |                    | -8.0    | 7.1     |                    | -2.8    | 0.2     |                    | 5.5     | 0.8     |
| <b>VNJNRP</b>            | <b>158.0</b>       | 0.8     |         | <b>170.0</b>       | 0.8     |         | <b>159.0</b>       | -0.1    |         | <b>147.0</b>       | -0.8    |         | <b>19.0</b>        | -0.4    |         |
|                          |                    | 13.1    | 0.0     |                    | 16.9    | 0.0     |                    | -4.0    | 0.0     |                    | -13.0   | 0.0     |                    | -3.6    | 0.0     |
| <b>DYXQH7</b>            | <b>185.6</b>       | 2.4     | 0.6     | <b>186.9</b>       | 1.5     | 1.1     | <b>167.1</b>       | 0.1     | 0.7     | <b>173.0</b>       | 0.8     | 1.1     | <b>39.6</b>        | 1.9     | 1.1     |
|                          |                    | 40.8    | 5.1     |                    | 33.8    | 9.1     |                    | 4.1     | 7.4     |                    | 13.0    | 13.5    |                    | 17.0    | 3.7     |
| <b>Grand Median</b>      |                    | 144.9   |         |                    | 153.1   |         |                    | 163.0   |         |                    | 160.0   |         |                    | 22.6    |         |
| <b>Median Abs Dev</b>    |                    | 9.7     |         |                    | 10.5    |         |                    | 17.0    |         |                    | 9.3     |         |                    | 3.9     |         |
| <b>Avg Within Lab SD</b> |                    | 7.9     |         |                    | 8.4     |         |                    | 10.5    |         |                    | 11.9    |         |                    | 3.3     |         |
| <b>Labs Included</b>     |                    | 44      |         |                    | 44      |         |                    | 45      |         |                    | 44      |         |                    | 44      |         |
| <b>Labs Reporting</b>    |                    | 44      |         |                    | 44      |         |                    | 45      |         |                    | 44      |         |                    | 44      |         |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 142) |                |          | in the Bases (1:10) Property Groups |                |         |            |                |        |            |                |        |            |              |       | Data units: mg/kg |  |  |
|---------------------------------------|----------------|----------|-------------------------------------|----------------|---------|------------|----------------|--------|------------|----------------|--------|------------|--------------|-------|-------------------|--|--|
| SRSSRS1601                            |                |          | SRSSRS1602                          |                |         | SRSSRS1603 |                |        | SRSSRS1604 |                |        | SRSSRS1605 |              |       |                   |  |  |
| <b>GZ63WD</b>                         | <b>3,670.0</b> | -1.0     | 0.4                                 | <b>3,550.7</b> | 0.1     | 0.2        | <b>900.3</b>   | -0.1   | 0.3        | <b>1,356.3</b> | 0.1    | 0.6        | <b>154.3</b> | 0.3   | 0.2               |  |  |
|                                       |                | -977.5   | 106.7                               |                | 96.8    | 48.0       |                | -23.0  | 15.3       |                | 6.7    | 51.0       |              | 17.3  | 8.5               |  |  |
| <b>HRQGNA</b>                         | <b>4,690.2</b> | 0.0      | 0.2                                 | <b>3,343.9</b> | -0.2    | 0.1        | <b>1,078.3</b> | 1.0    | 0.8        | <b>1,422.7</b> | 0.6    | 1.4        | <b>207.1</b> | 1.3   | 0.1               |  |  |
|                                       |                | 42.7     | 60.0                                |                | -109.9  | 40.9       |                | 155.0  | 39.0       |                | 73.0   | 116.4      |              | 70.1  | 4.5               |  |  |
| <b>CJTVUF</b>                         | <b>5,012.3</b> | 0.4      | 0.6                                 | <b>3,230.0</b> | -0.3    | 1.0        | <b>871.7</b>   | -0.3   | 0.8        | <b>1,318.7</b> | -0.2   | 0.8        | <b>219.6</b> | 1.5   | 0.8               |  |  |
|                                       |                | 364.8    | 147.2                               |                | -223.8  | 310.7      |                | -51.7  | 43.4       |                | -31.0  | 68.7       |              | 82.6  | 26.1              |  |  |
| <b>83L8FJ</b>                         | <b>6,280.8</b> | 1.7      | 0.4                                 | <b>3,629.2</b> | 0.3     | 0.2        | <b>1,119.8</b> | 1.2    | 0.7        | <b>1,405.1</b> | 0.4    | 0.1        | <b>139.0</b> | 0.0   | 0.1               |  |  |
|                                       |                | 1,633.3  | 95.0                                |                | 175.3   | 63.1       |                | 196.4  | 35.0       |                | 55.5   | 10.6       |              | 2.0   | 4.3               |  |  |
| <b>BFZE6F</b>                         | <b>3,416.5</b> | -1.3     | 0.1                                 | <b>3,234.8</b> | -0.3    | 0.0        | <b>963.3</b>   | 0.3    | 0.2        | <b>1,261.0</b> | -0.7   | 0.1        | <b>155.0</b> | 0.3   | 0.1               |  |  |
|                                       |                | -1,231.0 | 22.3                                |                | -219.1  | 8.1        |                | 40.0   | 10.6       |                | -88.7  | 12.0       |              | 18.0  | 2.0               |  |  |
| <b>644GFL</b>                         | <b>4,443.1</b> | -0.2     | 0.3                                 | <b>4,068.3</b> | 0.9     | 0.3        | <b>1,014.1</b> | 0.6    | 0.3        | <b>1,375.6</b> | 0.2    | 0.5        | <b>106.6</b> | -0.6  | 0.3               |  |  |
|                                       |                | -204.5   | 82.2                                |                | 614.5   | 89.1       |                | 90.8   | 16.2       |                | 25.9   | 37.6       |              | -30.4 | 9.3               |  |  |
| <b>2GK3BP</b>                         | <b>4,640.0</b> | 0.0      | 0.3                                 | <b>3,667.3</b> | 0.3     | 0.3        | <b>1,010.0</b> | 0.5    | 0.9        | <b>1,408.3</b> | 0.4    | 0.4        | <b>164.3</b> | 0.5   | 0.4               |  |  |
|                                       |                | -7.5     | 73.5                                |                | 213.5   | 75.7       |                | 86.7   | 46.6       |                | 58.7   | 33.1       |              | 27.3  | 14.4              |  |  |
| <b>33JQFQ</b>                         | <b>3,599.7</b> | -1.1     | 0.4                                 | <b>2,885.3</b> | -0.9    | 0.7        | <b>809.3</b>   | -0.7   | 1.4        | <b>1,302.0</b> | -0.4   | 0.8        | <b>148.7</b> | 0.2   | 0.4               |  |  |
|                                       |                | -1,047.8 | 109.4                               |                | -568.5  | 201.5      |                | -114.0 | 70.2       |                | -47.7  | 63.1       |              | 11.7  | 13.3              |  |  |
| <b>XNBEWV</b>                         | <b>4,050.3</b> | -0.6     | 0.3                                 | <b>3,779.0</b> | 0.5     | 0.3        | <b>888.0</b>   | -0.2   | 0.6        | <b>1,441.0</b> | 0.7    | 0.3        | <b>69.3</b>  | -1.2  | 0.4               |  |  |
|                                       |                | -597.2   | 76.8                                |                | 325.2   | 95.5       |                | -35.3  | 29.5       |                | 91.3   | 23.6       |              | -67.7 | 14.7              |  |  |
| <b>LM4ZL8</b>                         | <b>5,091.0</b> | 0.5      | 0.0                                 | <b>3,263.7</b> | -0.3    | 0.2        | <b>780.7</b>   | -0.9   | 0.0        | <b>1,260.0</b> | -0.7   | 0.1        | <b>142.0</b> | 0.1   | 0.1               |  |  |
|                                       |                | 443.5    | 11.5                                |                | -190.2  | 49.8       |                | -142.7 | 2.1        |                | -89.7  | 4.4        |              | 5.0   | 3.0               |  |  |
| <b>6BMKMN</b>                         | <b>4,403.7</b> | -0.3     | 0.2                                 | <b>3,252.0</b> | -0.3    | 0.1        | <b>921.3</b>   | 0.0    | 0.1        | <b>1,310.3</b> | -0.3   | 0.1        | <b>125.7</b> | -0.2  | 0.0               |  |  |
|                                       |                | -243.8   | 41.8                                |                | -201.8  | 29.6       |                | -2.0   | 2.9        |                | -39.3  | 4.7        |              | -11.3 | 1.5               |  |  |
| <b>9JP2MJ</b>                         | <b>3,530.0</b> | -1.2     | 0.7                                 | <b>2,927.0</b> | -0.8    | 0.9        | <b>765.7</b>   | -1.0   | 0.9        | <b>1,164.3</b> | -1.4   | 0.5        | <b>91.5</b>  | -0.8  | 0.2               |  |  |
|                                       |                | -1,117.5 | 171.0                               |                | -526.8  | 271.4      |                | -157.7 | 47.5       |                | -185.3 | 42.6       |              | -45.5 | 6.2               |  |  |
| <b>PFR9KY</b>                         | <b>5,338.7</b> | 0.7      | 0.9                                 | <b>4,149.6</b> | 1.1     | 0.7        | <b>1,047.7</b> | 0.8    | 1.1        | <b>1,401.3</b> | 0.4    | 0.2        | <b>176.1</b> | 0.7   | 0.1               |  |  |
|                                       |                | 691.2    | 234.8                               |                | 695.8   | 197.9      |                | 124.4  | 56.8       |                | 51.6   | 12.3       |              | 39.1  | 4.9               |  |  |
| <b>K8VMR6</b>                         | <b>5,406.7</b> | 0.8      | 0.4                                 | <b>3,536.7</b> | 0.1     | 0.1        | <b>985.0</b>   | 0.4    | 0.3        | <b>1,508.3</b> | 1.2    | 0.2        | <b>213.3</b> | 1.4   | 0.1               |  |  |
|                                       |                | 759.2    | 92.9                                |                | 82.8    | 32.1       |                | 61.7   | 13.2       |                | 158.7  | 14.4       |              | 76.3  | 4.7               |  |  |
| <b>XWTMKR</b>                         | <b>4,435.2</b> | -0.2     | 0.1                                 | <b>4,043.5</b> | 0.9     | 0.1        | <b>1,089.6</b> | 1.0    | 0.1        | <b>1,597.6</b> | 1.9    | 0.1        | <b>132.3</b> | -0.1  | 0.1               |  |  |
|                                       |                | -212.3   | 29.1                                |                | 589.7   | 20.6       |                | 166.3  | 2.8        |                | 247.9  | 5.7        |              | -4.7  | 2.5               |  |  |
| <b>FPNYC9</b>                         | <b>6,296.7</b> | 1.8      | 1.1                                 | <b>4,970.0</b> | 2.3     | 0.5        | <b>1,009.0</b> | 0.5    | 0.5        | <b>1,476.7</b> | 1.0    | 0.6        | <b>98.0</b>  | -0.7  | 0.4               |  |  |
|                                       |                | 1,649.2  | 272.3                               |                | 1,516.2 | 155.2      |                | 85.7   | 28.2       |                | 127.0  | 49.3       |              | -39.0 | 12.2              |  |  |
| <b>WGX7VT</b>                         | <b>4,609.3</b> | 0.0      | 0.2                                 | <b>3,645.0</b> | 0.3     | 0.4        | <b>956.0</b>   | 0.2    | 0.3        | <b>1,343.0</b> | -0.1   | 0.1        | <b>134.0</b> | -0.1  | 0.1               |  |  |
|                                       |                | -38.2    | 52.5                                |                | 191.2   | 115.0      |                | 32.7   | 14.0       |                | -6.7   | 11.3       |              | -3.0  | 5.0               |  |  |
| <b>QECBRZ</b>                         | <b>3,674.7</b> | -1.0     | 0.6                                 | <b>3,450.0</b> | 0.0     | 0.3        | <b>798.7</b>   | -0.8   | 0.2        | <b>1,228.3</b> | -0.9   | 0.2        | <b>90.7</b>  | -0.8  | 0.0               |  |  |
|                                       |                | -972.8   | 141.6                               |                | -3.8    | 103.2      |                | -124.7 | 11.6       |                | -121.3 | 13.3       |              | -46.3 | 0.6               |  |  |
| <b>6VACMK</b>                         | <b>3,306.7</b> | -1.4     | 0.8                                 | <b>2,886.7</b> | -0.9    | 0.4        | <b>663.3</b>   | -1.6   | 0.4        | <b>1,115.7</b> | -1.8   | 0.3        | <b>80.0</b>  | -1.0  | 0.3               |  |  |
|                                       |                | -1,340.8 | 212.2                               |                | -567.2  | 109.7      |                | -260.0 | 20.8       |                | -234.0 | 21.4       |              | -57.0 | 10.0              |  |  |
| <b>DFA3JC</b>                         | <b>4,720.0</b> | 0.1      | 0.4                                 | <b>3,432.3</b> | 0.0     | 0.3        | <b>929.3</b>   | 0.0    | 0.9        | <b>1,270.7</b> | -0.6   | 0.1        | <b>206.7</b> | 1.3   | 0.3               |  |  |
|                                       |                | 72.5     | 90.7                                |                | -21.5   | 84.8       |                | 6.0    | 45.8       |                | -79.0  | 6.1        |              | 69.7  | 10.0              |  |  |



## ALP Program - Participant Web Summary Report - Cycle 29

|               | 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>DCARMD</b> | <b>5,950.7</b> | 1.4        | 0.4     | <b>4,213.3</b> | 1.1        | 0.7     | <b>1,046.3</b> | 0.8        | 0.4     | <b>1,397.3</b> | 0.4        | 1.4     | <b>167.0</b> | 0.5        | 0.3     |
|               |                | 1,303.2    | 99.1    |                | 759.5      | 207.4   |                | 123.0      | 18.9    |                | 47.7       | 113.8   |              | 30.0       | 9.3     |
| <b>K2N3HD</b> | <b>5,022.8</b> | 0.4        | 0.1     | <b>3,755.3</b> | 0.5        | 0.4     | <b>925.3</b>   | 0.0        | 0.4     | <b>1,444.0</b> | 0.7        | 0.5     | <b>174.5</b> | 0.7        | 0.1     |
|               |                | 375.3      | 33.1    |                | 301.5      | 106.0   |                | 2.0        | 19.7    |                | 94.3       | 43.6    |              | 37.5       | 3.6     |
| <b>T9EFX6</b> | <b>4,655.0</b> | 0.0        | 0.5     | <b>4,662.0</b> | 1.8        | 4.8     | <b>916.0</b>   | 0.0        | 0.4     | <b>1,227.5</b> | -0.9       | 0.1     | <b>125.0</b> | -0.2       | 0.1     |
|               |                | 7.5        | 123.0   |                | 1,208.2    | 1,442.5 |                | -7.3       | 18.4    |                | -122.2     | 12.0    |              | -12.0      | 4.2     |
| <b>3KE7UV</b> | <b>4,426.7</b> | -0.2       | 1.3     | <b>3,251.7</b> | -0.3       | 0.6     | <b>867.7</b>   | -0.3       | 0.8     | <b>1,384.0</b> | 0.3        | 0.3     | <b>194.7</b> | 1.1        | 0.4     |
|               |                | -220.8     | 342.2   |                | -202.2     | 178.2   |                | -55.7      | 39.4    |                | 34.3       | 24.3    |              | 57.7       | 13.8    |
| <b>LZMPAC</b> | <b>4,962.0</b> | 0.3        | 0.0     | <b>3,338.3</b> | -0.2       | 0.1     | <b>860.0</b>   | -0.4       | 0.1     | <b>1,369.3</b> | 0.1        | 0.2     | <b>173.7</b> | 0.7        | 0.2     |
|               |                | 314.5      | 7.8     |                | -115.5     | 28.1    |                | -63.3      | 6.6     |                | 19.7       | 12.4    |              | 36.7       | 8.1     |
| <b>BMDAYP</b> | <b>3,600.0</b> | -1.1       | 0.4     | <b>3,233.3</b> | -0.3       | 0.4     | <b>806.7</b>   | -0.7       | 0.7     | <b>1,266.7</b> | -0.6       | 0.7     | <b>133.3</b> | -0.1       | 0.3     |
|               |                | -1,047.5   | 100.0   |                | -220.5     | 115.5   |                | -116.7     | 35.1    |                | -83.0      | 57.7    |              | -3.7       | 11.5    |
| <b>T84DB7</b> | <b>4,880.5</b> | 0.2        | 0.2     | <b>3,030.8</b> | -0.6       | 0.2     | <b>789.1</b>   | -0.8       | 0.4     | <b>1,313.0</b> | -0.3       | 0.1     | <b>234.7</b> | 1.8        | 0.2     |
|               |                | 233.0      | 42.9    |                | -423.1     | 49.2    |                | -134.2     | 20.2    |                | -36.7      | 7.6     |              | 97.7       | 6.3     |
| <b>L2J8CD</b> | <b>4,959.3</b> | 0.3        | 0.0     | <b>3,127.3</b> | -0.5       | 0.0     | <b>812.3</b>   | -0.7       | 0.1     | <b>1,293.3</b> | -0.4       | 0.1     | <b>160.7</b> | 0.4        | 0.1     |
|               |                | 311.8      | 8.3     |                | -326.5     | 6.1     |                | -111.0     | 3.1     |                | -56.3      | 9.3     |              | 23.7       | 2.5     |
| <b>79D4JP</b> | <b>4,374.9</b> | -0.3       | 0.2     | <b>3,296.4</b> | -0.2       | 0.1     | <b>1,083.6</b> | 1.0        | 1.3     | <b>1,408.5</b> | 0.4        | 1.3     | <b>222.3</b> | 1.6        | 0.2     |
|               |                | -272.6     | 59.1    |                | -157.5     | 29.7    |                | 160.2      | 67.3    |                | 58.9       | 102.8   |              | 85.3       | 7.0     |
| <b>2WG8UU</b> | <b>7,014.3</b> | 2.5        | 1.1     | <b>5,000.3</b> | 2.3        | 0.3     | <b>1,155.3</b> | 1.5        | 2.7     | <b>1,492.7</b> | 1.1        | 2.5     | <b>174.0</b> | 0.7        | 6.4     |
|               |                | 2,366.8    | 284.4   |                | 1,546.5    | 79.0    |                | 232.0      | 138.3   |                | 143.0      | 202.2   |              | 37.0       | 217.4   |
| <b>UNPG82</b> | <b>5,387.3</b> | 0.8        | 0.2     | <b>4,348.7</b> | 1.4        | 0.1     | <b>1,099.0</b> | 1.1        | 0.2     | <b>1,490.3</b> | 1.1        | 0.1     | <b>188.7</b> | 0.9        | 0.4     |
|               |                | 739.8      | 38.5    |                | 894.8      | 26.5    |                | 175.7      | 12.5    |                | 140.7      | 9.3     |              | 51.7       | 13.6    |
| <b>VBVLAX</b> | <b>4,959.0</b> | 0.3        | 0.2     | <b>3,560.0</b> | 0.2        | 0.6     | <b>921.3</b>   | 0.0        | 0.8     | <b>1,252.0</b> | -0.7       | 0.3     | <b>173.7</b> | 0.7        | 0.4     |
|               |                | 311.5      | 57.6    |                | 106.2      | 186.7   |                | -2.0       | 41.7    |                | -97.7      | 27.1    |              | 36.7       | 12.6    |
| <b>AM2DUK</b> | <b>5,033.3</b> | 0.4        | 0.2     | <b>3,833.3</b> | 0.6        | 0.2     | <b>956.7</b>   | 0.2        | 0.6     | <b>1,300.0</b> | -0.4       |         | <b>113.3</b> | -0.4       | 0.2     |
|               |                | 385.8      | 57.7    |                | 379.5      | 57.7    |                | 33.4       | 32.1    |                | -49.7      | 0.0     |              | -23.7      | 5.8     |
| <b>3BBBQ</b>  | <b>4,974.7</b> | 0.3        | 0.5     | <b>3,457.7</b> | 0.0        | 0.1     | <b>806.7</b>   | -0.7       | 0.3     | <b>1,301.7</b> | -0.4       | 0.3     | <b>123.7</b> | -0.2       | 0.1     |
|               |                | 327.2      | 116.5   |                | 3.8        | 37.5    |                | -116.7     | 13.5    |                | -48.0      | 25.5    |              | -13.3      | 3.5     |
| <b>4JGF2L</b> | <b>438.8</b>   | -4.5       | 0.0     | <b>453.9</b>   | -4.5       | 0.0     | <b>89.0</b>    | -5.2       | 0.0     | <b>187.2</b>   | -8.8       | 0.0     | <b>11.6</b>  | -2.3       | 0.0     |
|               |                | -4,208.7   | 2.1     |                | -3,000.0   | 3.8     |                | -834.4     | 0.8     |                | -1,162.4   | 2.6     |              | -125.4     | 0.2     |
| <b>YTJ7GT</b> | <b>5,812.0</b> | 1.2        |         | <b>4,529.0</b> | 1.6        |         | <b>1,126.0</b> | 1.3        |         | <b>1,411.0</b> | 0.5        |         | <b>108.0</b> | -0.5       |         |
|               |                | 1,164.5    | 0.0     |                | 1,075.2    | 0.0     |                | 202.7      | 0.0     |                | 61.3       | 0.0     |              | -29.0      | 0.0     |
| <b>4KCY3M</b> | <b>4,235.7</b> | -0.4       | 0.4     | <b>2,305.3</b> | -1.7       | 0.2     | <b>611.0</b>   | -2.0       | 0.1     | <b>1,135.7</b> | -1.6       | 0.5     | <b>68.0</b>  | -1.3       | 0.1     |
|               |                | -411.8     | 94.6    |                | -1,148.5   | 59.7    |                | -312.3     | 6.6     |                | -214.0     | 37.1    |              | -69.0      | 5.0     |
| <b>MZGWVZ</b> | <b>4,381.3</b> | -0.3       | 0.5     | <b>3,374.5</b> | -0.1       | 0.1     | <b>972.3</b>   | 0.3        | 0.2     | <b>1,357.5</b> | 0.1        | 0.1     | <b>97.9</b>  | -0.7       | 0.1     |
|               |                | -266.2     | 128.5   |                | -79.4      | 25.0    |                | 49.0       | 10.4    |                | 7.8        | 10.1    |              | -39.1      | 3.4     |
| <b>C8H8XB</b> | <b>4,920.0</b> | 0.3        | 0.4     | <b>3,580.0</b> | 0.2        | 0.7     | <b>1,000.0</b> | 0.5        |         | <b>1,400.0</b> | 0.4        | 0.2     | <b>146.7</b> | 0.2        | 0.3     |
|               |                | 272.5      | 105.8   |                | 126.2      | 225.4   |                | 76.7       | 0.0     |                | 50.3       | 20.0    |              | 9.7        | 11.5    |
| <b>ZZZ3WM</b> | <b>5,955.2</b> | 1.4        | 5.8     | <b>4,407.5</b> | 1.4        | 3.8     | <b>1,070.6</b> | 0.9        | 4.7     | <b>1,561.9</b> | 1.6        | 5.2     | <b>123.6</b> | -0.2       | 0.5     |
|               |                | 1,307.7    | 1,480.6 |                | 953.7      | 1,127.3 |                | 147.3      | 240.8   |                | 212.3      | 421.6   |              | -13.4      | 17.6    |
| <b>PHEWWY</b> | <b>6,061.0</b> | 1.5        | 0.6     | <b>4,434.3</b> | 1.5        | 0.3     | <b>1,000.7</b> | 0.5        | 0.5     | <b>1,513.7</b> | 1.2        | 0.2     | <b>107.1</b> | -0.5       | 0.1     |
|               |                | 1,413.5    | 141.4   |                | 980.5      | 84.3    |                | 77.4       | 26.8    |                | 164.0      | 19.9    |              | -29.9      | 4.3     |
| <b>X3EMTR</b> | <b>5,193.2</b> | 0.6        | 0.1     | <b>4,398.8</b> | 1.4        | 0.1     | <b>1,039.4</b> | 0.7        | 0.5     | <b>1,465.0</b> | 0.9        | 0.4     | <b>89.4</b>  | -0.9       | 0.1     |
|               |                | 545.7      | 21.4    |                | 945.0      | 18.3    |                | 116.1      | 23.3    |                | 115.3      | 33.4    |              | -47.6      | 4.0     |





## ALP Program - Participant Web Summary Report - Cycle 29

|                          | 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>XYFCWR</b>            | <b>35.0</b>        | -4.9    | 0.0     | <b>25.6</b>        | -5.2    | 0.0     | <b>6.4</b>         | -5.7    | 0.0     | <b>6.9</b>         | -10.1   | 0.0     | <b>0.5</b>         | -2.5    | 0.0     |
|                          | -4,612.5           | 0.4     |         | -3,428.3           | 0.2     |         | -916.9             | 0.2     |         | -1,342.7           | 0.2     |         | -136.5             | 0.0     |         |
| <b>J6NUD7</b>            | <b>5,467.0</b>     | 0.9     | 0.1     | <b>4,326.7</b>     | 1.3     | 0.0     | <b>1,118.0</b>     | 1.2     | 0.5     | <b>1,531.0</b>     | 1.4     | 0.1     | <b>154.5</b>       | 0.3     | 0.3     |
|                          | 819.5              | 35.5    |         | 872.8              | 12.0    |         | 194.7              | 23.6    |         | 181.3              | 11.5    |         | 17.5               | 10.9    |         |
| <b>DURWNB</b>            | <b>4,468.0</b>     | -0.2    | 0.3     | <b>3,368.1</b>     | -0.1    | 0.2     | <b>1,088.8</b>     | 1.0     | 0.3     | <b>1,318.3</b>     | -0.2    | 0.3     | <b>202.9</b>       | 1.2     | 0.2     |
|                          | -179.5             | 67.9    |         | -85.7              | 46.1    |         | 165.5              | 14.7    |         | -31.4              | 23.0    |         | 65.9               | 7.2     |         |
| <b>VNJNRP</b>            | <b>4,054.0</b>     | -0.6    |         | <b>3,270.0</b>     | -0.3    |         | <b>888.0</b>       | -0.2    |         | <b>1,264.0</b>     | -0.6    |         | <b>135.0</b>       | 0.0     |         |
|                          | -593.5             | 0.0     |         | -183.8             | 0.0     |         | -35.3              | 0.0     |         | -85.7              | 0.0     |         | -2.0               | 0.0     |         |
| <b>DYXQH7</b>            | <b>4,106.6</b>     | -0.6    | 0.9     | <b>3,830.3</b>     | 0.6     | 0.8     | <b>766.9</b>       | -1.0    | 1.2     | <b>1,473.1</b>     | 0.9     | 1.0     | <b>200.2</b>       | 1.2     | 0.4     |
|                          | -540.9             | 239.0   |         | 376.5              | 252.6   |         | -156.4             | 64.5    |         | 123.4              | 81.7    |         | 63.2               | 13.7    |         |
| <b>Grand Median</b>      |                    | 4,647.5 |         |                    | 3,453.8 |         |                    | 923.3   |         |                    | 1,349.7 |         |                    | 137.0   |         |
| <b>Median Abs Dev</b>    |                    | 427.7   |         |                    | 262.7   |         |                    | 112.5   |         |                    | 76.0    |         |                    | 33.5    |         |
| <b>Avg Within Lab SD</b> |                    | 255.7   |         |                    | 300.6   |         |                    | 51.6    |         |                    | 81.7    |         |                    | 34.1    |         |
| <b>Labs Included</b>     |                    | 44      |         |                    | 44      |         |                    | 44      |         |                    | 44      |         |                    | 44      |         |
| <b>Labs Reporting</b>    |                    | 44      |         |                    | 44      |         |                    | 44      |         |                    | 44      |         |                    | 44      |         |



## ALP Program - Participant Web Summary Report - Cycle 29

|                    |         |         |                    |         |         |                    |         |         |                    |         |         |                    |         |         |
|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|
| 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 143) |              |                     | in the Bases (1:10) Property Groups |              |                    |                   |              |                    |                   |              |                   |                    |             |                     | Data units: mg/kg |  |  |
|---------------------------------------|--------------|---------------------|-------------------------------------|--------------|--------------------|-------------------|--------------|--------------------|-------------------|--------------|-------------------|--------------------|-------------|---------------------|-------------------|--|--|
| SRSSRS1601                            |              |                     | SRSSRS1602                          |              |                    | SRSSRS1603        |              |                    | SRSSRS1604        |              |                   | SRSSRS1605         |             |                     |                   |  |  |
| <b>GZ63WD</b>                         | <b>440.7</b> | -0.1<br>-3.2<br>0.8 | 0.5<br>11.8<br>0.3                  | <b>305.3</b> | 0.3<br>16.0<br>0.9 | 0.3<br>5.5<br>0.6 | <b>80.7</b>  | 0.0<br>-0.4<br>0.5 | 0.3<br>1.5<br>0.6 | <b>312.0</b> | 0.1<br>6.1<br>1.3 | 0.6<br>10.5<br>0.6 | <b>20.3</b> | -0.2<br>-2.2<br>0.2 | 0.0<br>0.6<br>0.1 |  |  |
| <b>HRQGNA</b>                         | <b>489.3</b> | 45.5<br>1.1         | 8.1<br>1.2                          | <b>333.4</b> | 44.1<br>0.3        | 8.8<br>1.6        | <b>87.7</b>  | 6.7<br>2.2         | 3.3<br>4.5        | <b>362.3</b> | 56.4<br>1.1       | 10.4<br>2.4        | <b>24.8</b> | 2.3<br>0.8          | 2.2<br>1.8        |  |  |
| <b>CJTVUF</b>                         | <b>509.1</b> | 65.2<br>0.5         | 29.8<br>0.4                         | <b>306.3</b> | 17.0<br>0.0        | 24.7<br>0.2       | <b>111.5</b> | 30.4<br>0.6        | 25.6<br>0.5       | <b>353.3</b> | 47.4<br>1.3       | 42.6<br>0.2        | <b>33.2</b> | 10.7<br>-0.3        | 28.2<br>0.0       |  |  |
| <b>83L8FJ</b>                         | <b>476.6</b> | 32.8<br>-0.8        | 10.7<br>0.1                         | <b>287.7</b> | -1.7<br>-0.2       | 2.9<br>0.1        | <b>90.1</b>  | 9.0<br>-0.3        | 2.7<br>0.1        | <b>361.0</b> | 55.1<br>-0.2      | 4.0<br>0.2         | <b>19.0</b> | -3.5<br>0.0         | 0.4<br>0.0        |  |  |
| <b>BFZE6F</b>                         | <b>393.0</b> | -50.9<br>-0.2       | 3.5<br>0.6                          | <b>279.4</b> | -10.0<br>0.1       | 1.4<br>0.8        | <b>76.5</b>  | -4.5<br>-0.1       | 0.6<br>0.4        | <b>298.8</b> | -7.0<br>-0.3      | 3.4<br>0.4         | <b>22.4</b> | -0.1<br>-0.7        | 0.7<br>0.2        |  |  |
| <b>644GFL</b>                         | <b>429.8</b> | -14.1<br>-0.8       | 16.0<br>0.1                         | <b>295.9</b> | 6.6<br>-0.3        | 13.0<br>0.5       | <b>80.2</b>  | -0.9<br>1.4        | 2.2<br>1.4        | <b>295.1</b> | -10.8<br>-0.4     | 8.0<br>0.2         | <b>14.1</b> | -8.4<br>2.6         | 3.0<br>0.2        |  |  |
| <b>2GK3BP</b>                         | <b>395.3</b> | -48.5<br>-0.7       | 2.5<br>0.7                          | <b>273.7</b> | -15.7<br>-0.6      | 7.6<br>1.3        | <b>101.0</b> | 19.9<br>-0.2       | 7.8<br>1.2        | <b>288.7</b> | -17.2<br>0.4      | 3.2<br>0.9         | <b>55.0</b> | 32.5<br>0.2         | 3.6<br>0.2        |  |  |
| <b>33JQFQ</b>                         | <b>403.0</b> | -40.8<br>-0.4       | 17.7<br>0.2                         | <b>260.3</b> | -29.0<br>0.2       | 19.9<br>0.5       | <b>78.7</b>  | -2.4<br>-0.7       | 6.7<br>1.0        | <b>321.0</b> | 15.1<br>0.2       | 17.1<br>0.2        | <b>24.7</b> | 2.2<br>-1.0         | 2.5<br>0.1        |  |  |
| <b>XNBEWV</b>                         | <b>420.3</b> | -23.5<br>0.3        | 5.1<br>0.1                          | <b>301.0</b> | 11.7<br>-0.8       | 8.5<br>0.2        | <b>71.7</b>  | -9.4<br>-0.6       | 5.5<br>0.3        | <b>314.0</b> | 8.1<br>-0.1       | 4.4<br>0.4         | <b>10.3</b> | -12.2<br>0.0        | 1.2<br>0.1        |  |  |
| <b>LM4ZL8</b>                         | <b>464.3</b> | 20.5<br>-0.2        | 3.1<br>0.4                          | <b>251.7</b> | -37.7<br>-0.6      | 3.1<br>0.2        | <b>73.3</b>  | -7.7<br>0.2        | 1.5<br>0.2        | <b>303.7</b> | -2.2<br>0.1       | 7.4<br>0.2         | <b>22.0</b> | -0.5<br>0.8         | 1.0<br>0.0        |  |  |
| <b>6BMKMN</b>                         | <b>429.3</b> | -14.6<br>-1.1       | 10.2<br>0.7                         | <b>259.5</b> | -29.9<br>-1.0      | 3.5<br>0.3        | <b>84.0</b>  | 2.9<br>-0.6        | 1.0<br>0.7        | <b>308.1</b> | 2.2<br>-0.9       | 3.7<br>0.6         | <b>32.3</b> | 9.8<br>-1.2         | 0.6<br>0.0        |  |  |
| <b>9JP2MJ</b>                         | <b>375.8</b> | -68.0<br>0.0        | 17.3<br>0.1                         | <b>241.3</b> | -48.0<br>0.5       | 4.0<br>0.5        | <b>73.4</b>  | -7.7<br>0.7        | 4.2<br>0.7        | <b>265.8</b> | -40.1<br>0.3      | 11.2<br>0.1        | <b>6.7</b>  | -15.8<br>0.1        | 0.3<br>0.1        |  |  |
| <b>PFR9KY</b>                         | <b>441.7</b> | -2.1<br>0.9         | 3.3<br>0.2                          | <b>312.6</b> | 23.2<br>0.7        | 8.3<br>0.5        | <b>91.3</b>  | 10.2<br>1.2        | 3.8<br>0.4        | <b>319.6</b> | 13.7<br>1.1       | 1.7<br>0.3         | <b>24.3</b> | 1.8<br>0.9          | 1.1<br>0.0        |  |  |
| <b>K8VMR6</b>                         | <b>499.3</b> | 55.5<br>0.4         | 5.1<br>0.1                          | <b>324.3</b> | 35.0<br>0.9        | 7.5<br>0.2        | <b>97.3</b>  | 16.3<br>1.0        | 2.1<br>0.3        | <b>355.0</b> | 49.1<br>1.2       | 4.6<br>0.2         | <b>34.3</b> | 11.8<br>-0.4        | 0.6<br>0.0        |  |  |
| <b>XWTMKR</b>                         | <b>468.3</b> | 24.4<br>1.9         | 3.3<br>1.0                          | <b>332.4</b> | 43.0<br>1.8        | 3.6<br>0.9        | <b>95.4</b>  | 14.3<br>0.2        | 1.7<br>0.6        | <b>359.3</b> | 53.4<br>0.9       | 4.2<br>0.6         | <b>17.8</b> | -4.7<br>-0.9        | 0.1<br>0.1        |  |  |
| <b>FPNYC9</b>                         | <b>558.7</b> | 114.8<br>0.3        | 24.6<br>0.1                         | <b>380.7</b> | 91.3<br>0.2        | 14.2<br>0.8       | <b>83.7</b>  | 2.6<br>0.0         | 3.2<br>0.2        | <b>346.0</b> | 40.1<br>0.2       | 10.8<br>0.1        | <b>11.0</b> | -11.5<br>-0.3       | 1.7<br>0.1        |  |  |
| <b>WGX7VT</b>                         | <b>463.0</b> | 19.2<br>-1.0        | 3.0<br>0.0                          | <b>301.7</b> | 12.3<br>-0.6       | 13.0<br>0.2       | <b>81.2</b>  | 0.2<br>-1.1        | 1.4<br>0.3        | <b>312.7</b> | 6.8<br>-0.9       | 1.5<br>0.3         | <b>18.7</b> | -3.8<br>-0.7        | 0.8<br>0.1        |  |  |
| <b>QECBRZ</b>                         | <b>386.3</b> | -57.5<br>-0.2       | 0.6<br>0.5                          | <b>261.7</b> | -27.7<br>-0.9      | 3.8<br>0.5        | <b>65.7</b>  | -15.4<br>-1.4      | 1.5<br>0.4        | <b>265.0</b> | -40.9<br>-0.9     | 5.3<br>0.3         | <b>14.0</b> | -8.5<br>0.0         | 1.0<br>0.1        |  |  |
| <b>6VACMK</b>                         | <b>430.0</b> | -13.8<br>0.0        | 12.1<br>0.4                         | <b>243.0</b> | -46.4<br>-0.1      | 8.0<br>0.5        | <b>62.3</b>  | -18.7<br>-0.4      | 2.5<br>0.5        | <b>268.3</b> | -37.6<br>-0.3     | 5.8<br>0.1         | <b>23.0</b> | 0.5<br>0.5          | 1.7<br>0.1        |  |  |
| <b>DFA3JC</b>                         | <b>442.7</b> | -1.2<br>11.0        |                                     | <b>286.0</b> | -3.4<br>8.7        |                   | <b>76.0</b>  | -5.1<br>2.6        |                   | <b>293.7</b> | -12.2<br>1.2      |                    | <b>28.7</b> | 6.2<br>1.5          |                   |  |  |



## ALP Program - Participant Web Summary Report - Cycle 29

|               | 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     |         |         |
|               | 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 | 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 |
| <b>DCARMD</b> | <b>439.4</b> | -0.1    | 0.6     | <b>312.2</b> | 0.5     | 0.8     | <b>91.6</b>  | 0.8     | 0.6     | <b>291.9</b> | -0.3    | 1.0     | <b>29.2</b> | 0.5     | 0.1     |             |         |         |             |         |         |             |         |         |             |         |         |             |         |         |
|               |              | -4.4    | 13.7    |              | 22.9    | 12.8    |              | 10.6    | 3.6     |              | -14.0   | 17.1    |             | 6.7     | 2.3     |             |         |         |             |         |         |             |         |         |             |         |         |             |         |         |
|               |              | 0.3     | 0.2     |              | 0.3     | 0.1     |              | 0.2     | 0.7     |              | 0.2     | 0.3     |             | 0.3     | 0.1     |             |         |         |             |         |         |             |         |         |             |         |         |             |         |         |
| <b>K2N3HD</b> | <b>462.7</b> | 18.8    | 5.8     | <b>303.7</b> | 14.4    | 1.2     | <b>83.3</b>  | 2.3     | 4.2     | <b>316.5</b> | 10.6    | 4.9     | <b>26.2</b> | 3.7     | 1.3     |             |         |         |             |         |         |             |         |         |             |         |         |             |         |         |
|               |              | -0.4    | 0.3     |              | -0.4    | 0.9     |              | 0.0     | 0.6     |              | -0.7    | 0.2     |             | 0.0     | 0.1     |             |         |         |             |         |         |             |         |         |             |         |         |             |         |         |
| <b>T9EFX6</b> | <b>420.0</b> | -23.8   | 8.5     | <b>268.5</b> | -20.9   | 14.8    | <b>80.5</b>  | -0.6    | 3.5     | <b>274.0</b> | -31.9   | 4.2     | <b>22.5</b> | 0.0     | 2.1     |             |         |         |             |         |         |             |         |         |             |         |         |             |         |         |
|               |              | 0.1     | 0.5     |              | -0.5    | 1.8     |              | 0.1     | 0.5     |              | 0.6     | 0.4     |             | 0.4     | 0.1     |             |         |         |             |         |         |             |         |         |             |         |         |             |         |         |
| <b>3KE7UV</b> | <b>449.0</b> | 5.2     | 11.4    | <b>265.0</b> | -24.4   | 27.8    | <b>81.9</b>  | 0.8     | 2.9     | <b>333.7</b> | 27.8    | 8.0     | <b>27.1</b> | 4.6     | 2.1     |             |         |         |             |         |         |             |         |         |             |         |         |             |         |         |
|               |              | 0.0     | 0.0     |              | -0.3    | 0.1     |              | 0.1     | 0.1     |              | -0.1    | 3.1     |             | 0.5     | 0.0     |             |         |         |             |         |         |             |         |         |             |         |         |             |         |         |
| <b>LZMPAC</b> | <b>445.0</b> | 1.2     | 1.0     | <b>273.3</b> | -16.0   | 2.3     | <b>82.0</b>  | 0.9     | 0.5     | <b>303.7</b> | -2.2    | 55.2    | <b>28.6</b> | 6.1     | 0.2     |             |         |         |             |         |         |             |         |         |             |         |         |             |         |         |
|               |              | -0.7    | 0.8     |              | -0.2    | 0.6     |              | -0.6    | 0.1     |              | -0.4    | 0.8     |             | 0.1     | 0.1     |             |         |         |             |         |         |             |         |         |             |         |         |             |         |         |
| <b>BMDAYP</b> | <b>403.3</b> | -40.5   | 20.8    | <b>280.0</b> | -9.4    | 10.0    | <b>73.3</b>  | -7.7    | 0.6     | <b>286.7</b> | -19.2   | 15.3    | <b>23.3</b> | 0.8     | 1.2     |             |         |         |             |         |         |             |         |         |             |         |         |             |         |         |
|               |              | -0.9    | 0.3     |              | -1.4    | 0.3     |              | -1.1    | 0.0     |              | -0.9    | 0.2     |             | 0.6     | 0.2     |             |         |         |             |         |         |             |         |         |             |         |         |             |         |         |
| <b>T84DB7</b> | <b>392.3</b> | -51.6   | 6.5     | <b>220.0</b> | -69.4   | 4.9     | <b>66.5</b>  | -14.6   | 0.1     | <b>268.6</b> | -37.3   | 4.2     | <b>30.6</b> | 8.1     | 2.8     |             |         |         |             |         |         |             |         |         |             |         |         |             |         |         |
|               |              | -0.1    | 0.1     |              | -0.7    | 0.2     |              | -0.5    | 0.2     |              | -0.2    | 0.2     |             | 0.2     | 0.0     |             |         |         |             |         |         |             |         |         |             |         |         |             |         |         |
| <b>L2J8CD</b> | <b>437.7</b> | -6.2    | 3.5     | <b>252.3</b> | -37.0   | 3.1     | <b>73.7</b>  | -7.4    | 1.2     | <b>297.3</b> | -8.6    | 3.8     | <b>25.3</b> | 2.8     | 0.3     |             |         |         |             |         |         |             |         |         |             |         |         |             |         |         |
|               |              | 0.6     | 0.2     |              | 0.7     | 0.0     |              | 0.2     | 0.6     |              | 1.0     | 0.2     |             | 0.4     | 0.0     |             |         |         |             |         |         |             |         |         |             |         |         |             |         |         |
| <b>79D4JP</b> | <b>482.4</b> | 38.5    | 6.0     | <b>323.3</b> | 34.0    | 0.8     | <b>83.3</b>  | 2.2     | 3.5     | <b>347.1</b> | 41.3    | 3.6     | <b>27.1</b> | 4.6     | 0.5     |             |         |         |             |         |         |             |         |         |             |         |         |             |         |         |
|               |              | 2.6     | 3.7     |              | 3.5     | 2.7     |              | 3.0     | 2.0     |              | 1.9     | 2.3     |             | 2.3     | 1.5     |             |         |         |             |         |         |             |         |         |             |         |         |             |         |         |
| <b>2WG8UU</b> | <b>603.3</b> | 159.5   | 91.3    | <b>464.0</b> | 174.7   | 43.5    | <b>123.0</b> | 41.9    | 11.5    | <b>386.7</b> | 80.8    | 41.8    | <b>51.0</b> | 28.5    | 22.5    |             |         |         |             |         |         |             |         |         |             |         |         |             |         |         |
|               |              | 1.0     | 0.2     |              | 1.3     | 0.2     |              | 2.3     | 0.4     |              | 1.3     | 0.1     |             | 0.9     | 0.2     |             |         |         |             |         |         |             |         |         |             |         |         |             |         |         |
| <b>UNPG82</b> | <b>507.3</b> | 63.5    | 4.7     | <b>357.0</b> | 67.7    | 3.0     | <b>112.7</b> | 31.6    | 2.5     | <b>362.7</b> | 56.8    | 2.1     | <b>33.3</b> | 10.8    | 2.9     |             |         |         |             |         |         |             |         |         |             |         |         |             |         |         |
|               |              | 0.4     | 0.7     |              | -0.3    | 0.8     |              | -0.5    | 0.4     |              | -0.1    | 0.6     |             | -0.1    | 0.1     |             |         |         |             |         |         |             |         |         |             |         |         |             |         |         |
| <b>VBVLAX</b> | <b>468.3</b> | 24.5    | 17.9    | <b>274.0</b> | -15.4   | 13.1    | <b>74.3</b>  | -6.7    | 2.5     | <b>300.0</b> | -5.9    | 11.4    | <b>21.7</b> | -0.8    | 1.5     |             |         |         |             |         |         |             |         |         |             |         |         |             |         |         |
|               |              | -0.4    | 0.8     |              | -0.1    | 0.7     |              | 0.1     | 0.8     |              | -0.2    | 0.8     |             | 4.0     | 6.1     |             |         |         |             |         |         |             |         |         |             |         |         |             |         |         |
| <b>AM2DUK</b> | <b>416.7</b> | -27.2   | 20.8    | <b>283.3</b> | -6.0    | 11.5    | <b>83.0</b>  | 1.9     | 4.4     | <b>296.7</b> | -9.2    | 15.3    | <b>72.7</b> | 50.2    | 93.0    |             |         |         |             |         |         |             |         |         |             |         |         |             |         |         |
|               |              | -0.2    | 0.6     |              | -0.2    |         |              | 0.4     | 0.9     |              | -0.3    | 0.1     |             | 2.1     | 0.2     |             |         |         |             |         |         |             |         |         |             |         |         |             |         |         |
| <b>3BBBBQ</b> | <b>432.7</b> | -11.2   | 14.5    | <b>277.0</b> | -12.4   | 0.0     | <b>86.0</b>  | 4.9     | 5.0     | <b>295.0</b> | -10.9   | 2.0     | <b>49.7</b> | 27.2    | 2.5     |             |         |         |             |         |         |             |         |         |             |         |         |             |         |         |
|               |              | -6.1    | 0.2     |              | -4.7    | 0.1     |              | -5.0    | 0.0     |              | -6.0    | 0.1     |             | -1.6    | 0.0     |             |         |         |             |         |         |             |         |         |             |         |         |             |         |         |
| <b>4JGF2L</b> | <b>77.0</b>  | -366.9  | 5.0     | <b>55.0</b>  | -234.3  | 2.3     | <b>12.0</b>  | -69.0   | 0.2     | <b>48.7</b>  | -257.1  | 2.4     | <b>2.2</b>  | -20.3   | 0.3     |             |         |         |             |         |         |             |         |         |             |         |         |             |         |         |
|               |              | 1.2     |         |              | 1.1     |         |              | -0.1    |         |              | 0.3     |         |             |         |         |             |         |         |             |         |         |             |         |         |             |         |         |             |         |         |
| <b>YTJ7GT</b> | <b>519.0</b> | 75.2    | 0.0     | <b>345.0</b> | 55.7    | 0.0     | <b>80.2</b>  | -0.9    | 0.0     | <b>320.0</b> | 14.1    | 0.0     |             |         |         |             |         |         |             |         |         |             |         |         |             |         |         |             |         |         |
|               |              | 1.3     | 2.0     |              | 0.5     | 0.5     |              | 0.5     | 1.8     |              | 0.2     | 1.3     |             | -0.5    | 0.4     |             |         |         |             |         |         |             |         |         |             |         |         |             |         |         |
| <b>4KCY3M</b> | <b>520.0</b> | 76.2    | 50.5    | <b>314.3</b> | 25.0    | 7.6     | <b>88.0</b>  | 6.9     | 10.1    | <b>312.7</b> | 6.8     | 23.6    | <b>16.3</b> | -6.2    | 6.7     |             |         |         |             |         |         |             |         |         |             |         |         |             |         |         |
|               |              | -1.5    | 0.0     |              | -0.8    | 0.1     |              | -0.5    | 0.2     |              | -1.2    | 0.2     |             | -0.9    | 0.0     |             |         |         |             |         |         |             |         |         |             |         |         |             |         |         |
| <b>MZGWVZ</b> | <b>351.8</b> | -92.1   | 1.1     | <b>251.3</b> | -38.0   | 2.2     | <b>73.8</b>  | -7.2    | 1.0     | <b>252.3</b> | -53.6   | 3.5     | <b>11.2</b> | -11.3   | 0.4     |             |         |         |             |         |         |             |         |         |             |         |         |             |         |         |
|               |              | 0.5     | 0.6     |              | 0.2     | 1.2     |              | 1.1     | 0.0     |              | 0.8     |         |             | 0.1     | 0.0     |             |         |         |             |         |         |             |         |         |             |         |         |             |         |         |
| <b>C8H8XB</b> | <b>476.0</b> | 32.2    | 13.9    | <b>298.7</b> | 9.3     | 18.9    | <b>96.8</b>  | 15.7    | 0.0     | <b>339.0</b> | 33.1    | 0.0     | <b>24.2</b> | 1.7     | 0.0     |             |         |         |             |         |         |             |         |         |             |         |         |             |         |         |
|               |              | 3.1     | 4.1     |              | 3.0     | 4.4     |              | 2.8     | 1.9     |              | 3.4     | 3.7     |             | -0.3    | 0.1     |             |         |         |             |         |         |             |         |         |             |         |         |             |         |         |
| <b>ZZZ3WM</b> | <b>628.8</b> | 185.0   | 102.3   | <b>438.8</b> | 149.5   | 68.9    | <b>120.0</b> | 39.0    | 11.0    | <b>453.6</b> | 147.7   | 67.5    | <b>18.9</b> | -3.6    | 2.2     |             |         |         |             |         |         |             |         |         |             |         |         |             |         |         |
|               |              | 1.4     | 0.4     |              | 1.0     | 0.0     |              | 0.7     | 0.3     |              | 1.1     | 0.2     |             | 0.0     | 0.1     |             |         |         |             |         |         |             |         |         |             |         |         |             |         |         |
| <b>PHEWWY</b> | <b>528.9</b> | 85.1    | 10.9    | <b>338.3</b> | 48.9    | 0.4     | <b>91.2</b>  | 10.2    | 2.0     | <b>352.1</b> | 46.3    | 4.2     | <b>22.3</b> | -0.2    | 1.1     |             |         |         |             |         |         |             |         |         |             |         |         |             |         |         |
|               |              | 0.6     | 0.1     |              | 0.8     | 0.0     |              | 0.3     | 0.3     |              | 0.8     | 0.4     |             | -0.9    | 0.2     |             |         |         |             |         |         |             |         |         |             |         |         |             |         |         |
| <b>X3EMTR</b> | <b>477.1</b> | 33.3    | 2.7     | <b>328.8</b> | 39.5    | 0.8     | <b>85.0</b>  | 4.0     | 1.8     | <b>340.0</b> | 34.1    | 7.8     | <b>10.6</b> | -11.9   | 2.4     |             |         |         |             |         |         |             |         |         |             |         |         |             |         |         |



## ALP Program - Participant Web Summary Report - Cycle 29

|                          | 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>XYFCWR</b>            | <b>4.7</b>         | -7.3    | 0.0     | <b>3.5</b>         | -5.7    | 0.0     | <b>0.9</b>         | -5.8    | 0.0     | <b>3.1</b>         | -7.0    | 0.0     | <b>0.2</b>         | -1.8    | 0.0     |
|                          |                    | -439.1  | 0.1     |                    | -285.9  | 0.0     |                    | -80.1   | 0.0     |                    | -302.8  | 0.0     |                    | -22.3   | 0.0     |
| <b>J6NUD7</b>            | <b>477.1</b>       | 0.5     | 0.1     | <b>333.1</b>       | 0.9     | 0.3     | <b>93.7</b>        | 0.9     | 0.5     | <b>326.8</b>       | 0.5     | 0.2     | <b>22.3</b>        | 0.0     | 0.1     |
|                          |                    | 33.2    | 2.7     |                    | 43.8    | 4.7     |                    | 12.6    | 3.0     |                    | 20.9    | 2.7     |                    | -0.2    | 2.0     |
| <b>DURWNB</b>            | <b>480.0</b>       | 0.6     | 0.0     | <b>328.9</b>       | 0.8     | 0.3     | <b>80.9</b>        | 0.0     | 0.6     | <b>347.4</b>       | 1.0     | 0.1     | <b>26.8</b>        | 0.3     | 0.2     |
|                          |                    | 36.2    | 0.5     |                    | 39.6    | 4.3     |                    | -0.2    | 3.4     |                    | 41.5    | 2.0     |                    | 4.3     | 3.1     |
| <b>VNJNRP</b>            | <b>453.0</b>       | 0.2     |         | <b>291.0</b>       | 0.0     |         | <b>76.0</b>        | -0.4    |         | <b>270.0</b>       | -0.8    |         | <b>22.0</b>        | 0.0     |         |
|                          |                    | 9.2     | 0.0     |                    | 1.7     | 0.0     |                    | -5.1    | 0.0     |                    | -35.9   | 0.0     |                    | -0.5    | 0.0     |
| <b>DYXQH7</b>            | <b>474.7</b>       | 0.5     | 0.4     | <b>303.5</b>       | 0.3     | 0.9     | <b>80.4</b>        | 0.0     | 1.3     | <b>294.1</b>       | -0.3    | 1.0     | <b>46.2</b>        | 1.9     | 0.2     |
|                          |                    | 30.9    | 11.0    |                    | 14.1    | 14.2    |                    | -0.6    | 7.4     |                    | -11.8   | 18.4    |                    | 23.7    | 3.8     |
| <b>Grand Median</b>      |                    | 443.8   |         |                    | 289.4   |         |                    | 81.1    |         |                    | 305.9   |         |                    | 22.5    |         |
| <b>Median Abs Dev</b>    |                    | 32.5    |         |                    | 24.7    |         |                    | 6.8     |         |                    | 20.1    |         |                    | 4.6     |         |
| <b>Avg Within Lab SD</b> |                    | 24.7    |         |                    | 15.8    |         |                    | 5.7     |         |                    | 18.0    |         |                    | 15.3    |         |
| <b>Labs Included</b>     |                    | 44      |         |                    | 44      |         |                    | 44      |         |                    | 44      |         |                    | 43      |         |
| <b>Labs Reporting</b>    |                    | 44      |         |                    | 44      |         |                    | 44      |         |                    | 44      |         |                    | 43      |         |



## ALP Program - Participant Web Summary Report - Cycle 29

|                    |         |         |                    |         |         |                    |         |         |                    |         |         |                    |         |         |
|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|
| 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 144) | in the Bases (1:10) Property Groups |      |     |             |      |      |             |      |      |             |       |      |             |      |      | Data units: mg/kg |
|---------------------------------------|-------------------------------------|------|-----|-------------|------|------|-------------|------|------|-------------|-------|------|-------------|------|------|-------------------|
|                                       | SRSSRS1601                          |      |     | SRSSRS1602  |      |      | SRSSRS1603  |      |      | SRSSRS1604  |       |      | SRSSRS1605  |      |      |                   |
| <b>GZ63WD</b>                         | <b>11.3</b>                         | 0.0  | 0.3 | <b>16.3</b> | 0.5  | 1.0  | <b>9.7</b>  | -0.1 | 0.2  | <b>17.3</b> | 0.0   | 0.2  | <b>7.7</b>  | 0.0  | 0.4  |                   |
|                                       |                                     | 0.0  | 0.6 |             | 3.4  | 3.5  |             | -0.7 | 0.6  |             | 0.2   | 2.1  |             | 0.2  | 1.2  |                   |
| <b>HRQGNA</b>                         | <b>9.6</b>                          | -0.2 | 0.2 | <b>12.6</b> | -0.1 | 0.3  | <b>11.5</b> | 0.2  | 0.1  | <b>16.2</b> | -0.1  | 0.0  | <b>7.0</b>  | -0.1 | 0.2  |                   |
|                                       |                                     | -1.7 | 0.3 |             | -0.4 | 1.2  |             | 1.2  | 0.5  |             | -0.9  | 0.6  |             | -0.5 | 0.6  |                   |
| <b>CJTVUF</b>                         | <b>52.4</b>                         | 5.6  | 3.9 | <b>44.3</b> | 4.6  | 5.3  | <b>51.1</b> | 5.8  | 5.6  | <b>52.7</b> | 3.7   | 2.4  | <b>41.6</b> | 5.7  | 4.9  |                   |
|                                       |                                     | 41.0 | 8.0 |             | 31.3 | 19.5 |             | 40.8 | 21.1 |             | 35.6  | 32.3 |             | 34.1 | 14.2 |                   |
| <b>83L8FJ</b>                         | <b>7.9</b>                          | -0.5 | 0.1 | <b>9.8</b>  | -0.5 | 0.3  | <b>5.7</b>  | -0.7 | 0.3  | <b>13.5</b> | -0.4  | 0.1  | <b>7.9</b>  | 0.1  | 0.1  |                   |
|                                       |                                     | -3.4 | 0.2 |             | -3.1 | 1.0  |             | -4.6 | 1.2  |             | -3.6  | 1.4  |             | 0.4  | 0.2  |                   |
| <b>BFZE6F</b>                         | <b>11.7</b>                         | 0.1  | 0.1 | <b>13.5</b> | 0.1  | 0.0  | <b>9.2</b>  | -0.2 | 0.0  | <b>18.7</b> | 0.2   | 0.0  | <b>7.1</b>  | -0.1 | 0.0  |                   |
|                                       |                                     | 0.4  | 0.2 |             | 0.5  | 0.2  |             | -1.2 | 0.1  |             | 1.6   | 0.3  |             | -0.4 | 0.1  |                   |
| <b>644GFL</b>                         | <b>7.3</b>                          | -0.5 | 0.4 | <b>11.9</b> | -0.2 | 1.3  | <b>5.9</b>  | -0.6 | 0.5  | <b>16.3</b> | -0.1  | 0.7  | <b>8.3</b>  | 0.1  | 2.7  |                   |
|                                       |                                     | -4.1 | 0.8 |             | -1.1 | 4.9  |             | -4.4 | 2.0  |             | -0.8  | 9.0  |             | 0.8  | 8.0  |                   |
| <b>2GK3BP</b>                         | <b>7.7</b>                          | -0.5 | 0.3 | <b>9.3</b>  | -0.5 | 0.2  | <b>7.0</b>  | -0.5 | 0.3  | <b>13.7</b> | -0.4  | 0.1  | <b>6.0</b>  | -0.2 | 0.3  |                   |
|                                       |                                     | -3.7 | 0.6 |             | -3.6 | 0.6  |             | -3.3 | 1.0  |             | -3.4  | 1.2  |             | -1.5 | 1.0  |                   |
| <b>33JQFQ</b>                         | <b>8.3</b>                          | -0.4 | 0.3 | <b>8.3</b>  | -0.7 | 0.3  | <b>5.7</b>  | -0.7 | 0.2  | <b>14.0</b> | -0.3  | 0.1  | <b>6.0</b>  | -0.2 | 0.6  |                   |
|                                       |                                     | -3.0 | 0.6 |             | -4.6 | 1.2  |             | -4.7 | 0.6  |             | -3.1  | 1.0  |             | -1.5 | 1.7  |                   |
| <b>XNBEWV</b>                         | <b>17.0</b>                         | 0.8  | 1.3 | <b>24.3</b> | 1.7  | 0.7  | <b>19.7</b> | 1.3  | 0.6  | <b>24.7</b> | 0.8   | 0.1  | <b>5.7</b>  | -0.3 | 0.2  |                   |
|                                       |                                     | 5.7  | 2.6 |             | 11.4 | 2.5  |             | 9.3  | 2.1  |             | 7.6   | 1.5  |             | -1.8 | 0.6  |                   |
| <b>LM4ZL8</b>                         | <b>13.7</b>                         | 0.3  | 0.2 | <b>13.0</b> | 0.0  | 0.1  | <b>12.8</b> | 0.4  | 0.1  | <b>23.1</b> | 0.6   | 0.1  | <b>12.3</b> | 0.8  | 0.2  |                   |
|                                       |                                     | 2.4  | 0.4 |             | 0.0  | 0.2  |             | 2.5  | 0.2  |             | 6.0   | 0.9  |             | 4.9  | 0.6  |                   |
| <b>6BMKMN</b>                         | <b>14.6</b>                         | 0.4  | 0.3 | <b>13.5</b> | 0.1  | 0.1  | <b>10.5</b> | 0.0  | 0.2  | <b>17.4</b> | 0.0   | 0.0  | <b>9.9</b>  | 0.4  | 0.2  |                   |
|                                       |                                     | 3.3  | 0.5 |             | 0.6  | 0.4  |             | 0.1  | 0.6  |             | 0.3   | 0.7  |             | 2.4  | 0.7  |                   |
| <b>9JP2MJ</b>                         | <b>13.5</b>                         | 0.3  | 0.7 | <b>13.0</b> | 0.0  | 0.4  | <b>10.1</b> | 0.0  | 0.2  | <b>16.0</b> | -0.1  | 0.1  | <b>6.7</b>  | -0.1 | 0.1  |                   |
|                                       |                                     | 2.1  | 1.5 |             | 0.0  | 1.6  |             | -0.2 | 0.8  |             | -1.1  | 0.9  |             | -0.7 | 0.3  |                   |
| <b>PFR9KY</b>                         | <b>21.1</b>                         | 1.3  | 0.2 | <b>19.5</b> | 1.0  | 0.3  | <b>14.7</b> | 0.6  | 0.2  | <b>21.8</b> | 0.5   | 0.1  | <b>13.6</b> | 1.0  | 0.6  |                   |
|                                       |                                     | 9.7  | 0.4 |             | 6.5  | 1.0  |             | 4.4  | 0.8  |             | 4.7   | 0.9  |             | 6.1  | 1.8  |                   |
| <b>K8VMR6</b>                         | <b>17.7</b>                         | 0.9  | 0.3 | <b>21.0</b> | 1.2  | 0.3  | <b>16.7</b> | 0.9  | 0.2  | <b>23.7</b> | 0.7   | 0.0  | <b>15.3</b> | 1.3  | 0.2  |                   |
|                                       |                                     | 6.3  | 0.6 |             | 8.0  | 1.0  |             | 6.3  | 0.6  |             | 6.6   | 0.6  |             | 7.9  | 0.6  |                   |
| <b>FPNYC9</b>                         | <b>1.9</b>                          | -1.3 | 0.3 | <b>3.6</b>  | -1.4 | 0.1  |             |      |      | <b>5.8</b>  | -1.2  | 0.0  |             |      |      |                   |
|                                       |                                     | -9.5 | 0.6 |             | -9.4 | 0.3  |             |      |      |             | -11.3 | 0.6  |             |      |      |                   |
| <b>WGX7VT</b>                         | <b>6.7</b>                          | -0.6 | 0.3 | <b>10.2</b> | -0.4 | 0.4  | <b>4.3</b>  | -0.9 | 0.1  | <b>11.2</b> | -0.6  | 0.1  | <b>6.8</b>  | -0.1 | 0.2  |                   |
|                                       |                                     | -4.7 | 0.6 |             | -2.8 | 1.3  |             | -6.0 | 0.5  |             | -5.9  | 0.7  |             | -0.7 | 0.7  |                   |
| <b>QECBRZ</b>                         | <b>11.3</b>                         | 0.0  | 0.3 | <b>14.3</b> | 0.2  | 0.4  | <b>10.3</b> | 0.0  | 0.4  | <b>17.0</b> | 0.0   | 0.1  | <b>8.7</b>  | 0.2  | 0.5  |                   |
|                                       |                                     | 0.0  | 0.6 |             | 1.4  | 1.5  |             | 0.0  | 1.5  |             | -0.1  | 1.0  |             | 1.2  | 1.5  |                   |
| <b>6VACMK</b>                         | <b>10.0</b>                         | -0.2 | 0.8 | <b>8.7</b>  | -0.6 | 0.6  | <b>3.7</b>  | -1.0 | 0.2  | <b>7.7</b>  | -1.0  | 0.1  | <b>6.0</b>  | -0.2 | 0.7  |                   |
|                                       |                                     | -1.3 | 1.7 |             | -4.3 | 2.1  |             | -6.7 | 0.6  |             | -9.4  | 1.2  |             | -1.5 | 2.0  |                   |
| <b>DCARMD</b>                         | <b>8.2</b>                          | -0.4 | 2.9 | <b>9.5</b>  | -0.5 | 0.5  | <b>7.8</b>  | -0.4 | 0.7  | <b>14.7</b> | -0.3  | 0.2  | <b>5.9</b>  | -0.3 | 0.9  |                   |
|                                       |                                     | -3.2 | 6.1 |             | -3.5 | 1.8  |             | -2.5 | 2.6  |             | -2.4  | 2.2  |             | -1.6 | 2.6  |                   |
| <b>T9EFX6</b>                         | <b>14.0</b>                         | 0.4  | 0.7 | <b>14.5</b> | 0.2  | 0.2  | <b>13.0</b> | 0.4  | 0.4  | <b>18.5</b> | 0.1   | 0.1  | <b>10.5</b> | 0.5  | 0.2  |                   |
|                                       |                                     | 2.7  | 1.4 |             | 1.5  | 0.7  |             | 2.7  | 1.4  |             | 1.4   | 0.7  |             | 3.0  | 0.7  |                   |



## ALP Program - Participant Web Summary Report - Cycle 29

|               | 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>3KE7UV</b> | <b>99.4</b> | 11.9    | 0.9     | <b>110.3</b> | 14.4    | 1.1     | <b>132.1</b> | 17.4    | 1.8     | <b>132.4</b> | 12.0    | 0.4     | <b>35.1</b> | 4.6     | 0.4     |
|               |             | 88.1    | 1.8     |              | 97.3    | 4.0     |              | 121.8   | 6.6     |              | 115.3   | 5.0     |             | 27.6    | 1.3     |
| <b>LZMPAC</b> | <b>11.7</b> | 0.1     | 0.3     | <b>12.3</b>  | -0.1    | 0.2     | <b>10.3</b>  | 0.0     | 0.3     | <b>17.3</b>  | 0.0     | 0.0     | <b>8.8</b>  | 0.2     | 0.4     |
|               |             | 0.4     | 0.6     |              | -0.6    | 0.8     |              | 0.0     | 0.9     |              | 0.2     | 0.4     |             | 1.4     | 1.1     |
| <b>BMDAYP</b> | <b>14.3</b> | 0.4     | 1.6     | <b>15.7</b>  | 0.4     | 0.7     | <b>10.2</b>  | 0.0     | 0.4     | <b>62.7</b>  | 4.8     | 5.5     | <b>8.6</b>  | 0.2     | 0.3     |
|               |             | 3.0     | 3.2     |              | 2.7     | 2.5     |              | -0.1    | 1.5     |              | 45.6    | 75.6    |             | 1.2     | 0.9     |
| <b>T84DB7</b> | <b>14.8</b> | 0.5     | 0.7     | <b>14.1</b>  | 0.2     | 0.1     | <b>11.8</b>  | 0.2     | 0.0     | <b>17.6</b>  | 0.1     | 0.0     | <b>12.8</b> | 0.9     | 0.1     |
|               |             | 3.5     | 1.4     |              | 1.1     | 0.4     |              | 1.4     | 0.1     |              | 0.5     | 0.5     |             | 5.3     | 0.3     |
| <b>79D4JP</b> | <b>9.4</b>  | -0.3    | 0.2     | <b>12.7</b>  | 0.0     | 0.1     | <b>11.2</b>  | 0.1     | 0.2     | <b>17.1</b>  | 0.0     | 0.0     | <b>6.7</b>  | -0.1    | 0.2     |
|               |             | -2.0    | 0.5     |              | -0.3    | 0.4     |              | 0.9     | 0.8     |              | 0.0     | 0.7     |             | -0.8    | 0.6     |
| <b>2WG8UU</b> | <b>65.0</b> | 7.3     | 17.2    | <b>76.0</b>  | 9.4     | 6.9     | <b>60.3</b>  | 7.1     | 7.0     | <b>59.7</b>  | 4.4     | 2.5     | <b>47.3</b> | 6.6     | 8.3     |
|               |             | 53.7    | 35.5    |              | 63.0    | 25.5    |              | 50.0    | 26.3    |              | 42.6    | 34.8    |             | 39.9    | 24.2    |
| <b>UNPG82</b> | <b>17.3</b> | 0.8     | 0.3     | <b>19.3</b>  | 0.9     | 0.3     | <b>16.7</b>  | 0.9     | 0.4     | <b>22.3</b>  | 0.5     | 0.1     | <b>13.3</b> | 1.0     | 0.5     |
|               |             | 6.0     | 0.6     |              | 6.4     | 1.2     |              | 6.3     | 1.5     |              | 5.2     | 1.2     |             | 5.9     | 1.5     |
| <b>VBVLAX</b> | <b>8.0</b>  | -0.5    | 0.5     | <b>8.3</b>   | -0.7    | 0.2     | <b>5.0</b>   | -0.8    | 0.3     | <b>13.3</b>  | -0.4    | 0.0     | <b>6.0</b>  | -0.2    | 0.3     |
|               |             | -3.3    | 1.0     |              | -4.6    | 0.6     |              | -5.3    | 1.0     |              | -3.8    | 0.6     |             | -1.5    | 1.0     |
| <b>AM2DUK</b> | <b>14.3</b> | 0.4     | 0.6     | <b>18.3</b>  | 0.8     | 0.2     | <b>15.3</b>  | 0.7     | 0.3     | <b>21.0</b>  | 0.4     | 0.1     | <b>11.0</b> | 0.6     |         |
|               |             | 3.0     | 1.2     |              | 5.4     | 0.6     |              | 5.0     | 1.2     |              | 3.9     | 1.0     |             | 3.5     | 0.0     |
| <b>4JGF2L</b> | <b>0.7</b>  | -1.4    | 0.0     | <b>0.9</b>   | -1.8    | 0.0     | <b>0.5</b>   | -1.4    | 0.0     | <b>1.0</b>   | -1.7    | 0.0     | <b>0.3</b>  | -1.2    | 0.0     |
|               |             | -10.6   | 0.0     |              | -12.0   | 0.1     |              | -9.8    | 0.0     |              | -16.1   | 0.0     |             | -7.2    | 0.0     |
| <b>MZGWVZ</b> | <b>4.3</b>  | -0.9    | 0.3     | <b>9.0</b>   | -0.6    | 0.7     | <b>2.6</b>   | -1.1    | 0.2     | <b>6.6</b>   | -1.1    | 0.1     | <b>1.2</b>  | -1.0    | 0.3     |
|               |             | -7.0    | 0.6     |              | -4.0    | 2.5     |              | -7.8    | 0.9     |              | -10.5   | 1.0     |             | -6.3    | 0.8     |
| <b>C8H8XB</b> | <b>10.7</b> | -0.1    | 0.6     | <b>12.0</b>  | -0.1    | 1.0     | <b>7.7</b>   | -0.4    | 0.4     | <b>16.1</b>  | -0.1    | 0.3     | <b>6.1</b>  | -0.2    | 0.5     |
|               |             | -0.6    | 1.3     |              | -0.9    | 3.5     |              | -2.7    | 1.3     |              | -1.0    | 4.0     |             | -1.3    | 1.3     |
| <b>ZZZ3WM</b> | <b>13.2</b> | 0.3     | 0.9     | <b>15.3</b>  | 0.3     | 0.6     | <b>10.9</b>  | 0.1     | 0.3     | <b>21.0</b>  | 0.4     | 0.2     | <b>7.3</b>  | 0.0     | 0.2     |
|               |             | 1.9     | 1.9     |              | 2.3     | 2.1     |              | 0.6     | 1.0     |              | 3.9     | 3.3     |             | -0.2    | 0.6     |
| <b>PHEWWY</b> | <b>13.2</b> | 0.2     | 0.2     | <b>14.2</b>  | 0.2     | 0.0     | <b>11.9</b>  | 0.2     | 0.1     | <b>18.5</b>  | 0.1     | 0.0     | <b>9.0</b>  | 0.2     | 0.0     |
|               |             | 1.8     | 0.4     |              | 1.3     | 0.1     |              | 1.5     | 0.3     |              | 1.4     | 0.4     |             | 1.5     | 0.1     |
| <b>X3EMTR</b> |             |         |         |              |         |         | <b>18.4</b>  | 1.2     | 1.0     | <b>20.0</b>  | 0.3     | 0.0     | <b>28.4</b> | 3.5     | 0.5     |
|               |             |         |         |              |         |         |              | 8.1     | 3.8     |              | 2.9     | 0.5     |             | 20.9    | 1.6     |
| <b>XYFCWR</b> | <b>0.1</b>  | -1.5    | 0.0     | <b>0.1</b>   | -1.9    | 0.0     | <b>0.1</b>   | -1.5    | 0.0     | <b>0.1</b>   | -1.8    | 0.0     | <b>0.0</b>  | -1.2    | 0.0     |
|               |             | -11.3   | 0.0     |              | -12.9   | 0.0     |              | -10.3   | 0.0     |              | -17.0   | 0.0     |             | -7.4    | 0.0     |
| <b>J6NUD7</b> | <b>14.1</b> | 0.4     | 1.4     | <b>14.4</b>  | 0.2     | 0.6     | <b>11.6</b>  | 0.2     | 0.2     | <b>26.0</b>  | 0.9     | 0.0     | <b>9.6</b>  | 0.3     | 0.5     |
|               |             | 2.7     | 2.9     |              | 1.4     | 2.3     |              | 1.2     | 0.8     |              | 8.9     | 0.4     |             | 2.1     | 1.4     |
| <b>DURWNB</b> | <b>10.0</b> | -0.2    | 0.4     | <b>13.1</b>  | 0.0     | 0.5     | <b>11.1</b>  | 0.1     | 0.3     | <b>16.8</b>  | 0.0     | 0.1     | <b>6.4</b>  | -0.2    | 0.1     |
|               |             | -1.3    | 0.9     |              | 0.1     | 2.0     |              | 0.8     | 1.1     |              | -0.4    | 1.3     |             | -1.0    | 0.4     |
| <b>VNJNRP</b> | <b>21.0</b> | 1.3     |         | <b>22.0</b>  | 1.3     |         | <b>16.0</b>  | 0.8     |         | <b>25.0</b>  | 0.8     |         | <b>13.0</b> | 0.9     |         |
|               |             | 9.7     | 0.0     |              | 9.0     | 0.0     |              | 5.7     | 0.0     |              | 7.9     | 0.0     |             | 5.5     | 0.0     |
| <b>DYXQH7</b> | <b>6.3</b>  | -0.7    | 0.9     | <b>10.6</b>  | -0.4    | 0.5     | <b>7.8</b>   | -0.4    | 0.6     | <b>11.5</b>  | -0.6    | 0.1     | <b>4.0</b>  | -0.6    | 0.6     |
|               |             | -5.0    | 1.8     |              | -2.4    | 1.8     |              | -2.5    | 2.3     |              | -5.6    | 1.4     |             | -3.5    | 1.8     |



## ALP Program - Participant Web Summary Report - Cycle 29

|                          | 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>Grand Median</b>      |                    | 11.3    |         |                    | 13.0    |         |                    | 10.3    |         |                    | 17.1    |         |                    | 7.46    |         |
| <b>Median Abs Dev</b>    |                    | 3.1     |         |                    | 2.7     |         |                    | 2.7     |         |                    | 3.6     |         |                    | 1.48    |         |
| <b>Avg Within Lab SD</b> |                    | 2.1     |         |                    | 3.7     |         |                    | 3.7     |         |                    | 13.7    |         |                    | 2.92    |         |
| <b>Labs Included</b>     |                    | 36      |         |                    | 36      |         |                    | 36      |         |                    | 37      |         |                    | 36      |         |
| <b>Labs Reporting</b>    |                    | 36      |         |                    | 36      |         |                    | 36      |         |                    | 37      |         |                    | 36      |         |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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>Bray Extractable K (SubTestCode 145)</b> | <b>in the Bases (1:10) Property Groups</b> |     |              |     |              |     |              |     | <b>Data units: mg/kg</b> |      |
|---|--|-----|--------------|-----|--------------|-----|--------------|-----|--------------------------|------|
|   | SRSSRS1601                                 |     | SRSSRS1602   |     | SRSSRS1603   |     | SRSSRS1604   |     | SRSSRS1605               |      |
| <b>P9QWN3</b>                               | <b>88.1</b>                                | 0.7 | <b>93.7</b>  | 0.4 | <b>116.6</b> | 0.5 | <b>109.8</b> | 0.2 | <b>17.3</b>              | 0.0  |
|   |  | 1.1 |              | 1.0 |              | 1.0 |              | 0.9 |                          | 0.4  |
| <b>4KCY3M</b>                               | <b>106.7</b>                               | 1.2 | <b>112.7</b> | 1.4 | <b>130.7</b> | 1.3 | <b>136.3</b> | 1.4 | <b>30.0</b>              | 1.4  |
|   |  | 2.1 |              | 3.5 |              | 2.5 |              | 5.9 |                          | 17.5 |
| <b>Grand Median</b>                         | 97.4                                       |     | 103.2        |     | 123.6        |     | 123.1        |     | 23.6                     |      |
| <b>Median Abs Dev</b>                       |  |     |              |     |              |     |              |     |                          |      |
| <b>Avg Within Lab SD</b>                    | 1.7  |     | 2.6          |     | 1.9          |     | 4.2          |     | 12.4                     |      |
| <b>Labs Included</b>                        | 2  |     | 2            |     | 2            |     | 2            |     | 2                        |      |
| <b>Labs Reporting</b>                       | 2  |     | 2            |     | 2            |     | 2            |     | 2                        |      |





## ALP Program - Participant Web Summary Report - Cycle 29

| 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 146) | in the Bases (1:10) Property Groups |       |     |              |       |      |              |       |      |              |       |      | Data units: mg/kg |      |     |
|------------------------------|-------------------------------------|-------|-----|--------------|-------|------|--------------|-------|------|--------------|-------|------|-------------------|------|-----|
|                              | SRSSRS1601                          |       |     | SRSSRS1602   |       |      | SRSSRS1603   |       |      | SRSSRS1604   |       |      | SRSSRS1605        |      |     |
| <b>AAUKBK</b>                | <b>105.7</b>                        | -0.5  | 0.5 | <b>117.3</b> | 0.1   | 0.5  | <b>186.3</b> | 0.1   | 0.8  | <b>154.3</b> | 0.1   | 0.6  | <b>21.3</b>       | -0.3 | 1.5 |
|                              |                                     | -9.5  | 2.1 |              | 1.9   | 3.2  |              | 4.0   | 6.1  |              | 1.6   | 4.5  |                   | -1.6 | 3.5 |
| <b>CJTVUF</b>                | <b>110.5</b>                        | -0.2  | 0.6 | <b>104.2</b> | -0.5  | 0.1  | <b>147.4</b> | -1.2  | 0.5  | <b>151.2</b> | -0.1  | 0.7  | <b>24.5</b>       | 0.3  | 1.2 |
|                              |                                     | -4.7  | 2.4 |              | -11.2 | 0.5  |              | -34.9 | 3.8  |              | -1.6  | 5.7  |                   | 1.6  | 2.9 |
| <b>PFR9KY</b>                | <b>119.9</b>                        | 0.2   | 1.5 | <b>113.5</b> | -0.1  | 0.4  | <b>178.4</b> | -0.1  | 1.6  | <b>139.4</b> | -0.5  | 0.6  | <b>16.4</b>       | -1.1 | 0.6 |
|                              |                                     | 4.7   | 6.5 |              | -1.9  | 2.2  |              | -4.0  | 11.7 |              | -13.4 | 5.0  |                   | -6.5 | 1.4 |
| <b>C8H8XB</b>                | <b>153.0</b>                        | 1.8   | 1.0 | <b>162.0</b> | 2.0   | 1.9  | <b>218.7</b> | 1.2   | 0.8  | <b>213.0</b> | 2.1   | 1.7  | <b>29.2</b>       | 1.1  | 0.3 |
|                              |                                     | 37.8  | 4.4 |              | 46.6  | 11.0 |              | 36.3  | 5.8  |              | 60.2  | 13.1 |                   | 6.3  | 0.6 |
| <b>Grand Median</b>          |                                     | 115.2 |     | 115.4        |       |      | 182.4        |       |      | 152.8        |       |      | 22.9              |      |     |
| <b>Median Abs Dev</b>        |                                     | 7.1   |     | 6.6          |       |      | 19.4         |       |      | 7.5          |       |      | 3.9               |      |     |
| <b>Avg Within Lab SD</b>     |                                     | 4.2   |     | 5.8          |       |      | 7.4          |       |      | 7.9          |       |      | 2.4               |      |     |
| <b>Labs Included</b>         |                                     | 4     |     | 4            |       |      | 4            |       |      | 4            |       |      | 4                 |      |     |
| <b>Labs Reporting</b>        |                                     | 4     |     | 4            |       |      | 4            |       |      | 4            |       |      | 4                 |      |     |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 147) | in the Bases (1:10) Property Groups |            |              |            |              |            |              |            |             |            | Data units: mg/kg |
|-------------------------------------|-------------------------------------|------------|--------------|------------|--------------|------------|--------------|------------|-------------|------------|-------------------|
|                                     | SRSSRS1601                          |            | SRSSRS1602   |            | SRSSRS1603   |            | SRSSRS1604   |            | SRSSRS1605  |            |                   |
| <b>LVRZT6</b>                       | <b>127.7</b>                        | 1.0<br>4.0 | <b>155.0</b> | 1.0<br>2.6 | <b>176.7</b> | 1.0<br>2.3 | <b>156.0</b> | 1.0<br>3.0 | <b>15.3</b> | 1.0<br>0.6 |                   |
| <b>Grand Median</b>                 | 127.7                               |            | 155.0        |            | 176.7        |            | 156.0        |            | 15.3        |            |                   |
| <b>Median Abs Dev</b>               |                                     |            |              |            |              |            |              |            |             |            |                   |
| <b>Avg Within Lab SD</b>            | 4.0                                 |            | 2.6          |            | 2.3          |            | 3.0          |            | 0.6         |            |                   |
| <b>Labs Included</b>                | 1                                   |            | 1            |            | 1            |            | 1            |            | 1           |            |                   |
| <b>Labs Reporting</b>               | 1                                   |            | 1            |            | 1            |            | 1            |            | 1           |            |                   |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 148) | in the Bases (1:10) Property Groups |              |                |             |              |             |                |             |             |            | Data units: mg/kg |
|--------------------------------------|-------------------------------------|--------------|----------------|-------------|--------------|-------------|----------------|-------------|-------------|------------|-------------------|
|                                      | SRSSRS1601                          |              | SRSSRS1602     |             | SRSSRS1603   |             | SRSSRS1604     |             | SRSSRS1605  |            |                   |
| <b>LVRZT6</b>                        | <b>8,614.0</b>                      | 1.0<br>435.2 | <b>5,114.3</b> | 1.0<br>98.6 | <b>944.3</b> | 1.0<br>17.2 | <b>1,335.3</b> | 1.0<br>34.3 | <b>83.3</b> | 1.0<br>3.5 |                   |
| <b>Grand Median</b>                  | 8,614.0                             |              | 5,114.3        |             | 944.3        |             | 1,335.3        |             | 83.3        |            |                   |
| <b>Median Abs Dev</b>                |                                     |              |                |             |              |             |                |             |             |            |                   |
| <b>Avg Within Lab SD</b>             | 435.2                               |              | 98.6           |             | 17.2         |             | 34.3           |             | 3.5         |            |                   |
| <b>Labs Included</b>                 | 1                                   |              | 1              |             | 1            |             | 1              |             | 1           |            |                   |
| <b>Labs Reporting</b>                | 1                                   |              | 1              |             | 1            |             | 1              |             | 1           |            |                   |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 149) | in the Bases (1:10) Property Groups |      |             |      |             |      |             |      |              |      | Data units: mg/kg |
|--------------------------------------|-------------------------------------|------|-------------|------|-------------|------|-------------|------|--------------|------|-------------------|
|                                      | SRSSRS1601                          |      | SRSSRS1602  |      | SRSSRS1603  |      | SRSSRS1604  |      | SRSSRS1605   |      |                   |
| <b>AAUKBK</b>                        | <b>0.23</b>                         | 1.29 | <b>0.17</b> | 1.39 | <b>0.57</b> | 1.39 | <b>0.73</b> | 1.67 | <b>14.90</b> | 1.24 |                   |
|                                      |                                     | 0.12 |             | 0.06 |             | 0.15 |             | 0.12 |              | 0.44 |                   |
| <b>83L8FJ</b>                        | <b>0.16</b>                         | 0.58 | <b>0.02</b> | 0.24 | <b>0.60</b> | 0.99 | <b>0.66</b> | 0.39 | <b>20.63</b> | 0.98 |                   |
|                                      |                                     | 0.05 |             | 0.01 |             | 0.11 |             | 0.03 |              | 0.34 |                   |
| <b>GAPFPH</b>                        |                                     |      |             |      | <b>0.66</b> | 0.30 | <b>0.65</b> | 0.28 | <b>17.36</b> | 0.71 |                   |
|                                      |                                     |      |             |      |             | 0.03 |             | 0.02 |              | 0.25 |                   |
| <b>Grand Median</b>                  |                                     | 0.20 |             | 0.09 |             | 0.60 |             | 0.66 |              | 17.4 |                   |
| <b>Median Abs Dev</b>                |                                     |      |             |      |             |      |             |      |              |      |                   |
| <b>Avg Within Lab SD</b>             |                                     | 0.09 |             | 0.04 |             | 0.11 |             | 0.07 |              | 0.4  |                   |
| <b>Labs Included</b>                 |                                     | 2    |             | 2    |             | 3    |             | 3    |              | 3    |                   |
| <b>Labs Reporting</b>                |                                     | 2    |             | 2    |             | 3    |             | 3    |              | 3    |                   |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 150) | in the Mehlich-1 Multi Element (scoop) Property Groups |      |     |             |       |     |             |      |      |             |      |     | Data units: mg/kg |      |     |
|--------------------------------|--|------|-----|-------------|-------|-----|-------------|------|------|-------------|------|-----|-------------------|------|-----|
|                                | SRSSRS1601   |      |     | SRSSRS1602  |       |     | SRSSRS1603  |      |      | SRSSRS1604  |      |     | SRSSRS1605        |      |     |
| <b>XWTMKR</b>                  | <b>13.5</b>  | 1.0  | 1.9 | <b>48.4</b> | 0.4   | 1.1 | <b>76.0</b> | -0.5 | 1.9  | <b>15.9</b> | 0.2  | 1.6 | <b>26.3</b>       | -0.5 | 1.4 |
|                                |  | 5.3  | 3.1 |             | 5.0   | 4.0 |             | -3.5 | 10.5 |             | 0.2  | 1.5 |                   | -3.0 | 3.2 |
| <b>GAPFPH</b>                  | <b>6.4</b>   | -0.3 | 0.4 | <b>38.5</b> | -0.4  | 0.1 | <b>74.2</b> | -0.8 | 0.1  | <b>15.5</b> | -0.2 | 0.7 | <b>25.2</b>       | -0.7 | 0.2 |
|                                |  | -1.8 | 0.6 |             | -5.0  | 0.4 |             | -5.3 | 0.5  |             | -0.2 | 0.7 |                   | -4.2 | 0.4 |
| <b>TNQUE3</b>                  | <b>10.0</b>  | 0.3  | 0.6 | <b>51.0</b> | 0.6   | 0.3 | <b>86.0</b> | 0.9  | 0.6  | <b>18.0</b> | 2.1  |     | <b>34.3</b>       | 0.9  | 1.3 |
|                                |  | 1.8  | 1.0 |             | 7.6   | 1.0 |             | 6.5  | 3.5  |             | 2.3  | 0.0 |                   | 5.0  | 3.1 |
| <b>PWWNK7</b>                  | <b>2.2</b>   | -1.1 | 0.2 | <b>24.3</b> | -1.4  | 1.6 | <b>83.0</b> | 0.5  | 0.3  | <b>15.5</b> | -0.2 | 0.9 | <b>32.3</b>       | 0.5  | 0.7 |
|                                |  | -6.0 | 0.3 |             | -19.1 | 5.9 |             | 3.5  | 1.7  |             | -0.2 | 0.9 |                   | 3.0  | 1.5 |
| <b>Grand Median</b>            |  | 8.20 |     |             | 43.4  |     |             | 79.5 |      |             | 15.7 |     |                   | 29.3 |     |
| <b>Median Abs Dev</b>          |  | 3.56 |     |             | 6.3   |     |             | 4.4  |      |             | 0.2  |     |                   | 3.6  |     |
| <b>Avg Within Lab SD</b>       |  | 1.66 |     |             | 3.6   |     |             | 5.6  |      |             | 0.9  |     |                   | 2.3  |     |
| <b>Labs Included</b>           |  | 4    |     |             | 4     |     |             | 4    |      |             | 4    |     |                   | 4    |     |
| <b>Labs Reporting</b>          |  | 4    |     |             | 4     |     |             | 4    |      |             | 4    |     |                   | 4    |     |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 151) | in the Mehlich-1 Multi Element (scoop) Property Groups |      |     |             |       |      |              |      |      |              |      |      | Data units: mg/kg |      |     |
|--------------------------------|--|------|-----|-------------|-------|------|--------------|------|------|--------------|------|------|-------------------|------|-----|
|                                | SRSSRS1601   |      |     | SRSSRS1602  |       |      | SRSSRS1603   |      |      | SRSSRS1604   |      |      | SRSSRS1605        |      |     |
| <b>XWTMKR</b>                  | <b>55.0</b>  | 0.6  | 1.2 | <b>53.6</b> | -1.4  | 2.0  | <b>111.0</b> | -0.7 | 1.8  | <b>97.9</b>  | -0.4 | 1.9  | <b>17.3</b>       | 0.6  | 1.9 |
|                                |  | 2.0  | 2.7 |             | -16.7 | 36.6 |              | -6.4 | 12.2 |              | -2.2 | 10.4 |                   | 0.8  | 2.3 |
| <b>GAPFPH</b>                  | <b>54.3</b>  | 0.4  | 0.5 | <b>81.2</b> | 0.9   | 0.1  | <b>127.4</b> | 1.1  | 0.4  | <b>101.8</b> | 0.4  | 0.4  | <b>17.2</b>       | 0.5  | 0.1 |
|                                |  | 1.3  | 1.2 |             | 10.8  | 1.0  |              | 9.9  | 3.0  |              | 1.7  | 2.3  |                   | 0.6  | 0.1 |
| <b>TNQUE3</b>                  | <b>51.7</b>  | -0.4 | 0.3 | <b>72.7</b> | 0.2   | 0.1  | <b>113.0</b> | -0.5 | 0.7  | <b>98.3</b>  | -0.4 | 0.4  | <b>16.0</b>       | -0.5 |     |
|                                |  | -1.3 | 0.6 |             | 2.3   | 1.2  |              | -4.4 | 5.0  |              | -1.7 | 2.1  |                   | -0.6 | 0.0 |
| <b>PWWNK7</b>                  | <b>48.0</b>  | -1.4 | 1.5 | <b>68.0</b> | -0.2  | 0.1  | <b>121.8</b> | 0.5  | 0.4  | <b>107.5</b> | 1.5  | 0.3  | <b>15.3</b>       | -1.1 | 0.5 |
|                                |  | -5.0 | 3.5 |             | -2.3  | 2.0  |              | 4.4  | 3.0  |              | 7.4  | 1.5  |                   | -1.3 | 0.6 |
| <b>Grand Median</b>            |  | 53.0 |     | 70.3        |       |      | 117.4        |      |      | 100.1        |      |      | 16.6              |      |     |
| <b>Median Abs Dev</b>          |  | 1.7  |     | 6.6         |       |      | 5.4          |      |      | 2.0          |      |      | 0.7               |      |     |
| <b>Avg Within Lab SD</b>       |  | 2.3  |     | 18.4        |       |      | 6.9          |      |      | 5.5          |      |      | 1.2               |      |     |
| <b>Labs Included</b>           |  | 4    |     | 4           |       |      | 4            |      |      | 4            |      |      | 4                 |      |     |
| <b>Labs Reporting</b>          |  | 4    |     | 4           |       |      | 4            |      |      | 4            |      |      | 4                 |      |     |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 152) | in the Mehlich-1 Multi Element (scoop) Property Groups |         |       |                |        |         |                |         |       |                |        |       | Data units: mg/kg |       |      |
|---------------------------------|--|---------|-------|----------------|--------|---------|----------------|---------|-------|----------------|--------|-------|-------------------|-------|------|
|                                 | SRSSRS1601   |         |       | SRSSRS1602     |        |         | SRSSRS1603     |         |       | SRSSRS1604     |        |       | SRSSRS1605        |       |      |
| <b>XWTMKR</b>                   | <b>4,439.8</b>   | -0.6    | 2.0   | <b>3,462.1</b> | -1.2   | 2.0     | <b>919.2</b>   | -1.6    | 1.9   | <b>915.4</b>   | -1.8   | 1.9   | <b>174.7</b>      | 0.6   | 2.0  |
|                                 |  | -335.8  | 672.2 |                | -559.4 | 589.6   |                | -126.0  | 127.9 |                | -108.5 | 151.5 |                   | 14.5  | 54.1 |
| <b>GAPFPH</b>                   | <b>5,111.4</b>   | 0.6     | 0.1   | <b>4,362.1</b> | 0.7    | 0.1     | <b>1,107.9</b> | 0.8     | 0.3   | <b>1,007.8</b> | -0.3   | 0.3   | <b>143.6</b>      | -0.7  | 0.1  |
|                                 |  | 335.8   | 21.3  |                | 340.6  | 39.7    |                | 62.8    | 23.5  |                | -16.1  | 26.3  |                   | -16.6 | 1.6  |
| <b>TNQUE3</b>                   | <b>5,129.7</b>   | 0.6     | 0.2   | <b>4,223.0</b> | 0.4    | 0.1     | <b>1,033.7</b> | -0.1    | 0.5   | <b>1,047.3</b> | 0.4    | 0.5   | <b>181.3</b>      | 0.9   | 0.1  |
|                                 |  | 354.1   | 54.0  |                | 201.5  | 41.2    |                | -11.5   | 36.8  |                | 23.4   | 41.4  |                   | 21.2  | 1.5  |
| <b>PWWNK7</b>                   | <b>4,229.0</b>   | -0.9    | 0.0   | <b>3,820.0</b> | -0.4   | 0.0     | <b>1,056.7</b> | 0.1     | 0.1   | <b>1,040.0</b> | 0.3    | 0.0   | <b>145.7</b>      | -0.6  | 0.1  |
|                                 |  | -546.6  | 8.5   |                | -201.5 | 10.5    |                | 11.5    | 5.5   |                | 16.1   | 3.6   |                   | -14.5 | 4.0  |
| <b>Grand Median</b>             |  | 4,775.6 |       | 4,021.5        |        | 1,045.2 |                | 1,023.9 |       | 160.2          |        |       |                   |       |      |
| <b>Median Abs Dev</b>           |  | 344.9   |       | 271.0          |        | 37.1    |                | 19.8    |       | 15.5           |        |       |                   |       |      |
| <b>Avg Within Lab SD</b>        |  | 337.4   |       | 296.2          |        | 67.6    |                | 79.6    |       | 27.1           |        |       |                   |       |      |
| <b>Labs Included</b>            |  | 4       |       | 4              |        | 4       |                | 4       |       | 4              |        |       |                   |       |      |
| <b>Labs Reporting</b>           |  | 4       |       | 4              |        | 4       |                | 4       |       | 4              |        |       |                   |       |      |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 153) |              | in the Mehlich-1 Multi Element (scoop) Property Groups |              |               |             |             |              |              |             |             |  | Data units: mg/kg |  |  |
|---------------------------------|--------------|--|--------------|---------------|-------------|-------------|--------------|--------------|-------------|-------------|--|-------------------|--|--|
|                                 | SRSSRS1601   | SRSSRS1602   | SRSSRS1603   | SRSSRS1604    | SRSSRS1605  |             |              |              |             |             |  |                   |  |  |
| <b>XWTMKR</b>                   | <b>398.0</b> | -0.1<br>1.9  | <b>335.4</b> | -1.3<br>1.3   | <b>69.4</b> | -1.5<br>1.6 | <b>231.1</b> | -0.5<br>1.9  | <b>20.4</b> | 0.3<br>2.0  |  |                   |  |  |
|                                 |              | -4.0<br>29.5   |              | -37.5<br>44.9 |             | -7.5<br>5.8 |              | -5.0<br>26.7 |             | 0.9<br>5.1  |  |                   |  |  |
| <b>GAPFPH</b>                   | <b>406.0</b> | 0.1<br>0.1   | <b>376.2</b> | 0.1<br>0.4    | <b>77.4</b> | 0.1<br>0.2  | <b>231.8</b> | -0.5<br>0.4  | <b>16.7</b> | -1.0<br>0.1 |  |                   |  |  |
|                                 |              | 4.0<br>1.8   |              | 3.3<br>12.6   |             | 0.5<br>0.7  |              | -4.2<br>5.7  |             | -2.8<br>0.3 |  |                   |  |  |
| <b>TNQUE3</b>                   | <b>425.7</b> | 0.9<br>0.6   | <b>369.7</b> | -0.1<br>0.5   | <b>76.3</b> | -0.1<br>1.1 | <b>240.3</b> | 0.5<br>0.5   | <b>22.7</b> | 1.1<br>0.2  |  |                   |  |  |
|                                 |              | 23.7<br>9.3  |              | -3.3<br>18.0  |             | -0.5<br>4.0 |              | 4.2<br>6.4   |             | 3.1<br>0.6  |  |                   |  |  |
| <b>PWWNK7</b>                   | <b>361.0</b> | -1.5<br>0.1  | <b>409.3</b> | 1.2<br>1.3    | <b>81.5</b> | 0.9<br>0.6  | <b>248.0</b> | 1.3<br>0.1   | <b>18.7</b> | -0.3<br>0.1 |  |                   |  |  |
|                                 |              | -41.0<br>1.7   |              | 36.4<br>44.1  |             | 4.6<br>2.3  |              | 11.9<br>2.0  |             | -0.9<br>0.3 |  |                   |  |  |
| <b>Grand Median</b>             |              | 402.0  |              | 372.9         |             | 76.9        |              | 236.1        |             | 19.5        |  |                   |  |  |
| <b>Median Abs Dev</b>           |              | 13.8   |              | 19.8          |             | 2.6         |              | 4.6          |             | 1.8         |  |                   |  |  |
| <b>Avg Within Lab SD</b>        |              | 15.5   |              | 33.3          |             | 3.7         |              | 14.1         |             | 2.6         |  |                   |  |  |
| <b>Labs Included</b>            |              | 4  |              | 4             |             | 4           |              | 4            |             | 4           |  |                   |  |  |
| <b>Labs Reporting</b>           |              | 4  |              | 4             |             | 4           |              | 4            |             | 4           |  |                   |  |  |





## ALP Program - Participant Web Summary Report - Cycle 29

| 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 154) | in the Mehlich-1 Multi Element (scoop) Property Groups |      |     |             |      |     |             |      |     |             |      |     | Data units: mg/kg |      |     |
|---------------------------------|--|------|-----|-------------|------|-----|-------------|------|-----|-------------|------|-----|-------------------|------|-----|
|                                 | SRSSRS1601   |      |     | SRSSRS1602  |      |     | SRSSRS1603  |      |     | SRSSRS1604  |      |     | SRSSRS1605        |      |     |
| <b>XWTMKR</b>                   | <b>3.7</b>   | 1.1  | 1.8 | <b>18.5</b> | 0.3  | 1.6 | <b>8.7</b>  | -0.6 | 1.5 | <b>13.5</b> | 0.4  | 2.0 | <b>10.6</b>       | 1.1  | 1.9 |
|                                 |  | 1.4  | 0.8 |             | 0.5  | 1.6 |             | -1.6 | 1.1 |             | 0.8  | 2.0 |                   | 0.7  | 0.6 |
| <b>GAPFPH</b>                   | <b>2.1</b>   | -0.2 | 0.0 | <b>17.4</b> | -0.3 | 0.3 | <b>8.9</b>  | -0.6 | 0.1 | <b>10.8</b> | -0.9 | 0.1 | <b>9.2</b>        | -1.3 | 0.1 |
|                                 |  | -0.2 | 0.0 |             | -0.5 | 0.3 |             | -1.5 | 0.1 |             | -1.9 | 0.1 |                   | -0.7 | 0.0 |
| <b>TNQUE3</b>                   | <b>2.5</b>   | 0.2  | 0.5 | <b>20.4</b> | 1.2  | 1.0 | <b>11.8</b> | 0.6  | 0.6 | <b>11.9</b> | -0.4 | 0.2 | <b>9.8</b>        | -0.2 | 0.6 |
|                                 |  | 0.2  | 0.2 |             | 2.5  | 1.0 |             | 1.5  | 0.4 |             | -0.8 | 0.2 |                   | -0.1 | 0.2 |
| <b>PWWNK7</b>                   | <b>0.8</b>   | -1.2 | 0.8 | <b>16.0</b> | -0.9 | 0.5 | <b>13.0</b> | 1.0  | 1.2 | <b>14.7</b> | 1.0  | 0.3 | <b>10.0</b>       | 0.2  |     |
|                                 |  | -1.5 | 0.4 |             | -1.9 | 0.5 |             | 2.6  | 0.9 |             | 2.0  | 0.3 |                   | 0.1  | 0.0 |
| <b>Grand Median</b>             |  | 2.29 |     |             | 17.9 |     |             | 10.4 |     |             | 12.7 |     |                   | 9.90 |     |
| <b>Median Abs Dev</b>           |  | 0.81 |     |             | 1.2  |     |             | 1.6  |     |             | 1.4  |     |                   | 0.38 |     |
| <b>Avg Within Lab SD</b>        |  | 0.46 |     |             | 1.0  |     |             | 0.7  |     |             | 1.0  |     |                   | 0.31 |     |
| <b>Labs Included</b>            |  | 4    |     |             | 4    |     |             | 4    |     |             | 4    |     |                   | 4    |     |
| <b>Labs Reporting</b>           |  | 4    |     |             | 4    |     |             | 4    |     |             | 4    |     |                   | 4    |     |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 155) |             | in the Mehlich-1 Multi Element (scoop) Property Groups |             |       |            |             |       |            |             |       |            | Data units: mg/kg |       |      |
|---------------------------------|-------------|--|-------------|-------|------------|-------------|-------|------------|-------------|-------|------------|-------------------|-------|------|
|                                 | SRSSRS1601  | SRSSRS1602   |             |       | SRSSRS1603 |             |       | SRSSRS1604 |             |       | SRSSRS1605 |                   |       |      |
| <b>XWTMKR</b>                   | <b>0.28</b> | 1.22   | <b>2.79</b> | 0.15  | 1.46       | <b>7.95</b> | -1.61 | 1.79       | <b>1.32</b> | -0.73 | 1.80       | <b>0.83</b>       | -0.50 | 1.46 |
|                                 |             | 0.10   |             | 0.06  | 0.22       |             | -0.85 | 0.90       |             | -0.08 | 0.15       |                   | -0.04 | 0.07 |
| <b>GAPFPH</b>                   |             |  | <b>2.66</b> | -0.15 | 0.62       | <b>8.79</b> | -0.01 | 0.65       | <b>1.33</b> | -0.66 | 0.37       | <b>0.78</b>       | -1.01 | 0.22 |
|                                 |             | 0.71   |             | -0.06 | 0.09       |             | 0.00  | 0.33       |             | -0.07 | 0.03       |                   | -0.09 | 0.01 |
| <b>TNQUE3</b>                   | <b>0.23</b> | 0.06   | <b>2.83</b> | 0.25  | 0.38       | <b>8.80</b> | 0.01  | 0.60       | <b>1.47</b> | 0.66  | 0.71       | <b>0.93</b>       | 0.69  | 1.21 |
|                                 |             |  |             | 0.11  | 0.06       |             | 0.00  | 0.30       |             | 0.07  | 0.06       |                   | 0.06  | 0.06 |
| <b>PWWNK7</b>                   |             |  | <b>1.82</b> | -2.15 | 1.16       | <b>9.37</b> | 1.08  | 0.11       | <b>1.47</b> | 0.66  | 0.35       | <b>0.92</b>       | 0.50  | 0.60 |
|                                 |             |  |             | -0.91 | 0.18       |             | 0.57  | 0.06       |             | 0.07  | 0.03       |                   | 0.04  | 0.03 |
| <b>Grand Median</b>             |             | 0.26   |             | 2.73  |            | 8.80        |       |            | 1.40        |       |            |                   | 0.87  |      |
| <b>Median Abs Dev</b>           |             |  |             | 0.09  |            | 0.29        |       |            | 0.07        |       |            |                   | 0.05  |      |
| <b>Avg Within Lab SD</b>        |             | 0.08   |             | 0.15  |            | 0.50        |       |            | 0.08        |       |            |                   | 0.05  |      |
| <b>Labs Included</b>            |             | 2  |             | 4     |            | 4           |       |            | 4           |       |            |                   | 4     |      |
| <b>Labs Reporting</b>           |             | 2  |             | 4     |            | 4           |       |            | 4           |       |            |                   | 4     |      |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 156) |             |       | in the Mehlich-3 Multi-Element Property Groups |             |       |            |             |       |            |             |       |            | Data units: g/cm3 |       |      |
|--|-------------|-------|--|-------------|-------|------------|-------------|-------|------------|-------------|-------|------------|-------------------|-------|------|
|  | SRSSRS1601  |       | SRSSRS1602                                     |             |       | SRSSRS1603 |             |       | SRSSRS1604 |             |       | SRSSRS1605 |                   |       |      |
| <b>HRQGNA</b>                              | <b>0.97</b> | -0.55 | 0.40   | <b>0.87</b> | -0.35 | 0.57       | <b>0.80</b> | -0.45 | 0.09       | <b>0.91</b> | -0.66 | 0.20       | <b>1.25</b>       | -0.34 | 0.53 |
|  |             | -0.19 | 0.01   |             | -0.11 | 0.01       |             | -0.17 | 0.00       |             | -0.23 | 0.01       |                   | -0.17 | 0.01 |
| <b>6BMKMN</b>                              | <b>2.02</b> | 2.58  | 1.22   | <b>1.80</b> | 2.57  | 1.00       | <b>1.82</b> | 2.28  | 1.11       | <b>2.06</b> | 2.69  | 0.20       | <b>2.75</b>       | 2.78  | 1.99 |
|  |             | 0.87  | 0.02   |             | 0.82  | 0.02       |             | 0.85  | 0.03       |             | 0.92  | 0.00       |                   | 1.34  | 0.04 |
| <b>XWTMKR</b>                              | <b>1.13</b> | -0.06 | 1.30   | <b>0.93</b> | -0.16 | 1.54       | <b>0.90</b> | -0.18 | 0.62       | <b>1.05</b> | -0.26 | 0.23       | <b>1.33</b>       | -0.17 | 0.92 |
|  |             | -0.02 | 0.03   |             | -0.05 | 0.03       |             | -0.07 | 0.02       |             | -0.09 | 0.01       |                   | -0.08 | 0.02 |
| <b>RMZ998</b>                              | <b>1.10</b> | -0.16 | 2.37   | <b>0.92</b> | -0.19 | 1.87       | <b>0.90</b> | -0.18 | 2.62       | <b>1.10</b> | -0.11 | 2.44       | <b>1.51</b>       | 0.20  | 1.62 |
|  |             | -0.05 | 0.05   |             | -0.06 | 0.04       |             | -0.07 | 0.08       |             | -0.04 | 0.06       |                   | 0.10  | 0.03 |
| <b>T9EFX6</b>                              | <b>1.40</b> | 0.73  |  | <b>1.24</b> | 0.80  |            | <b>1.29</b> | 0.86  |            | <b>1.28</b> | 0.42  |            | <b>1.69</b>       | 0.58  |      |
|  |             | 0.25  | 0.00   |             | 0.26  | 0.00       |             | 0.32  | 0.00       |             | 0.14  | 0.00       |                   | 0.28  | 0.00 |
| <b>R9KB47</b>                              | <b>1.18</b> | 0.08  | 0.00   | <b>1.18</b> | 0.61  | 0.00       | <b>1.18</b> | 0.57  | 0.00       | <b>1.18</b> | 0.13  | 0.00       | <b>1.18</b>       | -0.48 | 0.00 |
|  |             | 0.03  | 0.00   |             | 0.20  | 0.00       |             | 0.21  | 0.00       |             | 0.04  | 0.00       |                   | -0.23 | 0.00 |
| <b>LZMPAC</b>                              | <b>1.20</b> | 0.13  | 0.26   | <b>1.02</b> | 0.12  | 0.27       | <b>1.00</b> | 0.08  | 0.96       | <b>1.15</b> | 0.05  | 0.78       | <b>1.50</b>       | 0.18  | 0.19 |
|  |             | 0.04  | 0.01   |             | 0.04  | 0.01       |             | 0.03  | 0.03       |             | 0.02  | 0.02       |                   | 0.09  | 0.00 |
| <b>79D4JP</b>                              | <b>0.97</b> | -0.55 | 0.15   | <b>0.84</b> | -0.47 | 0.67       | <b>0.75</b> | -0.57 | 0.88       | <b>0.91</b> | -0.66 | 0.80       | <b>1.24</b>       | -0.36 | 1.06 |
|  |             | -0.19 | 0.00   |             | -0.15 | 0.02       |             | -0.21 | 0.03       |             | -0.23 | 0.02       |                   | -0.18 | 0.02 |
| <b>CPEWRJ</b>                              | <b>2.00</b> | 2.52  | 1.66   | <b>1.73</b> | 2.33  | 1.44       | <b>1.79</b> | 2.20  | 1.15       | <b>1.97</b> | 2.42  | 2.12       | <b>2.61</b>       | 2.49  | 1.53 |
|  |             | 0.85  | 0.03   |             | 0.74  | 0.03       |             | 0.82  | 0.04       |             | 0.83  | 0.05       |                   | 1.20  | 0.03 |
| <b>XHNEVW</b>                              | <b>1.17</b> | 0.06  | 0.30   | <b>1.00</b> | 0.06  | 1.10       | <b>1.04</b> | 0.19  | 0.69       | <b>1.16</b> | 0.08  | 0.08       | <b>1.47</b>       | 0.12  | 0.80 |
|  |             | 0.02  | 0.01   |             | 0.02  | 0.02       |             | 0.07  | 0.02       |             | 0.03  | 0.00       |                   | 0.06  | 0.02 |
| <b>YPJVKT</b>                              | <b>1.11</b> | -0.14 | 0.30   | <b>0.97</b> | -0.06 | 0.98       | <b>0.94</b> | -0.08 | 0.05       | <b>1.12</b> | -0.05 | 0.00       | <b>1.35</b>       | -0.12 | 0.31 |
|  |             | -0.05 | 0.01   |             | -0.02 | 0.02       |             | -0.03 | 0.00       |             | -0.02 | 0.00       |                   | -0.06 | 0.01 |
| <b>DURWNB</b>                              | <b>0.97</b> | -0.54 | 0.03   | <b>0.86</b> | -0.39 | 0.19       | <b>0.81</b> | -0.43 | 0.04       | <b>0.94</b> | -0.58 | 0.42       | <b>1.28</b>       | -0.26 | 0.30 |
|  |             | -0.18 | 0.00   |             | -0.12 | 0.00       |             | -0.16 | 0.00       |             | -0.20 | 0.01       |                   | -0.13 | 0.01 |
| <b>Grand Median</b>                        |             | 1.15  |  | 0.98        |       |            | 0.97        |       |            | 1.14        |       |            | 1.41              |       |      |
| <b>Median Abs Dev</b>                      |             | 0.12  |  | 0.12        |       |            | 0.17        |       |            | 0.12        |       |            | 0.15              |       |      |
| <b>Avg Within Lab SD</b>                   |             | 0.02  |  | 0.02        |       |            | 0.03        |       |            | 0.02        |       |            | 0.02              |       |      |
| <b>Labs Included</b>                       |             | 12    |  | 12          |       |            | 12          |       |            | 12          |       |            | 12                |       |      |
| <b>Labs Reporting</b>                      |             | 12    |  | 12          |       |            | 12          |       |            | 12          |       |            | 12                |       |      |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 157) | in the Mehlich-3 Multi-Element Property Groups |      |     |             |      |     |              |        |     |             |      |     | Data units: mg/kg |       |     |
|---|--|------|-----|-------------|------|-----|--------------|--------|-----|-------------|------|-----|-------------------|-------|-----|
|   | SRSSRS1601                                     |      |     | SRSSRS1602  |      |     | SRSSRS1603   |        |     | SRSSRS1604  |      |     | SRSSRS1605        |       |     |
| <b>83L8FJ</b>                               | <b>25.1</b>                                    | 0.3  | 0.5 | <b>37.1</b> | 1.0  | 0.5 | <b>186.7</b> | -0.1   | 0.7 | <b>31.7</b> | 0.1  | 0.2 | <b>89.4</b>       | 1.9   | 0.4 |
|   |  | 1.1  | 0.4 |             | 3.8  | 0.4 |              | -3.2   | 2.1 |             | 0.2  | 0.2 |                   | 21.8  | 0.9 |
| <b>6BMKMN</b>                               | <b>28.3</b>                                    | 1.1  | 0.7 | <b>36.3</b> | 0.9  | 1.5 | <b>179.7</b> | -0.3   | 1.1 | <b>31.0</b> | -0.2 | 1.3 | <b>74.0</b>       | 0.6   | 0.4 |
|   |  | 4.2  | 0.6 |             | 3.1  | 1.2 |              | -10.2  | 3.5 |             | -0.5 | 1.0 |                   | 6.4   | 1.0 |
| <b>6VACMK</b>                               | <b>22.3</b>                                    | -0.5 | 0.7 | <b>34.3</b> | 0.3  | 1.5 | <b>193.0</b> | 0.1    | 0.5 | <b>32.0</b> | 0.2  | 1.3 | <b>72.3</b>       | 0.4   | 0.2 |
|   |  | -1.7 | 0.6 |             | 1.1  | 1.2 |              | 3.2    | 1.7 |             | 0.5  | 1.0 |                   | 4.8   | 0.6 |
| <b>R9KB47</b>                               | <b>20.7</b>                                    | -0.9 | 0.7 | <b>29.3</b> | -1.1 | 0.8 | <b>183.3</b> | -0.2   | 1.8 | <b>31.3</b> | -0.1 | 1.4 | <b>63.3</b>       | -0.4  | 2.4 |
|   |  | -3.4 | 0.6 |             | -3.9 | 0.6 |              | -6.5   | 5.8 |             | -0.2 | 1.2 |                   | -4.3  | 5.8 |
| <b>YPKQ4Y</b>                               | <b>23.0</b>                                    | -0.3 |     | <b>31.0</b> | -0.6 |     | <b>65.0</b>  | -3.4   |     | <b>32.0</b> | 0.2  |     | <b>56.0</b>       | -1.0  |     |
|   |  | -1.1 | 0.0 |             | -2.3 | 0.0 |              | -124.8 | 0.0 |             | 0.5  | 0.0 |                   | -11.6 | 0.0 |
| <b>A9GXQK</b>                               | <b>20.8</b>                                    | -0.8 | 0.9 | <b>28.3</b> | -1.4 | 0.8 | <b>193.0</b> | 0.1    |     | <b>27.8</b> | -1.5 | 0.4 | <b>57.5</b>       | -0.9  | 1.0 |
|   |  | -3.2 | 0.8 |             | -4.9 | 0.6 |              | 3.2    | 0.0 |             | -3.7 | 0.3 |                   | -10.1 | 2.5 |
| <b>8CMGZN</b>                               | <b>25.7</b>                                    | 0.4  | 0.3 | <b>33.5</b> | 0.1  | 0.7 | <b>207.7</b> | 0.5    | 0.8 | <b>28.3</b> | -1.3 | 0.7 | <b>69.5</b>       | 0.2   | 0.2 |
|   |  | 1.6  | 0.3 |             | 0.3  | 0.5 |              | 17.8   | 2.5 |             | -3.2 | 0.6 |                   | 1.9   | 0.5 |
| <b>VBVLAX</b>                               | <b>28.3</b>                                    | 1.1  | 2.4 | <b>33.0</b> | -0.1 | 1.3 | <b>216.3</b> | 0.7    | 1.5 | <b>35.7</b> | 1.7  | 1.4 | <b>65.7</b>       | -0.2  | 0.9 |
|   |  | 4.3  | 2.1 |             | -0.3 | 1.0 |              | 26.5   | 4.7 |             | 4.1  | 1.2 |                   | -1.9  | 2.1 |
| <b>Grand Median</b>                         |  | 24.1 |     | 33.3        |      |     | 189.8        |        |     | 31.5        |      |     | 67.6              |       |     |
| <b>Median Abs Dev</b>                       |  | 2.5  |     | 2.7         |      |     | 8.3          |        |     | 0.5         |      |     | 5.6               |       |     |
| <b>Avg Within Lab SD</b>                    |  | 0.9  |     | 0.8         |      |     | 3.2          |        |     | 0.8         |      |     | 2.4               |       |     |
| <b>Labs Included</b>                        |  | 8    |     | 8           |      |     | 8            |        |     | 8           |      |     | 8                 |       |     |
| <b>Labs Reporting</b>                       |  | 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 |         |         |

| Mehlich-3, P ICP-AES (SubTestCode 158) | in the Mehlich-3 Multi-Element Property Groups |      |     |             |      |     |              |       |     |             |      |     |             |       |     | Data units: mg/kg |
|--|--|------|-----|-------------|------|-----|--------------|-------|-----|-------------|------|-----|-------------|-------|-----|-------------------|
|  | SRSSRS1601                                     |      |     | SRSSRS1602  |      |     | SRSSRS1603   |       |     | SRSSRS1604  |      |     | SRSSRS1605  |       |     |                   |
| <b>YAA32W</b>                          | <b>20.0</b>                                    | -1.3 | 0.5 | <b>28.8</b> | -1.5 | 0.2 | <b>214.8</b> | 0.3   | 0.2 | <b>25.0</b> | -1.4 | 0.5 | <b>91.7</b> | 0.0   | 0.3 |                   |
|  |  | -5.7 | 0.5 |             | -7.8 | 0.3 |              | 7.8   | 0.8 |             | -5.3 | 0.5 |             | -0.3  | 0.8 |                   |
| <b>HRQGNA</b>                          | <b>25.7</b>                                    | 0.0  | 1.0 | <b>36.6</b> | 0.0  | 0.9 | <b>220.0</b> | 0.5   | 1.7 | <b>28.8</b> | -0.4 | 0.9 | <b>91.9</b> | 0.0   | 0.2 |                   |
|  |  | 0.0  | 1.0 |             | 0.0  | 1.0 |              | 13.0  | 7.6 |             | -1.5 | 0.9 |             | 0.0   | 0.7 |                   |
| <b>P9QWN3</b>                          | <b>32.8</b>                                    | 1.6  | 0.9 | <b>42.9</b> | 1.2  | 0.8 | <b>213.9</b> | 0.3   | 0.3 | <b>33.2</b> | 0.8  | 0.6 | <b>97.5</b> | 0.5   | 0.2 |                   |
|  |  | 7.1  | 0.9 |             | 6.3  | 0.9 |              | 6.9   | 1.4 |             | 2.9  | 0.6 |             | 5.6   | 0.7 |                   |
| <b>GBLMGA</b>                          | <b>26.7</b>                                    | 0.2  | 0.6 | <b>40.0</b> | 0.6  |     | <b>269.7</b> | 2.4   | 1.0 | <b>33.0</b> | 0.7  | 1.0 | <b>89.7</b> | -0.2  | 0.7 |                   |
|  |  | 0.9  | 0.6 |             | 3.4  | 0.0 |              | 62.7  | 4.6 |             | 2.7  | 1.0 |             | -2.3  | 2.1 |                   |
| <b>2GK3BP</b>                          | <b>25.4</b>                                    | -0.1 | 1.4 | <b>37.4</b> | 0.1  | 0.7 | <b>212.2</b> | 0.2   | 0.8 | <b>31.8</b> | 0.4  | 0.6 | <b>97.2</b> | 0.5   | 0.6 |                   |
|  |  | -0.4 | 1.4 |             | 0.8  | 0.9 |              | 5.2   | 3.5 |             | 1.4  | 0.6 |             | 5.3   | 1.9 |                   |
| <b>37H3CQ</b>                          | <b>31.8</b>                                    | 1.3  | 0.9 | <b>41.9</b> | 1.0  | 1.3 | <b>215.7</b> | 0.3   | 0.9 | <b>38.4</b> | 2.2  | 1.6 | <b>97.6</b> | 0.5   | 1.3 |                   |
|  |  | 6.0  | 0.9 |             | 5.3  | 1.6 |              | 8.7   | 3.9 |             | 8.0  | 1.6 |             | 5.7   | 3.9 |                   |
| <b>LM4ZL8</b>                          | <b>29.3</b>                                    | 0.8  | 1.6 | <b>42.3</b> | 1.1  | 1.3 | <b>201.7</b> | -0.2  | 0.7 | <b>32.0</b> | 0.4  | 2.0 | <b>84.7</b> | -0.6  | 1.2 |                   |
|  |  | 3.6  | 1.5 |             | 5.7  | 1.5 |              | -5.3  | 3.1 |             | 1.7  | 2.0 |             | -7.3  | 3.5 |                   |
| <b>F92H9C</b>                          | <b>24.0</b>                                    | -0.4 | 2.3 | <b>33.7</b> | -0.6 | 1.0 | <b>192.9</b> | -0.5  | 0.7 | <b>27.5</b> | -0.7 | 0.6 | <b>82.5</b> | -0.8  | 0.6 |                   |
|  |  | -1.7 | 2.2 |             | -3.0 | 1.1 |              | -14.1 | 3.3 |             | -2.8 | 0.6 |             | -9.4  | 1.8 |                   |
| <b>XWTMKR</b>                          | <b>26.5</b>                                    | 0.2  | 0.2 | <b>35.6</b> | -0.2 | 0.5 | <b>179.3</b> | -1.0  | 0.1 | <b>30.8</b> | 0.1  | 0.2 | <b>94.0</b> | 0.2   | 0.2 |                   |
|  |  | 0.8  | 0.2 |             | -1.0 | 0.6 |              | -27.7 | 0.3 |             | 0.4  | 0.1 |             | 2.1   | 0.7 |                   |
| <b>DFA3JC</b>                          | <b>24.0</b>                                    | -0.4 |     | <b>35.7</b> | -0.2 | 0.5 | <b>194.7</b> | -0.5  | 0.3 | <b>30.3</b> | 0.0  | 0.6 | <b>94.3</b> | 0.2   | 0.2 |                   |
|  |  | -1.7 | 0.0 |             | -1.0 | 0.6 |              | -12.3 | 1.5 |             | 0.0  | 0.6 |             | 2.4   | 0.6 |                   |
| <b>YKBCLZ</b>                          | <b>21.9</b>                                    | -0.9 | 0.3 | <b>32.5</b> | -0.8 | 0.3 | <b>171.7</b> | -1.3  | 0.4 | <b>29.3</b> | -0.3 | 0.6 | <b>92.4</b> | 0.0   | 0.5 |                   |
|  |  | -3.9 | 0.3 |             | -4.2 | 0.4 |              | -35.3 | 1.7 |             | -1.0 | 0.6 |             | 0.5   | 1.4 |                   |
| <b>RMZ998</b>                          | <b>29.7</b>                                    | 0.9  | 1.6 | <b>40.0</b> | 0.6  | 1.5 | <b>205.7</b> | -0.1  | 0.8 | <b>36.3</b> | 1.6  | 0.6 | <b>72.3</b> | -1.7  | 2.0 |                   |
|  |  | 3.9  | 1.5 |             | 3.4  | 1.7 |              | -1.3  | 3.5 |             | 6.0  | 0.6 |             | -19.6 | 6.0 |                   |
| <b>T9EFX6</b>                          | <b>20.0</b>                                    | -1.3 | 1.8 | <b>35.0</b> | -0.3 | 3.0 | <b>139.7</b> | -2.5  | 0.6 | <b>24.7</b> | -1.5 | 1.2 | <b>60.0</b> | -2.8  | 0.7 |                   |
|  |  | -5.7 | 1.7 |             | -1.6 | 3.5 |              | -67.3 | 2.9 |             | -5.7 | 1.2 |             | -31.9 | 2.0 |                   |
| <b>LZMPAC</b>                          | <b>24.0</b>                                    | -0.4 | 0.3 | <b>36.5</b> | 0.0  | 0.4 | <b>208.7</b> | 0.1   | 0.3 | <b>32.2</b> | 0.5  | 0.1 | <b>92.5</b> | 0.1   | 0.4 |                   |
|  |  | -1.7 | 0.3 |             | -0.1 | 0.5 |              | 1.7   | 1.5 |             | 1.9  | 0.1 |             | 0.6   | 1.1 |                   |
| <b>738BNU</b>                          | <b>33.1</b>                                    | 1.6  | 0.2 | <b>43.8</b> | 1.3  | 0.7 | <b>199.3</b> | -0.3  | 0.7 | <b>36.8</b> | 1.7  | 0.1 | <b>99.2</b> | 0.6   | 0.4 |                   |
|  |  | 7.3  | 0.2 |             | 7.1  | 0.8 |              | -7.7  | 3.3 |             | 6.4  | 0.1 |             | 7.2   | 1.3 |                   |
| <b>L2J8CD</b>                          | <b>24.3</b>                                    | -0.3 | 0.4 | <b>33.9</b> | -0.5 | 0.3 | <b>207.0</b> | 0.0   | 0.6 | <b>29.8</b> | -0.1 | 0.7 | <b>94.4</b> | 0.2   | 0.1 |                   |
|  |  | -1.4 | 0.4 |             | -2.7 | 0.3 |              | 0.0   | 2.6 |             | -0.5 | 0.7 |             | 2.5   | 0.3 |                   |
| <b>CJDKVM</b>                          | <b>26.2</b>                                    | 0.1  | 1.8 | <b>35.5</b> | -0.2 | 0.0 | <b>208.3</b> | 0.1   | 0.1 | <b>28.9</b> | -0.4 | 0.1 | <b>83.5</b> | -0.7  |     |                   |
|  |  | 0.4  | 1.7 |             | -1.1 | 0.1 |              | 1.3   | 0.6 |             | -1.5 | 0.1 |             | -8.4  | 0.0 |                   |
| <b>79D4JP</b>                          | <b>20.1</b>                                    | -1.3 | 1.4 | <b>28.3</b> | -1.6 | 0.4 | <b>204.6</b> | -0.1  | 0.4 | <b>28.1</b> | -0.6 | 2.5 | <b>91.4</b> | -0.1  | 0.5 |                   |
|  |  | -5.7 | 1.4 |             | -8.3 | 0.5 |              | -2.4  | 1.7 |             | -2.3 | 2.5 |             | -0.6  | 1.5 |                   |
| <b>2WG8UU</b>                          | <b>27.7</b>                                    | 0.4  | 0.6 | <b>39.0</b> | 0.4  | 0.9 | <b>181.0</b> | -1.0  | 2.0 | <b>30.7</b> | 0.1  | 0.6 | <b>76.0</b> | -1.4  | 0.9 |                   |
|  |  | 1.9  | 0.6 |             | 2.4  | 1.0 |              | -26.0 | 9.0 |             | 0.3  | 0.6 |             | -15.9 | 2.6 |                   |
| <b>CPEWRJ</b>                          | <b>27.3</b>                                    | 0.4  | 0.5 | <b>44.0</b> | 1.4  | 0.8 | <b>237.2</b> | 1.1   | 1.4 | <b>33.2</b> | 0.8  | 1.3 | <b>70.9</b> | -1.8  | 1.0 |                   |
|  |  | 1.6  | 0.5 |             | 7.3  | 0.9 |              | 30.2  | 6.3 |             | 2.9  | 1.3 |             | -21.0 | 3.0 |                   |



## ALP Program - Participant Web Summary Report - Cycle 29

|                          | 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>TJBJ2Y</b>            | <b>24.0</b>        | -0.4    | 0.3     | <b>37.6</b>        | 0.2     | 0.3     | <b>223.8</b>       | 0.6     | 0.2     | <b>31.2</b>        | 0.2     | 0.1     | <b>92.0</b>        | 0.0     | 0.4     |
|                          |                    | -1.8    | 0.3     |                    | 1.0     | 0.4     |                    | 16.8    | 0.8     |                    | 0.9     | 0.1     |                    | 0.0     | 1.1     |
| <b>XHNEVW</b>            | <b>30.6</b>        | 1.1     | 0.3     | <b>41.4</b>        | 0.9     | 1.3     | <b>207.0</b>       | 0.0     | 0.8     | <b>34.3</b>        | 1.1     | 0.4     | <b>104.1</b>       | 1.1     | 1.3     |
|                          |                    | 4.8     | 0.3     |                    | 4.7     | 1.5     |                    | 0.0     | 3.6     |                    | 4.0     | 0.4     |                    | 12.1    | 3.9     |
| <b>49YVGP</b>            | <b>24.7</b>        | -0.2    | 0.6     | <b>36.7</b>        | 0.0     | 1.3     | <b>204.3</b>       | -0.1    | 2.2     | <b>29.3</b>        | -0.3    | 1.6     | <b>82.0</b>        | -0.9    | 2.0     |
|                          |                    | -1.1    | 0.6     |                    | 0.0     | 1.5     |                    | -2.7    | 9.6     |                    | -1.0    | 1.5     |                    | -9.9    | 6.1     |
| <b>LVRZT6</b>            | <b>26.4</b>        | 0.1     | 0.7     | <b>45.3</b>        | 1.6     | 2.0     | <b>238.6</b>       | 1.2     | 1.3     | <b>32.5</b>        | 0.6     | 1.2     | <b>94.0</b>        | 0.2     | 1.7     |
|                          |                    | 0.7     | 0.7     |                    | 8.6     | 2.3     |                    | 31.6    | 5.7     |                    | 2.2     | 1.2     |                    | 2.1     | 5.1     |
| <b>67Q7RL</b>            | <b>24.2</b>        | -0.4    | 0.2     | <b>35.6</b>        | -0.2    | 0.5     | <b>191.0</b>       | -0.6    | 2.0     | <b>29.5</b>        | -0.2    | 0.2     | <b>80.3</b>        | -1.0    | 0.5     |
|                          |                    | -1.6    | 0.2     |                    | -1.1    | 0.6     |                    | -16.0   | 8.9     |                    | -0.9    | 0.2     |                    | -11.7   | 1.6     |
| <b>7CWYLG</b>            | <b>31.3</b>        | 1.3     | 1.6     | <b>41.3</b>        | 0.9     | 0.5     | <b>128.0</b>       | -3.0    | 1.2     | <b>30.0</b>        | -0.1    | 1.0     | <b>66.7</b>        | -2.2    | 0.7     |
|                          |                    | 5.6     | 1.5     |                    | 4.7     | 0.6     |                    | -79.0   | 5.3     |                    | -0.3    | 1.0     |                    | -25.3   | 2.1     |
| <b>DM76CB</b>            | <b>26.6</b>        | 0.2     | 0.9     | <b>35.8</b>        | -0.2    | 0.7     | <b>230.8</b>       | 0.9     | 1.1     | <b>29.7</b>        | -0.2    | 0.8     | <b>97.3</b>        | 0.5     | 2.3     |
|                          |                    | 0.9     | 0.9     |                    | -0.8    | 0.8     |                    | 23.8    | 4.8     |                    | -0.7    | 0.8     |                    | 5.4     | 6.9     |
| <b>DURWNB</b>            | <b>25.6</b>        | 0.0     | 0.4     | <b>34.4</b>        | -0.4    | 0.1     | <b>202.9</b>       | -0.2    | 0.5     | <b>29.1</b>        | -0.3    | 1.1     | <b>92.0</b>        | 0.0     | 0.6     |
|                          |                    | -0.1    | 0.4     |                    | -2.3    | 0.1     |                    | -4.1    | 2.0     |                    | -1.2    | 1.1     |                    | 0.1     | 1.7     |
| <b>BLKJTA</b>            | <b>16.7</b>        | -2.0    | 0.6     | <b>27.3</b>        | -1.7    | 0.5     | <b>217.0</b>       | 0.4     | 0.2     | <b>23.7</b>        | -1.8    | 0.6     | <b>81.7</b>        | -0.9    | 1.3     |
|                          |                    | -9.1    | 0.6     |                    | -9.3    | 0.6     |                    | 10.0    | 1.0     |                    | -6.7    | 0.6     |                    | -10.3   | 3.8     |
| <b>Grand Median</b>      |                    | 25.7    |         | 36.6               |         |         | 207.0              |         |         | 30.3               |         |         | 91.9               |         |         |
| <b>Median Abs Dev</b>    |                    | 1.7     |         | 3.0                |         |         | 10.0               |         |         | 1.7                |         |         | 5.6                |         |         |
| <b>Avg Within Lab SD</b> |                    | 1.0     |         | 1.2                |         |         | 4.4                |         |         | 1.0                |         |         | 3.0                |         |         |
| <b>Labs Included</b>     |                    | 29      |         | 29                 |         |         | 29                 |         |         | 29                 |         |         | 29                 |         |         |
| <b>Labs Reporting</b>    |                    | 29      |         | 29                 |         |         | 29                 |         |         | 29                 |         |         | 29                 |         |         |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 159) |              |       | in the Mehlich-3 Multi-Element Property Groups |              |       |     |              |       |      |              |       |      |             |      | Data units: mg/kg |  |  |
|--------------------------------|--------------|-------|--|--------------|-------|-----|--------------|-------|------|--------------|-------|------|-------------|------|-------------------|--|--|
|                                | SRSSRS1601   |       |  | SRSSRS1602   |       |     | SRSSRS1603   |       |      | SRSSRS1604   |       |      | SRSSRS1605  |      |                   |  |  |
| <b>YAA32W</b>                  | <b>138.8</b> | -0.2  | 0.0  | <b>139.5</b> | -0.5  | 0.2 | <b>171.3</b> | 0.8   | 0.5  | <b>155.8</b> | -0.5  | 0.0  | <b>25.7</b> | 0.2  | 0.3               |  |  |
|                                |              | -3.6  | 0.3  |              | -10.3 | 1.0 |              | 18.6  | 3.8  |              | -8.3  | 0.3  |             | 1.0  | 0.8               |  |  |
| <b>HRQGNA</b>                  | <b>150.7</b> | 0.4   | 0.6  | <b>149.5</b> | 0.0   | 0.4 | <b>159.6</b> | 0.3   | 0.7  | <b>160.6</b> | -0.2  | 0.4  | <b>25.8</b> | 0.2  | 0.5               |  |  |
|                                |              | 8.4   | 2.9  |              | -0.3  | 2.7 |              | 6.9   | 5.7  |              | -3.4  | 2.0  |             | 1.2  | 1.6               |  |  |
| <b>P9QWN3</b>                  | <b>165.6</b> | 1.1   | 0.3  | <b>162.4</b> | 0.6   | 0.1 | <b>154.8</b> | 0.1   | 0.2  | <b>172.0</b> | 0.4   | 0.3  | <b>26.0</b> | 0.2  | 0.2               |  |  |
|                                |              | 23.3  | 1.8  |              | 12.6  | 0.9 |              | 2.1   | 1.9  |              | 8.0   | 1.5  |             | 1.3  | 0.6               |  |  |
| <b>GBLMGA</b>                  | <b>138.7</b> | -0.2  | 1.2  | <b>148.7</b> | -0.1  | 0.2 | <b>154.0</b> | 0.1   | 0.1  | <b>166.3</b> | 0.1   | 0.7  | <b>24.7</b> | 0.0  | 0.4               |  |  |
|                                |              | -3.7  | 5.9  |              | -1.2  | 1.2 |              | 1.3   | 1.0  |              | 2.3   | 3.8  |             | 0.0  | 1.2               |  |  |
| <b>37H3CQ</b>                  | <b>150.3</b> | 0.4   | 1.7  | <b>155.6</b> | 0.3   | 0.2 | <b>157.4</b> | 0.2   | 1.0  | <b>167.7</b> | 0.2   | 0.3  | <b>26.6</b> | 0.4  | 0.4               |  |  |
|                                |              | 7.9   | 8.6  |              | 5.8   | 1.3 |              | 4.8   | 7.3  |              | 3.7   | 1.8  |             | 1.9  | 1.3               |  |  |
| <b>LM4ZL8</b>                  | <b>139.7</b> | -0.1  | 0.7  | <b>140.3</b> | -0.5  | 0.2 | <b>150.0</b> | -0.1  | 0.3  | <b>147.7</b> | -0.9  | 0.6  | <b>22.7</b> | -0.4 | 0.5               |  |  |
|                                |              | -2.7  | 3.8  |              | -9.5  | 1.5 |              | -2.7  | 2.6  |              | -16.3 | 3.1  |             | -2.0 | 1.5               |  |  |
| <b>6BMKMN</b>                  | <b>160.2</b> | 0.8   | 0.7  | <b>157.0</b> | 0.4   | 0.4 | <b>156.0</b> | 0.1   | 0.1  | <b>159.3</b> | -0.3  | 0.4  | <b>31.3</b> | 1.2  | 0.2               |  |  |
|                                |              | 17.9  | 3.7  |              | 7.2   | 2.6 |              | 3.3   | 1.0  |              | -4.7  | 2.3  |             | 6.7  | 0.6               |  |  |
| <b>F92H9C</b>                  | <b>147.8</b> | 0.3   | 1.8  | <b>130.4</b> | -1.0  | 1.4 | <b>133.8</b> | -0.8  | 0.9  | <b>137.3</b> | -1.5  | 1.3  | <b>24.9</b> | 0.0  | 0.4               |  |  |
|                                |              | 5.4   | 8.9  |              | -19.4 | 8.9 |              | -18.9 | 6.5  |              | -26.7 | 7.2  |             | 0.2  | 1.2               |  |  |
| <b>XWTMKR</b>                  | <b>160.4</b> | 0.9   | 0.9  | <b>151.0</b> | 0.1   | 0.6 | <b>149.2</b> | -0.2  | 0.0  | <b>176.2</b> | 0.7   | 0.6  | <b>24.3</b> | -0.1 | 0.0               |  |  |
|                                |              | 18.1  | 4.4  |              | 1.1   | 3.8 |              | -3.4  | 0.3  |              | 12.2  | 3.0  |             | -0.3 | 0.1               |  |  |
| <b>DFA3JC</b>                  | <b>133.3</b> | -0.4  | 0.7  | <b>145.3</b> | -0.2  | 0.7 | <b>147.3</b> | -0.2  | 0.4  | <b>165.0</b> | 0.1   | 0.2  | <b>24.7</b> | 0.0  | 0.4               |  |  |
|                                |              | -9.0  | 3.5  |              | -4.5  | 4.2 |              | -5.3  | 3.2  |              | 1.0   | 1.0  |             | 0.0  | 1.2               |  |  |
| <b>YKBCLZ</b>                  | <b>141.7</b> | 0.0   | 1.0  | <b>150.2</b> | 0.0   | 0.3 | <b>157.3</b> | 0.2   | 0.1  | <b>177.2</b> | 0.7   | 0.2  | <b>22.8</b> | -0.3 | 0.1               |  |  |
|                                |              | -0.6  | 5.3  |              | 0.3   | 2.0 |              | 4.6   | 0.4  |              | 13.2  | 1.3  |             | -1.9 | 0.2               |  |  |
| <b>RMZ998</b>                  | <b>125.7</b> | -0.8  | 1.5  | <b>146.0</b> | -0.2  | 0.9 | <b>149.7</b> | -0.1  | 0.3  | <b>145.7</b> | -1.0  | 1.5  | <b>24.7</b> | 0.0  | 5.0               |  |  |
|                                |              | -16.7 | 7.6  |              | -3.8  | 6.0 |              | -3.0  | 2.1  |              | -18.3 | 8.1  |             | 0.0  | 15.0              |  |  |
| <b>T9EFX6</b>                  | <b>171.3</b> | 1.4   | 0.8  | <b>189.0</b> | 2.0   | 1.0 | <b>234.7</b> | 3.7   | 3.7  | <b>184.7</b> | 1.2   | 2.1  | <b>18.0</b> | -1.2 | 0.7               |  |  |
|                                |              | 29.0  | 4.2  |              | 39.2  | 6.2 |              | 82.0  | 28.5 |              | 20.7  | 11.2 |             | -6.7 | 2.0               |  |  |
| <b>R9KB47</b>                  | <b>137.0</b> | -0.3  | 0.3  | <b>142.3</b> | -0.4  | 0.8 | <b>151.3</b> | -0.1  | 0.9  | <b>151.3</b> | -0.7  | 1.3  | <b>21.7</b> | -0.5 | 0.7               |  |  |
|                                |              | -5.3  | 1.7  |              | -7.5  | 4.9 |              | -1.3  | 7.0  |              | -12.7 | 7.2  |             | -3.0 | 2.1               |  |  |
| <b>LZMPAC</b>                  | <b>137.3</b> | -0.2  | 0.4  | <b>151.7</b> | 0.1   | 0.2 | <b>149.7</b> | -0.1  | 0.3  | <b>170.7</b> | 0.4   | 0.6  | <b>21.5</b> | -0.6 | 0.8               |  |  |
|                                |              | -5.0  | 2.1  |              | 1.8   | 1.2 |              | -3.0  | 2.5  |              | 6.7   | 3.2  |             | -3.2 | 2.4               |  |  |
| <b>YPKQ4Y</b>                  | <b>142.0</b> | 0.0   |  | <b>146.0</b> | -0.2  |     | <b>140.0</b> | -0.6  |      | <b>168.0</b> | 0.2   |      | <b>27.6</b> | 0.5  | 0.0               |  |  |
|                                |              | -0.3  | 0.0  |              | -3.8  | 0.0 |              | -12.7 | 0.0  |              | 4.0   | 0.0  |             | 2.9  | 0.0               |  |  |
| <b>738BNU</b>                  | <b>164.4</b> | 1.0   | 0.2  | <b>170.5</b> | 1.0   | 0.5 | <b>179.8</b> | 1.2   | 0.1  | <b>162.5</b> | -0.1  | 0.2  | <b>30.0</b> | 1.0  | 0.2               |  |  |
|                                |              | 22.1  | 1.1  |              | 20.7  | 3.2 |              | 27.2  | 1.1  |              | -1.5  | 1.0  |             | 5.4  | 0.7               |  |  |
| <b>L2J8CD</b>                  | <b>130.0</b> | -0.6  | 0.5  | <b>135.0</b> | -0.7  | 0.7 | <b>148.3</b> | -0.2  | 0.3  | <b>161.7</b> | -0.1  | 0.3  | <b>25.3</b> | 0.1  | 0.2               |  |  |
|                                |              | -12.3 | 2.6  |              | -14.8 | 4.6 |              | -4.3  | 2.1  |              | -2.3  | 1.5  |             | 0.6  | 0.6               |  |  |
| <b>CJDKVM</b>                  | <b>138.3</b> | -0.2  | 0.1  | <b>130.3</b> | -1.0  | 0.1 | <b>139.0</b> | -0.6  |      | <b>149.3</b> | -0.8  | 0.1  | <b>19.2</b> | -1.0 | 0.0               |  |  |
|                                |              | -4.0  | 0.6  |              | -19.5 | 0.6 |              | -13.7 | 0.0  |              | -14.7 | 0.6  |             | -5.4 | 0.1               |  |  |
| <b>79D4JP</b>                  | <b>146.5</b> | 0.2   | 0.6  | <b>146.4</b> | -0.2  | 0.4 | <b>146.1</b> | -0.3  | 0.1  | <b>160.9</b> | -0.2  | 0.9  | <b>23.2</b> | -0.3 | 0.4               |  |  |
|                                |              | 4.2   | 2.9  |              | -3.4  | 2.4 |              | -6.5  | 0.9  |              | -3.1  | 5.0  |             | -1.5 | 1.2               |  |  |



## ALP Program - Participant Web Summary Report - Cycle 29

|                          | 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>2WG8UU</b>            | <b>141.0</b> | -0.1       | 1.1     | <b>169.3</b> | 1.0        | 0.6     | <b>186.7</b> | 1.5        | 0.3     | <b>173.7</b> | 0.5        | 1.5     | <b>10.0</b> | -2.7       | 1.8     |
| <b>A9GXQK</b>            | <b>134.0</b> | -1.3       | 5.6     | <b>141.3</b> | 19.5       | 3.5     | <b>143.3</b> | 34.0       | 2.3     | <b>163.3</b> | 9.7        | 8.3     | <b>30.7</b> | -14.7      | 5.3     |
| <b>8CMGZN</b>            | <b>144.1</b> | -0.4       | 0.4     | <b>148.5</b> | -0.4       | 0.5     | <b>138.2</b> | -0.4       | 0.4     | <b>156.1</b> | 0.0        | 0.2     | <b>26.7</b> | 1.1        | 0.4     |
| <b>CPEWRJ</b>            | <b>212.3</b> | -8.3       | 2.0     | <b>235.2</b> | -8.5       | 3.1     | <b>241.7</b> | -9.3       | 3.1     | <b>215.4</b> | -0.7       | 1.2     | <b>35.1</b> | 6.0        | 1.2     |
| <b>VBVLAX</b>            | <b>153.7</b> | 0.1        | 0.2     | <b>161.0</b> | -0.1       | 0.2     | <b>182.3</b> | -0.6       | 0.1     | <b>146.7</b> | -0.4       | 0.2     | <b>31.7</b> | 0.4        | 0.1     |
| <b>TJBJ2Y</b>            | <b>139.0</b> | 1.7        | 0.9     | <b>151.4</b> | -1.3       | 1.3     | <b>154.6</b> | -14.5      | 0.8     | <b>164.7</b> | -7.9       | 0.9     | <b>21.6</b> | 2.0        | 0.4     |
| <b>XHNEVW</b>            | <b>178.5</b> | 3.3        | 0.2     | <b>159.8</b> | 4.3        | 0.3     | <b>171.2</b> | 4.0        | 0.2     | <b>183.1</b> | 2.9        | 0.5     | <b>23.5</b> | 1.9        | 0.7     |
| <b>49YVGP</b>            | <b>129.0</b> | 70.0       | 0.9     | <b>133.3</b> | 85.3       | 2.0     | <b>142.3</b> | 89.0       | 1.4     | <b>150.0</b> | 51.4       | 2.4     | <b>20.3</b> | 10.5       | 2.2     |
| <b>LVRZT6</b>            | <b>137.4</b> | 0.5        | 1.0     | <b>158.5</b> | 0.6        | 1.0     | <b>163.0</b> | 1.3        | 1.2     | <b>172.6</b> | -1.0       | 1.0     | <b>23.3</b> | 1.3        | 0.5     |
| <b>67Q7RL</b>            | <b>121.3</b> | 11.3       | 5.1     | <b>131.3</b> | 11.2       | 6.2     | <b>126.3</b> | 29.7       | 9.1     | <b>142.0</b> | -17.3      | 5.5     | <b>28.3</b> | 7.0        | 1.5     |
| <b>7CWYLG</b>            | <b>229.3</b> | -0.2       | 0.2     | <b>191.7</b> | 0.1        | 0.2     | <b>145.3</b> | 0.1        | 0.4     | <b>178.3</b> | 0.0        | 0.1     | <b>19.0</b> | -0.6       | 0.2     |
| <b>DM76CB</b>            | <b>162.8</b> | -3.3       | 1.0     | <b>160.2</b> | 1.5        | 1.3     | <b>157.3</b> | 1.9        | 2.9     | <b>195.8</b> | 0.7        | 0.6     | <b>22.7</b> | -3.1       | 0.5     |
| <b>DURWNB</b>            | <b>142.7</b> | 1.7        | 0.4     | <b>140.9</b> | 0.5        | 0.3     | <b>145.7</b> | 0.8        | 0.6     | <b>160.0</b> | 1.1        | 0.1     | <b>22.2</b> | -0.2       | 0.4     |
| <b>BLKJTA</b>            | <b>151.0</b> | 36.2       | 2.0     | <b>176.0</b> | 9.9        | 1.9     | <b>179.0</b> | 18.5       | 4.3     | <b>188.7</b> | 19.1       | 0.4     | <b>41.3</b> | -1.2       | 1.2     |
|                          |              | -0.6       | 0.4     |              | -0.8       | 0.5     |              | -0.5       | 0.8     |              | -0.8       |         |             | -0.8       | 0.2     |
|                          |              | -13.3      | 2.0     |              | -16.5      | 3.2     |              | -10.3      | 5.8     |              | -14.0      | 0.0     |             | -4.3       | 0.6     |
|                          |              | -0.2       | 2.6     |              | 0.4        | 4.3     |              | 0.5        | 3.1     |              | 0.5        | 1.0     |             | -0.2       | 0.8     |
|                          |              | -4.9       | 13.2    |              | 8.6        | 27.6    |              | 10.4       | 23.5    |              | 8.6        | 5.3     |             | -1.3       | 2.5     |
|                          |              | -1.0       | 0.3     |              | -0.9       | 0.4     |              | -1.2       | 0.3     |              | -1.2       | 0.2     |             | 0.7        | 0.5     |
|                          |              | -21.0      | 1.5     |              | -18.5      | 2.5     |              | -26.3      | 2.5     |              | -22.0      | 1.0     |             | 3.6        | 1.5     |
|                          |              | 4.1        | 1.8     |              | 2.1        | 0.4     |              | -0.3       | 1.3     |              | 0.8        | 2.7     |             | -1.0       |         |
|                          |              | 87.0       | 9.0     |              | 41.8       | 2.3     |              | -7.3       | 9.8     |              | 14.3       | 14.5    |             | -5.7       | 0.0     |
|                          |              | 1.0        | 2.3     |              | 0.5        | 2.4     |              | 0.2        | 1.0     |              | 1.8        | 2.9     |             | -0.4       | 0.3     |
|                          |              | 20.4       | 11.7    |              | 10.4       | 15.2    |              | 4.6        | 7.7     |              | 31.8       | 15.6    |             | -1.9       | 1.0     |
|                          |              | 0.0        | 0.6     |              | -0.5       | 0.4     |              | -0.3       | 1.1     |              | -0.2       | 0.1     |             | -0.5       | 0.3     |
|                          |              | 0.3        | 3.2     |              | -9.0       | 2.2     |              | -7.0       | 8.3     |              | -4.0       | 0.7     |             | -2.5       | 0.9     |
|                          |              | 0.4        | 0.2     |              | 1.3        | 0.5     |              | 1.2        | 0.2     |              | 1.4        | 0.5     |             | 3.0        | 0.5     |
|                          |              | 8.7        | 1.0     |              | 26.2       | 3.0     |              | 26.3       | 1.7     |              | 24.7       | 2.5     |             | 16.7       | 1.5     |
| <b>Grand Median</b>      |              | 142.3      |         | 149.8        |            |         | 152.7        |            |         | 164.0        |            |         | 24.7        |            |         |
| <b>Median Abs Dev</b>    |              | 8.4        |         | 9.2          |            |         | 7.2          |            |         | 9.1          |            |         | 2.3         |            |         |
| <b>Avg Within Lab SD</b> |              | 5.0        |         | 6.4          |            |         | 7.6          |            |         | 5.4          |            |         | 3.0         |            |         |
| <b>Labs Included</b>     |              | 34         |         | 34           |            |         | 34           |            |         | 34           |            |         | 34          |            |         |
| <b>Labs Reporting</b>    |              | 34         |         | 34           |            |         | 34           |            |         | 34           |            |         | 34          |            |         |





## ALP Program - Participant Web Summary Report - Cycle 29

| 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 160) |                |          | in the Mehlich-3 Multi-Element Property Groups |                |         |            |                |        |            |                |        |            | Data units: mg/kg |       |      |
|---------------------------------|----------------|----------|--|----------------|---------|------------|----------------|--------|------------|----------------|--------|------------|-------------------|-------|------|
|                                 | SRSSRS1601     |          | SRSSRS1602                                     |                |         | SRSSRS1603 |                |        | SRSSRS1604 |                |        | SRSSRS1605 |                   |       |      |
| <b>YAA32W</b>                   | <b>5,924.8</b> | 0.3      | 0.8  | <b>3,850.2</b> | -0.3    | 0.4        | <b>1,105.8</b> | 0.2    | 0.9        | <b>1,332.0</b> | -0.7   | 0.1        | <b>236.3</b>      | 0.5   | 0.3  |
|                                 |                | 199.7    | 141.3  |                | -187.5  | 89.6       |                | 49.8   | 61.7       |                | -98.0  | 6.5        |                   | 35.6  | 5.8  |
| <b>HRQGNA</b>                   | <b>5,528.4</b> | -0.3     | 0.2  | <b>3,915.7</b> | -0.2    | 0.4        | <b>1,115.4</b> | 0.3    | 0.4        | <b>1,425.2</b> | 0.0    | 0.2        | <b>277.8</b>      | 1.2   | 0.5  |
|                                 |                | -196.7   | 29.1   |                | -122.0  | 81.8       |                | 59.4   | 28.3       |                | -4.8   | 11.7       |                   | 77.1  | 9.8  |
| <b>P9QWN3</b>                   | <b>8,275.9</b> | 4.1      | 0.6  | <b>5,106.3</b> | 1.7     | 0.7        | <b>1,201.3</b> | 0.7    | 0.3        | <b>1,510.7</b> | 0.6    | 0.5        | <b>155.9</b>      | -0.7  | 0.4  |
|                                 |                | 2,550.8  | 100.1  |                | 1,068.7 | 150.8      |                | 145.3  | 22.5       |                | 80.7   | 27.2       |                   | -44.7 | 8.1  |
| <b>GBLMGA</b>                   | <b>5,806.7</b> | 0.1      | 1.3  | <b>4,077.0</b> | 0.1     | 0.0        | <b>869.0</b>   | -0.9   | 0.1        | <b>1,374.3</b> | -0.4   | 0.4        | <b>187.0</b>      | -0.2  | 0.3  |
|                                 |                | 81.6     | 216.4  |                | 39.3    | 9.5        |                | -187.0 | 8.2        |                | -55.7  | 23.6       |                   | -13.7 | 7.0  |
| <b>37H3CQ</b>                   | <b>5,914.0</b> | 0.3      | 0.1  | <b>4,447.2</b> | 0.7     | 0.1        | <b>1,097.8</b> | 0.2    | 0.3        | <b>1,416.9</b> | -0.1   | 0.4        | <b>233.1</b>      | 0.5   | 0.4  |
|                                 |                | 188.9    | 11.9   |                | 409.5   | 14.7       |                | 41.8   | 20.9       |                | -13.1  | 25.1       |                   | 32.4  | 9.3  |
| <b>LM4ZL8</b>                   | <b>6,180.0</b> | 0.7      | 0.6  | <b>4,037.7</b> | 0.0     | 0.4        | <b>927.3</b>   | -0.6   | 0.0        | <b>1,430.0</b> | 0.0    | 2.0        | <b>152.3</b>      | -0.7  | 0.2  |
|                                 |                | 454.9    | 96.0   |                | 0.0     | 73.2       |                | -128.7 | 2.5        |                | 0.0    | 117.6      |                   | -48.3 | 5.1  |
| <b>F92H9C</b>                   | <b>5,268.9</b> | -0.7     | 0.6  | <b>3,466.9</b> | -0.9    | 1.4        | <b>985.3</b>   | -0.3   | 0.8        | <b>1,212.3</b> | -1.7   | 1.5        | <b>212.9</b>      | 0.2   | 1.0  |
|                                 |                | -456.2   | 98.6   |                | -570.7  | 283.6      |                | -70.7  | 56.2       |                | -217.7 | 88.9       |                   | 12.2  | 21.0 |
| <b>XWTMKR</b>                   | <b>5,502.3</b> | -0.4     | 0.1  | <b>3,949.0</b> | -0.1    | 0.1        | <b>1,056.0</b> | 0.0    | 0.3        | <b>1,517.3</b> | 0.7    | 0.1        | <b>185.2</b>      | -0.2  | 0.2  |
|                                 |                | -222.8   | 11.5   |                | -88.7   | 12.5       |                | 0.0    | 21.0       |                | 87.3   | 8.5        |                   | -15.5 | 3.1  |
| <b>DFA3JC</b>                   | <b>5,248.3</b> | -0.8     | 0.6  | <b>3,817.0</b> | -0.4    | 0.4        | <b>1,033.7</b> | -0.1   | 0.8        | <b>1,413.0</b> | -0.1   | 0.1        | <b>229.3</b>      | 0.4   | 0.5  |
|                                 |                | -476.8   | 99.7   |                | -220.7  | 92.8       |                | -22.3  | 50.8       |                | -17.0  | 6.6        |                   | 28.7  | 11.1 |
| <b>YKBCLZ</b>                   | <b>5,388.3</b> | -0.5     | 0.3  | <b>3,870.3</b> | -0.3    | 0.1        | <b>1,059.7</b> | 0.0    | 0.1        | <b>1,506.3</b> | 0.6    | 0.1        | <b>207.9</b>      | 0.1   | 0.0  |
|                                 |                | -336.8   | 48.6   |                | -167.3  | 13.0       |                | 3.7    | 4.0        |                | 76.3   | 5.1        |                   | 7.2   | 1.0  |
| <b>RMZ998</b>                   | <b>5,536.7</b> | -0.3     | 1.6  | <b>4,370.0</b> | 0.5     | 0.1        | <b>1,246.7</b> | 0.9    | 2.7        | <b>1,506.7</b> | 0.6    | 2.3        | <b>323.7</b>      | 1.9   | 4.7  |
|                                 |                | -188.5   | 263.1  |                | 332.3   | 26.5       |                | 190.7  | 185.0      |                | 76.7   | 136.1      |                   | 123.0 | 98.0 |
| <b>T9EFX6</b>                   | <b>5,869.7</b> | 0.2      | 1.6  | <b>5,227.0</b> | 1.9     | 1.2        | <b>1,662.7</b> | 3.0    | 0.4        | <b>1,463.3</b> | 0.3    | 0.8        | <b>158.3</b>      | -0.7  | 0.2  |
|                                 |                | 144.6    | 271.4  |                | 1,189.3 | 243.1      |                | 606.7  | 29.9       |                | 33.3   | 44.0       |                   | -42.3 | 3.5  |
| <b>R9KB47</b>                   | <b>6,855.0</b> | 1.8      | 1.6  | <b>4,213.7</b> | 0.3     | 0.1        | <b>1,030.7</b> | -0.1   | 0.8        | <b>1,489.7</b> | 0.5    | 0.5        | <b>211.7</b>      | 0.2   | 0.4  |
|                                 |                | 1,129.9  | 275.0  |                | 176.0   | 30.4       |                | -25.3  | 50.6       |                | 59.7   | 27.2       |                   | 11.0  | 8.1  |
| <b>LZMPAC</b>                   | <b>5,839.0</b> | 0.2      | 0.4  | <b>4,098.3</b> | 0.1     | 0.1        | <b>1,000.3</b> | -0.3   | 0.3        | <b>1,368.0</b> | -0.5   | 0.5        | <b>234.3</b>      | 0.5   | 0.5  |
|                                 |                | 113.9    | 75.0   |                | 60.7    | 20.4       |                | -55.7  | 18.0       |                | -62.0  | 30.4       |                   | 33.7  | 10.5 |
| <b>YPKQ4Y</b>                   | <b>4,508.0</b> | -2.0     |  | <b>3,810.0</b> | -0.4    |            | <b>727.0</b>   | -1.6   |            | <b>1,359.0</b> | -0.5   |            | <b>303.0</b>      | 1.6   |      |
|                                 |                | -1,217.1 | 0.0  |                | -227.7  | 0.0        |                | -329.0 | 0.0        |                | -71.0  | 0.0        |                   | 102.3 | 0.0  |
| <b>738BNU</b>                   | <b>6,162.4</b> | 0.7      | 0.1  | <b>4,779.7</b> | 1.2     | 0.9        | <b>1,230.4</b> | 0.9    | 0.3        | <b>1,471.2</b> | 0.3    | 0.2        | <b>273.8</b>      | 1.1   | 0.6  |
|                                 |                | 437.3    | 9.7  |                | 742.0   | 188.7      |                | 174.4  | 20.8       |                | 41.2   | 14.2       |                   | 73.2  | 13.2 |
| <b>L2J8CD</b>                   | <b>5,478.7</b> | -0.4     | 0.4  | <b>3,793.3</b> | -0.4    | 0.3        | <b>1,000.7</b> | -0.3   | 0.1        | <b>1,314.7</b> | -0.9   | 0.3        | <b>200.7</b>      | 0.0   | 0.1  |
|                                 |                | -246.5   | 59.0   |                | -244.3  | 54.0       |                | -55.3  | 10.1       |                | -115.3 | 17.5       |                   | 0.0   | 1.5  |
| <b>CJDKVM</b>                   | <b>5,685.0</b> | -0.1     | 0.0  | <b>3,543.3</b> | -0.8    | 0.0        | <b>952.3</b>   | -0.5   | 0.0        | <b>1,302.0</b> | -1.0   |            | <b>163.7</b>      | -0.6  | 0.0  |
|                                 |                | -40.1    | 5.0  |                | -494.3  | 4.5        |                | -103.7 | 0.6        |                | -128.0 | 0.0        |                   | -37.0 | 0.6  |
| <b>79D4JP</b>                   | <b>5,577.6</b> | -0.2     | 0.3  | <b>3,848.6</b> | -0.3    | 0.3        | <b>1,028.4</b> | -0.1   | 0.3        | <b>1,365.7</b> | -0.5   | 0.3        | <b>279.0</b>      | 1.2   | 0.3  |
|                                 |                | -147.5   | 45.9   |                | -189.0  | 55.7       |                | -27.6  | 20.3       |                | -64.3  | 19.2       |                   | 78.4  | 5.4  |
| <b>2WG8UU</b>                   | <b>5,619.3</b> | -0.2     | 0.4  | <b>4,936.3</b> | 1.4     | 0.1        | <b>1,153.7</b> | 0.5    | 1.9        | <b>1,492.0</b> | 0.5    | 1.3        | <b>120.7</b>      | -1.2  | 1.9  |
|                                 |                | -105.8   | 74.5   |                | 898.7   | 30.7       |                | 97.7   | 125.0      |                | 62.0   | 76.3       |                   | -80.0 | 40.1 |



## ALP Program - Participant Web Summary Report - Cycle 29

|                          | 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>A9GXQK</b>            | <b>5,806.7</b>     | 0.1     | 0.3     | <b>3,860.7</b>     | -0.3    | 0.4     | <b>1,050.0</b>     | 0.0     | 0.3     | <b>1,298.7</b>     | -1.0    | 0.3     | <b>270.0</b>       | 1.1     | 0.6     |
|                          |                    | 81.6    | 48.3    |                    | -177.0  | 79.1    |                    | -6.0    | 21.0    |                    | -131.3  | 16.3    |                    | 69.3    | 12.1    |
| <b>8CMGZN</b>            | <b>5,603.3</b>     | -0.2    | 1.7     | <b>3,996.0</b>     | -0.1    | 0.4     | <b>1,003.3</b>     | -0.3    | 0.0     | <b>1,271.0</b>     | -1.2    | 0.1     | <b>223.7</b>       | 0.4     | 0.1     |
|                          |                    | -121.8  | 287.5   |                    | -41.7   | 81.4    |                    | -52.7   | 2.1     |                    | -159.0  | 3.6     |                    | 23.0    | 1.5     |
| <b>CPEWRJ</b>            | <b>6,123.6</b>     | 0.6     | 0.4     | <b>4,940.4</b>     | 1.5     | 0.3     | <b>1,726.8</b>     | 3.3     | 2.6     | <b>1,738.0</b>     | 2.3     | 0.8     | <b>167.9</b>       | -0.5    | 0.2     |
|                          |                    | 398.5   | 62.6    |                    | 902.8   | 58.7    |                    | 670.8   | 172.7   |                    | 308.0   | 45.5    |                    | -32.8   | 4.6     |
| <b>VBVLAX</b>            | <b>5,038.0</b>     | -1.1    | 1.1     | <b>3,762.0</b>     | -0.4    | 0.8     | <b>1,605.0</b>     | 2.7     | 0.7     | <b>1,224.0</b>     | -1.6    | 1.2     | <b>182.3</b>       | -0.3    | 0.1     |
|                          |                    | -687.1  | 188.4   |                    | -275.7  | 157.7   |                    | 549.0   | 45.2    |                    | -206.0  | 68.8    |                    | -18.3   | 2.5     |
| <b>XHNEVW</b>            | <b>6,131.0</b>     | 0.7     | 0.4     | <b>4,288.3</b>     | 0.4     | 0.3     | <b>1,141.6</b>     | 0.4     | 0.4     | <b>1,582.0</b>     | 1.2     | 0.3     | <b>146.1</b>       | -0.8    | 0.2     |
|                          |                    | 405.9   | 75.0    |                    | 250.7   | 54.7    |                    | 85.6    | 28.3    |                    | 152.0   | 14.9    |                    | -54.6   | 4.9     |
| <b>49YVGP</b>            | <b>5,547.7</b>     | -0.3    | 0.4     | <b>3,671.3</b>     | -0.6    | 0.4     | <b>928.7</b>       | -0.6    | 0.8     | <b>1,297.0</b>     | -1.0    | 0.4     | <b>147.7</b>       | -0.8    | 0.1     |
|                          |                    | -177.5  | 75.0    |                    | -366.3  | 83.0    |                    | -127.3  | 51.5    |                    | -133.0  | 25.4    |                    | -53.0   | 1.2     |
| <b>LVRZT6</b>            | <b>7,600.7</b>     | 3.0     | 2.4     | <b>4,791.7</b>     | 1.2     | 3.4     | <b>1,127.0</b>     | 0.3     | 2.5     | <b>1,462.3</b>     | 0.2     | 1.0     | <b>183.9</b>       | -0.3    | 1.1     |
|                          |                    | 1,875.6 | 408.6   |                    | 754.0   | 710.6   |                    | 71.0    | 170.2   |                    | 32.3    | 55.6    |                    | -16.8   | 23.6    |
| <b>7CWYLG</b>            | <b>5,609.0</b>     | -0.2    | 2.7     | <b>4,744.0</b>     | 1.1     | 0.7     | <b>1,195.7</b>     | 0.7     | 0.9     | <b>1,505.3</b>     | 0.6     | 2.0     | <b>127.3</b>       | -1.1    | 0.1     |
|                          |                    | -116.1  | 460.4   |                    | 706.3   | 146.0   |                    | 139.7   | 62.1    |                    | 75.3    | 119.5   |                    | -73.3   | 2.5     |
| <b>DM76CB</b>            | <b>5,725.1</b>     | 0.0     | 0.8     | <b>4,777.4</b>     | 1.2     | 3.4     | <b>968.5</b>       | -0.4    | 1.0     | <b>1,443.0</b>     | 0.1     | 2.8     | <b>188.6</b>       | -0.2    | 0.4     |
|                          |                    | 0.0     | 141.2   |                    | 739.7   | 711.2   |                    | -87.5   | 69.3    |                    | 13.0    | 166.3   |                    | -12.1   | 7.6     |
| <b>DURWNB</b>            | <b>5,753.9</b>     | 0.0     | 0.2     | <b>3,877.2</b>     | -0.3    | 0.4     | <b>1,055.6</b>     | 0.0     | 0.4     | <b>1,500.9</b>     | 0.5     | 0.3     | <b>285.0</b>       | 1.3     | 0.5     |
|                          |                    | 28.8    | 41.0    |                    | -160.5  | 76.0    |                    | -0.4    | 28.6    |                    | 70.9    | 15.5    |                    | 84.3    | 10.9    |
| <b>BLKJTA</b>            | <b>5,905.3</b>     | 0.3     | 0.0     | <b>5,223.0</b>     | 1.9     | 0.0     | <b>1,174.3</b>     | 0.6     | 0.1     | <b>1,541.3</b>     | 0.8     | 0.1     | <b>177.3</b>       | -0.4    | 0.1     |
|                          |                    | 180.2   | 5.0     |                    | 1,185.3 | 3.0     |                    | 118.3   | 3.8     |                    | 111.3   | 3.2     |                    | -23.3   | 2.5     |
| <b>Grand Median</b>      |                    | 5,725.1 |         |                    | 4,037.7 |         |                    | 1,056.0 |         |                    | 1,430.0 |         |                    | 200.7   |         |
| <b>Median Abs Dev</b>    |                    | 196.7   |         |                    | 250.7   |         |                    | 85.6    |         |                    | 75.3    |         |                    | 35.6    |         |
| <b>Avg Within Lab SD</b> |                    | 168.6   |         |                    | 206.7   |         |                    | 67.4    |         |                    | 58.5    |         |                    | 20.9    |         |
| <b>Labs Included</b>     |                    | 31      |         |                    | 31      |         |                    | 31      |         |                    | 31      |         |                    | 31      |         |
| <b>Labs Reporting</b>    |                    | 31      |         |                    | 31      |         |                    | 31      |         |                    | 31      |         |                    | 31      |         |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 161) |              |       | in the Mehlich-3 Multi-Element Property Groups |              |       |            |              |       |            |              |       |            |             |       | Data units: mg/kg |  |  |
|---------------------------------|--------------|-------|--|--------------|-------|------------|--------------|-------|------------|--------------|-------|------------|-------------|-------|-------------------|--|--|
| SRSSRS1601                      |              |       | SRSSRS1602                                     |              |       | SRSSRS1603 |              |       | SRSSRS1604 |              |       | SRSSRS1605 |             |       |                   |  |  |
| <b>YAA32W</b>                   | <b>497.3</b> | -0.6  | 0.2  | <b>300.7</b> | -0.6  | 0.1        | <b>88.8</b>  | 0.0   | 0.2        | <b>307.3</b> | -0.8  | 0.0        | <b>33.0</b> | 0.3   | 0.2               |  |  |
|                                 |              | -30.8 | 3.8  |              | -29.6 | 1.5        |              | 0.3   | 0.8        |              | -28.4 | 0.3        |             | 4.0   | 1.0               |  |  |
| <b>HRQGNA</b>                   | <b>554.5</b> | 0.5   | 0.7  | <b>339.2</b> | 0.2   | 1.1        | <b>83.2</b>  | -0.4  | 1.0        | <b>333.5</b> | -0.1  | 0.8        | <b>24.7</b> | -0.4  | 0.5               |  |  |
|                                 |              | 26.5  | 12.8   |              | 8.9   | 17.3       |              | -5.2  | 4.1        |              | -2.2  | 9.6        |             | -4.3  | 2.9               |  |  |
| <b>P9QWN3</b>                   | <b>712.7</b> | 3.5   | 0.5  | <b>438.8</b> | 2.3   | 1.1        | <b>106.9</b> | 1.4   | 0.3        | <b>356.9</b> | 0.6   | 1.4        | <b>35.5</b> | 0.6   | 0.1               |  |  |
|                                 |              | 184.7 | 9.9  |              | 108.5 | 17.5       |              | 18.5  | 1.5        |              | 21.2  | 17.2       |             | 6.6   | 0.7               |  |  |
| <b>GBLMGA</b>                   | <b>546.3</b> | 0.4   | 0.4  | <b>329.3</b> | 0.0   | 0.1        | <b>75.7</b>  | -1.0  | 0.5        | <b>343.3</b> | 0.2   | 1.1        | <b>18.0</b> | -0.9  |                   |  |  |
|                                 |              | 18.3  | 7.5  |              | -0.9  | 1.5        |              | -12.8 | 2.1        |              | 7.7   | 13.5       |             | -11.0 | 0.0               |  |  |
| <b>37H3CQ</b>                   | <b>556.2</b> | 0.5   | 0.1  | <b>378.4</b> | 1.0   | 0.2        | <b>94.1</b>  | 0.4   | 0.6        | <b>337.3</b> | 0.0   | 0.5        | <b>35.4</b> | 0.5   | 0.2               |  |  |
|                                 |              | 28.2  | 2.0  |              | 48.1  | 3.3        |              | 5.7   | 2.5        |              | 1.6   | 6.2        |             | 6.5   | 1.4               |  |  |
| <b>LM4ZL8</b>                   | <b>487.7</b> | -0.8  | 0.6  | <b>314.7</b> | -0.3  | 0.1        | <b>76.3</b>  | -0.9  | 0.4        | <b>294.7</b> | -1.1  | 0.4        | <b>22.3</b> | -0.6  | 0.1               |  |  |
|                                 |              | -40.3 | 12.1   |              | -15.6 | 1.5        |              | -12.1 | 1.5        |              | -41.0 | 4.5        |             | -6.6  | 0.6               |  |  |
| <b>F92H9C</b>                   | <b>437.5</b> | -1.7  | 0.9  | <b>265.6</b> | -1.4  | 1.4        | <b>75.9</b>  | -0.9  | 1.3        | <b>275.9</b> | -1.6  | 1.5        | <b>34.8</b> | 0.5   | 1.1               |  |  |
|                                 |              | -90.5 | 16.9   |              | -64.7 | 22.1       |              | -12.5 | 5.6        |              | -59.8 | 18.4       |             | 5.8   | 6.7               |  |  |
| <b>XWTMKR</b>                   | <b>535.8</b> | 0.2   | 0.1  | <b>312.5</b> | -0.4  | 0.4        | <b>83.7</b>  | -0.4  | 0.1        | <b>359.0</b> | 0.6   | 0.0        | <b>23.2</b> | -0.5  | 0.1               |  |  |
|                                 |              | 7.8   | 2.5  |              | -17.8 | 5.8        |              | -4.7  | 0.4        |              | 23.3  | 0.4        |             | -5.7  | 0.4               |  |  |
| <b>DFA3JC</b>                   | <b>494.7</b> | -0.6  | 0.6  | <b>319.7</b> | -0.2  | 0.6        | <b>85.0</b>  | -0.3  | 0.6        | <b>328.0</b> | -0.2  | 0.1        | <b>32.3</b> | 0.3   | 0.3               |  |  |
|                                 |              | -33.3 | 12.5   |              | -10.6 | 9.8        |              | -3.4  | 2.6        |              | -7.7  | 1.0        |             | 3.4   | 1.5               |  |  |
| <b>YKBCLZ</b>                   | <b>515.8</b> | -0.2  | 0.3  | <b>316.6</b> | -0.3  | 0.2        | <b>88.4</b>  | 0.0   | 0.2        | <b>360.5</b> | 0.7   | 0.1        | <b>33.7</b> | 0.4   | 0.1               |  |  |
|                                 |              | -12.2 | 5.5  |              | -13.7 | 2.9        |              | 0.0   | 0.7        |              | 24.9  | 1.8        |             | 4.8   | 0.4               |  |  |
| <b>RMZ998</b>                   | <b>504.3</b> | -0.5  | 0.9  | <b>359.3</b> | 0.6   | 0.5        | <b>86.7</b>  | -0.1  | 0.4        | <b>316.0</b> | -0.5  | 0.6        | <b>37.0</b> | 0.7   | 5.2               |  |  |
|                                 |              | -23.7 | 17.1   |              | 29.1  | 7.6        |              | -1.8  | 1.5        |              | -19.7 | 7.2        |             | 8.0   | 31.2              |  |  |
| <b>T9EFX6</b>                   | <b>653.7</b> | 2.4   | 1.6  | <b>441.3</b> | 2.4   | 1.5        | <b>129.7</b> | 3.1   | 0.4        | <b>417.0</b> | 2.2   | 1.8        | <b>21.3</b> | -0.6  | 0.2               |  |  |
|                                 |              | 125.7 | 30.5   |              | 111.1 | 23.4       |              | 41.3  | 1.5        |              | 81.3  | 22.3       |             | -7.6  | 1.2               |  |  |
| <b>R9KB47</b>                   | <b>534.0</b> | 0.1   | 0.7  | <b>339.0</b> | 0.2   | 0.3        | <b>100.7</b> | 0.9   | 0.7        | <b>338.0</b> | 0.1   | 1.2        | <b>32.0</b> | 0.3   |                   |  |  |
|                                 |              | 6.0   | 13.7   |              | 8.7   | 5.2        |              | 12.3  | 2.9        |              | 2.3   | 15.6       |             | 3.0   | 0.0               |  |  |
| <b>LZMPAC</b>                   | <b>517.7</b> | -0.2  | 0.3  | <b>329.7</b> | 0.0   | 0.2        | <b>89.9</b>  | 0.1   | 0.1        | <b>354.7</b> | 0.5   | 0.6        | <b>36.9</b> | 0.7   | 0.0               |  |  |
|                                 |              | -10.3 | 6.0  |              | -0.6  | 3.8        |              | 1.5   | 0.6        |              | 19.0  | 8.1        |             | 8.0   | 0.2               |  |  |
| <b>YPKQ4Y</b>                   | <b>490.0</b> | -0.7  |  | <b>356.0</b> | 0.5   |            | <b>99.0</b>  | 0.8   |            | <b>351.0</b> | 0.4   |            | <b>84.0</b> | 4.7   |                   |  |  |
|                                 |              | -38.0 | 0.0  |              | 25.7  | 0.0        |              | 10.6  | 0.0        |              | 15.3  | 0.0        |             | 55.0  | 0.0               |  |  |
| <b>738BNU</b>                   | <b>564.1</b> | 0.7   | 0.4  | <b>387.5</b> | 1.2   | 1.2        | <b>101.6</b> | 1.0   | 0.3        | <b>337.0</b> | 0.0   | 0.5        | <b>33.7</b> | 0.4   | 0.3               |  |  |
|                                 |              | 36.1  | 8.0  |              | 57.3  | 18.1       |              | 13.2  | 1.2        |              | 1.4   | 5.9        |             | 4.7   | 1.6               |  |  |
| <b>L2J8CD</b>                   | <b>487.3</b> | -0.8  | 0.2  | <b>299.0</b> | -0.7  | 0.6        | <b>82.7</b>  | -0.4  | 0.3        | <b>300.0</b> | -0.9  | 0.3        | <b>29.0</b> | 0.0   | 0.0               |  |  |
|                                 |              | -40.7 | 3.1  |              | -31.3 | 8.9        |              | -5.8  | 1.2        |              | -35.7 | 3.6        |             | 0.0   | 0.1               |  |  |
| <b>CJDKVM</b>                   | <b>518.3</b> | -0.2  | 0.0  | <b>276.7</b> | -1.1  | 0.1        | <b>74.3</b>  | -1.1  | 0.1        | <b>304.0</b> | -0.8  |            | <b>21.7</b> | -0.6  | 0.1               |  |  |
|                                 |              | -9.7  | 0.6  |              | -53.6 | 1.2        |              | -14.1 | 0.6        |              | -31.7 | 0.0        |             | -7.3  | 0.6               |  |  |
| <b>79D4JP</b>                   | <b>548.4</b> | 0.4   | 0.5  | <b>333.9</b> | 0.1   | 0.3        | <b>75.9</b>  | -0.9  | 0.6        | <b>301.2</b> | -0.9  | 3.1        | <b>25.9</b> | -0.3  | 0.3               |  |  |
|                                 |              | 20.4  | 8.9  |              | 3.6   | 4.3        |              | -12.5 | 2.6        |              | -34.5 | 39.0       |             | -3.1  | 2.0               |  |  |
| <b>2WG8UU</b>                   | <b>545.0</b> | 0.3   | 0.3  | <b>404.7</b> | 1.6   | 0.4        | <b>98.3</b>  | 0.7   | 0.6        | <b>368.7</b> | 0.9   | 0.4        | <b>17.0</b> | -1.0  | 0.7               |  |  |
|                                 |              | 17.0  | 6.2  |              | 74.4  | 6.8        |              | 9.9   | 2.5        |              | 33.0  | 5.5        |             | -12.0 | 4.4               |  |  |



## ALP Program - Participant Web Summary Report - Cycle 29

|                          | 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>A9GXQK</b>            | <b>479.7</b>       | -0.9    | 0.3     | <b>315.3</b>       | -0.3    | 0.7     | <b>86.0</b>        | -0.2    | 0.2     | <b>290.7</b>       | -1.2    | 0.5     | <b>39.3</b>        | 0.9     | 0.4     |
|                          |                    | -48.3   | 5.8     |                    | -14.9   | 10.5    |                    | -2.4    | 1.0     |                    | -45.0   | 5.8     |                    | 10.4    | 2.5     |
| <b>8CMGZN</b>            | <b>547.0</b>       | 0.4     | 0.1     | <b>347.7</b>       | 0.4     | 0.2     | <b>96.3</b>        | 0.6     | 0.4     | <b>335.7</b>       | 0.0     | 0.0     | <b>47.2</b>        | 1.5     | 0.1     |
|                          |                    | 19.0    | 2.6     |                    | 17.4    | 3.2     |                    | 7.9     | 1.6     |                    | 0.0     | 0.4     |                    | 18.2    | 0.8     |
| <b>CPEWRJ</b>            | <b>523.1</b>       | -0.1    | 0.1     | <b>383.8</b>       | 1.1     | 0.1     | <b>106.1</b>       | 1.3     | 0.6     | <b>351.5</b>       | 0.4     | 0.2     | <b>27.8</b>        | -0.1    | 0.1     |
|                          |                    | -4.9    | 2.2     |                    | 53.5    | 0.8     |                    | 17.7    | 2.7     |                    | 15.8    | 2.6     |                    | -1.2    | 0.4     |
| <b>VBVLAX</b>            | <b>528.0</b>       | 0.0     | 0.3     | <b>302.7</b>       | -0.6    | 1.2     | <b>89.3</b>        | 0.1     | 1.1     | <b>266.7</b>       | -1.8    | 0.4     | <b>23.3</b>        | -0.5    | 0.3     |
|                          |                    | 0.0     | 6.6     |                    | -27.6   | 19.0    |                    | 0.9     | 4.5     |                    | -69.0   | 5.0     |                    | -5.6    | 1.5     |
| <b>XHNEVW</b>            | <b>563.4</b>       | 0.7     | 0.2     | <b>330.3</b>       | 0.0     | 0.2     | <b>84.0</b>        | -0.3    | 0.6     | <b>361.7</b>       | 0.7     | 0.3     | <b>19.7</b>        | -0.8    | 0.0     |
|                          |                    | 35.4    | 4.0     |                    | 0.0     | 2.9     |                    | -4.4    | 2.4     |                    | 26.1    | 4.3     |                    | -9.3    | 0.3     |
| <b>49YVGP</b>            | <b>425.0</b>       | -2.0    | 0.3     | <b>289.3</b>       | -0.9    | 0.7     | <b>69.0</b>        | -1.5    | 0.2     | <b>273.3</b>       | -1.7    | 0.6     | <b>21.7</b>        | -0.6    | 0.3     |
|                          |                    | -103.0  | 6.2     |                    | -40.9   | 10.3    |                    | -19.4   | 1.0     |                    | -62.3   | 7.6     |                    | -7.3    | 2.1     |
| <b>LVRZT6</b>            | <b>557.8</b>       | 0.6     | 3.0     | <b>367.2</b>       | 0.8     | 4.2     | <b>85.9</b>        | -0.2    | 4.0     | <b>347.5</b>       | 0.3     | 1.0     | <b>24.3</b>        | -0.4    | 0.9     |
|                          |                    | 29.8    | 58.0    |                    | 36.9    | 64.7    |                    | -2.5    | 16.6    |                    | 11.9    | 13.0    |                    | -4.7    | 5.4     |
| <b>7CWYLG</b>            | <b>534.3</b>       | 0.1     | 1.6     | <b>370.0</b>       | 0.8     | 0.5     | <b>93.7</b>        | 0.4     | 0.8     | <b>351.7</b>       | 0.4     | 2.3     | <b>20.3</b>        | -0.7    | 0.1     |
|                          |                    | 6.3     | 31.1    |                    | 39.7    | 7.0     |                    | 5.3     | 3.5     |                    | 16.0    | 29.5    |                    | -8.6    | 0.6     |
| <b>DM76CB</b>            | <b>523.7</b>       | -0.1    | 3.5     | <b>315.4</b>       | -0.3    | 1.0     | <b>90.8</b>        | 0.2     | 2.4     | <b>311.6</b>       | -0.6    | 1.3     | <b>31.1</b>        | 0.2     | 0.4     |
|                          |                    | -4.3    | 68.5    |                    | -14.9   | 15.5    |                    | 2.4     | 10.2    |                    | -24.1   | 15.9    |                    | 2.1     | 2.6     |
| <b>DURWNB</b>            | <b>538.8</b>       | 0.2     | 0.6     | <b>315.5</b>       | -0.3    | 0.4     | <b>75.4</b>        | -1.0    | 0.7     | <b>323.1</b>       | -0.3    | 0.2     | <b>25.0</b>        | -0.3    | 0.1     |
|                          |                    | 10.8    | 12.1    |                    | -14.8   | 5.9     |                    | -13.0   | 2.9     |                    | -12.5   | 3.1     |                    | -3.9    | 0.4     |
| <b>BLKJTA</b>            | <b>502.0</b>       | -0.5    | 0.2     | <b>336.0</b>       | 0.1     | 0.3     | <b>92.3</b>        | 0.3     | 0.5     | <b>323.0</b>       | -0.3    | 0.5     | <b>36.7</b>        | 0.7     | 0.3     |
|                          |                    | -26.0   | 4.6     |                    | 5.7     | 5.3     |                    | 3.9     | 2.1     |                    | -12.7   | 6.2     |                    | 7.7     | 1.5     |
| <b>Grand Median</b>      |                    | 528.0   |         | 330.3              |         |         | 88.4               |         |         | 335.7              |         |         | 29.0               |         |         |
| <b>Median Abs Dev</b>    |                    | 26.0    |         | 25.7               |         |         | 5.8                |         |         | 21.2               |         |         | 6.5                |         |         |
| <b>Avg Within Lab SD</b> |                    | 19.6    |         | 15.6               |         |         | 4.2                |         |         | 12.6               |         |         | 6.0                |         |         |
| <b>Labs Included</b>     |                    | 31      |         | 31                 |         |         | 31                 |         |         | 31                 |         |         | 31                 |         |         |
| <b>Labs Reporting</b>    |                    | 31      |         | 31                 |         |         | 31                 |         |         | 31                 |         |         | 31                 |         |         |



## ALP Program - Participant Web Summary Report - Cycle 29

|                    |         |         |                    |         |         |                    |         |         |                    |         |         |                    |         |         |
|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|
| 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 162) |            | in the Mehlich-3 Multi-Element Property Groups |            |            |            |     |      |      |      |      |      | Data units: mg/kg |      |      |      |
|---------------------------------|------------|--|------------|------------|------------|-----|------|------|------|------|------|-------------------|------|------|------|
|                                 | SRSSRS1601 | SRSSRS1602                                     | SRSSRS1603 | SRSSRS1604 | SRSSRS1605 |     |      |      |      |      |      |                   |      |      |      |
| HRQGNA                          | 12.3       | -0.1   | 0.2        | 9.9        | -0.5       | 0.2 | 10.8 | 0.1  | 0.7  | 15.9 | -0.2 | 0.3               | 9.9  | 0.0  | 0.3  |
|                                 |            | -0.9   | 0.6        |            | -3.4       | 0.5 |      | 0.4  | 3.1  |      | -1.5 | 2.6               |      | 0.2  | 1.5  |
| GBLMGA                          | 23.7       | 1.7  | 1.1        | 11.7       | -0.2       | 0.2 | 16.3 | 0.8  | 0.3  | 26.7 | 1.2  | 0.2               | 16.0 | 1.1  | 0.3  |
|                                 |            | 10.4   | 3.1        |            | -1.6       | 0.6 |      | 6.0  | 1.5  |      | 9.3  | 1.5               |      | 6.4  | 1.7  |
| LM4ZL8                          | 24.7       | 1.8  | 0.2        | 21.0       | 1.1        | 0.4 | 10.3 | 0.0  | 0.1  | 8.2  | -1.1 | 0.0               | 7.3  | -0.4 | 0.0  |
|                                 |            | 11.4   | 0.6        |            | 7.7        | 1.0 |      | 0.0  | 0.6  |      | -9.1 | 0.1               |      | -2.4 | 0.1  |
| F92H9C                          | 11.5       | -0.3   | 0.2        | 13.5       | 0.0        | 0.4 | 11.7 | 0.2  | 0.4  | 17.6 | 0.0  | 0.4               | 12.4 | 0.5  | 0.5  |
|                                 |            | -1.8   | 0.5        |            | 0.2        | 1.0 |      | 1.3  | 1.6  |      | 0.3  | 2.9               |      | 2.8  | 2.5  |
| DFA3JC                          | 10.0       | -0.5   | 0.7        | 13.2       | 0.0        | 1.6 | 10.1 | 0.0  | 0.6  | 16.0 | -0.2 | 0.6               | 10.2 | 0.1  | 0.7  |
|                                 |            | -3.3   | 2.0        |            | -0.1       | 4.4 |      | -0.3 | 2.5  |      | -1.3 | 4.6               |      | 0.5  | 3.5  |
| RMZ998                          | 9.3        | -0.6   | 0.2        | 10.3       | -0.4       | 0.2 | 7.3  | -0.4 | 0.1  | 12.3 | -0.6 | 0.1               | 6.0  | -0.6 | 0.2  |
|                                 |            | -3.9   | 0.6        |            | -2.9       | 0.6 |      | -3.0 | 0.6  |      | -5.0 | 0.6               |      | -3.6 | 1.0  |
| T9EFX6                          | 16.3       | 0.5  | 0.2        | 24.0       | 1.6        | 1.5 | 16.7 | 0.9  | 0.3  | 22.7 | 0.7  | 0.7               | 10.0 | 0.1  | 0.2  |
|                                 |            | 3.1  | 0.6        |            | 10.7       | 4.0 |      | 6.3  | 1.5  |      | 5.3  | 5.5               |      | 0.4  | 1.0  |
| LZMPAC                          | 7.4        | -1.0   | 0.4        | 8.6        | -0.7       | 0.2 | 4.7  | -0.8 | 0.2  | 12.3 | -0.6 | 0.1               | 4.2  | -0.9 | 0.0  |
|                                 |            | -5.9   | 1.1        |            | -4.7       | 0.6 |      | -5.7 | 0.9  |      | -5.0 | 1.0               |      | -5.5 | 0.2  |
| YPKQ4Y                          | 10.4       | -0.5   | 0.0        | 12.0       | -0.2       | 0.0 | 10.3 | 0.0  |      | 16.0 | -0.2 | 0.0               | 9.4  | 0.0  | 0.0  |
|                                 |            | -2.8   | 0.0        |            | -1.3       | 0.0 |      | -0.1 | 0.0  |      | -1.4 | 0.0               |      | -0.2 | 0.0  |
| 738BNU                          | 14.1       | 0.1  | 0.1        | 14.6       | 0.2        | 0.4 | 10.5 | 0.0  | 0.1  | 19.0 | 0.2  | 0.1               | 10.2 | 0.1  | 0.1  |
|                                 |            | 0.8  | 0.4        |            | 1.4        | 1.2 |      | 0.1  | 0.6  |      | 1.6  | 1.1               |      | 0.5  | 0.7  |
| CJDKVM                          | 10.5       | -0.4   | 0.0        | 11.7       | -0.2       | 0.0 | 5.7  | -0.6 | 0.0  | 13.1 | -0.5 | 0.0               | 4.5  | -0.9 | 0.0  |
|                                 |            | -2.7   | 0.1        |            | -1.6       | 0.0 |      | -4.7 | 0.0  |      | -4.2 | 0.1               |      | -5.1 | 0.1  |
| 79D4JP                          | 12.8       | -0.1   | 0.4        | 10.1       | -0.5       | 0.3 | 5.8  | -0.6 | 0.3  | 17.0 | 0.0  | 0.1               | 9.9  | 0.0  | 0.3  |
|                                 |            | -0.5   | 1.0        |            | -3.2       | 0.9 |      | -4.5 | 1.4  |      | -0.3 | 0.7               |      | 0.2  | 1.8  |
| 2WG8UU                          | 22.3       | 1.5  | 1.1        | 26.7       | 1.9        | 1.9 | 33.7 | 3.2  | 4.1  | 55.3 | 4.8  | 4.2               | 30.0 | 3.5  | 4.2  |
|                                 |            | 9.1  | 3.1        |            | 13.4       | 5.0 |      | 23.3 | 18.0 |      | 38.0 | 34.3              |      | 20.4 | 21.7 |
| CPEWRJ                          | 24.7       | 1.9  | 1.6        | 33.1       | 2.9        | 1.1 | 32.6 | 3.1  | 0.2  | 23.7 | 0.8  | 0.2               | 10.0 | 0.1  | 0.2  |
|                                 |            | 11.5   | 4.3        |            | 19.8       | 2.9 |      | 22.3 | 0.9  |      | 6.4  | 1.3               |      | 0.3  | 1.0  |
| VBVLAX                          | 11.0       | -0.4   | 0.4        | 10.0       | -0.5       | 0.7 | 5.7  | -0.6 | 0.3  | 11.3 | -0.8 | 0.2               | 4.0  | -1.0 | 0.2  |
|                                 |            | -2.3   | 1.0        |            | -3.3       | 1.7 |      | -4.7 | 1.2  |      | -6.0 | 1.5               |      | -5.6 | 1.0  |
| XHNEVW                          | 7.6        | -0.9   | 0.0        | 7.7        | -0.8       | 0.1 | 3.6  | -0.9 | 0.0  | 11.9 | -0.7 | 0.0               | 2.2  | -1.3 | 0.0  |
|                                 |            | -5.7   | 0.1        |            | -5.6       | 0.2 |      | -6.8 | 0.2  |      | -5.4 | 0.0               |      | -7.5 | 0.1  |
| 49YVGP                          | 17.7       | 0.7  | 0.9        | 21.3       | 1.2        | 0.2 | 17.3 | 1.0  | 0.3  | 20.7 | 0.4  | 0.1               | 21.7 | 2.1  | 0.3  |
|                                 |            | 4.4  | 2.5        |            | 8.1        | 0.6 |      | 7.0  | 1.5  |      | 3.3  | 0.6               |      | 12.0 | 1.5  |
| LVRZT6                          | 13.8       | 0.1  | 3.6        | 14.6       | 0.2        | 2.9 | 10.4 | 0.0  | 1.4  | 18.7 | 0.2  | 1.2               | 8.2  | -0.3 | 1.2  |
|                                 |            | 0.5  | 9.6        |            | 1.4        | 7.7 |      | 0.0  | 6.1  |      | 1.4  | 9.6               |      | -1.5 | 6.0  |
| 7CWYLG                          | 14.0       | 0.1  | 0.4        | 16.0       | 0.4        | 0.7 | 9.3  | -0.1 | 0.1  | 18.3 | 0.1  | 0.2               | 7.3  | -0.4 | 0.1  |
|                                 |            | 0.7  | 1.0        |            | 2.7        | 1.7 |      | -1.0 | 0.6  |      | 1.0  | 1.5               |      | -2.3 | 0.6  |
| DURWNB                          | 14.8       | 0.2  | 0.3        | 13.3       | 0.0        | 0.4 | 10.5 | 0.0  | 0.3  | 18.7 | 0.2  | 0.2               | 9.2  | -0.1 | 0.2  |
|                                 |            | 1.5  | 0.8        |            | 0.1        | 1.2 |      | 0.1  | 1.4  |      | 1.3  | 1.9               |      | -0.5 | 1.0  |



## ALP Program - Participant Web Summary Report - Cycle 29

|                          | 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>Grand Median</b>      |                    | 13.3    |         | 13.3               |         |         | 10.4               |         |         | 17.3               |         |         | 9.65               |         |         |
| <b>Median Abs Dev</b>    |                    | 2.9     |         | 3.1                |         |         | 3.8                |         |         | 3.8                |         |         | 2.35               |         |         |
| <b>Avg Within Lab SD</b> |                    | 2.7     |         | 2.7                |         |         | 4.4                |         |         | 8.2                |         |         | 5.21               |         |         |
| <b>Labs Included</b>     |                    | 20      |         | 20                 |         |         | 20                 |         |         | 20                 |         |         | 20                 |         |         |
| <b>Labs Reporting</b>    |                    | 20      |         | 20                 |         |         | 20                 |         |         | 20                 |         |         | 20                 |         |         |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 163) |       |      | in the Mehlich-3 Multi-Element Property Groups |      |      |            |      |      |            |      |       |            |      |      | Data units: mg/kg |  |  |
|--------------------------------|-------|------|--|------|------|------------|------|------|------------|------|-------|------------|------|------|-------------------|--|--|
| SRSSRS1601                     |       |      | SRSSRS1602                                     |      |      | SRSSRS1603 |      |      | SRSSRS1604 |      |       | SRSSRS1605 |      |      |                   |  |  |
| HRQGNA                         | 5.3   | -0.2 | 1.1  | 10.8 | -0.1 | 0.9        | 19.1 | 0.5  | 0.8        | 42.8 | 0.0   | 0.5        | 11.1 | 0.3  | 0.8               |  |  |
|                                |       | -2.5 | 1.1  |      | -1.4 | 0.8        |      | 2.7  | 1.1        |      | 0.2   | 1.4        |      | 1.0  | 1.3               |  |  |
| GBLMGA                         | 106.3 | 7.7  | 3.2  | 85.3 | 7.0  | 1.2        | 32.0 | 3.0  | 0.8        | 56.0 | 1.3   | 0.7        | 11.0 | 0.3  |                   |  |  |
|                                |       | 98.5 | 3.2  |      | 73.2 | 1.2        |      | 15.5 | 1.0        |      | 13.4  | 2.0        |      | 0.9  | 0.0               |  |  |
| 37H3CQ                         | 5.6   | -0.2 | 0.4  | 9.2  | -0.3 | 1.7        | 11.6 | -0.9 | 0.9        | 40.9 | -0.2  | 0.1        | 11.0 | 0.3  | 0.6               |  |  |
|                                |       | -2.2 | 0.4  |      | -2.9 | 1.6        |      | -4.8 | 1.2        |      | -1.8  | 0.3        |      | 0.9  | 0.9               |  |  |
| LM4ZL8                         | 9.5   | 0.1  | 0.2  | 14.7 | 0.2  | 1.6        | 10.3 | -1.2 | 0.4        | 21.0 | -2.2  | 0.3        | 2.2  | -2.4 | 0.1               |  |  |
|                                |       | 1.7  | 0.2  |      | 2.5  | 1.5        |      | -6.1 | 0.6        |      | -21.6 | 1.0        |      | -7.9 | 0.1               |  |  |
| F92H9C                         | 17.7  | 0.8  | 1.1  | 16.1 | 0.4  | 1.4        | 11.4 | -1.0 | 0.3        | 24.7 | -1.8  | 0.2        | 7.4  | -0.8 | 0.3               |  |  |
|                                |       | 9.9  | 1.1  |      | 3.9  | 1.3        |      | -5.1 | 0.4        |      | -17.9 | 0.5        |      | -2.7 | 0.5               |  |  |
| XWTMKR                         | 9.3   | 0.1  | 0.2  | 13.6 | 0.1  | 0.1        | 17.3 | 0.2  | 0.1        | 48.7 | 0.6   | 0.1        | 12.6 | 0.7  | 0.2               |  |  |
|                                |       | 1.5  | 0.2  |      | 1.5  | 0.1        |      | 0.9  | 0.1        |      | 6.1   | 0.2        |      | 2.4  | 0.4               |  |  |
| DFA3JC                         | 22.3  | 1.1  | 1.1  | 19.0 | 0.7  | 1.1        | 11.0 | -1.1 |            | 24.0 | -1.9  |            | 5.3  | -1.4 | 0.0               |  |  |
|                                |       | 14.5 | 1.2  |      | 6.9  | 1.0        |      | -5.5 | 0.0        |      | -18.6 | 0.0        |      | -4.8 | 0.1               |  |  |
| YKBCLZ                         | 9.7   | 0.1  | 0.1  | 12.4 | 0.0  | 0.2        | 17.4 | 0.2  | 0.2        | 47.3 | 0.5   | 0.2        | 12.7 | 0.7  | 0.1               |  |  |
|                                |       | 1.9  | 0.1  |      | 0.3  | 0.2        |      | 0.9  | 0.3        |      | 4.7   | 0.6        |      | 2.5  | 0.1               |  |  |
| RMZ998                         | 7.7   | 0.0  | 1.5  | 12.7 | 0.0  | 1.2        | 18.3 | 0.4  | 1.6        | 45.0 | 0.2   |            | 10.0 | 0.0  | 2.4               |  |  |
|                                |       | -0.1 | 1.5  |      | 0.5  | 1.2        |      | 1.9  | 2.1        |      | 2.4   | 0.0        |      | -0.1 | 4.0               |  |  |
| T9EFX6                         | 8.2   | 0.0  | 0.2  | 14.4 | 0.2  | 0.5        | 18.4 | 0.4  | 0.9        | 39.6 | -0.3  | 1.6        | 6.9  | -1.0 | 0.1               |  |  |
|                                |       | 0.4  | 0.2  |      | 2.2  | 0.5        |      | 2.0  | 1.2        |      | -3.0  | 4.6        |      | -3.2 | 0.1               |  |  |
| LZMPAC                         | 7.5   | 0.0  | 0.5  | 11.9 | 0.0  | 0.7        | 15.9 | -0.1 | 0.6        | 45.6 | 0.3   | 0.1        | 10.1 | 0.0  | 0.2               |  |  |
|                                |       | -0.3 | 0.5  |      | -0.3 | 0.6        |      | -0.6 | 0.8        |      | 3.0   | 0.2        |      | 0.0  | 0.4               |  |  |
| YPKQ4Y                         | 6.9   | -0.1 | 0.0  | 10.8 | -0.1 | 0.0        | 15.9 | -0.1 | 0.0        | 41.3 | -0.1  | 0.0        | 9.2  | -0.3 | 0.0               |  |  |
|                                |       | -0.9 | 0.0  |      | -1.4 | 0.0        |      | -0.6 | 0.0        |      | -1.3  | 0.0        |      | -0.9 | 0.0               |  |  |
| 738BNU                         | 9.5   | 0.1  | 0.4  | 15.1 | 0.3  | 0.5        | 20.7 | 0.8  | 0.4        | 49.3 | 0.7   | 0.4        | 12.0 | 0.5  | 0.4               |  |  |
|                                |       | 1.7  | 0.4  |      | 3.0  | 0.5        |      | 4.3  | 0.5        |      | 6.6   | 1.1        |      | 1.8  | 0.6               |  |  |
| L2J8CD                         | 6.4   | -0.1 | 0.2  | 10.0 | -0.2 | 0.1        | 15.2 | -0.2 | 0.3        | 40.0 | -0.3  | 0.2        | 9.2  | -0.3 | 0.1               |  |  |
|                                |       | -1.4 | 0.3  |      | -2.1 | 0.1        |      | -1.3 | 0.4        |      | -2.6  | 0.5        |      | -1.0 | 0.3               |  |  |
| CJDKVM                         | 7.7   | 0.0  | 0.0  | 11.5 | -0.1 | 0.1        | 17.0 | 0.1  |            | 40.5 | -0.2  | 0.2        | 10.2 | 0.0  | 0.0               |  |  |
|                                |       | -0.1 | 0.0  |      | -0.6 | 0.1        |      | 0.5  | 0.0        |      | -2.1  | 0.5        |      | 0.0  | 0.0               |  |  |
| 79D4JP                         | 4.1   | -0.3 | 0.9  | 10.5 | -0.2 | 1.0        | 17.3 | 0.2  | 0.1        | 43.9 | 0.1   | 1.9        | 10.4 | 0.1  | 0.5               |  |  |
|                                |       | -3.8 | 0.9  |      | -1.7 | 1.0        |      | 0.8  | 0.1        |      | 1.2   | 5.6        |      | 0.3  | 0.9               |  |  |
| 2WG8UU                         | 60.7  | 4.1  | 2.1  | 59.7 | 4.5  | 0.6        | 36.7 | 3.9  | 3.9        | 71.3 | 2.9   | 3.6        | 23.3 | 3.9  | 3.9               |  |  |
|                                |       | 52.9 | 2.1  |      | 47.5 | 0.6        |      | 20.2 | 5.1        |      | 28.7  | 10.4       |      | 13.2 | 6.7               |  |  |
| CPEWRJ                         | 8.5   | 0.1  | 0.2  | 13.3 | 0.1  | 0.2        | 16.7 | 0.1  | 0.3        | 42.5 | 0.0   | 0.1        | 6.9  | -1.0 | 0.0               |  |  |
|                                |       | 0.7  | 0.2  |      | 1.2  | 0.2        |      | 0.3  | 0.4        |      | -0.2  | 0.3        |      | -3.2 | 0.1               |  |  |
| XHNEVW                         | 3.4   | -0.3 | 0.1  | 8.1  | -0.4 | 0.2        | 13.4 | -0.6 | 0.1        | 48.3 | 0.6   | 0.2        | 8.3  | -0.5 | 0.2               |  |  |
|                                |       | -4.4 | 0.1  |      | -4.0 | 0.2        |      | -3.1 | 0.2        |      | 5.6   | 0.7        |      | -1.8 | 0.4               |  |  |
| 49YVGP                         | 7.9   | 0.0  | 0.6  | 11.0 | -0.1 | 0.5        | 14.5 | -0.4 | 0.1        | 28.7 | -1.4  | 0.1        | 10.8 | 0.2  | 0.4               |  |  |
|                                |       | 0.1  | 0.6  |      | -1.2 | 0.5        |      | -1.9 | 0.2        |      | -14.0 | 0.3        |      | 0.7  | 0.7               |  |  |



## ALP Program - Participant Web Summary Report - Cycle 29

|                          | 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>LVRZT6</b>            | <b>6.4</b>         | -0.1    | 1.0     | <b>11.1</b>        | -0.1    | 1.7     | <b>15.3</b>        | -0.2    | 0.9     | <b>42.1</b>        | -0.1    | 0.3     | <b>8.3</b>         | -0.5    | 0.6     |
|                          |                    | -1.4    | 1.0     |                    | -1.1    | 1.6     |                    | -1.2    | 1.2     |                    | -0.5    | 0.8     |                    | -1.8    | 1.1     |
| <b>7CWYLG</b>            | <b>11.8</b>        | 0.3     | 0.3     | <b>17.8</b>        | 0.5     | 0.2     | <b>18.4</b>        | 0.4     | 0.5     | <b>46.3</b>        | 0.4     | 0.9     | <b>9.1</b>         | -0.3    | 0.3     |
|                          |                    | 4.0     | 0.3     |                    | 5.7     | 0.2     |                    | 1.9     | 0.6     |                    | 3.7     | 2.5     |                    | -1.0    | 0.4     |
| <b>DM76CB</b>            | <b>7.0</b>         | -0.1    | 0.3     | <b>11.4</b>        | -0.1    | 0.7     | <b>16.2</b>        | -0.1    | 1.0     | <b>41.2</b>        | -0.1    | 1.4     | <b>10.5</b>        | 0.1     | 0.4     |
|                          |                    | -0.8    | 0.3     |                    | -0.7    | 0.6     |                    | -0.3    | 1.3     |                    | -1.5    | 4.2     |                    | 0.4     | 0.7     |
| <b>DURWNB</b>            | <b>5.3</b>         | -0.2    | 0.8     | <b>7.7</b>         | -0.4    | 2.3     | <b>15.8</b>        | -0.1    | 0.6     | <b>44.4</b>        | 0.2     | 0.9     | <b>11.8</b>        | 0.5     | 0.7     |
|                          |                    | -2.5    | 0.8     |                    | -4.5    | 2.2     |                    | -0.7    | 0.8     |                    | 1.8     | 2.6     |                    | 1.7     | 1.1     |
| <b>Grand Median</b>      |                    | 7.80    |         |                    | 12.2    |         |                    | 16.5    |         |                    | 42.6    |         |                    | 10.1    |         |
| <b>Median Abs Dev</b>    |                    | 1.72    |         |                    | 1.9     |         |                    | 1.9     |         |                    | 3.0     |         |                    | 1.4     |         |
| <b>Avg Within Lab SD</b> |                    | 1.01    |         |                    | 0.9     |         |                    | 1.3     |         |                    | 2.9     |         |                    | 1.7     |         |
| <b>Labs Included</b>     |                    | 24      |         |                    | 24      |         |                    | 24      |         |                    | 24      |         |                    | 24      |         |
| <b>Labs Reporting</b>    |                    | 24      |         |                    | 24      |         |                    | 24      |         |                    | 24      |         |                    | 24      |         |





## ALP Program - Participant Web Summary Report - Cycle 29

|                    |         |         |                    |         |         |                    |         |         |                    |         |         |                    |         |         |
|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|
| 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 164) | in the Mehlich-3 Multi-Element Property Groups |        |       |              |       |      |                |        |       |                |       |       | Data units: mg/kg |        |       |
|---------------------------------|--|--------|-------|--------------|-------|------|----------------|--------|-------|----------------|-------|-------|-------------------|--------|-------|
|                                 | SRSSRS1601                                     |        |       | SRSSRS1602   |       |      | SRSSRS1603     |        |       | SRSSRS1604     |       |       | SRSSRS1605        |        |       |
| <b>HRQGNA</b>                   | <b>345.8</b>                                   | -0.5   | 0.2   | <b>671.3</b> | -0.2  | 0.4  | <b>1,621.4</b> | 0.0    | 0.6   | <b>799.4</b>   | -0.2  | 0.4   | <b>614.8</b>      | 0.1    | 0.3   |
|                                 |  | -48.2  | 8.5   |              | -18.4 | 14.8 |                | 0.0    | 32.4  |                | -22.3 | 17.7  |                   | 13.8   | 13.0  |
| <b>LM4ZL8</b>                   | <b>410.0</b>                                   | 0.2    | 0.0   | <b>726.7</b> | 0.4   | 0.1  | <b>1,809.7</b> | 0.8    | 1.1   | <b>813.7</b>   | -0.1  | 0.1   | <b>581.0</b>      | -0.2   | 0.1   |
|                                 |  | 16.0   | 2.0   |              | 37.0  | 4.9  |                | 188.3  | 57.1  |                | -8.0  | 3.2   |                   | -20.0  | 5.3   |
| <b>RMZ998</b>                   | <b>336.0</b>                                   | -0.6   | 3.0   | <b>780.3</b> | 0.9   | 0.6  | <b>1,706.7</b> | 0.4    | 1.2   | <b>1,022.3</b> | 1.6   | 2.7   | <b>649.3</b>      | 0.5    | 3.1   |
|                                 |  | -58.0  | 122.4 |              | 90.7  | 20.2 |                | 85.3   | 60.3  |                | 200.7 | 112.0 |                   | 48.3   | 129.6 |
| <b>T9EFX6</b>                   | <b>105.0</b>                                   | -3.0   | 0.1   | <b>747.7</b> | 0.6   | 0.6  | <b>1,662.3</b> | 0.2    | 0.8   | <b>873.3</b>   | 0.4   | 0.9   | <b>454.7</b>      | -1.4   | 0.2   |
|                                 |  | -289.0 | 2.6   |              | 58.0  | 19.8 |                | 41.0   | 43.8  |                | 51.7  | 35.8  |                   | -146.3 | 7.5   |
| <b>LZMPAC</b>                   | <b>365.3</b>                                   | -0.3   | 0.3   | <b>689.7</b> | 0.0   | 0.6  | <b>1,505.0</b> | -0.5   | 0.5   | <b>821.7</b>   | 0.0   | 0.2   | <b>601.0</b>      | 0.0    | 0.3   |
|                                 |  | -28.7  | 13.6  |              | 0.0   | 20.7 |                | -116.4 | 24.6  |                | 0.0   | 6.5   |                   | 0.0    | 12.0  |
| <b>CJDKVM</b>                   | <b>380.3</b>                                   | -0.1   | 0.0   | <b>661.3</b> | -0.3  | 0.0  | <b>1,532.0</b> | -0.4   | 0.0   | <b>768.0</b>   | -0.4  |       | <b>543.3</b>      | -0.6   | 0.0   |
|                                 |  | -13.7  | 0.6   |              | -28.3 | 0.6  |                | -89.4  | 1.7   |                | -53.7 | 0.0   |                   | -57.7  | 0.6   |
| <b>79D4JP</b>                   | <b>380.8</b>                                   | -0.1   | 0.6   | <b>665.5</b> | -0.2  | 0.3  | <b>1,468.5</b> | -0.6   | 0.2   | <b>809.2</b>   | -0.1  | 0.3   | <b>591.7</b>      | -0.1   | 0.2   |
|                                 |  | -13.3  | 24.7  |              | -24.2 | 10.8 |                | -152.8 | 11.7  |                | -12.4 | 12.1  |                   | -9.3   | 7.2   |
| <b>2WG8UU</b>                   | <b>514.0</b>                                   | 1.3    | 0.5   | <b>846.3</b> | 1.5   | 0.4  | <b>1,674.0</b> | 0.2    | 0.9   | <b>1,055.0</b> | 1.8   | 0.5   | <b>719.0</b>      | 1.2    | 0.6   |
|                                 |  | 120.0  | 21.7  |              | 156.7 | 12.3 |                | 52.6   | 48.1  |                | 233.3 | 22.5  |                   | 118.0  | 23.5  |
| <b>XHNEVW</b>                   | <b>476.3</b>                                   | 0.9    | 0.1   | <b>749.5</b> | 0.6   | 1.0  | <b>1,631.4</b> | 0.0    | 0.2   | <b>948.5</b>   | 1.0   | 0.1   | <b>672.4</b>      | 0.7    | 0.9   |
|                                 |  | 82.2   | 5.5   |              | 59.8  | 33.5 |                | 10.1   | 9.5   |                | 126.8 | 4.8   |                   | 71.4   | 40.1  |
| <b>LVRZT6</b>                   | <b>505.3</b>                                   | 1.2    | 0.5   | <b>997.7</b> | 3.0   | 2.5  | <b>2,124.3</b> | 2.1    | 1.3   | <b>1,177.7</b> | 2.8   | 1.1   | <b>828.2</b>      | 2.2    | 1.1   |
|                                 |  | 111.2  | 19.9  |              | 308.1 | 87.2 |                | 503.0  | 65.2  |                | 356.0 | 45.4  |                   | 227.2  | 45.0  |
| <b>7CWYLG</b>                   | <b>449.7</b>                                   | 0.6    | 1.1   | <b>674.3</b> | -0.2  | 1.8  | <b>1,298.7</b> | -1.3   | 1.9   | <b>816.3</b>   | 0.0   | 1.6   | <b>432.3</b>      | -1.7   | 0.9   |
|                                 |  | 55.6   | 43.8  |              | -15.3 | 62.3 |                | -322.7 | 100.3 |                | -5.3  | 66.2  |                   | -168.7 | 39.7  |
| <b>DM76CB</b>                   | <b>399.5</b>                                   | 0.1    | 1.3   | <b>647.9</b> | -0.4  | 1.1  | <b>1,185.3</b> | -1.8   | 1.5   | <b>821.9</b>   | 0.0   | 0.8   | <b>599.4</b>      | 0.0    | 0.4   |
|                                 |  | 5.5    | 51.3  |              | -41.7 | 37.8 |                | -436.1 | 75.7  |                | 0.2   | 34.0  |                   | -1.6   | 14.9  |
| <b>DURWNB</b>                   | <b>394.0</b>                                   | 0.0    | 0.3   | <b>635.8</b> | -0.5  | 0.2  | <b>1,491.6</b> | -0.5   | 0.8   | <b>781.4</b>   | -0.3  | 0.0   | <b>606.2</b>      | 0.1    | 0.1   |
|                                 |  | 0.0    | 13.6  |              | -53.8 | 8.3  |                | -129.8 | 43.8  |                | -40.3 | 1.6   |                   | 5.2    | 5.8   |
| <b>Grand Median</b>             |  | 394.0  |       | 689.7        |       |      | 1,621.4        |        |       | 821.7          |       |       | 601.0             |        |       |
| <b>Median Abs Dev</b>           |  | 48.2   |       | 41.7         |       |      | 116.4          |        |       | 40.3           |       |       | 48.3              |        |       |
| <b>Avg Within Lab SD</b>        |  | 40.7   |       | 34.9         |       |      | 51.9           |        |       | 41.6           |       |       | 42.3              |        |       |
| <b>Labs Included</b>            |  | 13     |       | 13           |       |      | 13             |        |       | 13             |       |       | 13                |        |       |
| <b>Labs Reporting</b>           |  | 13     |       | 13           |       |      | 13             |        |       | 13             |       |       | 13                |        |       |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 165) in the Mehlich-3 Multi-Element Property Groups |       |      |            |       |      |            |       |      |            |       |      |            |       |      | Data units: mg/kg |
|--------|--|-------|------|------------|-------|------|------------|-------|------|------------|-------|------|------------|-------|------|-------------------|
|        | SRSSRS1601   |       |      | SRSSRS1602 |       |      | SRSSRS1603 |       |      | SRSSRS1604 |       |      | SRSSRS1605 |       |      |                   |
| HRQGNA | 2.26   | 0.55  | 0.68 | 4.99       | 0.05  | 0.56 | 10.07      | 0.27  | 0.72 | 2.15       | -0.18 | 0.35 | 1.54       | 0.31  | 0.28 |                   |
|        |  | 0.15  | 0.08 |            | 0.03  | 0.15 |            | 0.47  | 0.24 |            | -0.05 | 0.05 |            | 0.08  | 0.04 |                   |
| GBLMGA | 2.20   | 0.35  | 0.00 | 5.00       | 0.07  |      | 11.30      | 0.96  | 0.92 | 2.40       | 0.78  | 0.00 | 1.50       | 0.15  |      |                   |
|        |  | 0.10  | 0.00 |            | 0.03  | 0.00 |            | 1.70  | 0.30 |            | 0.20  | 0.00 |            | 0.04  | 0.00 |                   |
| 37H3CQ | 2.10   | 0.00  | 0.51 | 5.13       | 0.34  | 0.23 | 10.01      | 0.23  | 0.72 | 2.31       | 0.44  | 0.64 | 1.54       | 0.32  | 0.66 |                   |
|        |  | 0.00  | 0.06 |            | 0.16  | 0.06 |            | 0.41  | 0.23 |            | 0.11  | 0.08 |            | 0.08  | 0.09 |                   |
| LM4ZL8 | 2.23   | 0.47  | 0.48 | 5.57       | 1.23  | 0.22 | 1.07       | -4.83 | 0.18 | 2.20       | 0.00  | 0.78 | 1.57       | 0.40  | 0.40 |                   |
|        |  | 0.13  | 0.06 |            | 0.60  | 0.06 |            | -8.53 | 0.06 |            | 0.00  | 0.10 |            | 0.11  | 0.06 |                   |
| F92H9C | 2.88   | 2.79  | 0.87 | 4.19       | -1.59 | 0.41 | 6.24       | -1.90 | 1.18 | 2.23       | 0.12  | 1.48 | 1.27       | -0.70 | 1.01 |                   |
|        |  | 0.78  | 0.10 |            | -0.77 | 0.11 |            | -3.36 | 0.38 |            | 0.03  | 0.19 |            | -0.19 | 0.14 |                   |
| XWTMKR | 2.30   | 0.71  | 1.16 | 5.16       | 0.39  | 0.43 | 10.32      | 0.41  | 0.05 | 2.44       | 0.93  | 0.74 | 1.54       | 0.29  | 0.76 |                   |
|        |  | 0.20  | 0.14 |            | 0.19  | 0.11 |            | 0.72  | 0.02 |            | 0.24  | 0.10 |            | 0.08  | 0.11 |                   |
| DFA3JC | 2.02   | -0.31 | 0.78 | 4.86       | -0.23 | 0.88 | 9.05       | -0.31 | 0.94 | 2.06       | -0.54 | 0.52 | 1.32       | -0.54 | 0.28 |                   |
|        |  | -0.09 | 0.09 |            | -0.11 | 0.23 |            | -0.55 | 0.30 |            | -0.14 | 0.07 |            | -0.14 | 0.04 |                   |
| YKBCLZ | 1.91   | -0.68 | 0.05 | 4.63       | -0.69 | 0.27 | 9.69       | 0.05  | 0.53 | 2.16       | -0.14 | 0.40 | 1.42       | -0.14 | 0.24 |                   |
|        |  | -0.19 | 0.01 |            | -0.34 | 0.07 |            | 0.09  | 0.17 |            | -0.04 | 0.05 |            | -0.04 | 0.04 |                   |
| RMZ998 | 2.00   | -0.37 |      | 5.67       | 1.44  | 2.21 | 11.00      | 0.79  |      | 3.00       | 3.14  |      | 1.67       | 0.78  | 4.01 |                   |
|        |  | -0.10 | 0.00 |            | 0.70  | 0.58 |            | 1.40  | 0.00 |            | 0.80  | 0.00 |            | 0.21  | 0.58 |                   |
| T9EFX6 | 1.58   | -1.86 | 1.54 | 4.84       | -0.26 | 0.93 | 9.20       | -0.23 | 1.54 | 1.94       | -1.01 | 0.88 | 1.14       | -1.20 | 0.45 |                   |
|        |  | -0.52 | 0.18 |            | -0.13 | 0.24 |            | -0.40 | 0.50 |            | -0.26 | 0.11 |            | -0.32 | 0.07 |                   |
| LZMPAC | 1.94   | -0.57 | 0.32 | 4.93       | -0.08 | 0.46 | 9.63       | 0.02  | 0.40 | 2.17       | -0.10 | 0.16 | 1.49       | 0.13  | 0.52 |                   |
|        |  | -0.16 | 0.04 |            | -0.04 | 0.12 |            | 0.03  | 0.13 |            | -0.03 | 0.02 |            | 0.03  | 0.08 |                   |
| YPKQ4Y | 1.61   | -1.77 | 0.00 | 4.15       | -1.68 | 0.00 | 8.62       | -0.55 | 0.00 | 1.72       | -1.88 | 0.00 | 1.16       | -1.13 | 0.00 |                   |
|        |  | -0.49 | 0.00 |            | -0.82 | 0.00 |            | -0.98 | 0.00 |            | -0.48 | 0.00 |            | -0.30 | 0.00 |                   |
| 738BNU | 4.87   | 9.92  | 1.48 | 11.65      | 13.72 | 1.43 | 23.88      | 8.08  | 1.15 | 5.23       | 11.88 | 0.81 | 3.29       | 6.91  | 1.76 |                   |
|        |  | 2.77  | 0.18 |            | 6.68  | 0.37 |            | 14.28 | 0.37 |            | 3.03  | 0.10 |            | 1.83  | 0.25 |                   |
| L2J8CD | 1.93   | -0.61 | 0.48 | 4.53       | -0.89 | 0.44 | 9.27       | -0.19 | 0.18 | 1.97       | -0.92 | 0.45 | 1.33       | -0.48 | 0.40 |                   |
|        |  | -0.17 | 0.06 |            | -0.43 | 0.12 |            | -0.33 | 0.06 |            | -0.23 | 0.06 |            | -0.13 | 0.06 |                   |
| CJDKVM | 1.89   | -0.77 | 0.00 | 4.29       | -1.40 | 0.02 | 8.85       | -0.43 | 0.01 | 1.90       | -1.16 | 0.05 | 1.27       | -0.72 | 0.01 |                   |
|        |  | -0.21 | 0.00 |            | -0.68 | 0.01 |            | -0.75 | 0.00 |            | -0.30 | 0.01 |            | -0.19 | 0.00 |                   |
| 79D4JP | 2.18   | 0.29  | 0.93 | 4.20       | -1.57 | 0.88 | 7.72       | -1.06 | 0.26 | 2.22       | 0.08  | 2.65 | 1.48       | 0.06  | 0.22 |                   |
|        |  | 0.08  | 0.11 |            | -0.77 | 0.23 |            | -1.88 | 0.09 |            | 0.02  | 0.34 |            | 0.02  | 0.03 |                   |
| 2WG8UU | 2.17   | 0.23  | 2.93 | 5.67       | 1.44  | 0.22 | 10.47      | 0.49  | 1.08 | 2.40       | 0.78  | 2.07 | 1.10       | -1.36 | 1.20 |                   |
|        |  | 0.06  | 0.35 |            | 0.70  | 0.06 |            | 0.87  | 0.35 |            | 0.20  | 0.26 |            | -0.36 | 0.17 |                   |
| CPEWRJ | 1.98   | -0.44 | 1.21 | 5.11       | 0.30  | 2.47 | 9.30       | -0.17 | 0.37 | 1.96       | -0.96 | 0.27 | 1.20       | -1.00 | 0.09 |                   |
|        |  | -0.12 | 0.14 |            | 0.15  | 0.65 |            | -0.30 | 0.12 |            | -0.24 | 0.03 |            | -0.26 | 0.01 |                   |
| XHNEVW | 2.14   | 0.14  | 0.38 | 5.27       | 0.63  | 0.41 | 11.34      | 0.98  | 0.64 | 2.41       | 0.81  | 0.10 | 1.54       | 0.29  | 0.23 |                   |
|        |  | 0.04  | 0.05 |            | 0.31  | 0.11 |            | 1.74  | 0.21 |            | 0.21  | 0.01 |            | 0.08  | 0.03 |                   |
| 49YVGP | 1.77   | -1.20 | 0.48 | 4.97       | 0.00  | 0.58 | 9.57       | -0.02 | 0.94 | 2.20       | 0.00  | 1.56 | 1.23       | -0.86 | 1.06 |                   |
|        |  | -0.34 | 0.06 |            | 0.00  | 0.15 |            | -0.03 | 0.31 |            | 0.00  | 0.20 |            | -0.23 | 0.15 |                   |



## ALP Program - Participant Web Summary Report - Cycle 29

|                          | 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>LVRZT6</b>            | <b>1.90</b>        | -0.73   | 1.67    | <b>4.90</b>        | -0.14   | 2.33    | <b>9.60</b>        | 0.00    | 2.41    | <b>2.30</b>        | 0.39    | 0.78    | <b>1.53</b>        | 0.28    | 0.80    |
|                          |                    | -0.20   | 0.20    |                    | -0.07   | 0.61    |                    | 0.00    | 0.78    |                    | 0.10    | 0.10    |                    | 0.07    | 0.12    |
| <b>7CWYLG</b>            | <b>2.11</b>        | 0.02    | 1.36    | <b>5.42</b>        | 0.92    | 0.66    | <b>11.10</b>       | 0.85    | 1.71    | <b>2.13</b>        | -0.27   | 1.41    | <b>0.99</b>        | -1.79   | 0.16    |
|                          |                    | 0.00    | 0.16    |                    | 0.45    | 0.17    |                    | 1.50    | 0.56    |                    | -0.07   | 0.18    |                    | -0.47   | 0.02    |
| <b>DM76CB</b>            | <b>2.25</b>        | 0.54    | 0.82    | <b>4.98</b>        | 0.03    | 1.19    | <b>10.47</b>       | 0.49    | 1.69    | <b>2.37</b>        | 0.66    | 0.94    | <b>2.15</b>        | 2.59    | 0.69    |
|                          |                    | 0.15    | 0.10    |                    | 0.01    | 0.31    |                    | 0.87    | 0.55    |                    | 0.17    | 0.12    |                    | 0.69    | 0.10    |
| <b>DURWNB</b>            | <b>2.14</b>        | 0.14    | 0.14    | <b>4.89</b>        | -0.15   | 0.73    | <b>9.11</b>        | -0.28   | 1.30    | <b>2.15</b>        | -0.21   | 0.61    | <b>1.46</b>        | 0.00    | 0.07    |
|                          |                    | 0.04    | 0.02    |                    | -0.07   | 0.19    |                    | -0.49   | 0.42    |                    | -0.05   | 0.08    |                    | 0.00    | 0.01    |
| <b>Grand Median</b>      |                    | 2.10    |         |                    | 4.97    |         |                    | 9.60    |         |                    | 2.20    |         |                    | 1.46    |         |
| <b>Median Abs Dev</b>    |                    | 0.15    |         |                    | 0.19    |         |                    | 0.72    |         |                    | 0.14    |         |                    | 0.13    |         |
| <b>Avg Within Lab SD</b> |                    | 0.12    |         |                    | 0.26    |         |                    | 0.32    |         |                    | 0.13    |         |                    | 0.14    |         |
| <b>Labs Included</b>     |                    | 23      |         |                    | 23      |         |                    | 23      |         |                    | 23      |         |                    | 23      |         |
| <b>Labs Reporting</b>    |                    | 23      |         |                    | 23      |         |                    | 23      |         |                    | 23      |         |                    | 23      |         |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 166) | in the Mehlich-3 Multi-Element Property Groups |       |     |              |       |      |             |      |     |             |       |     |             |      |     | Data units: mg/kg |
|---------------------------------|--|-------|-----|--------------|-------|------|-------------|------|-----|-------------|-------|-----|-------------|------|-----|-------------------|
|                                 | SRSSRS1601                                     |       |     | SRSSRS1602   |       |      | SRSSRS1603  |      |     | SRSSRS1604  |       |     | SRSSRS1605  |      |     |                   |
| <b>HRQGNA</b>                   | <b>194.8</b>                                   | 0.3   | 0.5 | <b>136.2</b> | 0.2   | 0.5  | <b>27.7</b> | 0.2  | 0.8 | <b>45.8</b> | -0.1  | 0.1 | <b>21.6</b> | 0.2  | 0.4 |                   |
|                                 |  | 12.1  | 3.7 |              | 3.7   | 3.0  |             | 0.9  | 0.9 |             | -0.6  | 0.2 |             | 1.0  | 0.4 |                   |
| <b>GBLMGA</b>                   | <b>185.7</b>                                   | 0.1   | 0.4 | <b>139.7</b> | 0.3   | 0.5  | <b>31.0</b> | 0.9  | 0.9 | <b>49.0</b> | 0.3   | 0.8 | <b>19.3</b> | -0.3 | 0.5 |                   |
|                                 |  | 3.0   | 2.9 |              | 7.2   | 2.9  |             | 4.2  | 1.0 |             | 2.7   | 1.7 |             | -1.3 | 0.6 |                   |
| <b>37H3CQ</b>                   | <b>206.2</b>                                   | 0.6   | 0.1 | <b>149.3</b> | 0.8   | 0.4  | <b>34.8</b> | 1.7  | 0.1 | <b>54.5</b> | 0.9   | 0.6 | <b>27.1</b> | 1.6  | 1.1 |                   |
|                                 |  | 23.6  | 0.7 |              | 16.8  | 2.4  |             | 8.0  | 0.2 |             | 8.2   | 1.2 |             | 6.4  | 1.3 |                   |
| <b>LM4ZL8</b>                   | <b>169.3</b>                                   | -0.4  | 0.5 | <b>127.7</b> | -0.2  | 0.5  | <b>32.0</b> | 1.1  | 0.9 | <b>44.0</b> | -0.3  | 1.0 | <b>20.7</b> | 0.0  | 0.5 |                   |
|                                 |  | -13.3 | 4.0 |              | -4.8  | 3.1  |             | 5.2  | 1.0 |             | -2.3  | 2.0 |             | 0.0  | 0.6 |                   |
| <b>F92H9C</b>                   | <b>168.0</b>                                   | -0.4  | 0.8 | <b>118.5</b> | -0.7  | 0.8  | <b>24.6</b> | -0.5 | 0.6 | <b>41.9</b> | -0.5  | 0.7 | <b>18.0</b> | -0.7 | 0.9 |                   |
|                                 |  | -14.7 | 6.2 |              | -14.0 | 4.7  |             | -2.2 | 0.7 |             | -4.4  | 1.5 |             | -2.6 | 1.1 |                   |
| <b>XWTMKR</b>                   | <b>207.0</b>                                   | 0.7   | 0.3 | <b>142.1</b> | 0.5   | 0.0  | <b>24.0</b> | -0.6 | 0.6 | <b>54.3</b> | 0.9   | 0.1 | <b>23.5</b> | 0.7  | 0.4 |                   |
|                                 |  | 24.3  | 2.2 |              | 9.6   | 0.2  |             | -2.8 | 0.7 |             | 8.0   | 0.2 |             | 2.9  | 0.5 |                   |
| <b>DFA3JC</b>                   | <b>185.0</b>                                   | 0.1   | 0.6 | <b>135.3</b> | 0.1   | 0.3  | <b>26.0</b> | -0.2 | 0.9 | <b>46.3</b> | 0.0   | 0.7 | <b>19.4</b> | -0.3 | 0.4 |                   |
|                                 |  | 2.4   | 4.4 |              | 2.9   | 1.5  |             | -0.8 | 1.0 |             | 0.0   | 1.5 |             | -1.3 | 0.4 |                   |
| <b>YKBCLZ</b>                   | <b>182.6</b>                                   | 0.0   | 0.4 | <b>123.5</b> | -0.4  | 0.3  | <b>22.8</b> | -0.8 | 0.2 | <b>47.8</b> | 0.2   | 0.3 | <b>19.7</b> | -0.2 | 0.1 |                   |
|                                 |  | 0.0   | 2.7 |              | -9.0  | 1.9  |             | -4.0 | 0.2 |             | 1.5   | 0.7 |             | -1.0 | 0.1 |                   |
| <b>RMZ998</b>                   | <b>173.3</b>                                   | -0.3  | 1.0 | <b>134.3</b> | 0.1   | 0.5  | <b>28.0</b> | 0.2  |     | <b>51.0</b> | 0.5   | 0.5 | <b>21.0</b> | 0.1  | 3.0 |                   |
|                                 |  | -9.3  | 7.6 |              | 1.9   | 2.9  |             | 1.2  | 0.0 |             | 4.7   | 1.0 |             | 0.3  | 3.5 |                   |
| <b>T9EFX6</b>                   | <b>142.3</b>                                   | -1.1  | 0.4 | <b>136.4</b> | 0.2   | 0.1  | <b>31.2</b> | 0.9  | 0.4 | <b>46.3</b> | 0.0   | 1.5 | <b>14.9</b> | -1.5 | 0.4 |                   |
|                                 |  | -40.3 | 3.2 |              | 3.9   | 0.5  |             | 4.4  | 0.5 |             | -0.1  | 3.2 |             | -5.8 | 0.4 |                   |
| <b>LZMPAC</b>                   | <b>172.7</b>                                   | -0.3  | 0.4 | <b>127.0</b> | -0.3  |      | <b>26.8</b> | 0.0  | 0.3 | <b>44.9</b> | -0.2  | 0.5 | <b>20.1</b> | -0.1 | 0.2 |                   |
|                                 |  | -10.0 | 3.1 |              | -5.5  | 0.0  |             | -0.1 | 0.3 |             | -1.4  | 1.0 |             | -0.5 | 0.3 |                   |
| <b>YPKQ4Y</b>                   | <b>120.2</b>                                   | -1.7  | 0.0 | <b>93.3</b>  | -1.8  | 0.0  | <b>24.8</b> | -0.4 | 0.0 | <b>32.5</b> | -1.6  | 0.0 | <b>16.6</b> | -1.0 | 0.0 |                   |
|                                 |  | -62.4 | 0.0 |              | -39.1 | 0.0  |             | -2.1 | 0.0 |             | -13.8 | 0.0 |             | -4.0 | 0.0 |                   |
| <b>738BNU</b>                   | <b>242.1</b>                                   | 1.6   | 0.1 | <b>161.8</b> | 1.4   | 0.9  | <b>35.3</b> | 1.8  | 0.2 | <b>62.4</b> | 1.8   | 0.3 | <b>25.9</b> | 1.3  | 0.7 |                   |
|                                 |  | 59.4  | 0.4 |              | 29.3  | 4.9  |             | 8.4  | 0.3 |             | 16.0  | 0.6 |             | 5.2  | 0.8 |                   |
| <b>L2J8CD</b>                   | <b>151.0</b>                                   | -0.9  | 0.5 | <b>109.0</b> | -1.1  | 0.5  | <b>20.7</b> | -1.3 | 0.5 | <b>43.7</b> | -0.3  | 0.3 | <b>20.1</b> | -0.2 | 0.3 |                   |
|                                 |  | -31.6 | 3.5 |              | -23.5 | 2.6  |             | -6.2 | 0.6 |             | -2.7  | 0.6 |             | -0.6 | 0.4 |                   |
| <b>CJDKVM</b>                   | <b>163.3</b>                                   | -0.5  | 0.1 | <b>111.7</b> | -1.0  | 0.3  | <b>23.0</b> | -0.8 |     | <b>42.2</b> | -0.5  | 0.1 | <b>17.5</b> | -0.8 |     |                   |
|                                 |  | -19.3 | 0.6 |              | -20.8 | 1.5  |             | -3.8 | 0.0 |             | -4.1  | 0.2 |             | -3.2 | 0.0 |                   |
| <b>79D4JP</b>                   | <b>186.3</b>                                   | 0.1   | 0.4 | <b>132.5</b> | 0.0   | 0.6  | <b>24.4</b> | -0.5 | 0.8 | <b>41.4</b> | -0.6  | 1.2 | <b>22.9</b> | 0.6  | 0.7 |                   |
|                                 |  | 3.6   | 3.4 |              | 0.0   | 3.7  |             | -2.5 | 1.0 |             | -5.0  | 2.4 |             | 2.3  | 0.8 |                   |
| <b>2WG8UU</b>                   | <b>237.0</b>                                   | 1.5   | 1.2 | <b>171.7</b> | 1.8   | 1.4  | <b>26.3</b> | -0.1 | 0.5 | <b>69.7</b> | 2.7   | 1.1 | <b>22.0</b> | 0.3  | 0.9 |                   |
|                                 |  | 54.4  | 8.9 |              | 39.2  | 8.3  |             | -0.5 | 0.6 |             | 23.3  | 2.3 |             | 1.3  | 1.0 |                   |
| <b>XHNEVW</b>                   | <b>228.6</b>                                   | 1.3   | 0.1 | <b>154.7</b> | 1.0   | 1.2  | <b>29.5</b> | 0.6  | 0.4 | <b>62.3</b> | 1.8   | 0.3 | <b>24.3</b> | 0.9  | 1.3 |                   |
|                                 |  | 46.0  | 0.8 |              | 22.3  | 6.9  |             | 2.7  | 0.4 |             | 16.0  | 0.6 |             | 3.7  | 1.5 |                   |
| <b>49YVGP</b>                   | <b>169.7</b>                                   | -0.4  | 0.6 | <b>125.3</b> | -0.3  | 1.0  | <b>27.7</b> | 0.2  | 1.8 | <b>46.3</b> | 0.0   | 1.6 | <b>18.7</b> | -0.5 | 1.0 |                   |
|                                 |  | -13.0 | 4.7 |              | -7.1  | 6.0  |             | 0.8  | 2.1 |             | 0.0   | 3.2 |             | -2.0 | 1.2 |                   |
| <b>LVRZT6</b>                   | <b>123.8</b>                                   | -1.6  | 1.3 | <b>97.5</b>  | -1.6  | 1.8  | <b>29.5</b> | 0.6  | 0.3 | <b>43.0</b> | -0.4  | 2.0 | <b>24.0</b> | 0.8  | 1.5 |                   |
|                                 |  | -58.9 | 9.8 |              | -35.0 | 10.1 |             | 2.6  | 0.3 |             | -3.4  | 4.1 |             | 3.3  | 1.7 |                   |



## ALP Program - Participant Web Summary Report - Cycle 29

|                          | 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>7CWYLG</b>            | <b>135.7</b>       | -1.3    | 2.8     | <b>100.7</b>       | -1.5    | 2.2     | <b>24.0</b>        | -0.6    | 1.5     | <b>40.3</b>        | -0.7    | 1.5     | <b>15.0</b>        | -1.4    | 0.9     |
|                          |                    | -47.0   | 21.0    |                    | -31.8   | 12.7    |                    | -2.8    | 1.7     |                    | -6.0    | 3.1     |                    | -5.7    | 1.0     |
| <b>DM76CB</b>            | <b>199.5</b>       | 0.5     | 2.8     | <b>129.6</b>       | -0.1    | 2.6     | <b>34.6</b>        | 1.6     | 3.4     | <b>57.2</b>        | 1.2     | 2.4     | <b>27.3</b>        | 1.6     | 1.9     |
|                          |                    | 16.8    | 21.3    |                    | -2.8    | 15.0    |                    | 7.7     | 3.9     |                    | 10.9    | 4.9     |                    | 6.6     | 2.2     |
| <b>DURWNB</b>            | <b>185.4</b>       | 0.1     | 0.3     | <b>133.4</b>       | 0.0     | 0.2     | <b>26.8</b>        | 0.0     | 0.4     | <b>46.4</b>        | 0.0     | 0.2     | <b>21.7</b>        | 0.3     | 0.3     |
|                          |                    | 2.7     | 2.5     |                    | 0.9     | 1.3     |                    | 0.0     | 0.5     |                    | 0.0     | 0.4     |                    | 1.0     | 0.3     |
| <b>Grand Median</b>      |                    | 182.6   |         |                    | 132.5   |         |                    | 26.8    |         |                    | 46.3    |         |                    | 20.7    |         |
| <b>Median Abs Dev</b>    |                    | 16.8    |         |                    | 9.0     |         |                    | 2.7     |         |                    | 4.1     |         |                    | 2.3     |         |
| <b>Avg Within Lab SD</b> |                    | 7.5     |         |                    | 5.7     |         |                    | 1.1     |         |                    | 2.1     |         |                    | 1.2     |         |
| <b>Labs Included</b>     |                    | 23      |         |                    | 23      |         |                    | 23      |         |                    | 23      |         |                    | 23      |         |
| <b>Labs Reporting</b>    |                    | 23      |         |                    | 23      |         |                    | 23      |         |                    | 23      |         |                    | 23      |         |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 167) | in the Mehlich-3 Multi-Element Property Groups |       |      |            |       |      |            |       |     |            |       |      |            |       |      | Data units: mg/kg |
|---------------------------------|--|-------|------|------------|-------|------|------------|-------|-----|------------|-------|------|------------|-------|------|-------------------|
|                                 | SRSSRS1601                                     |       |      | SRSSRS1602 |       |      | SRSSRS1603 |       |     | SRSSRS1604 |       |      | SRSSRS1605 |       |      |                   |
| HRQGNA                          | 56.4   | 0.1   | 0.5  | 144.1      | 0.6   | 0.7  | 116.9      | 0.6   | 0.9 | 120.8      | 0.6   | 0.4  | 106.5      | 0.7   | 0.2  |                   |
|                                 |  | 1.4   | 1.6  |            | 11.9  | 3.6  |            | 9.3   | 3.0 |            | 12.0  | 5.9  |            | 14.2  | 1.9  |                   |
| GBLMGA                          | 58.7   | 0.4   | 0.2  | 135.7      | 0.2   | 0.6  | 128.3      | 1.3   | 0.5 | 112.7      | 0.2   | 0.1  | 93.3       | 0.1   | 0.4  |                   |
|                                 |  | 3.7   | 0.6  |            | 3.4   | 3.1  |            | 20.7  | 1.5 |            | 3.8   | 1.5  |            | 1.0   | 4.2  |                   |
| LM4ZL8                          | 60.7   | 0.5   | 0.4  | 135.0      | 0.1   | 0.5  | 116.3      | 0.5   | 0.6 | 107.3      | -0.1  | 0.2  | 92.3       | 0.0   | 0.1  |                   |
|                                 |  | 5.7   | 1.5  |            | 2.8   | 2.6  |            | 8.7   | 2.1 |            | -1.5  | 2.5  |            | 0.0   | 1.5  |                   |
| F92H9C                          | 63.2   | 0.8   | 0.5  | 128.7      | -0.2  | 0.4  | 119.8      | 0.8   | 0.2 | 105.3      | -0.2  | 0.1  | 92.1       | 0.0   | 0.4  |                   |
|                                 |  | 8.3   | 1.9  |            | -3.6  | 2.3  |            | 12.2  | 0.6 |            | -3.5  | 1.8  |            | -0.2  | 4.7  |                   |
| XWTMKR                          | 61.6   | 0.6   | 0.0  | 142.2      | 0.5   | 0.1  | 103.5      | -0.3  | 0.3 | 112.1      | 0.2   | 0.0  | 98.3       | 0.3   | 0.0  |                   |
|                                 |  | 6.7   | 0.1  |            | 9.9   | 0.3  |            | -4.1  | 0.8 |            | 3.3   | 0.4  |            | 5.9   | 0.5  |                   |
| DFA3JC                          | 52.2   | -0.3  | 0.7  | 129.7      | -0.1  | 0.4  | 107.3      | 0.0   | 0.7 | 95.0       | -0.7  | 0.3  | 90.7       | -0.1  | 0.2  |                   |
|                                 |  | -2.8  | 2.4  |            | -2.6  | 2.1  |            | -0.3  | 2.3 |            | -13.8 | 3.5  |            | -1.7  | 2.1  |                   |
| YKBC LZ                         | 48.6   | -0.6  | 0.3  | 107.8      | -1.1  | 0.2  | 88.8       | -1.2  | 0.3 | 90.8       | -0.9  | 0.1  | 84.8       | -0.4  | 0.0  |                   |
|                                 |  | -6.4  | 1.0  |            | -24.4 | 1.1  |            | -18.8 | 0.9 |            | -18.1 | 0.8  |            | -7.6  | 0.6  |                   |
| RMZ998                          | 68.3   | 1.3   | 3.7  | 150.0      | 0.8   | 0.6  | 119.3      | 0.7   | 0.6 | 159.3      | 2.5   | 4.4  | 119.0      | 1.4   | 4.5  |                   |
|                                 |  | 13.4  | 12.9 |            | 17.8  | 3.0  |            | 11.7  | 2.1 |            | 50.5  | 59.5 |            | 26.7  | 52.0 |                   |
| T9EFX6                          | 57.7   | 0.3   | 0.5  | 169.8      | 1.7   | 0.3  | 141.6      | 2.1   | 0.9 | 119.4      | 0.5   | 0.1  | 62.1       | -1.6  | 0.1  |                   |
|                                 |  | 2.7   | 1.9  |            | 37.6  | 1.5  |            | 33.9  | 3.0 |            | 10.6  | 1.1  |            | -30.2 | 1.0  |                   |
| LZMPAC                          | 45.2   | -0.9  | 0.3  | 119.7      | -0.6  | 1.0  | 98.3       | -0.6  | 0.3 | 93.3       | -0.8  | 0.2  | 83.3       | -0.5  | 0.0  |                   |
|                                 |  | -9.7  | 0.9  |            | -12.6 | 5.5  |            | -9.3  | 1.0 |            | -15.5 | 2.2  |            | -9.0  | 0.5  |                   |
| YPKQ4Y                          | 38.9   | -1.5  | 0.0  | 99.0       | -1.5  | 0.0  | 98.4       | -0.6  | 0.0 | 80.1       | -1.4  | 0.0  | 70.2       | -1.2  | 0.0  |                   |
|                                 |  | -16.1 | 0.0  |            | -33.2 | 0.0  |            | -9.3  | 0.0 |            | -28.7 | 0.0  |            | -22.2 | 0.0  |                   |
| 738BNU                          | 75.7   | 2.0   | 0.2  | 156.3      | 1.1   | 0.5  | 123.1      | 1.0   | 0.1 | 123.5      | 0.7   | 0.1  | 103.4      | 0.6   | 0.3  |                   |
|                                 |  | 20.7  | 0.8  |            | 24.1  | 2.7  |            | 15.4  | 0.3 |            | 14.7  | 1.1  |            | 11.0  | 3.0  |                   |
| L2J8CD                          | 53.7   | -0.1  | 0.2  | 131.3      | 0.0   | 0.9  | 104.0      | -0.2  | 0.5 | 107.0      | -0.1  | 0.1  | 99.7       | 0.4   | 0.1  |                   |
|                                 |  | -1.3  | 0.6  |            | -0.9  | 4.7  |            | -3.6  | 1.7 |            | -1.8  | 2.0  |            | 7.3   | 1.5  |                   |
| CJDKVM                          | 46.8   | -0.8  | 0.0  | 107.3      | -1.2  | 0.1  | 106.3      | -0.1  | 0.2 | 86.5       | -1.1  | 0.0  | 77.2       | -0.8  | 0.0  |                   |
|                                 |  | -8.2  | 0.0  |            | -24.9 | 0.6  |            | -1.3  | 0.6 |            | -22.3 | 0.5  |            | -15.1 | 0.1  |                   |
| 79D4JP                          | 53.5   | -0.1  | 1.2  | 128.9      | -0.2  | 0.1  | 104.6      | -0.2  | 0.3 | 122.3      | 0.7   | 0.2  | 101.9      | 0.5   | 0.2  |                   |
|                                 |  | -1.4  | 4.1  |            | -3.4  | 0.7  |            | -3.1  | 1.1 |            | 13.5  | 2.9  |            | 9.6   | 2.9  |                   |
| 2WG8UU                          | 71.0   | 1.5   | 1.0  | 167.3      | 1.6   | 0.2  | 100.0      | -0.5  | 1.1 | 142.3      | 1.6   | 0.3  | 92.3       | 0.0   | 0.2  |                   |
|                                 |  | 16.0  | 3.6  |            | 35.1  | 1.2  |            | -7.6  | 3.6 |            | 33.5  | 4.5  |            | 0.0   | 2.3  |                   |
| XHNEVW                          | 66.4   | 1.1   | 0.1  | 148.3      | 0.7   | 1.3  | 114.0      | 0.4   | 0.1 | 122.2      | 0.7   | 0.1  | 98.3       | 0.3   | 0.4  |                   |
|                                 |  | 11.4  | 0.4  |            | 16.0  | 6.8  |            | 6.4   | 0.4 |            | 13.4  | 1.7  |            | 5.9   | 5.1  |                   |
| 49YVGP                          | 52.0   | -0.3  | 0.5  | 140.0      | 0.4   | 0.9  | 120.7      | 0.8   | 2.1 | 110.3      | 0.1   | 0.4  | 20.3       | -3.8  | 0.0  |                   |
|                                 |  | -3.0  | 1.7  |            | 7.8   | 5.0  |            | 13.0  | 6.7 |            | 1.5   | 4.9  |            | -72.0 | 0.6  |                   |
| LVRZT6                          | 46.0   | -0.9  | 0.2  | 113.6      | -0.9  | 1.4  | 114.4      | 0.4   | 0.9 | 115.7      | 0.3   | 0.4  | 100.8      | 0.4   | 0.5  |                   |
|                                 |  | -9.0  | 0.6  |            | -18.6 | 7.7  |            | 6.8   | 2.9 |            | 6.9   | 5.9  |            | 8.5   | 5.8  |                   |
| 7CWYLG                          | 52.7   | -0.2  | 1.8  | 112.7      | -0.9  | 2.6  | 73.7       | -2.1  | 1.1 | 104.3      | -0.2  | 0.8  | 62.0       | -1.6  | 0.3  |                   |
|                                 |  | -2.3  | 6.1  |            | -19.6 | 13.8 |            | -34.0 | 3.5 |            | -4.5  | 10.3 |            | -30.3 | 3.6  |                   |



## ALP Program - Participant Web Summary Report - Cycle 29

|                          | 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>DM76CB</b>            | <b>56.3</b>        | 0.1     | 0.9     | <b>133.1</b>       | 0.0     | 2.4     | <b>108.0</b>       | 0.0     | 3.2     | <b>95.0</b>        | -0.7    | 0.9     | <b>90.6</b>        | -0.1    | 1.0     |
|                          |                    | 1.3     | 3.2     |                    | 0.9     | 13.0    |                    | 0.3     | 10.4    |                    | -13.9   | 12.7    |                    | -1.8    | 12.2    |
| <b>DURWNB</b>            | <b>52.0</b>        | -0.3    | 0.1     | <b>123.5</b>       | -0.4    | 0.8     | <b>102.6</b>       | -0.3    | 0.1     | <b>91.9</b>        | -0.8    | 0.1     | <b>93.8</b>        | 0.1     | 0.1     |
|                          |                    | -3.0    | 0.2     |                    | -8.7    | 4.3     |                    | -5.0    | 0.3     |                    | -16.9   | 1.2     |                    | 1.5     | 0.7     |
| <b>Grand Median</b>      |                    | 55.0    |         |                    | 132.2   |         |                    | 107.6   |         |                    | 108.8   |         |                    | 92.3    |         |
| <b>Median Abs Dev</b>    |                    | 6.0     |         |                    | 12.2    |         |                    | 9.0     |         |                    | 13.4    |         |                    | 8.0     |         |
| <b>Avg Within Lab SD</b> |                    | 3.5     |         |                    | 5.3     |         |                    | 3.2     |         |                    | 13.4    |         |                    | 11.7    |         |
| <b>Labs Included</b>     |                    | 22      |         |                    | 22      |         |                    | 22      |         |                    | 22      |         |                    | 22      |         |
| <b>Labs Reporting</b>    |                    | 22      |         |                    | 22      |         |                    | 22      |         |                    | 22      |         |                    | 22      |         |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 168) |             |                         | in the Mehlich-3 Multi-Element Property Groups |             |                         |                      |             |                         |                      |             |                         |                      |             |                         | Data units: mg/kg    |  |
|---------------------------------|-------------|-------------------------|--|-------------|-------------------------|----------------------|-------------|-------------------------|----------------------|-------------|-------------------------|----------------------|-------------|-------------------------|----------------------|--|
| SRSSRS1601                      |             |                         | SRSSRS1602                                     |             |                         | SRSSRS1603           |             |                         | SRSSRS1604           |             |                         | SRSSRS1605           |             |                         |                      |  |
| <b>HRQGNA</b>                   | <b>2.26</b> | -0.14<br>-0.04<br>0.37  | 0.12<br>0.02<br>0.78                           | <b>3.08</b> | -0.22<br>-0.09<br>0.64  | 0.28<br>0.05<br>0.34 | <b>7.07</b> | 0.36<br>0.30<br>1.68    | 0.74<br>0.20<br>0.77 | <b>1.82</b> | -1.06<br>-0.28<br>0.01  | 0.26<br>0.04<br>0.00 | <b>0.23</b> | -0.78<br>-0.16<br>0.05  | 0.42<br>0.02<br>0.00 |  |
| <b>GBLMGA</b>                   | <b>2.40</b> | 0.10<br>0.89<br>0.24    | 0.10<br>0.29<br>0.04                           | <b>3.43</b> | 0.27<br>0.99<br>0.41    | 0.06<br>0.33<br>0.06 | <b>8.17</b> | 1.40<br>0.77<br>0.64    | 0.21<br>0.60<br>0.16 | <b>2.10</b> | 0.00<br>0.82<br>0.22    | 0.00<br>0.44<br>0.06 | <b>0.40</b> | 0.01<br>0.42<br>0.09    | 0.00<br>0.94<br>0.03 |  |
| <b>37H3CQ</b>                   | <b>2.54</b> | -0.86<br>-0.23<br>0.36  | 0.45<br>0.06<br>0.80                           | <b>3.10</b> | -0.16<br>-0.07<br>0.03  | 0.60<br>0.10<br>1.09 | <b>7.41</b> | 0.12<br>0.10<br>1.35    | 0.21<br>0.06<br>0.50 | <b>2.31</b> | -0.50<br>-0.13<br>-0.05 | 0.41<br>0.06<br>0.54 | <b>0.48</b> | 0.00<br>0.00<br>-0.22   | 0.27<br>0.01<br>0.84 |  |
| <b>LM4ZL8</b>                   | <b>2.07</b> | 0.10<br>1.12<br>0.30    | 0.10<br>0.55<br>0.07                           | <b>3.18</b> | 0.01<br>0.42<br>0.17    | 0.18<br>0.33<br>0.06 | <b>7.89</b> | 1.12<br>-0.03<br>-0.02  | 0.13<br>1.10<br>0.30 | <b>2.08</b> | -0.01<br>0.73<br>0.19   | 0.08<br>0.45<br>0.06 | <b>0.34</b> | -0.05<br>-0.28<br>-0.06 | 0.03<br>1.57<br>0.06 |  |
| <b>F92H9C</b>                   | <b>2.40</b> | 0.10<br>0.03<br>0.26    | 0.10<br>0.07<br>0.21                           | <b>3.19</b> | 0.05<br>0.02<br>0.02    | 0.70<br>0.12<br>1.02 | <b>6.54</b> | -0.28<br>-0.23<br>-0.38 | 0.59<br>0.16<br>0.06 | <b>2.09</b> | -0.04<br>-0.01<br>0.61  | 0.37<br>0.05<br>0.04 | <b>0.45</b> | 0.28<br>0.06<br>0.00    | 0.99<br>0.04<br>0.00 |  |
| <b>YKBCLZ</b>                   | <b>2.37</b> | 0.07<br>-1.11<br>-0.30  | 0.03<br>0.00<br>0.00                           | <b>3.18</b> | 0.01<br>-0.40<br>-0.17  | 0.17<br>0.00<br>0.00 | <b>6.45</b> | -0.31<br>0.28<br>0.23   | 0.02<br>0.00<br>0.00 | <b>2.26</b> | 0.16<br>2.17<br>0.57    | 0.01<br>4.12<br>0.58 | <b>0.39</b> | 0.00<br>2.89<br>0.61    | 0.00<br>0.00<br>0.00 |  |
| <b>RMZ998</b>                   | <b>2.00</b> | 1.96<br>0.53<br>-0.54   | 3.09<br>0.39<br>1.02                           | <b>3.00</b> | 1.31<br>0.55<br>-0.30   | 2.09<br>0.35<br>0.36 | <b>7.00</b> | 1.97<br>1.64<br>-0.60   | 2.76<br>0.75<br>0.26 | <b>2.67</b> | 0.80<br>0.21<br>0.20    | 0.86<br>0.12<br>0.81 | <b>1.00</b> | 0.47<br>0.10<br>1.61    | 0.99<br>0.04<br>0.72 |  |
| <b>T9EFX6</b>                   | <b>2.83</b> | -0.15<br>0.00<br>17.34  | 0.13<br>0.00<br>1.48                           | <b>3.04</b> | -0.13<br>-0.38<br>-0.16 | 0.06<br>0.00<br>0.00 | <b>6.27</b> | -0.50<br>-0.12<br>-0.10 | 0.07<br>0.00<br>0.00 | <b>2.15</b> | 0.05<br>-0.07<br>-0.02  | 0.11<br>0.00<br>0.00 | <b>0.73</b> | 0.34<br>1.38<br>0.29    | 0.03<br>0.00<br>0.00 |  |
| <b>LZMPAC</b>                   | <b>2.15</b> | 0.00<br>4.70<br>-0.12   | 0.00<br>0.19<br>0.45                           | <b>3.01</b> | -0.16<br>5.10<br>-0.16  | 0.00<br>0.28<br>1.03 | <b>6.67</b> | -0.10<br>10.56<br>-0.04 | 0.00<br>0.11<br>0.21 | <b>2.08</b> | -0.02<br>3.26<br>-0.50  | 0.00<br>0.10<br>0.41 | <b>0.68</b> | 0.42<br>0.93<br>0.44    | 0.00<br>0.12<br>0.42 |  |
| <b>738BNU</b>                   | <b>7.00</b> | -0.03<br>-0.27<br>-0.07 | 0.06<br>0.05<br>0.01                           | <b>3.10</b> | -0.07<br>-0.99<br>-0.41 | 0.17<br>0.03<br>0.01 | <b>6.73</b> | -0.03<br>-0.53<br>-0.44 | 0.06<br>0.06<br>0.02 | <b>1.97</b> | -0.13<br>-1.01<br>-0.26 | 0.06<br>0.04<br>0.01 | <b>0.48</b> | 0.09<br>-0.21<br>-0.05  | 0.02<br>0.00<br>0.00 |  |
| <b>L2J8CD</b>                   | <b>2.27</b> | -0.38<br>-0.10<br>1.72  | 0.16<br>0.02<br>1.81                           | <b>2.84</b> | -0.78<br>-0.32<br>2.08  | 0.23<br>0.04<br>0.69 | <b>6.52</b> | -0.30<br>-0.25<br>0.00  | 0.35<br>0.10<br>0.56 | <b>1.92</b> | -0.69<br>-0.18<br>1.15  | 0.77<br>0.11<br>0.00 | <b>0.25</b> | -0.65<br>-0.14<br>-1.38 | 0.57<br>0.02<br>0.00 |  |
| <b>79D4JP</b>                   | <b>2.20</b> | 0.47<br>0.44<br>0.12    | 0.23<br>0.33<br>0.04                           | <b>4.03</b> | 0.87<br>1.92<br>0.80    | 0.12<br>0.34<br>0.06 | <b>6.77</b> | 0.00<br>2.48<br>2.06    | 0.15<br>0.23<br>0.06 | <b>2.40</b> | 0.30<br>0.00<br>0.00    | 0.00<br>0.25<br>0.03 | <b>0.10</b> | -0.29<br>-1.09<br>-0.23 | 0.00<br>1.39<br>0.05 |  |
| <b>2WG8UU</b>                   | <b>2.77</b> | 0.44<br>0.47<br>2.31    | 0.33<br>0.23<br>0.42                           | <b>3.97</b> | 1.92<br>0.87<br>1.62    | 0.34<br>0.12<br>0.54 | <b>8.82</b> | 2.48<br>0.00<br>1.88    | 0.23<br>0.15<br>0.59 | <b>2.10</b> | 0.00<br>0.30<br>2.12    | 0.03<br>0.00<br>0.13 | <b>0.16</b> | 0.66<br>-0.23<br>0.66   | 0.49<br>0.05<br>0.49 |  |
| <b>CPEWRJ</b>                   | <b>2.42</b> | 0.12<br>2.31<br>0.63    | 0.04<br>0.42<br>0.05                           | <b>3.84</b> | 0.80<br>0.67<br>-1.04   | 0.06<br>0.09<br>0.34 | <b>8.33</b> | 2.06<br>1.57<br>-0.56   | 0.06<br>0.16<br>0.37 | <b>2.65</b> | 0.00<br>0.56<br>-1.01   | 0.03<br>0.02<br>0.41 | <b>0.53</b> | 0.14<br>0.14<br>-0.11   | 0.02<br>0.02<br>1.58 |  |
| <b>XHNEVW</b>                   | <b>2.93</b> | -1.35<br>-0.37          | 0.45<br>0.06                                   | <b>2.73</b> | -1.04<br>-0.43          | 0.34<br>0.06         | <b>6.30</b> | -0.56<br>-0.47          | 0.37<br>0.10         | <b>1.83</b> | -1.01<br>-0.26          | 0.41<br>0.06         | <b>0.37</b> | -0.11<br>-0.02          | 1.58<br>0.06         |  |





## ALP Program - Participant Web Summary Report - Cycle 29

|                          | 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>LVRZT6</b>            | <b>2.27</b>        | -0.12   | 1.97    | <b>3.17</b>        | 0.00    | 3.49    | <b>7.53</b>        | 0.92    | 3.00    | <b>2.17</b>        | 0.26    | 1.09    | <b>0.47</b>        | 0.36    | 1.58    |
|                          |                    | -0.03   | 0.25    |                    | 0.00    | 0.59    |                    | 0.77    | 0.81    |                    | 0.07    | 0.15    |                    | 0.08    | 0.06    |
| <b>7CWYLG</b>            | <b>2.57</b>        | 1.00    | 1.06    | <b>3.59</b>        | 1.02    | 0.63    | <b>6.97</b>        | 0.24    | 0.55    | <b>2.18</b>        | 0.31    | 0.89    | <b>0.32</b>        | -0.32   | 0.32    |
|                          |                    | 0.27    | 0.14    |                    | 0.42    | 0.11    |                    | 0.20    | 0.15    |                    | 0.08    | 0.13    |                    | -0.07   | 0.01    |
| <b>DM76CB</b>            | <b>2.30</b>        | 0.00    | 0.92    | <b>3.02</b>        | -0.36   | 0.52    | <b>6.35</b>        | -0.51   | 0.50    | <b>1.87</b>        | -0.88   | 0.74    | <b>0.69</b>        | 1.42    | 2.86    |
|                          |                    | 0.00    | 0.12    |                    | -0.15   | 0.09    |                    | -0.42   | 0.14    |                    | -0.23   | 0.10    |                    | 0.30    | 0.10    |
| <b>DURWNB</b>            | <b>2.27</b>        | -0.10   | 0.61    | <b>2.91</b>        | -0.61   | 0.12    | <b>6.67</b>        | -0.12   | 1.17    | <b>1.96</b>        | -0.54   | 0.25    | <b>0.29</b>        | -0.49   | 0.57    |
|                          |                    | -0.03   | 0.08    |                    | -0.25   | 0.02    |                    | -0.10   | 0.32    |                    | -0.14   | 0.04    |                    | -0.10   | 0.02    |
| <b>Grand Median</b>      |                    | 2.30    |         |                    | 3.17    |         |                    | 6.77    |         |                    | 2.10    |         |                    | 0.39    |         |
| <b>Median Abs Dev</b>    |                    | 0.10    |         |                    | 0.17    |         |                    | 0.31    |         |                    | 0.16    |         |                    | 0.09    |         |
| <b>Avg Within Lab SD</b> |                    | 0.13    |         |                    | 0.17    |         |                    | 0.27    |         |                    | 0.14    |         |                    | 0.04    |         |
| <b>Labs Included</b>     |                    | 23      |         |                    | 23      |         |                    | 23      |         |                    | 23      |         |                    | 23      |         |
| <b>Labs Reporting</b>    |                    | 23      |         |                    | 23      |         |                    | 23      |         |                    | 23      |         |                    | 23      |         |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 169) |             |                        | in the Mehlich-3 Multi-Element Property Groups |             |                        |            |             |                        |                      |             |                         |                      |             |                        | Data units: mg/kg    |  |  |
|--------------------------------|-------------|------------------------|--|-------------|------------------------|------------|-------------|------------------------|----------------------|-------------|-------------------------|----------------------|-------------|------------------------|----------------------|--|--|
| SRSSRS1601                     |             |                        | SRSSRS1602                                     |             |                        | SRSSRS1603 |             |                        | SRSSRS1604           |             |                         | SRSSRS1605           |             |                        |                      |  |  |
| HRQGNA                         | <b>1.23</b> | -0.01<br>0.00<br>0.03  | 0.25   | <b>1.60</b> | 0.49<br>0.13<br>0.04   | 0.36       | <b>0.60</b> | 0.00<br>0.00<br>3.43   | 0.11<br>0.01<br>3.02 | <b>0.33</b> | -0.20<br>-0.01<br>-0.15 | 0.20<br>0.01<br>1.13 | <b>0.04</b> | -0.89<br>-0.10<br>1.47 | 0.31<br>0.01<br>0.00 |  |  |
| GBLMGA                         | <b>1.50</b> | 1.25<br>0.27<br>-0.57  | 2.50   | <b>1.97</b> | 1.87<br>0.50<br>-0.36  | 1.88       | <b>1.17</b> | 0.57<br>0.02<br>0.40   | 0.15<br>0.40         | <b>0.33</b> | -0.01<br>1.43<br>0.06   | 0.30                 | <b>0.30</b> | 0.16<br>1.23<br>0.81   | 0.00                 |  |  |
| LM4ZL8                         | <b>1.11</b> | -0.12<br>-0.52<br>0.03 | 0.38   | <b>1.37</b> | -0.10<br>-0.97<br>0.82 | 0.03       | <b>0.60</b> | 0.00<br>-0.58<br>0.40  | 0.02<br>0.40         | <b>0.44</b> | 0.09<br>-0.45<br>0.30   | 0.02                 | <b>0.27</b> | 0.13<br>-0.58<br>0.15  | 0.03                 |  |  |
| F92H9C                         | <b>1.12</b> | -0.11<br>1.80<br>0.66  | 0.04   | <b>1.21</b> | -0.26<br>1.08<br>0.74  | 0.10       | <b>0.50</b> | -0.10<br>0.75<br>1.34  | 0.02                 | <b>0.31</b> | -0.03<br>1.56<br>0.47   | 0.02                 | <b>0.08</b> | -0.06<br>0.95<br>0.82  | 0.01                 |  |  |
| XWTMKR                         | <b>1.62</b> | 0.39<br>-0.43<br>0.43  | 0.07   | <b>1.76</b> | 0.29<br>-0.39<br>0.05  | 0.09       | <b>0.72</b> | 0.13<br>-0.18<br>0.41  | 0.07                 | <b>0.45</b> | 0.10<br>0.72<br>0.20    | 0.02                 | <b>0.24</b> | 0.10<br>0.13<br>0.15   | 0.03                 |  |  |
| DFA3JC                         | <b>1.14</b> | -0.09<br>0.39<br>0.11  | 0.05   | <b>1.37</b> | -0.10<br>0.21<br>0.45  | 0.01       | <b>0.57</b> | -0.03<br>0.04<br>0.30  | 0.02                 | <b>0.39</b> | 0.05<br>1.23<br>0.11    | 0.01                 | <b>0.15</b> | 0.01<br>0.00<br>0.00   | 0.01                 |  |  |
| YKBCLZ                         | <b>1.32</b> | 0.09<br>0.01<br>1.09   | 0.01   | <b>1.53</b> | 0.06<br>0.11           | 0.06       | <b>0.60</b> | 0.01<br>0.22<br>1.14   | 0.02                 | <b>0.42</b> | 0.08<br>-0.65<br>0.00   | 0.01                 | <b>0.14</b> | 0.00<br>-0.06<br>1.53  | 0.00                 |  |  |
| RMZ998                         | <b>1.23</b> | 0.00<br>-1.14<br>1.71  | 0.12   | <b>1.50</b> | 0.03<br>-0.49<br>2.16  | 0.00       | <b>0.63</b> | 0.04<br>-0.72<br>0.60  | 0.06                 | <b>0.30</b> | -0.04<br>0.21<br>0.41   | 0.00                 | <b>0.13</b> | -0.01<br>0.49<br>0.40  | 0.06                 |  |  |
| T9EFX6                         | <b>0.99</b> | -0.25<br>0.72<br>0.63  | 0.18   | <b>1.34</b> | -0.13<br>0.30<br>0.28  | 0.26       | <b>0.48</b> | -0.12<br>0.00<br>0.23  | 0.03                 | <b>0.36</b> | 0.01<br>0.06<br>0.49    | 0.02                 | <b>0.19</b> | 0.05<br>1.38<br>2.07   | 0.02                 |  |  |
| LZMPAC                         | <b>1.39</b> | 0.16<br>0.50<br>0.00   | 0.07   | <b>1.55</b> | 0.08<br>-0.11<br>0.00  | 0.03       | <b>0.60</b> | 0.00<br>-0.52<br>0.00  | 0.01                 | <b>0.35</b> | 0.00<br>-0.50<br>0.00   | 0.03                 | <b>0.29</b> | 0.15<br>-0.83<br>0.00  | 0.08                 |  |  |
| YPKQ4Y                         | <b>1.34</b> | 0.11<br>20.24<br>1.05  | 0.00   | <b>1.44</b> | -0.03<br>16.27<br>0.72 | 0.00       | <b>0.51</b> | -0.09<br>16.71<br>2.83 | 0.00                 | <b>0.31</b> | -0.03<br>49.39<br>3.21  | 0.00                 | <b>0.05</b> | -0.09<br>30.11<br>4.90 | 0.00                 |  |  |
| 738BNU                         | <b>5.59</b> | 4.36<br>0.10<br>0.05   | 0.11   | <b>5.78</b> | 4.31<br>-0.45<br>0.00  | 0.09       | <b>3.38</b> | 2.78<br>0.07<br>0.01   | 0.14                 | <b>3.57</b> | 3.23<br>1.06<br>0.01    | 0.16                 | <b>3.41</b> | 3.27<br>0.43<br>0.02   | 0.18                 |  |  |
| CJDKVM                         | <b>1.25</b> | 0.02<br>-0.01<br>0.34  | 0.01   | <b>1.35</b> | -0.12<br>-1.24<br>0.41 | 0.00       | <b>0.61</b> | 0.01<br>-0.18<br>0.60  | 0.00                 | <b>0.41</b> | 0.07<br>-0.81<br>0.98   | 0.00                 | <b>0.19</b> | 0.05<br>-0.74<br>0.26  | 0.00                 |  |  |
| 79D4JP                         | <b>1.23</b> | 0.00<br>-0.30<br>1.09  | 0.04   | <b>1.14</b> | -0.33<br>0.11<br>0.82  | 0.05       | <b>0.57</b> | -0.03<br>-2.98<br>0.00 | 0.03                 | <b>0.29</b> | -0.05<br>-0.65<br>3.39  | 0.05                 | <b>0.06</b> | -0.08<br>-0.37<br>0.00 | 0.01                 |  |  |
| 2WG8UU                         | <b>1.17</b> | -0.07<br>1.79<br>0.20  | 0.12   | <b>1.50</b> | 0.03<br>0.95<br>0.31   | 0.10       | <b>0.10</b> | -0.50<br>0.41<br>0.16  | 0.00                 | <b>0.30</b> | -0.04<br>1.17<br>0.24   | 0.17                 | <b>0.10</b> | -0.04<br>0.08<br>0.01  | 0.00                 |  |  |
| XHNEVW                         | <b>1.62</b> | 0.39<br>-2.00<br>0.06  | 0.02   | <b>1.72</b> | 0.25<br>-1.86<br>0.23  | 0.04       | <b>0.66</b> | 0.07<br>-0.82<br>0.02  | 0.01                 | <b>0.42</b> | 0.08<br>-0.06<br>0.02   | 0.01                 | <b>0.34</b> | 1.15<br>0.13<br>1.90   | 0.07                 |  |  |
| 49YVGP                         | <b>0.80</b> | -0.43<br>0.52<br>2.23  | 0.01   | <b>0.98</b> | -0.49<br>0.67<br>2.66  | 0.03       | <b>0.46</b> | -0.14<br>0.86<br>2.09  | 0.00                 | <b>0.34</b> | 0.00<br>1.13<br>1.77    | 0.00                 | <b>0.27</b> | -0.37<br>-0.04<br>0.08 | 0.07                 |  |  |
| LVRZT6                         | <b>1.34</b> | 0.11<br>-0.09<br>0.05  | 0.24   | <b>1.65</b> | 0.18<br>-0.45<br>0.22  | 0.33       | <b>0.74</b> | 0.14<br>-0.36<br>0.11  | 0.11                 | <b>0.42</b> | 0.07<br>-0.09<br>0.45   | 0.09                 | <b>0.10</b> | -0.04<br>-0.40<br>0.15 | 0.08                 |  |  |
| DURWNB                         | <b>1.21</b> | -0.02<br>0.01          | 0.05   | <b>1.35</b> | -0.12<br>0.03          | 0.22       | <b>0.54</b> | -0.06<br>0.01          | 0.01                 | <b>0.34</b> | -0.01<br>0.02           | 0.02                 | <b>0.10</b> | -0.04<br>0.01          | 0.15                 |  |  |



## ALP Program - Participant Web Summary Report - Cycle 29

|                          | 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>Grand Median</b>      |                    | 1.23    |         |                    | 1.47    |         |                    | 0.60    |         |                    | 0.34    |         |                    | 0.14    |         |
| <b>Median Abs Dev</b>    |                    | 0.11    |         |                    | 0.13    |         |                    | 0.06    |         |                    | 0.04    |         |                    | 0.06    |         |
| <b>Avg Within Lab SD</b> |                    | 0.11    |         |                    | 0.12    |         |                    | 0.05    |         |                    | 0.05    |         |                    | 0.04    |         |
| <b>Labs Included</b>     |                    | 18      |         |                    | 18      |         |                    | 18      |         |                    | 18      |         |                    | 17      |         |
| <b>Labs Reporting</b>    |                    | 18      |         |                    | 18      |         |                    | 18      |         |                    | 18      |         |                    | 17      |         |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 170) | in the Micronutrients Property Groups |       |      |             |       |      |              |       |      |             |       |      |             |       |      | Data units: mg/kg |
|-----------------------------|---------------------------------------|-------|------|-------------|-------|------|--------------|-------|------|-------------|-------|------|-------------|-------|------|-------------------|
|                             | SRSSRS1601                            |       |      | SRSSRS1602  |       |      | SRSSRS1603   |       |      | SRSSRS1604  |       |      | SRSSRS1605  |       |      |                   |
| <b>YAA32W</b>               | <b>0.40</b>                           | -1.06 | 0.28 | <b>1.28</b> | -1.06 | 0.62 | <b>4.11</b>  | -1.07 | 0.25 | <b>0.70</b> | -0.49 | 0.01 | <b>0.39</b> | -0.40 | 0.05 |                   |
|                             |                                       | -0.19 | 0.02 |             | -0.45 | 0.07 |              | -1.35 | 0.11 |             | -0.20 | 0.00 |             | -0.09 | 0.01 |                   |
| <b>AAUKBK</b>               | <b>0.52</b>                           | -0.38 | 0.15 | <b>1.64</b> | -0.20 | 0.10 | <b>5.29</b>  | -0.14 | 0.13 | <b>0.63</b> | -0.68 | 0.20 | <b>0.33</b> | -0.67 | 0.07 |                   |
|                             |                                       | -0.07 | 0.01 |             | -0.09 | 0.01 |              | -0.17 | 0.06 |             | -0.27 | 0.02 |             | -0.15 | 0.01 |                   |
| <b>GZ63WD</b>               | <b>0.51</b>                           | -0.44 | 0.80 | <b>1.54</b> | -0.43 | 0.55 | <b>5.89</b>  | 0.34  | 0.34 | <b>0.83</b> | -0.17 | 0.68 | <b>0.43</b> | -0.24 | 0.27 |                   |
|                             |                                       | -0.08 | 0.05 |             | -0.18 | 0.07 |              | 0.43  | 0.15 |             | -0.07 | 0.06 |             | -0.05 | 0.04 |                   |
| <b>CJTVUF</b>               | <b>0.58</b>                           | -0.03 | 0.61 | <b>1.65</b> | -0.17 | 1.12 | <b>5.27</b>  | -0.15 | 0.41 | <b>0.95</b> | 0.13  | 1.06 | <b>0.60</b> | 0.55  | 0.01 |                   |
|                             |                                       | -0.01 | 0.04 |             | -0.07 | 0.13 |              | -0.18 | 0.18 |             | 0.05  | 0.09 |             | 0.12  | 0.00 |                   |
| <b>83L8FJ</b>               | <b>0.56</b>                           | -0.15 | 0.24 | <b>1.72</b> | -0.02 | 1.01 | <b>5.99</b>  | 0.42  | 0.65 | <b>0.96</b> | 0.14  | 1.21 | <b>0.53</b> | 0.22  | 0.33 |                   |
|                             |                                       | -0.03 | 0.02 |             | -0.01 | 0.12 |              | 0.53  | 0.29 |             | 0.06  | 0.11 |             | 0.05  | 0.05 |                   |
| <b>BFZE6F</b>               | <b>0.44</b>                           | -0.83 | 0.03 | <b>1.64</b> | -0.20 | 0.17 | <b>4.52</b>  | -0.75 | 0.14 | <b>0.74</b> | -0.39 | 0.11 | <b>0.19</b> | -1.31 | 0.07 |                   |
|                             |                                       | -0.15 | 0.00 |             | -0.08 | 0.02 |              | -0.94 | 0.06 |             | -0.16 | 0.01 |             | -0.29 | 0.01 |                   |
| <b>644GFL</b>               | <b>0.69</b>                           | 0.57  | 1.73 | <b>2.01</b> | 0.68  | 1.52 | <b>6.29</b>  | 0.66  | 1.30 | <b>0.95</b> | 0.13  | 1.40 | <b>0.52</b> | 0.18  | 0.85 |                   |
|                             |                                       | 0.10  | 0.11 |             | 0.29  | 0.18 |              | 0.83  | 0.57 |             | 0.05  | 0.12 |             | 0.04  | 0.12 |                   |
| <b>2GK3BP</b>               | <b>0.67</b>                           | 0.42  | 2.36 | <b>1.83</b> | 0.26  | 2.57 | <b>5.50</b>  | 0.03  | 1.72 | <b>0.97</b> | 0.17  | 1.73 | <b>0.53</b> | 0.23  | 0.39 |                   |
|                             |                                       | 0.08  | 0.15 |             | 0.11  | 0.31 |              | 0.04  | 0.75 |             | 0.07  | 0.15 |             | 0.05  | 0.06 |                   |
| <b>33JQFQ</b>               | <b>0.58</b>                           | -0.07 | 1.18 | <b>1.45</b> | -0.65 | 1.34 | <b>4.86</b>  | -0.48 | 0.81 | <b>0.95</b> | 0.13  | 0.30 | <b>0.50</b> | 0.08  | 0.27 |                   |
|                             |                                       | -0.01 | 0.08 |             | -0.28 | 0.16 |              | -0.60 | 0.36 |             | 0.05  | 0.03 |             | 0.02  | 0.04 |                   |
| <b>XNBEWV</b>               | <b>0.65</b>                           | 0.31  | 0.18 | <b>1.99</b> | 0.63  | 0.25 | <b>6.03</b>  | 0.46  | 0.31 | <b>1.01</b> | 0.27  | 0.17 | <b>0.51</b> | 0.11  | 0.10 |                   |
|                             |                                       | 0.06  | 0.01 |             | 0.27  | 0.03 |              | 0.58  | 0.14 |             | 0.11  | 0.02 |             | 0.03  | 0.02 |                   |
| <b>6BMKMN</b>               | <b>0.69</b>                           | 0.55  | 0.56 | <b>1.83</b> | 0.25  | 0.22 | <b>4.46</b>  | -0.79 | 0.10 | <b>0.99</b> | 0.23  | 0.56 | <b>0.50</b> | 0.07  | 0.22 |                   |
|                             |                                       | 0.10  | 0.04 |             | 0.11  | 0.03 |              | -1.00 | 0.04 |             | 0.09  | 0.05 |             | 0.02  | 0.03 |                   |
| <b>9JP2MJ</b>               | <b>0.53</b>                           | -0.33 | 0.41 | <b>1.58</b> | -0.35 | 0.34 | <b>5.05</b>  | -0.32 | 0.13 | <b>0.79</b> | -0.28 | 0.71 | <b>0.35</b> | -0.59 | 0.07 |                   |
|                             |                                       | -0.06 | 0.03 |             | -0.15 | 0.04 |              | -0.41 | 0.06 |             | -0.11 | 0.06 |             | -0.13 | 0.01 |                   |
| <b>PFR9KY</b>               | <b>0.70</b>                           | 0.60  | 0.00 | <b>2.00</b> | 0.65  | 0.84 | <b>6.23</b>  | 0.62  | 0.35 | <b>1.00</b> | 0.25  | 0.06 | <b>0.47</b> | -0.06 | 0.39 |                   |
|                             |                                       | 0.11  | 0.00 |             | 0.28  | 0.10 |              | 0.78  | 0.15 |             | 0.10  | 0.00 |             | -0.01 | 0.06 |                   |
| <b>K8VMR6</b>               | <b>0.59</b>                           | 0.00  | 0.27 | <b>1.53</b> | -0.45 | 0.24 | <b>4.53</b>  | -0.73 | 0.13 | <b>0.90</b> | 0.00  | 0.49 | <b>0.64</b> | 0.72  | 0.04 |                   |
|                             |                                       | 0.00  | 0.02 |             | -0.19 | 0.03 |              | -0.93 | 0.06 |             | 0.00  | 0.04 |             | 0.16  | 0.01 |                   |
| <b>FPNYC9</b>               | <b>0.27</b>                           | -1.75 | 0.86 | <b>1.35</b> | -0.89 | 0.92 | <b>5.55</b>  | 0.07  | 0.32 | <b>0.58</b> | -0.79 | 0.62 | <b>0.08</b> | -1.79 | 0.31 |                   |
|                             |                                       | -0.32 | 0.06 |             | -0.38 | 0.11 |              | 0.09  | 0.14 |             | -0.32 | 0.06 |             | -0.40 | 0.05 |                   |
| <b>WGX7VT</b>               | <b>1.14</b>                           | 3.03  | 0.76 | <b>2.17</b> | 1.06  | 0.59 | <b>5.45</b>  | -0.01 | 0.02 | <b>1.44</b> | 1.35  | 1.18 | <b>1.06</b> | 2.58  | 0.07 |                   |
|                             |                                       | 0.55  | 0.05 |             | 0.45  | 0.07 |              | -0.01 | 0.01 |             | 0.54  | 0.10 |             | 0.58  | 0.01 |                   |
| <b>QECBRZ</b>               | <b>0.75</b>                           | 0.89  | 0.09 | <b>1.86</b> | 0.33  | 0.42 | <b>6.14</b>  | 0.54  | 0.12 | <b>1.12</b> | 0.56  | 0.24 | <b>0.56</b> | 0.34  | 0.08 |                   |
|                             |                                       | 0.16  | 0.01 |             | 0.14  | 0.05 |              | 0.68  | 0.05 |             | 0.22  | 0.02 |             | 0.08  | 0.01 |                   |
| <b>6VACMK</b>               | <b>0.50</b>                           | -0.49 |      | <b>1.33</b> | -0.92 | 0.49 | <b>4.57</b>  | -0.71 | 0.26 | <b>0.50</b> | -1.00 |      | <b>0.50</b> | 0.08  |      |                   |
|                             |                                       | -0.09 | 0.00 |             | -0.39 | 0.06 |              | -0.89 | 0.12 |             | -0.40 | 0.00 |             | 0.02  | 0.00 |                   |
| <b>DFA3JC</b>               | <b>1.08</b>                           | 2.66  | 0.89 | <b>2.59</b> | 2.05  | 1.12 | <b>4.84</b>  | -0.49 | 0.43 | <b>1.10</b> | 0.51  | 0.46 | <b>0.70</b> | 0.99  | 0.18 |                   |
|                             |                                       | 0.49  | 0.06 |             | 0.87  | 0.13 |              | -0.62 | 0.19 |             | 0.20  | 0.04 |             | 0.22  | 0.03 |                   |
| <b>DCARMD</b>               | <b>1.32</b>                           | 3.99  | 2.31 | <b>3.95</b> | 5.24  | 2.48 | <b>11.94</b> | 5.15  | 4.93 | <b>2.03</b> | 2.83  | 2.98 | <b>0.89</b> | 1.84  | 0.87 |                   |
|                             |                                       | 0.73  | 0.15 |             | 2.23  | 0.29 |              | 6.48  | 2.17 |             | 1.13  | 0.26 |             | 0.41  | 0.13 |                   |



## ALP Program - Participant Web Summary Report - Cycle 29

|               | 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>T9EFX6</b> | <b>0.51</b>        | -0.44   |         | <b>2.03</b>        | 0.72    |         | <b>5.13</b>        | -0.26   |         | <b>0.81</b>        | -0.23   |         | <b>0.35</b>        | -0.59   |         |
|               |                    | -0.08   | 0.00    |                    | 0.31    | 0.00    |                    | -0.33   | 0.00    |                    | -0.09   | 0.00    |                    | -0.13   | 0.00    |
| <b>BMDAYP</b> | <b>0.75</b>        | 0.88    | 0.71    | <b>1.73</b>        | 0.02    | 0.49    | <b>5.10</b>        | -0.28   | 0.23    | <b>0.73</b>        | -0.42   | 0.07    | <b>0.32</b>        | -0.70   | 0.21    |
|               |                    | 0.16    | 0.05    |                    | 0.01    | 0.06    |                    | -0.36   | 0.10    |                    | -0.17   | 0.01    |                    | -0.16   | 0.03    |
| <b>T84DB7</b> | <b>0.74</b>        | 0.82    | 0.05    | <b>1.82</b>        | 0.22    | 0.28    | <b>5.54</b>        | 0.06    | 0.33    | <b>1.10</b>        | 0.50    | 0.48    | <b>0.66</b>        | 0.80    | 0.17    |
|               |                    | 0.15    | 0.00    |                    | 0.09    | 0.03    |                    | 0.08    | 0.14    |                    | 0.20    | 0.04    |                    | 0.18    | 0.03    |
| <b>63C7VU</b> | <b>0.55</b>        | -0.24   | 0.70    | <b>1.68</b>        | -0.11   | 0.09    | <b>5.98</b>        | 0.41    | 0.03    | <b>0.83</b>        | -0.18   | 0.54    | <b>0.38</b>        | -0.46   | 0.43    |
|               |                    | -0.04   | 0.05    |                    | -0.05   | 0.01    |                    | 0.52    | 0.01    |                    | -0.07   | 0.05    |                    | -0.10   | 0.06    |
| <b>L2J8CD</b> | <b>0.44</b>        | -0.84   | 0.18    | <b>1.10</b>        | -1.48   | 0.10    | <b>4.86</b>        | -0.47   | 0.12    | <b>0.69</b>        | -0.52   | 0.17    | <b>0.46</b>        | -0.11   | 0.10    |
|               |                    | -0.15   | 0.01    |                    | -0.63   | 0.01    |                    | -0.60   | 0.05    |                    | -0.21   | 0.02    |                    | -0.02   | 0.02    |
| <b>2WG8UU</b> | <b>0.63</b>        | 0.24    | 1.52    | <b>1.78</b>        | 0.13    | 2.32    | <b>5.92</b>        | 0.36    | 1.76    | <b>0.97</b>        | 0.18    | 1.47    | <b>0.44</b>        | -0.20   | 0.48    |
|               |                    | 0.04    | 0.10    |                    | 0.06    | 0.28    |                    | 0.46    | 0.77    |                    | 0.07    | 0.13    |                    | -0.04   | 0.07    |
| <b>UNPG82</b> | <b>0.59</b>        | 0.02    | 0.18    | <b>1.73</b>        | 0.02    | 0.22    | <b>5.47</b>        | 0.01    | 0.13    | <b>0.87</b>        | -0.07   | 0.36    | <b>0.41</b>        | -0.30   | 0.10    |
|               |                    | 0.00    | 0.01    |                    | 0.01    | 0.03    |                    | 0.01    | 0.06    |                    | -0.03   | 0.03    |                    | -0.07   | 0.02    |
| <b>8CMGZN</b> | <b>0.49</b>        | -0.53   | 0.18    | <b>1.48</b>        | -0.57   | 0.61    | <b>4.34</b>        | -0.89   | 0.33    | <b>0.69</b>        | -0.52   | 0.35    | <b>0.45</b>        | -0.12   | 0.04    |
|               |                    | -0.10   | 0.01    |                    | -0.24   | 0.07    |                    | -1.12   | 0.14    |                    | -0.21   | 0.03    |                    | -0.03   | 0.01    |
| <b>PWR8L8</b> | <b>0.80</b>        | 1.13    | 0.64    | <b>2.02</b>        | 0.71    | 0.99    | <b>3.41</b>        | -1.62   | 0.13    | <b>6.06</b>        | 12.91   | 1.59    | <b>0.39</b>        | -0.39   | 0.31    |
|               |                    | 0.21    | 0.04    |                    | 0.30    | 0.12    |                    | -2.05   | 0.06    |                    | 5.16    | 0.14    |                    | -0.09   | 0.05    |
| <b>CPEWRJ</b> | <b>0.60</b>        | 0.07    | 0.20    | <b>1.86</b>        | 0.31    | 0.29    | <b>5.42</b>        | -0.03   | 0.27    | <b>0.96</b>        | 0.14    | 0.23    | <b>0.39</b>        | -0.42   | 0.06    |
|               |                    | 0.01    | 0.01    |                    | 0.13    | 0.03    |                    | -0.04   | 0.12    |                    | 0.06    | 0.02    |                    | -0.09   | 0.01    |
| <b>VBVLAX</b> | <b>0.63</b>        | 0.24    | 0.89    | <b>1.60</b>        | -0.29   | 0.84    | <b>5.77</b>        | 0.24    | 0.35    | <b>0.70</b>        | -0.50   | 1.13    | <b>0.70</b>        | 0.98    | 0.68    |
|               |                    | 0.04    | 0.06    |                    | -0.12   | 0.10    |                    | 0.31    | 0.15    |                    | -0.20   | 0.10    |                    | 0.22    | 0.10    |
| <b>TJBJ2Y</b> | <b>0.58</b>        | -0.06   | 0.05    | <b>1.65</b>        | -0.16   | 0.14    | <b>5.43</b>        | -0.02   | 0.03    | <b>0.80</b>        | -0.25   | 0.08    | <b>0.43</b>        | -0.23   | 0.05    |
|               |                    | -0.01   | 0.00    |                    | -0.07   | 0.02    |                    | -0.03   | 0.01    |                    | -0.10   | 0.01    |                    | -0.05   | 0.01    |
| <b>AM2DUK</b> | <b>0.47</b>        | -0.64   | 0.39    | <b>1.53</b>        | -0.45   | 0.49    | <b>5.67</b>        | 0.17    | 0.13    | <b>0.77</b>        | -0.32   | 0.29    | <b>0.37</b>        | -0.50   | 0.18    |
|               |                    | -0.12   | 0.03    |                    | -0.19   | 0.06    |                    | 0.21    | 0.06    |                    | -0.13   | 0.03    |                    | -0.11   | 0.03    |
| <b>3BBBBQ</b> | <b>0.60</b>        | 0.05    | 0.00    | <b>1.10</b>        | -1.47   | 0.00    | <b>3.77</b>        | -1.34   | 0.35    | <b>0.67</b>        | -0.58   | 0.65    | <b>0.70</b>        | 0.98    | 0.68    |
|               |                    | 0.01    | 0.00    |                    | -0.62   | 0.00    |                    | -1.69   | 0.15    |                    | -0.23   | 0.06    |                    | 0.22    | 0.10    |
| <b>4JGF2L</b> | <b>0.60</b>        | 0.06    | 0.45    | <b>1.83</b>        | 0.26    | 0.70    | <b>6.05</b>        | 0.47    | 0.25    | <b>0.77</b>        | -0.33   | 0.45    | <b>0.38</b>        | -0.47   | 0.33    |
|               |                    | 0.01    | 0.03    |                    | 0.11    | 0.08    |                    | 0.59    | 0.11    |                    | -0.13   | 0.04    |                    | -0.11   | 0.05    |
| <b>YTJ7GT</b> | <b>0.62</b>        | 0.16    |         | <b>1.77</b>        | 0.11    |         | <b>6.06</b>        | 0.48    |         | <b>0.90</b>        | 0.00    |         | <b>0.50</b>        | 0.08    |         |
|               |                    | 0.03    | 0.00    |                    | 0.05    | 0.00    |                    | 0.60    | 0.00    |                    | 0.00    | 0.00    |                    | 0.02    | 0.00    |
| <b>MZGWVZ</b> | <b>0.59</b>        | 0.00    | 0.67    | <b>1.96</b>        | 0.55    | 0.49    | <b>6.83</b>        | 1.09    | 0.24    | <b>0.98</b>        | 0.19    | 0.35    | <b>0.64</b>        | 0.72    | 0.14    |
|               |                    | 0.00    | 0.04    |                    | 0.23    | 0.06    |                    | 1.37    | 0.10    |                    | 0.08    | 0.03    |                    | 0.16    | 0.02    |
| <b>C8H8XB</b> | <b>0.40</b>        | -1.04   | 0.00    | <b>1.37</b>        | -0.84   | 0.49    | <b>4.80</b>        | -0.52   | 0.00    | <b>0.90</b>        | 0.00    | 1.13    | <b>0.33</b>        | -0.66   | 0.39    |
|               |                    | -0.19   | 0.00    |                    | -0.36   | 0.06    |                    | -0.66   | 0.00    |                    | 0.00    | 0.10    |                    | -0.15   | 0.06    |
| <b>ZZZ3WM</b> | <b>0.29</b>        | -1.63   | 4.36    | <b>2.66</b>        | 2.21    | 3.17    | <b>10.48</b>       | 3.99    | 2.78    | <b>0.85</b>        | -0.14   | 0.87    | <b>0.07</b>        | -1.84   | 0.34    |
|               |                    | -0.30   | 0.28    |                    | 0.94    | 0.38    |                    | 5.02    | 1.22    |                    | -0.05   | 0.08    |                    | -0.41   | 0.05    |
| <b>PHEWWY</b> | <b>0.59</b>        | -0.02   | 0.22    | <b>1.58</b>        | -0.34   | 0.14    | <b>5.23</b>        | -0.18   | 0.08    | <b>0.86</b>        | -0.09   | 0.05    | <b>0.36</b>        | -0.54   | 0.08    |
|               |                    | 0.00    | 0.01    |                    | -0.14   | 0.02    |                    | -0.23   | 0.04    |                    | -0.04   | 0.00    |                    | -0.12   | 0.01    |
| <b>XYFCWR</b> | <b>0.71</b>        | 0.67    | 0.05    | <b>1.84</b>        | 0.27    | 0.01    | <b>6.36</b>        | 0.71    | 0.09    | <b>0.98</b>        | 0.19    | 0.16    | <b>0.50</b>        | 0.06    | 0.05    |
|               |                    | 0.12    | 0.00    |                    | 0.11    | 0.00    |                    | 0.90    | 0.04    |                    | 0.08    | 0.01    |                    | 0.01    | 0.01    |
| <b>J6NUD7</b> | <b>0.52</b>        | -0.40   | 0.07    | <b>1.64</b>        | -0.19   | 0.49    | <b>5.80</b>        | 0.27    | 0.60    | <b>0.93</b>        | 0.07    | 2.24    | <b>1.34</b>        | 3.85    | 6.30    |
|               |                    | -0.07   | 0.00    |                    | -0.08   | 0.06    |                    | 0.35    | 0.26    |                    | 0.03    | 0.20    |                    | 0.86    | 0.93    |



## ALP Program - Participant Web Summary Report - Cycle 29

|                          | 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>VNJNRP</b>            | <b>0.50</b>        | -0.49   |         | <b>1.30</b>        | -1.00   |         | <b>4.20</b>        | -1.00   |         | <b>0.80</b>        | -0.25   |         | <b>0.50</b>        | 0.08    |         |
|                          |                    | -0.09   | 0.00    |                    | -0.42   | 0.00    |                    | -1.26   | 0.00    |                    | -0.10   | 0.00    |                    | 0.02    | 0.00    |
| <b>DYXQH7</b>            | <b>0.67</b>        | 0.42    | 0.55    | <b>2.05</b>        | 0.77    | 0.89    | <b>6.52</b>        | 0.85    | 1.00    | <b>1.15</b>        | 0.62    | 3.00    | <b>0.82</b>        | 1.53    | 0.32    |
|                          |                    | 0.08    | 0.04    |                    | 0.33    | 0.11    |                    | 1.07    | 0.44    |                    | 0.25    | 0.26    |                    | 0.34    | 0.05    |
| <b>Grand Median</b>      |                    | 0.59    |         |                    | 1.72    |         |                    | 5.46    |         |                    | 0.90    |         |                    | 0.48    |         |
| <b>Median Abs Dev</b>    |                    | 0.08    |         |                    | 0.19    |         |                    | 0.59    |         |                    | 0.10    |         |                    | 0.10    |         |
| <b>Avg Within Lab SD</b> |                    | 0.06    |         |                    | 0.12    |         |                    | 0.44    |         |                    | 0.09    |         |                    | 0.15    |         |
| <b>Labs Included</b>     |                    | 44      |         |                    | 44      |         |                    | 44      |         |                    | 44      |         |                    | 44      |         |
| <b>Labs Reporting</b>    |                    | 44      |         |                    | 44      |         |                    | 44      |         |                    | 44      |         |                    | 44      |         |



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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 171) | in the Micronutrients Property Groups |       |      |            |       |      |            |       |      |            |       |      |            |       | Data units: mg/kg |  |
|-----------------------------|---------------------------------------|-------|------|------------|-------|------|------------|-------|------|------------|-------|------|------------|-------|-------------------|--|
|                             | SRSSRS1601                            |       |      | SRSSRS1602 |       |      | SRSSRS1603 |       |      | SRSSRS1604 |       |      | SRSSRS1605 |       |                   |  |
| AAUKBK                      | 2.70                                  | -0.52 | 0.00 | 4.33       | -0.26 | 0.09 | 4.23       | -0.35 | 0.13 | 5.90       | -1.02 | 0.00 | 7.03       | -0.24 | 0.25              |  |
|                             |                                       | -1.42 | 0.00 |            | -0.67 | 0.06 |            | -0.68 | 0.06 |            | -3.75 | 0.00 |            | -0.58 | 0.12              |  |
| GZ63WD                      | 1.75                                  | -0.86 | 0.54 | 2.57       | -0.95 | 0.41 | 3.73       | -0.61 | 0.46 | 8.21       | -0.39 | 1.25 | 6.67       | -0.40 | 0.30              |  |
|                             |                                       | -2.37 | 0.31 |            | -2.43 | 0.28 |            | -1.18 | 0.21 |            | -1.43 | 1.08 |            | -0.94 | 0.14              |  |
| CJTVUF                      | 5.84                                  | 0.62  | 0.82 | 6.94       | 0.76  | 2.22 | 5.49       | 0.29  | 0.79 | 12.28      | 0.72  | 1.02 | 9.60       | 0.84  | 0.38              |  |
|                             |                                       | 1.71  | 0.47 |            | 1.94  | 1.49 |            | 0.57  | 0.35 |            | 2.64  | 0.88 |            | 1.99  | 0.18              |  |
| 83L8FJ                      | 5.71                                  | 0.58  | 0.28 | 6.72       | 0.67  | 0.40 | 5.93       | 0.52  | 0.73 | 8.53       | -0.30 | 0.18 | 9.44       | 0.77  | 0.86              |  |
|                             |                                       | 1.58  | 0.16 |            | 1.72  | 0.27 |            | 1.01  | 0.33 |            | -1.12 | 0.16 |            | 1.83  | 0.40              |  |
| BFZE6F                      | 1.80                                  | -0.85 | 0.08 | 2.95       | -0.80 | 0.11 | 2.22       | -1.38 | 0.02 | 5.35       | -1.17 | 0.07 | 4.70       | -1.23 | 0.41              |  |
|                             |                                       | -2.33 | 0.04 |            | -2.05 | 0.08 |            | -2.69 | 0.01 |            | -4.30 | 0.06 |            | -2.92 | 0.19              |  |
| 644GFL                      | 8.65                                  | 1.65  | 1.70 | 10.14      | 2.01  | 0.97 | 7.25       | 1.19  | 1.86 | 10.09      | 0.12  | 0.29 | 7.45       | -0.07 | 1.07              |  |
|                             |                                       | 4.53  | 0.97 |            | 5.14  | 0.65 |            | 2.33  | 0.83 |            | 0.45  | 0.25 |            | -0.16 | 0.50              |  |
| 2GK3BP                      | 5.53                                  | 0.51  | 2.49 | 5.90       | 0.35  | 2.58 | 5.20       | 0.15  | 2.13 | 12.13      | 0.68  | 0.84 | 10.00      | 1.00  | 1.30              |  |
|                             |                                       | 1.41  | 1.42 |            | 0.90  | 1.73 |            | 0.29  | 0.95 |            | 2.49  | 0.72 |            | 2.39  | 0.61              |  |
| 33JQFQ                      | 2.49                                  | -0.60 | 0.36 | 2.51       | -0.97 | 0.23 | 3.31       | -0.82 | 0.43 | 9.13       | -0.14 | 0.45 | 8.92       | 0.55  | 1.16              |  |
|                             |                                       | -1.63 | 0.20 |            | -2.49 | 0.16 |            | -1.61 | 0.19 |            | -0.51 | 0.39 |            | 1.31  | 0.54              |  |
| XNBEWV                      | 7.73                                  | 1.32  | 0.86 | 8.03       | 1.18  | 0.60 | 7.30       | 1.22  | 0.81 | 14.23      | 1.25  | 0.52 | 8.20       | 0.25  | 0.37              |  |
|                             |                                       | 3.61  | 0.49 |            | 3.03  | 0.40 |            | 2.39  | 0.36 |            | 4.59  | 0.45 |            | 0.59  | 0.17              |  |
| 6BMKMN                      | 1.44                                  | -0.98 | 0.47 | 1.19       | -1.49 | 0.26 | 1.32       | -1.84 | 0.30 | 8.32       | -0.36 | 0.42 | 8.46       | 0.35  | 0.60              |  |
|                             |                                       | -2.69 | 0.27 |            | -3.81 | 0.18 |            | -3.60 | 0.13 |            | -1.33 | 0.36 |            | 0.84  | 0.28              |  |
| 9JP2MJ                      | 2.38                                  | -0.64 | 0.67 | 3.46       | -0.60 | 0.20 | 4.05       | -0.44 | 0.21 | 5.83       | -1.04 | 0.07 | 6.13       | -0.62 | 0.13              |  |
|                             |                                       | -1.75 | 0.38 |            | -1.54 | 0.14 |            | -0.86 | 0.09 |            | -3.81 | 0.06 |            | -1.48 | 0.06              |  |
| PFR9KY                      | 5.33                                  | 0.44  | 1.01 | 7.00       | 0.78  | 2.57 | 6.67       | 0.90  | 1.29 | 10.67      | 0.28  | 0.67 | 7.00       | -0.26 |                   |  |
|                             |                                       | 1.21  | 0.58 |            | 2.00  | 1.73 |            | 1.75  | 0.58 |            | 1.02  | 0.58 |            | -0.61 | 0.00              |  |
| K8VMR6                      | 3.17                                  | -0.35 | 0.20 | 3.20       | -0.70 | 0.26 | 4.07       | -0.43 | 0.26 | 9.67       | 0.01  | 0.67 | 9.83       | 0.93  | 0.62              |  |
|                             |                                       | -0.96 | 0.12 |            | -1.80 | 0.17 |            | -0.85 | 0.12 |            | 0.02  | 0.58 |            | 2.22  | 0.29              |  |
| FPNYC9                      | 5.12                                  | 0.36  | 0.34 | 5.04       | 0.02  | 0.17 | 5.75       | 0.43  | 0.67 | 10.19      | 0.15  | 0.51 | 7.53       | -0.03 | 0.09              |  |
|                             |                                       | 0.99  | 0.20 |            | 0.04  | 0.12 |            | 0.84  | 0.30 |            | 0.55  | 0.44 |            | -0.08 | 0.04              |  |
| WGX7VT                      | 4.09                                  | -0.01 | 0.10 | 5.63       | 0.25  | 0.03 | 4.96       | 0.02  | 0.07 | 10.13      | 0.13  | 0.27 | 10.67      | 1.28  | 1.24              |  |
|                             |                                       | -0.04 | 0.06 |            | 0.63  | 0.02 |            | 0.05  | 0.03 |            | 0.48  | 0.23 |            | 3.05  | 0.58              |  |
| QECBRZ                      | 3.90                                  | -0.08 | 0.18 | 4.80       | -0.08 | 0.45 | 4.87       | -0.02 | 0.26 | 9.80       | 0.04  | 0.81 | 7.30       | -0.13 | 0.77              |  |
|                             |                                       | -0.22 | 0.10 |            | -0.20 | 0.30 |            | -0.05 | 0.12 |            | 0.15  | 0.70 |            | -0.31 | 0.36              |  |
| 6VACMK                      | 2.10                                  | -0.74 | 0.00 | 3.23       | -0.69 | 0.09 | 3.53       | -0.71 | 0.13 | 4.13       | -1.50 | 0.07 | 7.90       | 0.12  | 0.21              |  |
|                             |                                       | -2.02 | 0.00 |            | -1.77 | 0.06 |            | -1.38 | 0.06 |            | -5.51 | 0.06 |            | 0.29  | 0.10              |  |
| DCARMD                      | 23.22                                 | 6.96  | 3.88 | 49.60      | 17.42 | 8.95 | 21.32      | 8.40  | 8.54 | 22.46      | 3.49  | 1.94 | 12.55      | 2.08  | 1.94              |  |
|                             |                                       | 19.09 | 2.22 |            | 44.60 | 6.03 |            | 16.40 | 3.82 |            | 12.81 | 1.68 |            | 4.94  | 0.90              |  |
| T9EFX6                      | 1.74                                  | -0.87 |      | 3.52       | -0.58 |      | 3.19       | -0.88 |      | 3.38       | -1.70 |      | 2.87       | -2.00 |                   |  |
|                             |                                       | -2.38 | 0.00 |            | -1.48 | 0.00 |            | -1.73 | 0.00 |            | -6.27 | 0.00 |            | -4.74 | 0.00              |  |
| BMDAYP                      | 7.87                                  | 1.36  | 1.03 | 9.13       | 1.61  | 1.15 | 7.33       | 1.24  | 1.23 | 9.50       | -0.04 | 1.53 | 6.17       | -0.61 | 0.75              |  |
|                             |                                       | 3.74  | 0.59 |            | 4.13  | 0.78 |            | 2.42  | 0.55 |            | -0.15 | 1.32 |            | -1.45 | 0.35              |  |



## ALP Program - Participant Web Summary Report - Cycle 29

|               | 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>T84DB7</b> | <b>10.86</b>       | 2.46    | 0.68    | <b>8.48</b>        | 1.36    | 0.73    | <b>7.51</b>        | 1.33    | 0.84    | <b>13.09</b>       | 0.94    | 0.86    | <b>11.06</b>       | 1.45    | 1.06    |
|               |                    | 6.74    | 0.39    |                    | 3.48    | 0.49    |                    | 2.60    | 0.38    |                    | 3.45    | 0.74    |                    | 3.44    | 0.49    |
| <b>63C7VU</b> | <b>6.71</b>        | 0.94    | 0.56    | <b>7.37</b>        | 0.93    | 0.77    | <b>8.42</b>        | 1.79    | 0.90    | <b>14.59</b>       | 1.35    | 0.44    | <b>7.70</b>        | 0.03    | 0.16    |
|               |                    | 2.59    | 0.32    |                    | 2.37    | 0.52    |                    | 3.50    | 0.40    |                    | 4.95    | 0.38    |                    | 0.08    | 0.08    |
| <b>2WG8UU</b> | <b>8.28</b>        | 1.52    | 4.54    | <b>9.02</b>        | 1.57    | 3.26    | <b>7.61</b>        | 1.38    | 3.28    | <b>15.55</b>       | 1.61    | 5.00    | <b>8.24</b>        | 0.26    | 4.11    |
|               |                    | 4.16    | 2.59    |                    | 4.02    | 2.19    |                    | 2.70    | 1.47    |                    | 5.90    | 4.33    |                    | 0.63    | 1.92    |
| <b>UNPG82</b> | <b>5.23</b>        | 0.40    | 0.74    | <b>7.20</b>        | 0.86    | 0.97    | <b>4.72</b>        | -0.10   | 0.36    | <b>9.80</b>        | 0.04    | 0.50    | <b>6.80</b>        | -0.34   | 0.97    |
|               |                    | 1.11    | 0.42    |                    | 2.20    | 0.66    |                    | -0.20   | 0.16    |                    | 0.15    | 0.44    |                    | -0.82   | 0.45    |
| <b>8CMGZN</b> | <b>2.40</b>        | -0.63   | 0.18    | <b>2.60</b>        | -0.94   | 0.13    | <b>3.11</b>        | -0.93   | 0.29    | <b>6.38</b>        | -0.89   | 0.18    | <b>6.61</b>        | -0.42   | 0.74    |
|               |                    | -1.72   | 0.10    |                    | -2.40   | 0.09    |                    | -1.81   | 0.13    |                    | -3.27   | 0.16    |                    | -1.00   | 0.34    |
| <b>CPEWRJ</b> | <b>4.16</b>        | 0.01    | 0.24    | <b>5.33</b>        | 0.13    | 0.41    | <b>4.53</b>        | -0.20   | 0.22    | <b>8.39</b>        | -0.34   | 0.02    | <b>5.52</b>        | -0.88   | 0.04    |
|               |                    | 0.04    | 0.14    |                    | 0.33    | 0.28    |                    | -0.38   | 0.10    |                    | -1.25   | 0.02    |                    | -2.09   | 0.02    |
| <b>VBVLAX</b> | <b>5.63</b>        | 0.55    | 0.10    | <b>6.47</b>        | 0.57    | 0.62    | <b>5.00</b>        | 0.04    | 0.89    | <b>5.10</b>        | -1.24   | 0.64    | <b>8.57</b>        | 0.40    | 1.18    |
|               |                    | 1.51    | 0.06    |                    | 1.47    | 0.42    |                    | 0.09    | 0.40    |                    | -4.55   | 0.56    |                    | 0.95    | 0.55    |
| <b>AM2DUK</b> | <b>2.47</b>        | -0.60   | 0.36    | <b>4.03</b>        | -0.38   | 0.45    | <b>4.27</b>        | -0.33   | 1.01    | <b>6.17</b>        | -0.95   | 0.37    | <b>6.93</b>        | -0.29   | 0.65    |
|               |                    | -1.66   | 0.21    |                    | -0.97   | 0.31    |                    | -0.65   | 0.45    |                    | -3.48   | 0.32    |                    | -0.68   | 0.31    |
| <b>3BBBBQ</b> | <b>5.33</b>        | 0.44    | 1.01    | <b>5.00</b>        | 0.00    | 0.00    | <b>5.00</b>        | 0.04    | 0.00    | <b>11.33</b>       | 0.46    | 0.67    | <b>11.33</b>       | 1.56    | 1.24    |
|               |                    | 1.21    | 0.58    |                    | 0.00    | 0.00    |                    | 0.09    | 0.00    |                    | 1.69    | 0.58    |                    | 3.72    | 0.58    |
| <b>4JGF2L</b> | <b>3.39</b>        | -0.27   | 0.03    | <b>3.69</b>        | -0.51   | 0.05    | <b>3.42</b>        | -0.77   | 0.02    | <b>8.66</b>        | -0.27   | 0.07    | <b>5.34</b>        | -0.96   | 0.11    |
|               |                    | -0.73   | 0.02    |                    | -1.31   | 0.03    |                    | -1.50   | 0.01    |                    | -0.98   | 0.06    |                    | -2.27   | 0.05    |
| <b>YTJ7GT</b> | <b>4.47</b>        | 0.13    | 0.00    | <b>6.11</b>        | 0.43    | 0.00    | <b>5.14</b>        | 0.12    | 0.00    | <b>8.32</b>        | -0.36   | 0.00    | <b>6.93</b>        | -0.29   | 0.00    |
|               |                    | 0.35    | 0.00    |                    | 1.11    | 0.00    |                    | 0.23    | 0.00    |                    | -1.33   | 0.00    |                    | -0.68   | 0.00    |
| <b>MZGWVZ</b> | <b>3.22</b>        | -0.33   | 0.17    | <b>4.14</b>        | -0.34   | 0.35    | <b>5.56</b>        | 0.33    | 1.05    | <b>12.82</b>       | 0.86    | 0.65    | <b>10.18</b>       | 1.08    | 1.68    |
|               |                    | -0.91   | 0.10    |                    | -0.86   | 0.23    |                    | 0.64    | 0.47    |                    | 3.17    | 0.56    |                    | 2.57    | 0.78    |
| <b>C8H8XB</b> | <b>1.43</b>        | -0.98   | 0.20    | <b>2.83</b>        | -0.85   | 0.17    | <b>3.07</b>        | -0.95   | 0.13    | <b>5.40</b>        | -1.16   | 0.20    | <b>5.93</b>        | -0.71   | 0.25    |
|               |                    | -2.69   | 0.12    |                    | -2.17   | 0.12    |                    | -1.85   | 0.06    |                    | -4.25   | 0.17    |                    | -1.68   | 0.12    |
| <b>ZZZ3WM</b> | <b>3.86</b>        | -0.10   | 0.56    | <b>4.61</b>        | -0.15   | 1.08    | <b>4.53</b>        | -0.20   | 2.58    | <b>10.32</b>       | 0.18    | 1.07    | <b>9.69</b>        | 0.87    | 1.26    |
|               |                    | -0.27   | 0.32    |                    | -0.39   | 0.73    |                    | -0.38   | 1.16    |                    | 0.68    | 0.92    |                    | 2.08    | 0.59    |
| <b>PHEWWY</b> | <b>3.04</b>        | -0.39   | 0.07    | <b>4.15</b>        | -0.33   | 0.08    | <b>4.44</b>        | -0.24   | 0.05    | <b>9.62</b>        | -0.01   | 0.10    | <b>7.30</b>        | -0.13   | 0.20    |
|               |                    | -1.08   | 0.04    |                    | -0.85   | 0.05    |                    | -0.47   | 0.02    |                    | -0.02   | 0.09    |                    | -0.32   | 0.09    |
| <b>XYFCWR</b> | <b>7.70</b>        | 1.30    | 0.18    | <b>6.60</b>        | 0.62    | 0.04    | <b>8.58</b>        | 1.88    | 0.18    | <b>15.37</b>       | 1.56    | 0.06    | <b>7.79</b>        | 0.07    | 0.04    |
|               |                    | 3.57    | 0.10    |                    | 1.60    | 0.02    |                    | 3.67    | 0.08    |                    | 5.72    | 0.05    |                    | 0.18    | 0.02    |
| <b>J6NUD7</b> | <b>2.51</b>        | -0.59   | 0.21    | <b>3.42</b>        | -0.62   | 0.05    | <b>4.01</b>        | -0.46   | 0.11    | <b>7.79</b>        | -0.50   | 0.03    | <b>6.87</b>        | -0.31   | 0.21    |
|               |                    | -1.62   | 0.12    |                    | -1.58   | 0.03    |                    | -0.91   | 0.05    |                    | -1.85   | 0.03    |                    | -0.75   | 0.10    |
| <b>VNJNRP</b> | <b>5.00</b>        | 0.32    | 0.00    | <b>5.00</b>        | 0.00    | 0.00    | <b>5.00</b>        | 0.04    | 0.00    | <b>15.00</b>       | 1.46    | 0.00    | <b>13.00</b>       | 2.27    | 0.00    |
|               |                    | 0.88    | 0.00    |                    | 0.00    | 0.00    |                    | 0.09    | 0.00    |                    | 5.35    | 0.00    |                    | 5.39    | 0.00    |
| <b>DYXQH7</b> | <b>4.99</b>        | 0.32    | 0.62    | <b>5.74</b>        | 0.29    | 1.27    | <b>6.97</b>        | 1.05    | 1.26    | <b>11.27</b>       | 0.44    | 0.94    | <b>11.45</b>       | 1.61    | 1.25    |
|               |                    | 0.87    | 0.36    |                    | 0.74    | 0.85    |                    | 2.06    | 0.56    |                    | 1.62    | 0.82    |                    | 3.84    | 0.58    |





## ALP Program - Participant Web Summary Report - Cycle 29

|                          | 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>Grand Median</b>      |                    | 4.12    |         |                    | 5.00    |         |                    | 4.92    |         |                    | 9.65    |         |                    | 7.61    |         |
| <b>Median Abs Dev</b>    |                    | 1.60    |         |                    | 1.59    |         |                    | 0.96    |         |                    | 1.77    |         |                    | 1.15    |         |
| <b>Avg Within Lab SD</b> |                    | 0.57    |         |                    | 0.67    |         |                    | 0.45    |         |                    | 0.87    |         |                    | 0.47    |         |
| <b>Labs Included</b>     |                    | 38      |         |                    | 38      |         |                    | 38      |         |                    | 38      |         |                    | 38      |         |
| <b>Labs Reporting</b>    |                    | 38      |         |                    | 38      |         |                    | 38      |         |                    | 38      |         |                    | 38      |         |



## ALP Program - Participant Web Summary Report - Cycle 29

|                    |         |         |                    |         |         |                    |         |         |                    |         |         |                    |         |         |
|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|
| 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 172) | in the Micronutrients Property Groups |      |     |             |      |     |             |       |      |             |      |     |             |      |     | Data units: mg/kg |  |
|-----------------------------|---------------------------------------|------|-----|-------------|------|-----|-------------|-------|------|-------------|------|-----|-------------|------|-----|-------------------|--|
|                             | SRSSRS1601                            |      |     | SRSSRS1602  |      |     | SRSSRS1603  |       |      | SRSSRS1604  |      |     | SRSSRS1605  |      |     |                   |  |
| <b>YAA32W</b>               | <b>2.7</b>                            | -1.5 | 0.1 | <b>11.4</b> | -1.3 | 0.3 | <b>20.2</b> | -0.7  | 0.1  | <b>9.3</b>  | -1.0 | 0.2 | <b>10.0</b> | -0.7 | 0.0 |                   |  |
|                             |                                       | -2.3 | 0.0 |             | -8.7 | 0.5 |             | -10.0 | 0.5  |             | -6.0 | 0.4 |             | -8.3 | 0.2 |                   |  |
| <b>AAUKBK</b>               | <b>4.2</b>                            | -0.5 | 0.2 | <b>18.8</b> | -0.2 | 0.1 | <b>24.0</b> | -0.4  | 0.1  | <b>9.6</b>  | -0.9 | 0.1 | <b>14.6</b> | -0.3 | 0.0 |                   |  |
|                             |                                       | -0.8 | 0.1 |             | -1.2 | 0.2 |             | -6.2  | 0.4  |             | -5.6 | 0.1 |             | -3.7 | 0.2 |                   |  |
| <b>GZ63WD</b>               | <b>4.1</b>                            | -0.6 | 0.8 | <b>17.6</b> | -0.4 | 0.6 | <b>30.0</b> | 0.0   | 0.4  | <b>13.2</b> | -0.3 | 0.5 | <b>15.9</b> | -0.2 | 0.2 |                   |  |
|                             |                                       | -1.0 | 0.4 |             | -2.4 | 1.0 |             | -0.2  | 3.0  |             | -2.0 | 1.0 |             | -2.4 | 0.9 |                   |  |
| <b>CJTVUF</b>               | <b>4.9</b>                            | -0.1 | 0.7 | <b>17.4</b> | -0.4 | 1.6 | <b>27.5</b> | -0.2  | 0.1  | <b>15.4</b> | 0.0  | 1.1 | <b>20.7</b> | 0.2  | 0.7 |                   |  |
|                             |                                       | -0.1 | 0.3 |             | -2.6 | 2.7 |             | -2.7  | 0.7  |             | 0.2  | 2.0 |             | 2.4  | 2.9 |                   |  |
| <b>83L8FJ</b>               | <b>6.4</b>                            | 0.9  | 0.9 | <b>23.5</b> | 0.5  | 0.3 | <b>27.0</b> | -0.2  | 0.1  | <b>17.6</b> | 0.4  | 0.5 | <b>27.2</b> | 0.7  | 0.2 |                   |  |
|                             |                                       | 1.4  | 0.4 |             | 3.5  | 0.5 |             | -3.2  | 0.9  |             | 2.3  | 0.8 |             | 8.9  | 0.6 |                   |  |
| <b>BFZE6F</b>               | <b>5.5</b>                            | 0.3  | 0.3 | <b>26.0</b> | 0.9  | 0.2 | <b>42.1</b> | 0.8   | 0.0  | <b>16.1</b> | 0.1  | 0.1 | <b>18.2</b> | 0.0  | 0.1 |                   |  |
|                             |                                       | 0.4  | 0.1 |             | 5.9  | 0.3 |             | 11.9  | 0.2  |             | 0.8  | 0.2 |             | -0.1 | 0.5 |                   |  |
| <b>644GFL</b>               | <b>6.7</b>                            | 1.1  | 1.6 | <b>27.8</b> | 1.2  | 0.8 | <b>49.9</b> | 1.4   | 0.5  | <b>19.0</b> | 0.6  | 0.6 | <b>32.1</b> | 1.1  | 0.4 |                   |  |
|                             |                                       | 1.6  | 0.7 |             | 7.7  | 1.4 |             | 19.7  | 4.1  |             | 3.8  | 1.0 |             | 13.8 | 1.6 |                   |  |
| <b>2GK3BP</b>               | <b>6.0</b>                            | 0.6  | 3.7 | <b>21.0</b> | 0.1  | 2.2 | <b>30.3</b> | 0.0   | 0.8  | <b>17.7</b> | 0.4  | 0.2 | <b>23.2</b> | 0.4  | 0.5 |                   |  |
|                             |                                       | 1.0  | 1.7 |             | 0.9  | 3.7 |             | 0.1   | 5.8  |             | 2.5  | 0.3 |             | 4.9  | 2.1 |                   |  |
| <b>33JQFQ</b>               | <b>4.3</b>                            | -0.5 | 0.3 | <b>14.3</b> | -0.9 | 0.8 | <b>25.6</b> | -0.3  | 0.0  | <b>12.5</b> | -0.4 | 0.5 | <b>18.7</b> | 0.0  | 0.5 |                   |  |
|                             |                                       | -0.7 | 0.1 |             | -5.7 | 1.4 |             | -4.6  | 0.1  |             | -2.7 | 0.9 |             | 0.4  | 1.8 |                   |  |
| <b>XNBEWV</b>               | <b>5.3</b>                            | 0.2  | 0.5 | <b>20.8</b> | 0.1  | 1.1 | <b>38.6</b> | 0.6   | 0.0  | <b>20.4</b> | 0.8  | 0.4 | <b>26.4</b> | 0.7  | 0.4 |                   |  |
|                             |                                       | 0.3  | 0.2 |             | 0.7  | 1.8 |             | 8.4   | 0.3  |             | 5.1  | 0.8 |             | 8.1  | 1.6 |                   |  |
| <b>6BMKMN</b>               | <b>2.3</b>                            | -1.8 | 0.8 | <b>15.6</b> | -0.7 | 0.6 | <b>30.1</b> | 0.0   | 0.2  | <b>11.2</b> | -0.6 | 0.2 | <b>17.7</b> | 0.0  | 0.2 |                   |  |
|                             |                                       | -2.8 | 0.4 |             | -4.4 | 1.0 |             | -0.1  | 1.2  |             | -4.0 | 0.4 |             | -0.6 | 0.7 |                   |  |
| <b>9JP2MJ</b>               | <b>3.9</b>                            | -0.7 | 0.3 | <b>16.5</b> | -0.5 | 0.3 | <b>24.5</b> | -0.4  | 0.1  | <b>12.0</b> | -0.5 | 0.4 | <b>15.7</b> | -0.2 | 0.2 |                   |  |
|                             |                                       | -1.1 | 0.1 |             | -3.6 | 0.5 |             | -5.7  | 0.7  |             | -3.2 | 0.8 |             | -2.7 | 0.9 |                   |  |
| <b>PFR9KY</b>               | <b>6.3</b>                            | 0.8  | 1.3 | <b>20.3</b> | 0.0  | 0.3 | <b>25.7</b> | -0.3  | 0.2  | <b>13.7</b> | -0.3 | 0.6 | <b>14.3</b> | -0.3 | 0.1 |                   |  |
|                             |                                       | 1.3  | 0.6 |             | 0.3  | 0.6 |             | -4.5  | 1.5  |             | -1.6 | 1.2 |             | -4.0 | 0.6 |                   |  |
| <b>K8VMR6</b>               | <b>5.4</b>                            | 0.2  | 0.3 | <b>17.7</b> | -0.4 | 0.1 | <b>30.0</b> | 0.0   | 0.1  | <b>15.0</b> | 0.0  | 0.1 | <b>19.7</b> | 0.1  | 0.1 |                   |  |
|                             |                                       | 0.3  | 0.1 |             | -2.4 | 0.2 |             | -0.2  | 0.6  |             | -0.2 | 0.2 |             | 1.4  | 0.6 |                   |  |
| <b>FPNYC9</b>               | <b>4.8</b>                            | -0.1 | 0.3 | <b>19.2</b> | -0.1 | 0.2 | <b>32.4</b> | 0.2   | 0.1  | <b>14.7</b> | -0.1 | 0.2 | <b>18.3</b> | 0.0  | 0.0 |                   |  |
|                             |                                       | -0.2 | 0.1 |             | -0.8 | 0.4 |             | 2.2   | 0.8  |             | -0.5 | 0.4 |             | 0.0  | 0.1 |                   |  |
| <b>WGX7VT</b>               | <b>5.0</b>                            | 0.0  | 0.1 | <b>20.1</b> | 0.0  | 0.3 | <b>27.6</b> | -0.2  | 0.1  | <b>22.6</b> | 1.2  | 3.0 | <b>45.7</b> | 2.2  | 0.1 |                   |  |
|                             |                                       | 0.0  | 0.0 |             | 0.1  | 0.6 |             | -2.6  | 0.5  |             | 7.4  | 5.5 |             | 27.4 | 0.6 |                   |  |
| <b>QECBRZ</b>               | <b>6.1</b>                            | 0.7  | 0.1 | <b>22.7</b> | 0.4  | 0.1 | <b>44.0</b> | 1.0   | 0.1  | <b>24.5</b> | 1.5  | 0.8 | <b>23.3</b> | 0.4  | 0.1 |                   |  |
|                             |                                       | 1.1  | 0.1 |             | 2.7  | 0.2 |             | 13.8  | 0.8  |             | 9.3  | 1.5 |             | 5.0  | 0.4 |                   |  |
| <b>6VACMK</b>               | <b>3.8</b>                            | -0.8 | 0.2 | <b>14.0</b> | -0.9 | 0.1 | <b>20.8</b> | -0.7  | 0.1  | <b>7.4</b>  | -1.3 | 0.0 | <b>19.6</b> | 0.1  | 0.3 |                   |  |
|                             |                                       | -1.2 | 0.1 |             | -6.1 | 0.2 |             | -9.4  | 0.5  |             | -7.8 | 0.1 |             | 1.3  | 1.3 |                   |  |
| <b>DCARMD</b>               | <b>10.5</b>                           | 3.5  | 1.8 | <b>58.5</b> | 5.9  | 3.5 | <b>87.5</b> | 4.0   | 2.3  | <b>43.5</b> | 4.6  | 2.9 | <b>35.2</b> | 1.4  | 1.3 |                   |  |
|                             |                                       | 5.4  | 0.8 |             | 38.4 | 5.8 |             | 57.3  | 17.0 |             | 28.3 | 5.3 |             | 16.9 | 5.2 |                   |  |
| <b>T9EFX6</b>               | <b>6.1</b>                            | 0.7  |     | <b>33.2</b> | 2.0  |     | <b>39.0</b> | 0.6   |      | <b>13.6</b> | -0.3 |     | <b>16.5</b> | -0.1 |     |                   |  |
|                             |                                       | 1.0  | 0.0 |             | 13.2 | 0.0 |             | 8.8   | 0.0  |             | -1.6 | 0.0 |             | -1.8 | 0.0 |                   |  |



## ALP Program - Participant Web Summary Report - Cycle 29

|               | 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>BMDAYP</b> | 4.7                | -0.2    | 0.9     | 19.7               | -0.1    | 1.2     | 61.0               | 2.2     | 3.6     | 13.3               | -0.3    | 0.3     | 14.7               | -0.3    | 0.4     |
|               |                    | -0.3    | 0.4     |                    | -0.4    | 2.1     |                    | 30.8    | 27.1    |                    | -1.9    | 0.6     |                    | -3.6    | 1.5     |
| <b>T84DB7</b> | 7.5                | 1.6     | 0.8     | 26.1               | 0.9     | 1.1     | 32.9               | 0.2     | 0.3     | 20.9               | 0.9     | 0.5     | 30.6               | 1.0     | 0.5     |
|               |                    | 2.5     | 0.4     |                    | 6.1     | 1.8     |                    | 2.7     | 2.0     |                    | 5.7     | 0.9     |                    | 12.3    | 2.2     |
| <b>63C7VU</b> | 4.4                | -0.4    | 0.4     | 20.2               | 0.0     | 0.1     | 38.7               | 0.6     | 0.1     | 18.4               | 0.5     | 0.2     | 18.2               | 0.0     | 0.3     |
|               |                    | -0.7    | 0.2     |                    | 0.1     | 0.2     |                    | 8.5     | 1.1     |                    | 3.1     | 0.3     |                    | -0.1    | 1.2     |
| <b>2WG8UU</b> | 5.9                | 0.6     | 2.1     | 23.0               | 0.5     | 2.4     | 37.2               | 0.5     | 0.9     | 20.3               | 0.8     | 2.1     | 19.6               | 0.1     | 1.0     |
|               |                    | 0.9     | 1.0     |                    | 3.0     | 4.0     |                    | 7.0     | 6.8     |                    | 5.1     | 3.8     |                    | 1.3     | 4.1     |
| <b>UNPG82</b> | 5.3                | 0.1     | 0.3     | 21.6               | 0.2     | 0.7     | 29.0               | -0.1    | 0.1     | 15.8               | 0.1     | 0.0     | 15.9               | -0.2    | 0.1     |
|               |                    | 0.2     | 0.2     |                    | 1.5     | 1.1     |                    | -1.2    | 1.1     |                    | 0.6     | 0.1     |                    | -2.4    | 0.5     |
| <b>8CMGZN</b> | 5.0                | -0.1    | 0.3     | 15.3               | -0.7    | 0.2     | 22.3               | -0.6    | 0.1     | 9.3                | -1.0    | 0.1     | 16.7               | -0.1    | 0.1     |
|               |                    | -0.1    | 0.2     |                    | -4.8    | 0.3     |                    | -7.9    | 0.8     |                    | -6.0    | 0.3     |                    | -1.6    | 0.2     |
| <b>CPEWRJ</b> | 6.0                | 0.6     | 0.5     | 24.1               | 0.6     | 0.5     | 35.9               | 0.4     | 0.1     | 17.3               | 0.3     | 0.2     | 17.5               | -0.1    | 0.5     |
|               |                    | 1.0     | 0.2     |                    | 4.0     | 0.9     |                    | 5.6     | 0.7     |                    | 2.0     | 0.3     |                    | -0.8    | 1.9     |
| <b>VBVLAX</b> | 5.1                | 0.0     | 0.5     | 18.6               | -0.2    | 0.3     | 33.8               | 0.3     | 0.2     | 9.6                | -0.9    | 0.7     | 18.0               | 0.0     | 0.1     |
|               |                    | 0.0     | 0.2     |                    | -1.4    | 0.5     |                    | 3.6     | 1.4     |                    | -5.6    | 1.3     |                    | -0.3    | 0.2     |
| <b>AM2DUK</b> | 4.7                | -0.2    | 0.2     | 20.3               | 0.0     | 0.7     | 43.7               | 1.0     | 2.0     | 13.3               | -0.3    | 0.3     | 40.3               | 1.8     | 3.8     |
|               |                    | -0.3    | 0.1     |                    | 0.3     | 1.2     |                    | 13.5    | 15.3    |                    | -1.9    | 0.6     |                    | 22.0    | 15.3    |
| <b>3BBBBQ</b> | 5.0                | 0.0     |         | 15.7               | -0.7    | 0.3     | 25.0               | -0.4    | 0.1     | 14.0               | -0.2    | 1.1     |                    |         |         |
|               |                    | 0.0     | 0.0     |                    | -4.4    | 0.6     |                    | -5.2    | 1.0     |                    | -1.2    | 2.0     |                    |         |         |
| <b>4JGF2L</b> | 3.6                | -0.9    | 0.0     | 18.4               | -0.3    | 0.1     | 15.5               | -1.0    | 0.0     | 10.9               | -0.7    | 0.0     | 14.2               | -0.3    | 0.0     |
|               |                    | -1.5    | 0.0     |                    | -1.7    | 0.1     |                    | -14.7   | 0.1     |                    | -4.4    | 0.1     |                    | -4.1    | 0.1     |
| <b>YTJ7GT</b> | 5.5                | 0.3     |         | 24.2               | 0.6     |         | 35.0               | 0.3     |         | 17.5               | 0.4     |         | 17.3               | -0.1    |         |
|               |                    | 0.5     | 0.0     |                    | 4.1     | 0.0     |                    | 4.8     | 0.0     |                    | 2.3     | 0.0     |                    | -1.0    | 0.0     |
| <b>MZGWVZ</b> | 5.6                | 0.3     | 1.5     | 21.3               | 0.2     | 0.8     | 49.3               | 1.3     | 2.0     | 21.9               | 1.1     | 2.3     | 95.2               | 6.2     | 1.4     |
|               |                    | 0.5     | 0.7     |                    | 1.2     | 1.3     |                    | 19.0    | 14.7    |                    | 6.7     | 4.2     |                    | 76.9    | 5.6     |
| <b>C8H8XB</b> | 4.0                | -0.7    |         | 17.0               | -0.5    | 0.6     | 28.7               | -0.1    | 0.2     | 16.3               | 0.2     | 0.3     | 15.7               | -0.2    | 0.5     |
|               |                    | -1.0    | 0.0     |                    | -3.1    | 1.0     |                    | -1.5    | 1.2     |                    | 1.1     | 0.6     |                    | -2.6    | 2.1     |
| <b>ZZZ3WM</b> | 8.8                | 2.4     | 1.7     | 39.7               | 3.0     | 1.7     | 85.1               | 3.9     | 3.2     | 32.3               | 2.8     | 2.2     | 41.6               | 1.9     | 0.4     |
|               |                    | 3.7     | 0.8     |                    | 19.6    | 2.9     |                    | 54.9    | 24.3    |                    | 17.1    | 4.0     |                    | 23.3    | 1.6     |
| <b>PHEWWY</b> | 2.7                | -1.5    | 0.1     | 16.7               | -0.5    | 0.1     | 28.3               | -0.1    | 0.0     | 14.2               | -0.2    | 0.0     | 18.1               | 0.0     | 0.1     |
|               |                    | -2.4    | 0.1     |                    | -3.4    | 0.1     |                    | -1.9    | 0.2     |                    | -1.0    | 0.1     |                    | -0.2    | 0.2     |
| <b>XYFCWR</b> | 5.6                | 0.4     | 0.2     | 20.0               | 0.0     | 0.1     | 37.3               | 0.5     | 0.0     | 17.6               | 0.4     | 0.0     | 25.0               | 0.5     | 0.1     |
|               |                    | 0.6     | 0.1     |                    | -0.1    | 0.1     |                    | 7.1     | 0.3     |                    | 2.4     | 0.1     |                    | 6.7     | 0.4     |
| <b>J6NUD7</b> | 4.5                | -0.4    | 0.3     | 17.7               | -0.4    | 0.2     | 26.6               | -0.3    | 0.3     | 12.3               | -0.5    | 0.1     | 15.0               | -0.3    | 0.2     |
|               |                    | -0.6    | 0.1     |                    | -2.3    | 0.3     |                    | -3.6    | 2.3     |                    | -3.0    | 0.1     |                    | -3.3    | 0.7     |
| <b>VNJNRP</b> | 5.0                | 0.0     |         | 19.0               | -0.2    |         | 29.0               | -0.1    |         | 15.0               | 0.0     |         | 19.0               | 0.1     |         |
|               |                    | 0.0     | 0.0     |                    | -1.1    | 0.0     |                    | -1.2    | 0.0     |                    | -0.2    | 0.0     |                    | 0.7     | 0.0     |
| <b>DYXQH7</b> | 6.0                | 0.6     | 1.8     | 22.1               | 0.3     | 1.6     | 45.3               | 1.1     | 1.0     | 15.7               | 0.1     | 1.2     | 65.2               | 3.8     | 4.1     |
|               |                    | 1.0     | 0.8     |                    | 2.1     | 2.7     |                    | 15.1    | 7.9     |                    | 0.4     | 2.1     |                    | 46.9    | 16.3    |



## ALP Program - Participant Web Summary Report - Cycle 29

|                          | 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>Grand Median</b>      |                    | 5.05    |         |                    | 20.1    |         |                    | 30.2    |         |                    | 15.2    |         |                    | 18.3    |         |
| <b>Median Abs Dev</b>    |                    | 0.87    |         |                    | 2.7     |         |                    | 5.7     |         |                    | 2.6     |         |                    | 2.7     |         |
| <b>Avg Within Lab SD</b> |                    | 0.45    |         |                    | 1.7     |         |                    | 7.5     |         |                    | 1.8     |         |                    | 4.0     |         |
| <b>Labs Included</b>     |                    | 40      |         |                    | 40      |         |                    | 40      |         |                    | 40      |         |                    | 39      |         |
| <b>Labs Reporting</b>    |                    | 40      |         |                    | 40      |         |                    | 40      |         |                    | 40      |         |                    | 39      |         |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 173) in the Micronutrients Property Groups |             |       |      |             |       |      |             |       |      |             |       |      |             |       | Data units: mg/kg |
|---|-------------|-------|------|-------------|-------|------|-------------|-------|------|-------------|-------|------|-------------|-------|-------------------|
|   | SRSSRS1601  |       |      | SRSSRS1602  |       |      | SRSSRS1603  |       |      | SRSSRS1604  |       |      | SRSSRS1605  |       |                   |
| YAA32W  | <b>0.50</b> | -1.56 | 0.08 | <b>0.67</b> | -1.38 | 0.60 | <b>2.96</b> | -1.42 | 0.46 | <b>0.76</b> | -0.58 | 0.58 | <b>0.14</b> | 0.07  | 0.80              |
| AAUKBK  | <b>0.79</b> | 0.31  | 0.00 | <b>1.03</b> | 0.52  | 0.21 | <b>4.08</b> | 0.12  | 0.13 | <b>0.72</b> | -0.75 | 0.09 | <b>0.08</b> | -0.47 | 0.19              |
| GZ63WD  | <b>0.62</b> | -0.80 | 0.13 | <b>0.78</b> | -0.82 | 0.63 | <b>4.04</b> | 0.06  | 0.92 | <b>0.81</b> | -0.35 | 0.23 | <b>0.09</b> | -0.39 | 0.86              |
| CJTVUF  | <b>0.74</b> | 0.01  | 0.88 | <b>0.85</b> | -0.16 | 0.04 | <b>3.64</b> | 0.05  | 0.22 | <b>0.86</b> | -0.07 | 0.02 | <b>0.15</b> | -0.04 | 0.03              |
| 83L8FJ  | <b>0.67</b> | -0.43 | 0.31 | <b>0.93</b> | -0.44 | 0.31 | <b>4.29</b> | -0.49 | 0.14 | <b>0.95</b> | -0.10 | 0.98 | <b>0.16</b> | 0.18  | 0.43              |
| BFZE6F  | <b>0.96</b> | 0.00  | 0.04 | <b>1.55</b> | 0.00  | 0.40 | <b>5.49</b> | -0.36 | 0.03 | <b>1.37</b> | -0.02 | 0.07 | <b>0.16</b> | 0.02  | 0.01              |
| 644GFL  | <b>0.86</b> | -0.43 | 0.31 | <b>1.12</b> | 0.00  | 0.40 | <b>4.71</b> | 0.40  | 0.93 | <b>0.94</b> | 0.36  | 0.41 | <b>0.12</b> | 0.21  | 0.24              |
| 2GK3BP  | <b>0.87</b> | -0.07 | 0.01 | <b>1.00</b> | 3.22  | 0.23 | <b>4.03</b> | 2.04  | 0.12 | <b>0.97</b> | 2.39  | 0.17 | <b>0.13</b> | 0.28  | 0.15              |
| 33JQFQ  | <b>0.69</b> | 0.22  | 0.02 | <b>0.79</b> | 0.62  | 0.01 | <b>3.25</b> | 1.49  | 0.03 | <b>0.88</b> | 0.50  | 0.01 | <b>0.12</b> | 0.03  | 0.00              |
| XNBEWV  | <b>0.88</b> | 0.73  | 1.47 | <b>1.08</b> | 0.97  | 0.32 | <b>4.47</b> | 0.98  | 1.45 | <b>1.00</b> | 0.32  | 0.56 | <b>0.14</b> | -0.11 | 0.75              |
| 6BMKMN  | <b>1.01</b> | 0.11  | 0.07 | <b>1.33</b> | 0.18  | 0.02 | <b>4.39</b> | 0.71  | 0.35 | <b>1.14</b> | 0.07  | 0.04 | <b>0.25</b> | -0.01 | 0.02              |
| 9JP2MJ  | <b>0.65</b> | 0.80  | 3.38 | <b>0.82</b> | 0.35  | 3.57 | <b>3.17</b> | 0.05  | 3.60 | <b>0.74</b> | 0.43  | 2.26 | <b>0.07</b> | 0.01  | 1.93              |
| PFR9KY  | <b>0.92</b> | 0.13  | 0.15 | <b>1.19</b> | 0.07  | 0.20 | <b>4.28</b> | 0.04  | 0.86 | <b>0.93</b> | 0.09  | 0.15 | <b>0.15</b> | 0.00  | 0.06              |
| K8VMR6  | <b>0.81</b> | -0.31 | 0.78 | <b>0.93</b> | -0.77 | 0.72 | <b>3.47</b> | -1.03 | 0.11 | <b>0.91</b> | 0.02  | 1.96 | <b>0.14</b> | -0.07 | 1.58              |
| FPNYC9  | <b>0.74</b> | -0.05 | 0.04 | <b>0.85</b> | -0.15 | 0.04 | <b>3.86</b> | -0.75 | 0.03 | <b>0.71</b> | 0.01  | 0.13 | <b>0.09</b> | -0.01 | 0.05              |
| WGX7VT  | <b>0.73</b> | 0.88  | 0.58 | <b>0.84</b> | 0.76  | 0.47 | <b>3.34</b> | 0.65  | 0.75 | <b>0.85</b> | 0.60  | 0.98 | <b>0.12</b> | 0.10  | 0.19              |
| QECBRZ  | <b>0.86</b> | 0.14  | 0.03 | <b>1.02</b> | 0.15  | 0.03 | <b>5.13</b> | 0.48  | 0.18 | <b>1.33</b> | 0.13  | 0.07 | <b>0.11</b> | 0.01  | 0.01              |
| 6VACMK  | <b>0.60</b> | 1.69  | 0.64 | <b>0.67</b> | 2.09  | 0.27 | <b>3.00</b> | 0.55  | 0.24 | <b>0.50</b> | 1.26  | 0.43 | <b>0.10</b> | 1.00  | 0.21              |
| DCARMD  | <b>1.71</b> | 0.27  | 0.03 | <b>2.45</b> | 0.40  | 0.02 | <b>8.54</b> | 0.40  | 0.06 | <b>1.99</b> | 0.26  | 0.03 | <b>0.26</b> | 0.12  | 0.01              |
| T9EFX6  | <b>0.58</b> | -0.56 | 0.92 | <b>1.05</b> | -0.61 | 0.63 | <b>4.01</b> | -1.13 | 0.31 | <b>0.68</b> | -0.68 | 0.87 | <b>0.12</b> | -0.53 | 0.33              |
|   |             | -0.09 | 0.04 |             | -0.12 | 0.04 |             | -0.82 | 0.08 |             | -0.14 | 0.06 |             | -0.06 | 0.01              |
|   |             | 1.12  | 0.09 |             | 1.34  | 0.97 |             | 0.39  | 0.81 |             | 0.24  | 0.29 |             | 0.18  | 0.54              |
|   |             | 0.18  | 0.00 |             | 0.26  | 0.05 |             | 0.29  | 0.19 |             | 0.05  | 0.02 |             | 0.02  | 0.02              |
|   |             | 0.44  | 0.38 |             | -0.04 | 0.10 |             | -0.73 | 0.24 |             | 0.14  | 0.17 |             | 0.10  | 0.39              |
|   |             | 0.07  | 0.02 |             | -0.01 | 0.01 |             | -0.53 | 0.06 |             | 0.03  | 0.01 |             | 0.01  | 0.01              |
|   |             | -0.01 | 0.22 |             | -0.46 | 0.55 |             | -0.19 | 0.38 |             | -0.81 | 0.51 |             | -0.33 | 0.69              |
|   |             | 0.00  | 0.01 |             | -0.09 | 0.03 |             | -0.14 | 0.09 |             | -0.17 | 0.03 |             | -0.04 | 0.02              |
|   |             | -0.07 | 1.15 |             | -0.49 | 0.18 |             | -0.90 | 0.04 |             | -0.12 | 0.52 |             | -0.13 | 0.19              |
|   |             | -0.01 | 0.05 |             | -0.09 | 0.01 |             | -0.66 | 0.01 |             | -0.03 | 0.04 |             | -0.02 | 0.01              |
|   |             | 0.73  | 0.64 |             | 0.45  | 1.12 |             | 1.56  | 1.31 |             | 2.20  | 0.96 |             | -0.19 | 0.88              |
|   |             | 0.12  | 0.03 |             | 0.09  | 0.06 |             | 1.14  | 0.31 |             | 0.46  | 0.07 |             | -0.02 | 0.03              |
|   |             | -0.91 | 0.00 |             | -1.40 | 1.03 |             | -1.37 | 0.42 |             | -1.83 | 0.00 |             | -0.27 | 0.00              |
|   |             | -0.14 | 0.00 |             | -0.27 | 0.06 |             | -1.00 | 0.10 |             | -0.38 | 0.00 |             | -0.03 | 0.00              |
|   |             | 6.19  | 0.96 |             | 7.95  | 3.51 |             | 6.24  | 6.09 |             | 5.36  | 3.77 |             | 1.11  | 0.88              |
|   |             | 0.97  | 0.04 |             | 1.52  | 0.20 |             | 4.54  | 1.46 |             | 1.11  | 0.26 |             | 0.13  | 0.03              |
|   |             | -1.03 | 0.00 |             | 0.61  | 0.00 |             | 0.02  | 0.00 |             | -0.96 | 0.00 |             | -0.10 | 0.00              |
|   |             | -0.16 | 0.00 |             | 0.12  | 0.00 |             | 0.01  | 0.00 |             | -0.20 | 0.00 |             | -0.01 | 0.00              |



## ALP Program - Participant Web Summary Report - Cycle 29

|               | 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>BMDAYP</b> | <b>0.71</b>        | -0.22   | 0.56    | <b>0.93</b>        | -0.02   | 0.95    | <b>3.67</b>        | -0.45   | 0.87    | <b>0.76</b>        | -0.55   | 0.37    | <b>0.09</b>        | -0.36   | 0.35    |
|               |                    | -0.04   | 0.03    |                    | 0.00    | 0.05    |                    | -0.33   | 0.21    |                    | -0.12   | 0.03    |                    | -0.04   | 0.01    |
|               |                    | 1.38    | 0.80    |                    | 0.54    | 0.22    |                    | -0.01   | 0.44    |                    | 1.30    | 0.11    |                    | 0.99    | 0.85    |
| <b>T84DB7</b> | <b>0.96</b>        | 0.22    | 0.04    | <b>1.04</b>        | 0.10    | 0.01    | <b>3.99</b>        | -0.01   | 0.11    | <b>1.15</b>        | 0.27    | 0.01    | <b>0.25</b>        | 0.11    | 0.03    |
|               |                    | -0.06   | 1.95    |                    | -0.04   | 1.41    |                    | 0.51    | 0.26    |                    | -0.04   | 1.24    |                    | -0.18   | 0.37    |
| <b>63C7VU</b> | <b>0.73</b>        | -0.01   | 0.09    | <b>0.93</b>        | -0.01   | 0.08    | <b>4.37</b>        | 0.37    | 0.06    | <b>0.87</b>        | -0.01   | 0.08    | <b>0.11</b>        | -0.02   | 0.01    |
|               |                    | 0.78    | 3.18    |                    | 0.71    | 3.45    |                    | 0.69    | 2.97    |                    | 1.25    | 2.53    |                    | 0.04    | 0.51    |
| <b>2WG8UU</b> | <b>0.86</b>        | 0.12    | 0.14    | <b>1.07</b>        | 0.14    | 0.19    | <b>4.50</b>        | 0.50    | 0.71    | <b>1.14</b>        | 0.26    | 0.17    | <b>0.14</b>        | 0.01    | 0.02    |
|               |                    | 0.33    | 0.34    |                    | 0.19    | 0.31    |                    | -0.51   | 0.47    |                    | -0.02   | 0.37    |                    | 0.16    | 0.33    |
| <b>UNPG82</b> | <b>0.79</b>        | 0.05    | 0.02    | <b>0.97</b>        | 0.04    | 0.02    | <b>3.63</b>        | -0.37   | 0.11    | <b>0.87</b>        | -0.01   | 0.03    | <b>0.15</b>        | 0.02    | 0.01    |
|               |                    | -0.39   | 0.58    |                    | -0.95   | 0.27    |                    | -1.62   | 0.04    |                    | -1.23   | 0.37    |                    | 0.07    | 0.33    |
| <b>8CMGZN</b> | <b>0.68</b>        | -0.06   | 0.03    | <b>0.75</b>        | -0.18   | 0.02    | <b>2.82</b>        | -1.18   | 0.01    | <b>0.62</b>        | -0.26   | 0.03    | <b>0.14</b>        | 0.01    | 0.01    |
|               |                    | -0.40   | 0.28    |                    | -0.06   | 0.38    |                    | 0.01    | 0.30    |                    | 0.15    | 0.14    |                    | -0.26   | 0.04    |
| <b>CPEWRJ</b> | <b>0.68</b>        | -0.06   | 0.01    | <b>0.92</b>        | -0.01   | 0.02    | <b>4.01</b>        | 0.01    | 0.07    | <b>0.91</b>        | 0.03    | 0.01    | <b>0.10</b>        | -0.03   | 0.00    |
|               |                    | -0.05   | 1.28    |                    | -0.35   | 1.03    |                    | 0.60    | 0.64    |                    | -1.34   | 1.48    |                    | 1.45    | 3.34    |
| <b>VBVLAX</b> | <b>0.73</b>        | -0.01   | 0.06    | <b>0.87</b>        | -0.07   | 0.06    | <b>4.43</b>        | 0.44    | 0.15    | <b>0.60</b>        | -0.28   | 0.10    | <b>0.30</b>        | 0.17    | 0.10    |
|               |                    | -0.16   | 0.34    |                    | 0.00    | 1.32    |                    | -0.27   | 1.11    |                    | -0.23   | 0.64    |                    | -0.01   | 0.58    |
| <b>AM2DUK</b> | <b>0.72</b>        | -0.03   | 0.02    | <b>0.93</b>        | 0.00    | 0.07    | <b>3.80</b>        | -0.20   | 0.26    | <b>0.83</b>        | -0.05   | 0.04    | <b>0.13</b>        | 0.00    | 0.02    |
|               |                    | 1.65    |         |                    | 0.35    |         |                    | -1.05   | 0.64    |                    | 1.07    | 0.00    |                    | 3.47    | 1.93    |
| <b>3BBBBQ</b> | <b>1.00</b>        | 0.26    | 0.00    | <b>1.00</b>        | 0.07    | 0.00    | <b>3.23</b>        | -0.76   | 0.15    | <b>1.10</b>        | 0.22    | 0.00    | <b>0.53</b>        | 0.40    | 0.06    |
|               |                    | 0.65    | 0.10    |                    | 0.16    | 0.06    |                    | -0.56   | 0.05    |                    | -0.09   | 0.05    |                    | 0.32    | 0.04    |
| <b>4JGF2L</b> | <b>0.84</b>        | 0.10    | 0.00    | <b>0.96</b>        | 0.03    | 0.00    | <b>3.59</b>        | -0.41   | 0.01    | <b>0.86</b>        | -0.02   | 0.00    | <b>0.17</b>        | 0.04    | 0.00    |
|               |                    | -0.01   |         |                    | 0.35    |         |                    | 0.32    |         |                    | -0.09   |         |                    | 1.54    |         |
| <b>YTJ7GT</b> | <b>0.74</b>        | 0.00    | 0.00    | <b>1.00</b>        | 0.07    | 0.00    | <b>4.23</b>        | 0.23    | 0.00    | <b>0.86</b>        | -0.02   | 0.00    | <b>0.31</b>        | 0.18    | 0.00    |
|               |                    | 0.80    | 0.34    |                    | 0.75    | 0.55    |                    | 0.25    | 0.57    |                    | 0.57    | 0.37    |                    | 8.02    | 3.18    |
| <b>MZGWVZ</b> | <b>0.87</b>        | 0.13    | 0.02    | <b>1.08</b>        | 0.14    | 0.03    | <b>4.18</b>        | 0.18    | 0.14    | <b>1.00</b>        | 0.12    | 0.03    | <b>1.06</b>        | 0.93    | 0.10    |
|               |                    | -1.33   | 1.28    |                    | -1.23   | 0.00    |                    | -1.14   | 0.24    |                    | 0.43    | 0.85    |                    | -0.27   | 0.00    |
| <b>C8H8XB</b> | <b>0.53</b>        | -0.21   | 0.06    | <b>0.70</b>        | -0.23   | 0.00    | <b>3.17</b>        | -0.83   | 0.06    | <b>0.97</b>        | 0.09    | 0.06    | <b>0.10</b>        | -0.03   | 0.00    |
|               |                    | 8.03    | 11.02   |                    | 12.06   | 11.00   |                    | 9.70    | 5.73    |                    | 5.79    | 3.74    |                    | -0.03   | 2.27    |
| <b>ZZZ3WM</b> | <b>2.00</b>        | 1.26    | 0.50    | <b>3.24</b>        | 2.30    | 0.62    | <b>11.05</b>       | 7.06    | 1.37    | <b>2.08</b>        | 1.20    | 0.25    | <b>0.13</b>        | 0.00    | 0.07    |
|               |                    | -0.95   | 0.23    |                    | -0.98   | 0.18    |                    | -0.38   | 0.13    |                    | -0.43   | 0.11    |                    | -0.94   | 0.05    |
| <b>PHEWWY</b> | <b>0.59</b>        | -0.15   | 0.01    | <b>0.75</b>        | -0.19   | 0.01    | <b>3.72</b>        | -0.27   | 0.03    | <b>0.79</b>        | -0.09   | 0.01    | <b>0.02</b>        | -0.11   | 0.00    |
|               |                    | 0.52    | 0.15    |                    | 0.19    | 0.02    |                    | 0.53    | 0.07    |                    | 0.70    | 0.13    |                    | -0.52   | 0.17    |
| <b>XYFCWR</b> | <b>0.82</b>        | 0.08    | 0.01    | <b>0.97</b>        | 0.04    | 0.00    | <b>4.39</b>        | 0.39    | 0.02    | <b>1.02</b>        | 0.15    | 0.01    | <b>0.07</b>        | -0.06   | 0.01    |
|               |                    | -0.21   | 0.18    |                    | -0.31   | 0.23    |                    | -0.71   | 0.23    |                    | -0.42   | 0.15    |                    | -0.46   | 0.31    |
| <b>J6NUD7</b> | <b>0.71</b>        | -0.03   | 0.01    | <b>0.88</b>        | -0.06   | 0.01    | <b>3.48</b>        | -0.52   | 0.06    | <b>0.79</b>        | -0.09   | 0.01    | <b>0.08</b>        | -0.05   | 0.01    |
|               |                    | 0.69    |         |                    | -0.39   |         |                    | -1.11   |         |                    | 0.49    |         |                    | 0.24    |         |
| <b>VNJNRP</b> | <b>0.85</b>        | 0.11    | 0.00    | <b>0.86</b>        | -0.07   | 0.00    | <b>3.19</b>        | -0.81   | 0.00    | <b>0.98</b>        | 0.10    | 0.00    | <b>0.16</b>        | 0.03    | 0.00    |
|               |                    | 1.25    | 0.56    |                    | 1.35    | 0.96    |                    | 0.81    | 2.19    |                    | 1.09    | 3.43    |                    | 1.58    | 0.84    |
| <b>DYXQH7</b> | <b>0.94</b>        | 0.20    | 0.03    | <b>1.19</b>        | 0.26    | 0.05    | <b>4.59</b>        | 0.59    | 0.52    | <b>1.10</b>        | 0.23    | 0.23    | <b>0.31</b>        | 0.18    | 0.03    |



## ALP Program - Participant Web Summary Report - Cycle 29

|                          | 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>Grand Median</b>      |                    | 0.74    |         |                    | 0.93    |         |                    | 4.00    |         |                    | 0.88    |         |                    |         | 0.13    |
| <b>Median Abs Dev</b>    |                    | 0.10    |         |                    | 0.10    |         |                    | 0.40    |         |                    | 0.11    |         |                    |         | 0.03    |
| <b>Avg Within Lab SD</b> |                    | 0.05    |         |                    | 0.06    |         |                    | 0.24    |         |                    | 0.07    |         |                    |         | 0.03    |
| <b>Labs Included</b>     |                    | 38      |         |                    | 38      |         |                    | 38      |         |                    | 38      |         |                    |         | 38      |
| <b>Labs Reporting</b>    |                    | 38      |         |                    | 38      |         |                    | 38      |         |                    | 38      |         |                    |         | 38      |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 174) | in the Micronutrients Property Groups |      |             |      |              |      |             |      |             |      | Data units: mg/kg |
|----------------------------|---------------------------------------|------|-------------|------|--------------|------|-------------|------|-------------|------|-------------------|
|                            | SRSSRS1601                            |      | SRSSRS1602  |      | SRSSRS1603   |      | SRSSRS1604  |      | SRSSRS1605  |      |                   |
| <b>T9EFX6</b>              | <b>0.26</b>                           | 0.00 | <b>4.79</b> | 0.00 | <b>15.49</b> | 0.00 | <b>2.39</b> | 0.00 | <b>0.93</b> | 0.00 |                   |
|                            |                                       | 1.23 |             | 0.28 |              | 1.25 |             | 0.69 |             | 0.90 |                   |
| <b>CPEWRJ</b>              | <b>3.85</b>                           | 0.27 | <b>8.91</b> | 0.11 | <b>18.25</b> | 0.93 | <b>3.08</b> | 0.09 | <b>1.45</b> | 0.16 |                   |
|                            |                                       | 0.69 |             | 1.39 |              | 0.66 |             | 1.24 |             | 1.09 |                   |
| <b>4KCY3M</b>              | <b>2.33</b>                           | 0.15 | <b>6.07</b> | 0.55 | <b>11.07</b> | 0.49 | <b>1.77</b> | 0.15 | <b>0.80</b> | 0.20 |                   |
| <b>Grand Median</b>        |                                       | 2.33 |             | 6.07 |              | 15.5 |             | 2.39 |             | 0.93 |                   |
| <b>Median Abs Dev</b>      |                                       |      |             |      |              |      |             |      |             |      |                   |
| <b>Avg Within Lab SD</b>   |                                       | 0.22 |             | 0.40 |              | 0.7  |             | 0.12 |             | 0.18 |                   |
| <b>Labs Included</b>       |                                       | 3    |             | 3    |              | 3    |             | 3    |             | 3    |                   |
| <b>Labs Reporting</b>      |                                       | 3    |             | 3    |              | 3    |             | 3    |             | 3    |                   |





## ALP Program - Participant Web Summary Report - Cycle 29

| 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>Mn-H3PO4 (SubTestCode 175)</b> | <b>in the Micronutrients Property Groups</b> |      |             |              |             |              |             |              |             |              | <b>Data units: mg/kg</b> |
|-----------------------------------|--|------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|--------------------------|
|                                   | SRSSRS1601                                   |      | SRSSRS1602  |              | SRSSRS1603  |              | SRSSRS1604  |              | SRSSRS1605  |              |                          |
| <b>4KCY3M</b>                     | <b>1.00</b>                                  | 0.00 | <b>4.33</b> | 1.00<br>0.58 | <b>5.33</b> | 1.00<br>1.15 | <b>8.33</b> | 1.00<br>2.08 | <b>8.67</b> | 1.00<br>2.31 |                          |
| <b>Grand Median</b>               |  | 1.00 |             | 4.33         |             | 5.33         |             | 8.33         |             | 8.67         |                          |
| <b>Median Abs Dev</b>             |  |      |             |              |             |              |             |              |             |              |                          |
| <b>Avg Within Lab SD</b>          |  | 0.00 |             | 0.58         |             | 1.15         |             | 2.08         |             | 2.31         |                          |
| <b>Labs Included</b>              |  | 1    |             | 1            |             | 1            |             | 1            |             | 1            |                          |
| <b>Labs Reporting</b>             |  | 1    |             | 1            |             | 1            |             | 1            |             | 1            |                          |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 176) | in the Micronutrients Property Groups |       |      |              |       |      |              |       |      |              |       |      |             |       |      | Data units: mg/kg |
|---------------------------------------|---------------------------------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|-------|------|-------------|-------|------|-------------------|
|                                       | SRSSRS1601                            |       |      | SRSSRS1602   |       |      | SRSSRS1603   |       |      | SRSSRS1604   |       |      | SRSSRS1605  |       |      |                   |
| <b>AAUKBK</b>                         | <b>6.43</b>                           | 0.22  | 0.07 | <b>9.73</b>  | 0.58  | 0.19 | <b>3.10</b>  | 0.00  | 0.00 | <b>11.60</b> | -0.18 | 0.00 | <b>1.10</b> | -0.50 | 0.00 |                   |
|                                       |                                       | 0.50  | 0.06 |              | 1.68  | 0.06 |              | 0.00  | 0.00 |              | -0.40 | 0.00 |             | -0.90 | 0.00 |                   |
| <b>83L8FJ</b>                         | <b>5.88</b>                           | -0.02 | 0.23 | <b>7.27</b>  | -0.27 | 0.82 | <b>2.87</b>  | -0.09 | 0.44 | <b>12.37</b> | 0.16  | 0.61 | <b>1.60</b> | -0.22 | 0.27 |                   |
|                                       |                                       | -0.05 | 0.18 |              | -0.78 | 0.25 |              | -0.23 | 0.14 |              | 0.37  | 0.47 |             | -0.40 | 0.17 |                   |
| <b>BFZE6F</b>                         | <b>5.89</b>                           | -0.02 | 0.15 | <b>8.05</b>  | 0.00  | 0.25 | <b>2.67</b>  | -0.16 | 0.26 | <b>12.53</b> | 0.24  | 0.37 | <b>2.50</b> | 0.27  | 0.23 |                   |
|                                       |                                       | -0.05 | 0.12 |              | 0.00  | 0.08 |              | -0.43 | 0.08 |              | 0.53  | 0.29 |             | 0.50  | 0.14 |                   |
| <b>2GK3BP</b>                         | <b>7.29</b>                           | 0.60  | 0.86 | <b>8.97</b>  | 0.31  | 1.16 | <b>3.92</b>  | 0.30  | 1.46 | <b>13.98</b> | 0.89  | 2.12 | <b>2.60</b> | 0.33  | 0.72 |                   |
|                                       |                                       | 1.36  | 0.67 |              | 0.92  | 0.36 |              | 0.82  | 0.45 |              | 1.98  | 1.65 |             | 0.60  | 0.44 |                   |
| <b>6VACMK</b>                         | <b>5.93</b>                           | 0.00  | 0.32 | <b>7.37</b>  | -0.23 | 0.19 | <b>1.57</b>  | -0.56 | 0.19 | <b>10.47</b> | -0.69 | 0.32 | <b>1.63</b> | -0.20 | 0.80 |                   |
|                                       |                                       | 0.00  | 0.25 |              | -0.68 | 0.06 |              | -1.53 | 0.06 |              | -1.53 | 0.25 |             | -0.37 | 0.49 |                   |
| <b>LZMPAC</b>                         | <b>13.07</b>                          | 3.18  | 0.90 | <b>18.20</b> | 3.47  | 2.29 | <b>6.00</b>  | 1.06  | 1.71 | <b>18.17</b> | 2.76  | 1.49 | <b>2.37</b> | 0.20  | 2.19 |                   |
|                                       |                                       | 7.13  | 0.70 |              | 10.15 | 0.70 |              | 2.90  | 0.53 |              | 6.17  | 1.16 |             | 0.37  | 1.35 |                   |
| <b>AM2DUK</b>                         | <b>5.43</b>                           | -0.22 | 0.45 | <b>7.43</b>  | -0.21 | 1.24 | <b>12.67</b> | 3.49  | 1.87 | <b>12.00</b> | 0.00  | 1.28 | <b>8.17</b> | 3.41  | 1.38 |                   |
|                                       |                                       | -0.50 | 0.35 |              | -0.62 | 0.38 |              | 9.57  | 0.58 |              | 0.00  | 1.00 |             | 6.17  | 0.85 |                   |
| <b>YTJ7GT</b>                         | <b>4.50</b>                           | -0.64 |      | <b>7.40</b>  | -0.22 |      | <b>2.10</b>  | -0.36 |      | <b>9.50</b>  | -1.12 |      |             |       |      |                   |
|                                       |                                       | -1.43 | 0.00 |              | -0.65 | 0.00 |              | -1.00 | 0.00 |              | -2.50 | 0.00 |             |       |      |                   |
| <b>MZGWVZ</b>                         | <b>8.53</b>                           | 1.16  | 2.66 | <b>10.33</b> | 0.78  | 0.20 | <b>3.27</b>  | 0.06  | 0.39 | <b>11.94</b> | -0.03 | 0.20 | <b>1.53</b> | -0.26 | 0.22 |                   |
|                                       |                                       | 2.59  | 2.09 |              | 2.28  | 0.06 |              | 0.17  | 0.12 |              | -0.06 | 0.15 |             | -0.47 | 0.14 |                   |
| <b>Grand Median</b>                   |                                       | 5.93  |      | 8.05         |       |      | 3.10         |       |      | 12.0         |       |      | 2.00        |       |      |                   |
| <b>Median Abs Dev</b>                 |                                       | 0.50  |      | 0.78         |       |      | 0.82         |       |      | 0.5          |       |      | 0.48        |       |      |                   |
| <b>Avg Within Lab SD</b>              |                                       | 0.78  |      | 0.31         |       |      | 0.31         |       |      | 0.8          |       |      | 0.62        |       |      |                   |
| <b>Labs Included</b>                  |                                       | 9     |      | 9            |       |      | 9            |       |      | 9            |       |      | 8           |       |      |                   |
| <b>Labs Reporting</b>                 |                                       | 9     |      | 9            |       |      | 9            |       |      | 9            |       |      | 8           |       |      |                   |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 177) | in the Micronutrients Property Groups |       |      |             |       |      |             |       |      |             |       |      |             |       |      | Data units: mg/kg |
|--------------------------------|---------------------------------------|-------|------|-------------|-------|------|-------------|-------|------|-------------|-------|------|-------------|-------|------|-------------------|
|                                | SRSSRS1601                            |       |      | SRSSRS1602  |       |      | SRSSRS1603  |       |      | SRSSRS1604  |       |      | SRSSRS1605  |       |      |                   |
| <b>83L8FJ</b>                  | <b>0.74</b>                           | 0.54  | 0.59 | <b>0.96</b> | 0.31  | 0.57 | <b>0.52</b> | -0.26 | 0.35 | <b>0.42</b> | 0.00  | 0.25 | <b>0.02</b> | -0.49 | 0.25 |                   |
|                                |                                       | 0.13  | 0.05 |             | 0.10  | 0.05 |             | -0.05 | 0.02 |             | 0.00  | 0.02 |             | -0.03 | 0.00 |                   |
| <b>BFZE6F</b>                  | <b>0.91</b>                           | 1.22  | 0.11 | <b>1.10</b> | 0.77  | 0.09 | <b>0.40</b> | -0.88 | 0.16 | <b>0.34</b> | -0.67 | 0.09 | <b>0.10</b> | 0.82  | 0.14 |                   |
|                                |                                       | 0.30  | 0.01 |             | 0.25  | 0.01 |             | -0.17 | 0.01 |             | -0.08 | 0.01 |             | 0.05  | 0.00 |                   |
| <b>644GFL</b>                  | <b>0.59</b>                           | -0.08 | 2.53 | <b>0.78</b> | -0.22 | 2.11 | <b>0.42</b> | -0.76 | 2.92 | <b>0.34</b> | -0.68 | 0.95 | <b>0.02</b> | -0.40 | 0.87 |                   |
|                                |                                       | -0.02 | 0.21 |             | -0.07 | 0.18 |             | -0.15 | 0.18 |             | -0.08 | 0.06 |             | -0.03 | 0.01 |                   |
| <b>6BMKMN</b>                  | <b>0.66</b>                           | 0.22  | 0.39 | <b>0.89</b> | 0.11  | 0.30 | <b>0.53</b> | -0.17 | 0.46 | <b>0.33</b> | -0.78 | 0.23 | <b>0.02</b> | -0.46 | 0.00 |                   |
|                                |                                       | 0.06  | 0.03 |             | 0.04  | 0.03 |             | -0.03 | 0.03 |             | -0.09 | 0.02 |             | -0.03 | 0.00 |                   |
| <b>FPNYC9</b>                  | <b>0.32</b>                           | -1.18 | 0.39 | <b>0.38</b> | -1.46 | 1.15 | <b>0.30</b> | -1.38 | 0.32 | <b>0.20</b> | -1.89 | 0.46 | <b>0.03</b> | -0.30 | 0.62 |                   |
|                                |                                       | -0.29 | 0.03 |             | -0.47 | 0.10 |             | -0.27 | 0.02 |             | -0.22 | 0.03 |             | -0.02 | 0.01 |                   |
| <b>FKH3T9</b>                  | <b>0.95</b>                           | 1.38  | 0.31 | <b>1.28</b> | 1.33  | 0.72 | <b>0.72</b> | 0.80  | 0.17 | <b>0.52</b> | 0.86  | 0.08 | <b>0.03</b> | -0.25 | 0.26 |                   |
|                                |                                       | 0.34  | 0.03 |             | 0.43  | 0.06 |             | 0.16  | 0.01 |             | 0.10  | 0.01 |             | -0.02 | 0.00 |                   |
| <b>3KE7UV</b>                  | <b>0.22</b>                           | -1.57 | 0.13 | <b>0.47</b> | -1.20 | 0.99 | <b>0.36</b> | -1.04 | 0.35 | <b>0.29</b> | -1.11 | 0.45 | <b>0.12</b> | 1.04  | 0.99 |                   |
|                                |                                       | -0.39 | 0.01 |             | -0.39 | 0.09 |             | -0.20 | 0.02 |             | -0.13 | 0.03 |             | 0.07  | 0.02 |                   |
| <b>BMDAYP</b>                  | <b>0.45</b>                           | -0.66 | 2.32 | <b>0.80</b> | -0.17 | 0.23 | <b>0.30</b> | -1.36 | 2.44 | <b>0.31</b> | -0.92 | 3.77 | <b>0.01</b> | -0.61 | 0.00 |                   |
|                                |                                       | -0.16 | 0.19 |             | -0.06 | 0.02 |             | -0.26 | 0.15 |             | -0.11 | 0.25 |             | -0.04 | 0.00 |                   |
| <b>GAPFPH</b>                  | <b>0.82</b>                           | 0.86  | 0.12 | <b>0.97</b> | 0.36  | 0.15 | <b>0.64</b> | 0.35  | 0.21 | <b>0.49</b> | 0.59  | 0.16 | <b>0.10</b> | 0.73  | 0.18 |                   |
|                                |                                       | 0.21  | 0.01 |             | 0.12  | 0.01 |             | 0.07  | 0.01 |             | 0.07  | 0.01 |             | 0.05  | 0.00 |                   |
| <b>T84DB7</b>                  | <b>0.52</b>                           | -0.38 | 0.27 | <b>0.61</b> | -0.75 | 0.26 | <b>0.52</b> | -0.24 | 0.38 | <b>0.40</b> | -0.13 | 0.24 | <b>0.05</b> | -0.02 | 0.28 |                   |
|                                |                                       | -0.09 | 0.02 |             | -0.24 | 0.02 |             | -0.05 | 0.02 |             | -0.02 | 0.02 |             | 0.00  | 0.00 |                   |
| <b>2WG8UU</b>                  | <b>0.54</b>                           | -0.26 | 2.79 | <b>0.60</b> | -0.79 | 3.10 | <b>0.45</b> | -0.59 | 1.90 | <b>0.40</b> | -0.18 | 1.74 | <b>0.12</b> | 1.04  | 0.71 |                   |
|                                |                                       | -0.07 | 0.23 |             | -0.26 | 0.27 |             | -0.11 | 0.12 |             | -0.02 | 0.12 |             | 0.07  | 0.01 |                   |
| <b>JBF2VE</b>                  | <b>0.69</b>                           | 0.34  | 0.18 | <b>0.90</b> | 0.14  | 0.29 | <b>0.57</b> | 0.00  | 0.56 |             |       |      |             |       |      |                   |
|                                |                                       | 0.08  | 0.02 |             | 0.04  | 0.03 |             | 0.00  | 0.04 |             |       |      |             |       |      |                   |
| <b>6B3QZT</b>                  | <b>0.75</b>                           | 0.59  | 1.33 | <b>1.10</b> | 0.77  | 1.52 | <b>0.65</b> | 0.42  | 0.56 | <b>0.50</b> | 0.67  | 0.23 | <b>0.04</b> | -0.08 | 0.64 |                   |
|                                |                                       | 0.14  | 0.11 |             | 0.25  | 0.13 |             | 0.08  | 0.03 |             | 0.08  | 0.02 |             | -0.01 | 0.01 |                   |
| <b>CPEWRJ</b>                  | <b>0.94</b>                           | 1.36  | 0.43 | <b>1.09</b> | 0.74  | 0.50 | <b>0.84</b> | 1.40  | 0.24 | <b>0.55</b> | 1.12  | 0.24 | <b>0.15</b> | 1.55  | 1.89 |                   |
|                                |                                       | 0.34  | 0.04 |             | 0.24  | 0.04 |             | 0.27  | 0.02 |             | 0.13  | 0.02 |             | 0.10  | 0.03 |                   |
| <b>3BBBBQ</b>                  | <b>0.60</b>                           | -0.03 | 0.00 | <b>0.50</b> | -1.10 |      | <b>0.40</b> | -0.86 | 0.00 | <b>0.40</b> | -0.15 | 0.00 | <b>0.20</b> | 2.34  | 0.00 |                   |
|                                |                                       | -0.01 | 0.00 |             | -0.36 | 0.00 |             | -0.17 | 0.00 |             | -0.02 | 0.00 |             | 0.15  | 0.00 |                   |
| <b>LVRZT6</b>                  | <b>0.67</b>                           | 0.24  | 0.35 | <b>0.87</b> | 0.04  | 0.88 | <b>0.62</b> | 0.26  | 0.46 | <b>0.47</b> | 0.42  | 0.43 | <b>0.05</b> | 0.01  | 0.00 |                   |
|                                |                                       | 0.06  | 0.03 |             | 0.01  | 0.08 |             | 0.05  | 0.03 |             | 0.05  | 0.03 |             | 0.00  | 0.00 |                   |
| <b>RCXBZX</b>                  | <b>0.55</b>                           | -0.25 | 0.14 | <b>0.72</b> | -0.41 | 0.35 | <b>0.61</b> | 0.22  | 0.28 | <b>0.46</b> | 0.33  | 0.23 | <b>0.04</b> | -0.15 | 0.62 |                   |
|                                |                                       | -0.06 | 0.01 |             | -0.13 | 0.03 |             | 0.04  | 0.02 |             | 0.04  | 0.02 |             | -0.01 | 0.01 |                   |
| <b>HUC6ZA</b>                  | <b>0.62</b>                           | 0.03  | 0.66 | <b>0.95</b> | 0.30  | 0.90 | <b>0.70</b> | 0.70  | 0.51 | <b>0.46</b> | 0.36  | 0.60 | <b>0.11</b> | 0.94  |      |                   |
|                                |                                       | 0.01  | 0.06 |             | 0.10  | 0.08 |             | 0.14  | 0.03 |             | 0.04  | 0.04 |             | 0.06  | 0.00 |                   |
| <b>YTJ7GT</b>                  | <b>0.84</b>                           | 0.94  |      | <b>1.07</b> | 0.67  |      | <b>0.72</b> | 0.79  |      | <b>0.47</b> | 0.45  |      |             |       |      |                   |
|                                |                                       | 0.23  | 0.00 |             | 0.22  | 0.00 |             | 0.15  | 0.00 |             | 0.05  | 0.00 |             |       |      |                   |
| <b>YPJVKT</b>                  | <b>1.08</b>                           | 1.92  | 0.43 | <b>1.45</b> | 1.85  | 0.83 | <b>0.94</b> | 1.91  | 0.09 | <b>0.62</b> | 1.70  | 0.46 | <b>0.11</b> | 0.94  |      |                   |
|                                |                                       | 0.47  | 0.04 |             | 0.60  | 0.07 |             | 0.37  | 0.01 |             | 0.20  | 0.03 |             | 0.06  | 0.00 |                   |



## ALP Program - Participant Web Summary Report - Cycle 29

|                          | 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>BHL3GF</b>            | <b>0.57</b>        | -0.17   | 0.55    | <b>0.84</b>        | -0.04   | 0.29    | <b>0.67</b>        | 0.51    | 0.24    | <b>0.49</b>        | 0.62    | 0.52    |                    |         |         |
|                          |                    | -0.04   | 0.05    |                    | -0.01   | 0.03    |                    | 0.10    | 0.02    |                    | 0.07    | 0.03    |                    |         |         |
| <b>4KCY3M</b>            | <b>0.57</b>        | -0.17   | 0.69    | <b>0.60</b>        | -0.79   | 1.15    | <b>0.57</b>        | 0.00    | 1.84    | <b>0.37</b>        | -0.44   | 1.73    | <b>0.13</b>        | 1.30    | 3.57    |
|                          |                    | -0.04   | 0.06    |                    | -0.26   | 0.10    |                    | 0.00    | 0.12    |                    | -0.05   | 0.12    |                    | 0.08    | 0.06    |
| <b>PHEWWY</b>            | <b>0.23</b>        | -1.53   | 0.09    | <b>0.33</b>        | -1.63   | 0.18    | <b>0.40</b>        | -0.85   | 0.64    | <b>0.30</b>        | -1.01   | 0.17    | <b>0.05</b>        | -0.01   | 0.12    |
|                          |                    | -0.38   | 0.01    |                    | -0.53   | 0.02    |                    | -0.17   | 0.04    |                    | -0.12   | 0.01    |                    | 0.00    | 0.00    |
| <b>F4R897</b>            | <b>0.54</b>        | -0.26   | 0.18    | <b>0.78</b>        | -0.23   | 0.20    | <b>0.65</b>        | 0.43    | 0.00    | <b>0.47</b>        | 0.45    | 0.15    |                    |         |         |
|                          |                    | -0.07   | 0.02    |                    | -0.08   | 0.02    |                    | 0.08    | 0.00    |                    | 0.05    | 0.01    |                    |         |         |
| <b>Grand Median</b>      |                    | 0.61    |         |                    | 0.86    |         |                    | 0.57    |         |                    | 0.42    |         |                    | 0.050   |         |
| <b>Median Abs Dev</b>    |                    | 0.11    |         |                    | 0.23    |         |                    | 0.13    |         |                    | 0.07    |         |                    | 0.035   |         |
| <b>Avg Within Lab SD</b> |                    | 0.08    |         |                    | 0.09    |         |                    | 0.06    |         |                    | 0.07    |         |                    | 0.016   |         |
| <b>Labs Included</b>     |                    | 24      |         |                    | 24      |         |                    | 24      |         |                    | 23      |         |                    | 20      |         |
| <b>Labs Reporting</b>    |                    | 24      |         |                    | 24      |         |                    | 24      |         |                    | 23      |         |                    | 20      |         |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 178) |             |       | in the Micronutrients Property Groups |             |       |            |             |       |            |             |       |            |             |       | Data units: mg/kg |  |
|-----------------------------------|-------------|-------|---------------------------------------|-------------|-------|------------|-------------|-------|------------|-------------|-------|------------|-------------|-------|-------------------|--|
|                                   | SRSSRS1601  |       | SRSSRS1602                            |             |       | SRSSRS1603 |             |       | SRSSRS1604 |             |       | SRSSRS1605 |             |       |                   |  |
| <b>YAA32W</b>                     | <b>0.30</b> | -1.35 | 0.14                                  | <b>0.39</b> | -0.82 | 0.27       | <b>0.12</b> | -0.71 | 0.19       | <b>0.12</b> | -0.70 | 0.41       | <b>0.01</b> | -0.44 | 0.07              |  |
|                                   |             | -0.20 | 0.00                                  |             | -0.15 | 0.01       |             | -0.07 | 0.01       |             | -0.06 | 0.01       |             | -0.06 | 0.00              |  |
| <b>AAUKBK</b>                     | <b>0.58</b> | 0.54  | 0.46                                  | <b>0.65</b> | 0.65  | 0.25       | <b>0.15</b> | -0.43 | 0.00       | <b>0.13</b> | -0.56 | 0.00       | <b>0.00</b> | -0.53 | 0.00              |  |
|                                   |             | 0.08  | 0.01                                  |             | 0.12  | 0.01       |             | -0.04 | 0.00       |             | -0.05 | 0.00       |             | -0.07 | 0.00              |  |
| <b>GZ63WD</b>                     | <b>0.40</b> | -0.65 | 0.95                                  | <b>0.46</b> | -0.43 | 0.71       | <b>0.20</b> | 0.11  | 0.98       | <b>0.17</b> | -0.07 | 0.43       | <b>0.05</b> | -0.17 | 0.27              |  |
|                                   |             | -0.10 | 0.02                                  |             | -0.08 | 0.03       |             | 0.01  | 0.03       |             | -0.01 | 0.02       |             | -0.02 | 0.01              |  |
| <b>2GK3BP</b>                     | <b>0.55</b> | 0.34  | 1.21                                  | <b>0.62</b> | 0.50  | 1.26       | <b>0.22</b> | 0.28  | 0.85       | <b>0.18</b> | -0.03 | 0.65       | <b>0.03</b> | -0.30 | 0.41              |  |
|                                   |             | 0.05  | 0.03                                  |             | 0.09  | 0.05       |             | 0.03  | 0.03       |             | 0.00  | 0.02       |             | -0.04 | 0.02              |  |
| <b>33JQFQ</b>                     | <b>0.43</b> | -0.45 | 0.95                                  | <b>0.46</b> | -0.39 | 0.28       | <b>0.13</b> | -0.59 | 0.67       | <b>0.14</b> | -0.41 | 0.43       | <b>0.03</b> | -0.35 | 0.41              |  |
|                                   |             | -0.07 | 0.02                                  |             | -0.07 | 0.01       |             | -0.06 | 0.02       |             | -0.04 | 0.02       |             | -0.05 | 0.02              |  |
| <b>9JP2MJ</b>                     | <b>0.47</b> | -0.18 | 1.91                                  | <b>0.53</b> | -0.02 | 0.98       | <b>0.13</b> | -0.66 | 0.81       | <b>0.15</b> | -0.37 | 0.59       | <b>0.02</b> | -0.40 | 0.27              |  |
|                                   |             | -0.03 | 0.04                                  |             | 0.00  | 0.04       |             | -0.07 | 0.03       |             | -0.03 | 0.02       |             | -0.05 | 0.01              |  |
| <b>PFR9KY</b>                     | <b>0.52</b> | 0.12  | 0.54                                  | <b>0.58</b> | 0.25  | 0.42       | <b>0.18</b> | -0.08 | 0.57       | <b>0.18</b> | 0.03  | 0.42       | <b>0.06</b> | -0.09 | 0.22              |  |
|                                   |             | 0.02  | 0.01                                  |             | 0.05  | 0.02       |             | -0.01 | 0.02       |             | 0.00  | 0.01       |             | -0.01 | 0.01              |  |
| <b>K8VMR6</b>                     | <b>0.50</b> | 0.00  | 0.00                                  | <b>0.62</b> | 0.50  | 0.62       | <b>0.20</b> | 0.08  | 0.00       | <b>0.20</b> | 0.23  | 0.00       | <b>0.11</b> | 0.32  | 0.31              |  |
|                                   |             | 0.00  | 0.00                                  |             | 0.09  | 0.03       |             | 0.01  | 0.00       |             | 0.02  | 0.00       |             | 0.04  | 0.01              |  |
| <b>6VACMK</b>                     | <b>0.50</b> | 0.00  | 0.00                                  | <b>0.50</b> | -0.18 |            | <b>0.23</b> | 0.41  | 1.85       | <b>0.10</b> | -0.90 | 0.00       | <b>0.13</b> | 0.48  | 1.53              |  |
|                                   |             | 0.00  | 0.00                                  |             | -0.03 | 0.00       |             | 0.04  | 0.06       |             | -0.08 | 0.00       |             | 0.06  | 0.06              |  |
| <b>DCARMD</b>                     | <b>0.35</b> | -0.98 | 0.82                                  | <b>0.30</b> | -1.30 | 0.90       |             |       |            |             |       |            |             |       |                   |  |
|                                   |             | -0.15 | 0.02                                  |             | -0.23 | 0.04       |             |       |            |             |       |            |             |       |                   |  |
| <b>8CMGZN</b>                     | <b>0.55</b> | 0.34  | 2.29                                  | <b>0.56</b> | 0.17  | 0.38       | <b>0.24</b> | 0.48  | 0.56       | <b>0.22</b> | 0.46  | 0.57       | <b>0.18</b> | 0.84  | 0.53              |  |
|                                   |             | 0.05  | 0.05                                  |             | 0.03  | 0.02       |             | 0.05  | 0.02       |             | 0.04  | 0.02       |             | 0.11  | 0.02              |  |
| <b>VBVLAX</b>                     | <b>0.50</b> | 0.00  | 0.00                                  | <b>0.53</b> | 0.00  | 1.42       | <b>0.47</b> | 2.76  | 1.85       | <b>0.23</b> | 0.61  | 1.64       | <b>0.20</b> | 0.99  | 0.00              |  |
|                                   |             | 0.00  | 0.00                                  |             | 0.00  | 0.06       |             | 0.27  | 0.06       |             | 0.05  | 0.06       |             | 0.13  | 0.00              |  |
| <b>AM2DUK</b>                     | <b>0.53</b> | 0.18  | 0.95                                  | <b>0.63</b> | 0.52  | 1.40       | <b>0.18</b> | -0.12 | 1.16       | <b>0.20</b> | 0.19  | 1.14       | <b>0.08</b> | 0.09  | 0.16              |  |
|                                   |             | 0.03  | 0.02                                  |             | 0.09  | 0.06       |             | -0.01 | 0.04       |             | 0.02  | 0.04       |             | 0.01  | 0.01              |  |
| <b>MZGWVZ</b>                     | <b>1.02</b> | 3.48  | 0.26                                  | <b>1.02</b> | 2.68  | 2.36       | <b>0.18</b> | -0.09 | 1.03       | <b>0.46</b> | 3.21  | 0.91       | <b>0.40</b> | 2.57  | 1.26              |  |
|                                   |             | 0.52  | 0.01                                  |             | 0.48  | 0.10       |             | -0.01 | 0.03       |             | 0.28  | 0.03       |             | 0.33  | 0.05              |  |
| <b>C8H8XB</b>                     | <b>0.35</b> | -1.01 | 0.46                                  | <b>0.38</b> | -0.83 | 0.57       | <b>0.09</b> | -1.06 | 0.19       | <b>0.13</b> | -0.60 | 0.16       | <b>0.03</b> | -0.30 | 0.15              |  |
|                                   |             | -0.15 | 0.01                                  |             | -0.15 | 0.02       |             | -0.11 | 0.01       |             | -0.05 | 0.01       |             | -0.04 | 0.01              |  |
| <b>J6NUD7</b>                     | <b>0.48</b> | -0.12 | 1.16                                  | <b>0.46</b> | -0.43 | 0.64       | <b>0.29</b> | 1.02  | 1.18       | <b>0.29</b> | 1.23  | 1.69       | <b>0.26</b> | 1.44  | 0.53              |  |
|                                   |             | -0.02 | 0.03                                  |             | -0.08 | 0.03       |             | 0.10  | 0.04       |             | 0.11  | 0.06       |             | 0.19  | 0.02              |  |
| <b>DYXQH7</b>                     | <b>0.76</b> | 1.72  | 1.04                                  | <b>0.86</b> | 1.81  | 1.39       | <b>0.38</b> | 1.92  | 1.37       | <b>0.29</b> | 1.20  | 2.55       | <b>0.26</b> | 1.49  | 3.29              |  |
|                                   |             | 0.26  | 0.02                                  |             | 0.33  | 0.06       |             | 0.19  | 0.04       |             | 0.11  | 0.09       |             | 0.19  | 0.12              |  |
| <b>Grand Median</b>               |             | 0.50  |                                       | 0.53        |       |            | 0.19        |       |            | 0.18        |       |            | 0.072       |       |                   |  |
| <b>Median Abs Dev</b>             |             | 0.05  |                                       | 0.09        |       |            | 0.05        |       |            | 0.05        |       |            | 0.055       |       |                   |  |
| <b>Avg Within Lab SD</b>          |             | 0.02  |                                       | 0.04        |       |            | 0.03        |       |            | 0.04        |       |            | 0.038       |       |                   |  |
| <b>Labs Included</b>              |             | 17    |                                       | 17          |       |            | 16          |       |            | 16          |       |            | 16          |       |                   |  |
| <b>Labs Reporting</b>             |             | 17    |                                       | 17          |       |            | 16          |       |            | 16          |       |            | 16          |       |                   |  |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 179) | in the Soil Organic Matter Property Groups |       |      |             |       |      |             |       |      |             |       |      | Data units: Percent |       |      |
|-----------------------------------|--|-------|------|-------------|-------|------|-------------|-------|------|-------------|-------|------|---------------------|-------|------|
|                                   | SRSSRS1601                                 |       |      | SRSSRS1602  |       |      | SRSSRS1603  |       |      | SRSSRS1604  |       |      | SRSSRS1605          |       |      |
| <b>AAUKBK</b>                     | <b>0.16</b>                                | -0.55 | 0.10 | <b>0.21</b> | -0.51 | 0.42 | <b>0.19</b> | -0.53 | 0.08 | <b>0.08</b> | 0.05  | 0.29 | <b>0.03</b>         | 0.00  | 0.07 |
|                                   |  | -0.01 | 0.00 |             | -0.01 | 0.00 |             | -0.01 | 0.00 |             | 0.00  | 0.00 |                     | 0.00  | 0.00 |
| <b>644GFL</b>                     | <b>0.15</b>                                | -0.95 | 2.20 | <b>0.21</b> | -0.44 | 1.11 | <b>0.18</b> | -0.69 | 1.55 | <b>0.06</b> | -0.99 | 1.72 |                     |       |      |
|                                   |  | -0.02 | 0.02 |             | -0.01 | 0.01 |             | -0.01 | 0.01 |             | -0.01 | 0.01 |                     |       |      |
| <b>PMCBR2</b>                     | <b>0.15</b>                                | -0.84 | 0.80 | <b>0.22</b> | -0.33 | 0.84 | <b>0.17</b> | -1.04 | 1.66 | <b>0.05</b> | -1.46 | 1.21 |                     |       |      |
|                                   |  | -0.02 | 0.01 |             | -0.01 | 0.01 |             | -0.02 | 0.01 |             | -0.02 | 0.01 |                     |       |      |
| <b>2GK3BP</b>                     | <b>0.15</b>                                | -0.84 | 1.10 | <b>0.21</b> | -0.70 | 0.24 | <b>0.17</b> | -1.03 | 0.89 | <b>0.06</b> | -0.87 | 1.35 | <b>0.02</b>         | -0.95 | 1.40 |
|                                   |  | -0.02 | 0.01 |             | -0.02 | 0.00 |             | -0.02 | 0.01 |             | -0.01 | 0.01 |                     | -0.01 | 0.01 |
| <b>33JQFQ</b>                     | <b>0.18</b>                                | 0.38  | 0.56 | <b>0.25</b> | 0.94  | 0.98 | <b>0.20</b> | 0.30  | 0.84 | <b>0.08</b> | 0.21  | 0.00 | <b>0.03</b>         | -0.31 | 0.09 |
|                                   |  | 0.01  | 0.00 |             | 0.02  | 0.01 |             | 0.01  | 0.01 |             | 0.00  | 0.00 |                     | 0.00  | 0.00 |
| <b>PFR9KY</b>                     | <b>0.17</b>                                | -0.25 | 0.15 | <b>0.22</b> | -0.20 | 0.33 | <b>0.19</b> | -0.08 | 1.66 | <b>0.07</b> | -0.07 | 0.60 | <b>0.04</b>         | 0.96  | 2.44 |
|                                   |  | -0.01 | 0.00 |             | -0.01 | 0.00 |             | 0.00  | 0.01 |             | 0.00  | 0.00 |                     | 0.01  | 0.02 |
| <b>FPNYC9</b>                     | <b>0.18</b>                                | 0.48  | 1.97 | <b>0.24</b> | 0.51  | 2.16 | <b>0.21</b> | 0.48  | 1.35 | <b>0.12</b> | 3.00  | 2.07 | <b>0.07</b>         | 2.49  | 0.90 |
|                                   |  | 0.01  | 0.02 |             | 0.01  | 0.02 |             | 0.01  | 0.01 |             | 0.05  | 0.01 |                     | 0.04  | 0.01 |
| <b>GAPFPH</b>                     | <b>0.18</b>                                | 0.25  | 0.13 | <b>0.24</b> | 0.44  | 0.14 | <b>0.20</b> | 0.26  | 0.12 | <b>0.07</b> | -0.05 | 0.21 | <b>0.02</b>         | -0.36 | 0.09 |
|                                   |  | 0.01  | 0.00 |             | 0.01  | 0.00 |             | 0.01  | 0.00 |             | 0.00  | 0.00 |                     | -0.01 | 0.00 |
| <b>YTJ7GT</b>                     | <b>0.18</b>                                | 0.29  |      | <b>0.23</b> | 0.20  |      | <b>0.20</b> | 0.08  |      | <b>0.07</b> | -0.52 |      |                     |       |      |
|                                   |  | 0.01  | 0.00 |             | 0.01  | 0.00 |             | 0.00  | 0.00 |             | -0.01 | 0.00 |                     |       |      |
| <b>4KCY3M</b>                     | <b>0.18</b>                                | 0.41  | 0.07 | <b>0.24</b> | 0.72  | 1.63 | <b>0.21</b> | 0.45  | 0.35 | <b>0.08</b> | 0.66  | 0.12 | <b>0.04</b>         | 0.45  | 0.39 |
|                                   |  | 0.01  | 0.00 |             | 0.02  | 0.01 |             | 0.01  | 0.00 |             | 0.01  | 0.00 |                     | 0.01  | 0.00 |
| <b>X3EMTR</b>                     | <b>0.12</b>                                | -2.37 | 0.72 | <b>0.16</b> | -2.33 | 0.87 | <b>0.14</b> | -2.52 | 0.80 | <b>0.08</b> | 0.08  | 0.88 | <b>0.03</b>         | 0.21  | 0.25 |
|                                   |  | -0.06 | 0.01 |             | -0.06 | 0.01 |             | -0.05 | 0.01 |             | 0.00  | 0.00 |                     | 0.00  | 0.00 |
| <b>XYFCWR</b>                     | <b>0.18</b>                                | 0.48  | 0.75 | <b>0.24</b> | 0.77  | 0.82 | <b>0.21</b> | 0.64  | 0.00 | <b>0.08</b> | 0.13  | 0.43 | <b>0.02</b>         | -0.34 | 0.18 |
|                                   |  | 0.01  | 0.01 |             | 0.02  | 0.01 |             | 0.01  | 0.00 |             | 0.00  | 0.00 |                     | -0.01 | 0.00 |
| <b>Grand Median</b>               |  | 0.17  |      | 0.22        |       |      | 0.20        |       |      |             | 0.075 |      |                     | 0.030 |      |
| <b>Median Abs Dev</b>             |  | 0.01  |      | 0.01        |       |      | 0.01        |       |      |             | 0.006 |      |                     | 0.005 |      |
| <b>Avg Within Lab SD</b>          |  | 0.01  |      | 0.01        |       |      | 0.01        |       |      |             | 0.005 |      |                     | 0.006 |      |
| <b>Labs Included</b>              |  | 12    |      | 12          |       |      | 12          |       |      |             | 12    |      |                     | 9     |      |
| <b>Labs Reporting</b>             |  | 12    |      | 12          |       |      | 12          |       |      |             | 12    |      |                     | 9     |      |



## ALP Program - Participant Web Summary Report - Cycle 29

|                    |         |         |                    |         |         |                    |         |         |                    |         |         |                    |         |         |
|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|
| 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 180) | in the Soil Organic Matter Property Groups |       |      |             |       |      |             |       |      |             |       |      |             |        |       | Data units: Percent |
|--|--|-------|------|-------------|-------|------|-------------|-------|------|-------------|-------|------|-------------|--------|-------|---------------------|
|  | SRSSRS1601                                 |       |      | SRSSRS1602  |       |      | SRSSRS1603  |       |      | SRSSRS1604  |       |      | SRSSRS1605  |        |       |                     |
| <b>YAA32W</b>                          | <b>0.18</b>                                | 0.28  | 1.42 | <b>0.23</b> | 0.29  | 1.23 | <b>0.21</b> | 0.26  | 1.61 | <b>0.10</b> | 1.66  | 1.62 | <b>0.05</b> | 1.37   | 1.93  |                     |
|  |  | 0.00  | 0.01 |             | 0.01  | 0.01 |             | 0.00  | 0.01 |             | 0.02  | 0.01 |             | 0.02   | 0.01  |                     |
| <b>AAUKBK</b>                          | <b>0.18</b>                                | 0.44  | 0.22 | <b>0.23</b> | 0.05  | 0.93 | <b>0.20</b> | -0.07 | 0.14 | <b>0.07</b> | -0.71 | 0.12 | <b>0.02</b> | -0.46  | 0.11  |                     |
|  |  | 0.01  | 0.00 |             | 0.00  | 0.00 |             | 0.00  | 0.00 |             | -0.01 | 0.00 |             | -0.01  | 0.00  |                     |
| <b>GZ63WD</b>                          | <b>0.15</b>                                | -1.68 | 0.36 | <b>0.19</b> | -2.09 | 1.41 | <b>0.16</b> | -2.43 | 1.71 | <b>0.07</b> | -0.85 | 0.73 | <b>0.05</b> | 1.54   | 1.18  |                     |
|  |  | -0.03 | 0.00 |             | -0.04 | 0.01 |             | -0.04 | 0.01 |             | -0.01 | 0.00 |             | 0.02   | 0.01  |                     |
| <b>83L8FJ</b>                          | <b>0.18</b>                                | 0.32  | 0.11 | <b>0.24</b> | 0.52  | 0.10 | <b>0.21</b> | 0.30  | 0.11 | <b>0.08</b> | -0.12 | 0.11 | <b>0.03</b> | -0.14  | 0.12  |                     |
|  |  | 0.01  | 0.00 |             | 0.01  | 0.00 |             | 0.01  | 0.00 |             | 0.00  | 0.00 |             | 0.00   | 0.00  |                     |
| <b>33JQFQ</b>                          | <b>0.18</b>                                | 0.48  | 0.82 | <b>0.25</b> | 1.20  |      | <b>0.21</b> | 0.45  | 0.00 | <b>0.08</b> | 0.12  | 0.00 | <b>0.03</b> | -0.07  | 0.00  |                     |
|  |  | 0.01  | 0.01 |             | 0.02  | 0.00 |             | 0.01  | 0.00 |             | 0.00  | 0.00 |             | 0.00   | 0.00  |                     |
| <b>PFR9KY</b>                          | <b>0.21</b>                                | 1.98  | 2.17 | <b>0.26</b> | 1.86  | 1.12 | <b>0.23</b> | 1.54  | 2.01 | <b>0.12</b> | 3.19  | 0.81 | <b>0.06</b> | 1.85   | 1.24  |                     |
|  |  | 0.03  | 0.02 |             | 0.03  | 0.01 |             | 0.03  | 0.01 |             | 0.04  | 0.01 |             | 0.03   | 0.01  |                     |
| <b>6VACMK</b>                          | <b>0.19</b>                                | 1.16  | 0.36 | <b>0.24</b> | 0.69  | 0.32 | <b>0.21</b> | 0.47  | 0.91 | <b>0.09</b> | 0.66  | 0.49 | <b>0.03</b> | 0.22   | 0.19  |                     |
|  |  | 0.02  | 0.00 |             | 0.01  | 0.00 |             | 0.01  | 0.01 |             | 0.01  | 0.00 |             | 0.00   | 0.00  |                     |
| <b>RMZ998</b>                          | <b>0.29</b>                                | 6.68  | 3.57 | <b>0.30</b> | 3.93  | 0.00 | <b>0.28</b> | 4.29  | 1.61 | <b>0.16</b> | 6.01  | 4.95 | <b>3.42</b> | 244.40 | 12.28 |                     |
|  |  | 0.11  | 0.03 |             | 0.07  | 0.00 |             | 0.07  | 0.01 |             | 0.08  | 0.03 |             | 3.39   | 0.06  |                     |
| <b>LZMPAC</b>                          | <b>0.18</b>                                | 0.18  | 0.22 | <b>0.23</b> | 0.05  | 0.37 | <b>0.20</b> | -0.24 | 0.37 | <b>0.07</b> | -0.29 | 0.37 | <b>0.02</b> | -0.46  | 0.11  |                     |
|  |  | 0.00  | 0.00 |             | 0.00  | 0.00 |             | 0.00  | 0.00 |             | 0.00  | 0.00 |             | -0.01  | 0.00  |                     |
| <b>GAPFPH</b>                          | <b>0.17</b>                                | -0.18 | 0.70 | <b>0.24</b> | 0.60  | 2.41 | <b>0.20</b> | -0.05 | 0.93 | <b>0.08</b> | 0.38  | 0.89 | <b>0.04</b> | 0.79   | 0.89  |                     |
|  |  | 0.00  | 0.00 |             | 0.01  | 0.01 |             | 0.00  | 0.01 |             | 0.00  | 0.01 |             | 0.01   | 0.00  |                     |
| <b>UNPG82</b>                          | <b>0.17</b>                                | -0.32 | 0.00 | <b>0.22</b> | -0.44 | 0.00 | <b>0.19</b> | -0.70 | 1.39 | <b>0.08</b> | 0.12  | 0.00 | <b>0.03</b> | -0.07  | 0.00  |                     |
|  |  | -0.01 | 0.00 |             | -0.01 | 0.00 |             | -0.01 | 0.01 |             | 0.00  | 0.00 |             | 0.00   | 0.00  |                     |
| <b>ZV768V</b>                          | <b>0.16</b>                                | -0.92 | 0.00 | <b>0.21</b> | -0.80 | 1.23 | <b>0.19</b> | -0.51 | 0.80 | <b>0.07</b> | -0.39 | 0.93 | <b>0.05</b> | 1.13   | 2.23  |                     |
|  |  | -0.02 | 0.00 |             | -0.01 | 0.01 |             | -0.01 | 0.01 |             | -0.01 | 0.01 |             | 0.02   | 0.01  |                     |
| <b>CPEWRJ</b>                          | <b>0.19</b>                                | 0.75  | 0.11 | <b>0.24</b> | 0.63  | 1.94 | <b>0.22</b> | 0.78  | 1.48 | <b>0.08</b> | 0.47  | 1.01 | <b>0.03</b> | 0.07   | 0.96  |                     |
|  |  | 0.01  | 0.00 |             | 0.01  | 0.01 |             | 0.01  | 0.01 |             | 0.01  | 0.01 |             | 0.00   | 0.00  |                     |
| <b>XHNEVW</b>                          | <b>0.17</b>                                | -0.18 | 0.42 | <b>0.22</b> | -0.50 | 0.33 | <b>0.19</b> | -0.91 | 0.54 | <b>0.07</b> | -0.28 | 0.70 | <b>0.02</b> | -1.06  | 0.39  |                     |
|  |  | 0.00  | 0.00 |             | -0.01 | 0.00 |             | -0.02 | 0.00 |             | 0.00  | 0.00 |             | -0.01  | 0.00  |                     |
| <b>YTJ7GT</b>                          | <b>0.17</b>                                | -0.38 |      | <b>0.22</b> | -0.27 |      | <b>0.20</b> | 0.05  |      | <b>0.07</b> | -0.34 |      | <b>0.03</b> | 0.07   |       |                     |
|  |  | -0.01 | 0.00 |             | -0.01 | 0.00 |             | 0.00  | 0.00 |             | 0.00  | 0.00 |             | 0.00   | 0.00  |                     |
| <b>ZZZ3WM</b>                          | <b>0.16</b>                                | -0.92 |      | <b>0.20</b> | -1.53 |      | <b>0.17</b> | -1.85 |      | <b>0.08</b> | 0.12  |      | <b>0.03</b> | -0.07  |       |                     |
|  |  | -0.02 | 0.00 |             | -0.03 | 0.00 |             | -0.03 | 0.00 |             | 0.00  | 0.00 |             | 0.00   | 0.00  |                     |
| <b>DM76CB</b>                          | <b>0.16</b>                                | -0.98 | 0.71 | <b>0.23</b> | -0.05 | 0.37 | <b>0.21</b> | 0.26  | 0.43 | <b>0.08</b> | -0.19 | 0.28 | <b>0.03</b> | -0.26  | 0.30  |                     |
|  |  | -0.02 | 0.01 |             | 0.00  | 0.00 |             | 0.00  | 0.00 |             | 0.00  | 0.00 |             | 0.00   | 0.00  |                     |
| <b>PHEWWY</b>                          | <b>0.17</b>                                | -0.20 | 0.57 | <b>0.23</b> | -0.15 | 0.81 | <b>0.20</b> | -0.35 | 0.65 | <b>0.07</b> | -0.41 | 0.57 | <b>0.03</b> | -0.37  | 0.19  |                     |
|  |  | 0.00  | 0.00 |             | 0.00  | 0.00 |             | -0.01 | 0.00 |             | -0.01 | 0.00 |             | -0.01  | 0.00  |                     |
| <b>DYXQH7</b>                          | <b>0.19</b>                                | 0.78  | 2.96 | <b>0.22</b> | -0.39 | 0.36 | <b>0.22</b> | 0.93  | 0.97 | <b>0.10</b> | 1.85  | 3.20 | <b>0.06</b> | 2.14   | 2.07  |                     |
|  |  | 0.01  | 0.02 |             | -0.01 | 0.00 |             | 0.02  | 0.01 |             | 0.02  | 0.02 |             | 0.03   | 0.01  |                     |



## ALP Program - Participant Web Summary Report - Cycle 29

|                          | 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>Grand Median</b>      |                    | 0.18    |         |                    | 0.23    |         |                    | 0.20    |         |                    | 0.078   |         |                    | 0.031   |         |
| <b>Median Abs Dev</b>    |                    | 0.01    |         |                    | 0.01    |         |                    | 0.01    |         |                    | 0.005   |         |                    | 0.006   |         |
| <b>Avg Within Lab SD</b> |                    | 0.01    |         |                    | 0.00    |         |                    | 0.01    |         |                    | 0.006   |         |                    | 0.005   |         |
| <b>Labs Included</b>     |                    | 18      |         |                    | 18      |         |                    | 18      |         |                    | 18      |         |                    | 18      |         |
| <b>Labs Reporting</b>    |                    | 18      |         |                    | 18      |         |                    | 18      |         |                    | 18      |         |                    | 18      |         |





## ALP Program - Participant Web Summary Report - Cycle 29

|                    |         |         |                    |         |         |                    |         |         |                    |         |         |                    |         |         |
|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|
| 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 181) | in the Soil Organic Matter Property Groups |       |      |             |       |      |             |       |      |             |       |      |             |       |      | Data units: Percent |
|---|--|-------|------|-------------|-------|------|-------------|-------|------|-------------|-------|------|-------------|-------|------|---------------------|
|   | SRSSRS1601                                 |       |      | SRSSRS1602  |       |      | SRSSRS1603  |       |      | SRSSRS1604  |       |      | SRSSRS1605  |       |      |                     |
| <b>YAA32W</b>                           | <b>1.56</b>                                | -2.06 | 0.15 | <b>2.87</b> | 0.88  | 0.46 | <b>2.40</b> | 0.49  | 0.27 | <b>0.84</b> | 0.29  | 1.12 | <b>0.38</b> | -0.33 | 0.37 |                     |
|   |  | -0.53 | 0.01 |             | 0.17  | 0.03 |             | 0.04  | 0.02 |             | 0.02  | 0.04 |             | -0.03 | 0.01 |                     |
| <b>GZ63WD</b>                           |  |       |      |             |       |      | <b>2.17</b> | -2.32 | 1.02 | <b>0.77</b> | -0.88 | 1.87 | <b>0.40</b> | -0.09 | 0.33 |                     |
|   |  |       |      |             |       |      |             | -0.19 | 0.09 |             | -0.06 | 0.06 |             | -0.01 | 0.01 |                     |
| <b>83L8FJ</b>                           | <b>1.89</b>                                | -0.78 | 0.15 | <b>2.72</b> | 0.06  | 0.08 | <b>2.36</b> | -0.02 | 0.19 | <b>0.82</b> | 0.03  | 0.24 | <b>0.39</b> | -0.23 | 0.19 |                     |
|   |  | -0.20 | 0.01 |             | 0.01  | 0.00 |             | 0.00  | 0.02 |             | 0.00  | 0.01 |             | -0.02 | 0.01 |                     |
| <b>LZMPAC</b>                           | <b>2.23</b>                                | 0.51  | 0.41 | <b>2.76</b> | 0.29  | 0.14 | <b>2.37</b> | 0.15  | 0.21 | <b>0.91</b> | 1.42  | 0.64 | <b>0.49</b> | 0.76  | 0.38 |                     |
|   |  | 0.13  | 0.02 |             | 0.06  | 0.01 |             | 0.01  | 0.02 |             | 0.09  | 0.02 |             | 0.07  | 0.01 |                     |
| <b>GAPFPH</b>                           | <b>2.22</b>                                | 0.49  | 1.63 | <b>3.12</b> | 2.18  | 3.08 | <b>2.54</b> | 2.17  | 0.34 | <b>0.90</b> | 1.24  | 0.56 | <b>0.51</b> | 0.99  | 0.75 |                     |
|   |  | 0.13  | 0.10 |             | 0.41  | 0.17 |             | 0.18  | 0.03 |             | 0.08  | 0.02 |             | 0.10  | 0.03 |                     |
| <b>UNPG82</b>                           | <b>2.27</b>                                | 0.67  | 0.43 | <b>2.87</b> | 0.86  | 0.35 | <b>2.34</b> | -0.22 | 0.94 | <b>0.85</b> | 0.40  | 1.19 | <b>0.42</b> | 0.09  | 0.51 |                     |
|   |  | 0.17  | 0.03 |             | 0.16  | 0.02 |             | -0.02 | 0.08 |             | 0.02  | 0.04 |             | 0.01  | 0.02 |                     |
| <b>6B3QZT</b>                           | <b>1.78</b>                                | -1.21 | 0.92 | <b>2.49</b> | -1.16 | 0.85 | <b>2.46</b> | 1.26  | 2.26 | <b>0.77</b> | -0.89 | 0.50 | <b>0.33</b> | -0.81 | 1.74 |                     |
|   |  | -0.31 | 0.05 |             | -0.22 | 0.05 |             | 0.10  | 0.19 |             | -0.06 | 0.02 |             | -0.08 | 0.07 |                     |
| <b>ZV768V</b>                           | <b>2.09</b>                                | 0.00  | 0.43 | <b>2.67</b> | -0.19 | 0.31 | <b>2.42</b> | 0.73  | 0.20 | <b>0.85</b> | 0.45  | 0.00 | <b>0.48</b> | 0.66  | 0.59 |                     |
|   |  | 0.00  | 0.03 |             | -0.04 | 0.02 |             | 0.06  | 0.02 |             | 0.03  | 0.00 |             | 0.07  | 0.02 |                     |
| <b>CPEWRJ</b>                           | <b>2.21</b>                                | 0.45  | 1.39 | <b>2.71</b> | 0.00  | 1.08 | <b>2.36</b> | 0.02  | 1.43 | <b>0.97</b> | 2.40  | 0.46 | <b>0.57</b> | 1.57  | 1.55 |                     |
|   |  | 0.12  | 0.08 |             | 0.00  | 0.06 |             | 0.00  | 0.12 |             | 0.15  | 0.01 |             | 0.16  | 0.06 |                     |
| <b>XHNEVW</b>                           | <b>2.16</b>                                | 0.26  | 0.43 | <b>2.74</b> | 0.16  | 0.61 | <b>2.33</b> | -0.44 | 0.22 | <b>0.78</b> | -0.63 | 0.82 | <b>0.33</b> | -0.78 | 0.32 |                     |
|   |  | 0.07  | 0.03 |             | 0.03  | 0.03 |             | -0.04 | 0.02 |             | -0.04 | 0.03 |             | -0.08 | 0.01 |                     |
| <b>YTJ7GT</b>                           | <b>1.81</b>                                | -1.10 |      | <b>2.46</b> | -1.29 |      | <b>2.35</b> | -0.14 |      | <b>0.81</b> | -0.19 |      | <b>0.42</b> | 0.09  |      |                     |
|   |  | -0.28 | 0.00 |             | -0.25 | 0.00 |             | -0.01 | 0.00 |             | -0.01 | 0.00 |             | 0.01  | 0.00 |                     |
| <b>ZZZ3WM</b>                           | <b>2.13</b>                                | 0.14  |      | <b>2.65</b> | -0.29 |      | <b>2.28</b> | -1.00 |      | <b>0.82</b> | -0.03 |      | <b>0.39</b> | -0.22 |      |                     |
|   |  | 0.04  | 0.00 |             | -0.06 | 0.00 |             | -0.08 | 0.00 |             | 0.00  | 0.00 |             | -0.02 | 0.00 |                     |
| <b>DM76CB</b>                           | <b>1.96</b>                                | -0.52 | 0.18 | <b>2.66</b> | -0.24 | 0.44 | <b>2.33</b> | -0.34 | 0.16 | <b>0.79</b> | -0.52 | 0.04 | <b>0.38</b> | -0.37 | 0.27 |                     |
|   |  | -0.14 | 0.01 |             | -0.05 | 0.02 |             | -0.03 | 0.01 |             | -0.03 | 0.00 |             | -0.04 | 0.01 |                     |
| <b>PHEWWY</b>                           | <b>3.46</b>                                | 5.30  | 1.04 | <b>4.56</b> | 9.73  | 0.95 | <b>4.03</b> | 20.66 | 0.28 | <b>1.38</b> | 8.88  | 0.35 | <b>0.68</b> | 2.71  | 0.47 |                     |
|   |  | 1.37  | 0.06 |             | 1.85  | 0.05 |             | 1.67  | 0.02 |             | 0.56  | 0.01 |             | 0.27  | 0.02 |                     |
| <b>DYXQH7</b>                           | <b>1.95</b>                                | -0.57 | 2.60 | <b>2.49</b> | -1.15 | 0.80 | <b>2.37</b> | 0.15  | 2.12 | <b>0.82</b> | -0.08 | 2.43 | <b>0.65</b> | 2.46  | 2.61 |                     |
|   |  | -0.15 | 0.15 |             | -0.22 | 0.05 |             | 0.01  | 0.18 |             | -0.01 | 0.08 |             | 0.24  | 0.10 |                     |
| <b>Grand Median</b>                     |  | 2.09  |      | 2.71        |       |      | 2.36        |       |      | 0.82        |       |      | 0.41        |       |      |                     |
| <b>Median Abs Dev</b>                   |  | 0.14  |      | 0.06        |       |      | 0.03        |       |      | 0.03        |       |      | 0.05        |       |      |                     |
| <b>Avg Within Lab SD</b>                |  | 0.06  |      | 0.06        |       |      | 0.09        |       |      | 0.03        |       |      | 0.04        |       |      |                     |
| <b>Labs Included</b>                    |  | 13    |      | 13          |       |      | 14          |       |      | 14          |       |      | 14          |       |      |                     |
| <b>Labs Reporting</b>                   |  | 13    |      | 13          |       |      | 14          |       |      | 14          |       |      | 14          |       |      |                     |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 182) |            | in the Soil Organic Matter Property Groups |            |            |            |      |      |       |      |      |       | Data units: Percent |      |       |      |
|---------------------------------------|------------|--|------------|------------|------------|------|------|-------|------|------|-------|---------------------|------|-------|------|
|                                       | SRSSRS1601 | SRSSRS1602                                 | SRSSRS1603 | SRSSRS1604 | SRSSRS1605 |      |      |       |      |      |       |                     |      |       |      |
| AAUKBK                                | 3.68       | 1.75                                       | 0.04       | 4.99       | 1.03       | 0.04 | 4.99 | 1.35  | 0.41 | 1.67 | 0.40  | 0.18                | 0.92 | 1.15  | 0.15 |
|                                       |            | 0.60                                       | 0.01       |            | 0.72       | 0.03 |      | 0.86  | 0.08 |      | 0.16  | 0.03                |      | 0.26  | 0.03 |
| 644GFL                                | 3.17       | 0.25                                       | 0.64       | 4.17       | -0.13      | 0.19 | 4.06 | -0.10 | 0.61 | 2.03 | 1.28  | 0.43                | 1.30 | 2.84  | 1.13 |
|                                       |            | 0.09                                       | 0.17       |            | -0.09      | 0.12 |      | -0.06 | 0.12 |      | 0.52  | 0.07                |      | 0.63  | 0.19 |
| 9JP2MJ                                | 2.92       | -0.47                                      | 0.58       | 4.23       | -0.05      | 0.40 | 3.82 | -0.48 | 0.21 | 1.85 | 0.85  | 1.22                | 0.82 | 0.67  | 0.52 |
|                                       |            | -0.16                                      | 0.15       |            | -0.04      | 0.26 |      | -0.31 | 0.04 |      | 0.34  | 0.20                |      | 0.15  | 0.09 |
| PFR9KY                                | 3.20       | 0.34                                       | 0.66       | 4.50       | 0.33       | 0.57 | 4.30 | 0.28  | 1.55 | 1.53 | 0.07  | 0.91                | 0.67 | 0.00  | 0.70 |
|                                       |            | 0.12                                       | 0.17       |            | 0.23       | 0.36 |      | 0.18  | 0.30 |      | 0.03  | 0.15                |      | 0.00  | 0.12 |
| FPNYC9                                | 3.27       | 0.54                                       | 1.16       | 5.17       | 1.28       | 0.48 | 4.70 | 0.90  | 1.03 | 2.83 | 3.28  | 1.25                | 0.60 | -0.30 | 1.22 |
|                                       |            | 0.18                                       | 0.31       |            | 0.90       | 0.31 |      | 0.58  | 0.20 |      | 1.33  | 0.21                |      | -0.07 | 0.20 |
| LZMPAC                                | 3.16       | 0.22                                       |            | 4.24       | -0.04      |      | 3.92 | -0.32 |      | 1.24 | -0.66 |                     | 0.59 | -0.34 |      |
|                                       |            | 0.08                                       | 0.00       |            | -0.03      | 0.00 |      | -0.20 | 0.00 |      | -0.27 | 0.00                |      | -0.08 | 0.00 |
| 2WG8UU                                | 2.45       | -1.85                                      | 3.62       | 3.83       | -0.61      | 0.66 | 3.29 | -1.31 | 3.00 | 1.45 | -0.13 | 1.16                | 0.72 | 0.22  | 0.09 |
|                                       |            | -0.63                                      | 0.96       |            | -0.43      | 0.42 |      | -0.83 | 0.58 |      | -0.05 | 0.19                |      | 0.05  | 0.02 |
| A9GXQK                                | 3.07       | -0.05                                      | 0.22       | 4.37       | 0.14       | 0.09 | 4.47 | 0.54  | 0.60 | 1.57 | 0.15  | 0.35                | 0.60 | -0.31 | 0.15 |
|                                       |            | -0.02                                      | 0.06       |            | 0.10       | 0.06 |      | 0.34  | 0.12 |      | 0.06  | 0.06                |      | -0.07 | 0.03 |
| CPEWRJ                                | 3.50       | 1.23                                       | 0.17       | 4.86       | 0.84       | 0.21 | 5.28 | 1.82  | 0.64 | 1.61 | 0.25  | 0.42                | 0.81 | 0.65  | 0.27 |
|                                       |            | 0.42                                       | 0.04       |            | 0.59       | 0.14 |      | 1.16  | 0.12 |      | 0.10  | 0.07                |      | 0.14  | 0.04 |
| XHNEVW                                | 3.05       | -0.10                                      | 0.22       | 4.29       | 0.04       | 0.07 | 4.07 | -0.08 | 0.53 | 1.38 | -0.32 | 0.26                | 0.66 | -0.01 | 0.12 |
|                                       |            | -0.04                                      | 0.06       |            | 0.03       | 0.04 |      | -0.05 | 0.10 |      | -0.13 | 0.04                |      | 0.00  | 0.02 |
| 3BBBBQ                                | 2.50       | -1.71                                      |            | 3.00       | -1.79      | 0.31 | 2.90 | -1.92 | 0.52 | 1.27 | -0.59 | 0.35                | 0.90 | 1.05  | 0.00 |
|                                       |            | -0.58                                      | 0.00       |            | -1.27      | 0.20 |      | -1.22 | 0.10 |      | -0.24 | 0.06                |      | 0.23  | 0.00 |
| YTJ7GT                                | 2.70       | -1.13                                      |            | 4.04       | -0.32      |      | 3.77 | -0.55 |      | 1.18 | -0.81 |                     |      |       |      |
|                                       |            | -0.38                                      | 0.00       |            | -0.23      | 0.00 |      | -0.35 | 0.00 |      | -0.33 | 0.00                |      |       |      |
| C8H8XB                                | 2.97       | -0.34                                      | 0.22       | 4.50       | 0.33       | 0.16 | 4.43 | 0.49  | 1.08 | 1.80 | 0.72  | 3.11                | 1.17 | 2.24  | 3.36 |
|                                       |            | -0.12                                      | 0.06       |            | 0.23       | 0.10 |      | 0.31  | 0.21 |      | 0.29  | 0.52                |      | 0.50  | 0.55 |
| PHEWWY                                | 3.10       | 0.05                                       | 0.40       | 4.12       | -0.20      | 0.01 | 4.18 | 0.08  | 0.42 | 1.32 | -0.46 | 0.52                | 0.62 | -0.22 | 0.10 |
|                                       |            | 0.02                                       | 0.11       |            | -0.14      | 0.00 |      | 0.05  | 0.08 |      | -0.19 | 0.09                |      | -0.05 | 0.02 |
| X3EMTR                                | 3.14       | 0.15                                       | 0.12       | 4.48       | 0.30       | 0.07 | 4.31 | 0.29  | 0.40 | 1.48 | -0.07 | 0.36                | 0.65 | -0.07 | 0.13 |
|                                       |            | 0.05                                       | 0.03       |            | 0.21       | 0.04 |      | 0.18  | 0.08 |      | -0.03 | 0.06                |      | -0.01 | 0.02 |
| J6NUD7                                | 2.88       | -0.60                                      | 0.21       | 1.90       | -3.36      | 3.82 | 3.94 | -0.29 | 0.37 | 1.20 | -0.76 | 0.08                | 0.66 | -0.03 | 0.00 |
|                                       |            | -0.20                                      | 0.06       |            | -2.37      | 2.44 |      | -0.18 | 0.07 |      | -0.31 | 0.01                |      | -0.01 | 0.00 |
| <b>Grand Median</b>                   |            | 3.08                                       |            | 4.27       |            |      | 4.12 |       |      | 1.51 |       |                     | 0.67 |       |      |
| <b>Median Abs Dev</b>                 |            | 0.14                                       |            | 0.23       |            |      | 0.31 |       |      | 0.21 |       |                     | 0.07 |       |      |
| <b>Avg Within Lab SD</b>              |            | 0.26                                       |            | 0.64       |            |      | 0.19 |       |      | 0.17 |       |                     | 0.16 |       |      |
| <b>Labs Included</b>                  |            | 16   |            | 16         |            |      | 16   |       |      | 16   |       |                     | 15   |       |      |
| <b>Labs Reporting</b>                 |            | 16   |            | 16         |            |      | 16   |       |      | 16   |       |                     | 15   |       |      |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 183) |             |       | in the Soil Organic Matter Property Groups |             |       |            |             |       |            |             |       |            |             |       | Data units: Percent |  |  |
|--|-------------|-------|--|-------------|-------|------------|-------------|-------|------------|-------------|-------|------------|-------------|-------|---------------------|--|--|
| SRSSRS1601                               |             |       | SRSSRS1602                                 |             |       | SRSSRS1603 |             |       | SRSSRS1604 |             |       | SRSSRS1605 |             |       |                     |  |  |
| <b>P9QWN3</b>                            | <b>2.83</b> | -1.66 | 0.49                                       | <b>3.93</b> | -1.78 | 0.41       | <b>3.97</b> | -2.33 | 0.46       | <b>1.83</b> | -1.21 | 0.51       | <b>0.60</b> | -1.02 | 0.00                |  |  |
|  |             | -0.82 | 0.06                                       |             | -0.90 | 0.06       |             | -0.93 | 0.06       |             | -0.37 | 0.06       |             | -0.16 | 0.00                |  |  |
| <b>83L8FJ</b>                            | <b>3.52</b> | -0.27 | 1.03                                       | <b>4.75</b> | -0.16 | 0.84       | <b>4.80</b> | -0.24 | 0.92       | <b>2.18</b> | -0.08 | 0.29       | <b>0.76</b> | 0.00  | 0.18                |  |  |
|  |             | -0.13 | 0.12                                       |             | -0.08 | 0.12       |             | -0.10 | 0.12       |             | -0.02 | 0.03       |             | 0.00  | 0.02                |  |  |
| <b>BFZE6F</b>                            | <b>4.10</b> | 0.91  | 0.60                                       | <b>5.35</b> | 1.02  | 0.30       | <b>5.17</b> | 0.69  | 0.26       | <b>2.55</b> | 1.16  | 0.43       | <b>0.87</b> | 0.74  | 0.08                |  |  |
|  |             | 0.45  | 0.07                                       |             | 0.52  | 0.04       |             | 0.27  | 0.03       |             | 0.35  | 0.05       |             | 0.11  | 0.01                |  |  |
| <b>GBLMGA</b>                            | <b>4.43</b> | 1.59  | 0.98                                       | <b>5.53</b> | 1.38  | 1.09       | <b>5.53</b> | 1.58  | 1.21       | <b>2.90</b> | 2.30  | 2.64       | <b>1.43</b> | 4.44  | 5.40                |  |  |
|  |             | 0.78  | 0.12                                       |             | 0.70  | 0.15       |             | 0.63  | 0.15       |             | 0.70  | 0.30       |             | 0.68  | 0.58                |  |  |
| <b>644GFL</b>                            | <b>4.15</b> | 1.01  | 0.26                                       | <b>5.40</b> | 1.11  | 0.37       | <b>5.34</b> | 1.09  | 0.46       | <b>2.68</b> | 1.58  | 0.89       | <b>0.87</b> | 0.77  | 0.11                |  |  |
|  |             | 0.50  | 0.03                                       |             | 0.56  | 0.05       |             | 0.44  | 0.06       |             | 0.48  | 0.10       |             | 0.12  | 0.01                |  |  |
| <b>2GK3BP</b>                            | <b>3.79</b> | 0.28  | 0.60                                       | <b>4.87</b> | 0.08  | 0.34       | <b>5.03</b> | 0.32  | 0.82       | <b>2.27</b> | 0.22  | 0.54       | <b>0.78</b> | 0.18  | 0.19                |  |  |
|  |             | 0.14  | 0.07                                       |             | 0.04  | 0.05       |             | 0.13  | 0.10       |             | 0.07  | 0.06       |             | 0.03  | 0.02                |  |  |
| <b>37H3CQ</b>                            | <b>5.70</b> | 4.17  | 0.00                                       | <b>7.20</b> | 4.67  | 1.04       | <b>6.35</b> | 3.62  | 1.56       | <b>3.10</b> | 2.98  | 1.95       | <b>0.75</b> | -0.05 | 0.65                |  |  |
|  |             | 2.05  | 0.00                                       |             | 2.37  | 0.15       |             | 1.45  | 0.20       |             | 0.90  | 0.22       |             | -0.01 | 0.07                |  |  |
| <b>33JQFQ</b>                            | <b>3.65</b> | 0.00  | 1.49                                       | <b>4.66</b> | -0.35 | 1.01       | <b>4.80</b> | -0.25 | 2.13       | <b>2.35</b> | 0.48  | 1.32       | <b>0.94</b> | 1.18  | 0.92                |  |  |
|  |             | 0.00  | 0.18                                       |             | -0.18 | 0.14       |             | -0.10 | 0.27       |             | 0.15  | 0.15       |             | 0.18  | 0.10                |  |  |
| <b>LM4ZL8</b>                            | <b>3.59</b> | -0.12 | 2.73                                       | <b>4.76</b> | -0.14 | 2.26       | <b>5.16</b> | 0.64  | 0.75       | <b>2.00</b> | -0.65 | 0.84       | <b>0.89</b> | 0.88  | 0.00                |  |  |
|  |             | -0.06 | 0.32                                       |             | -0.07 | 0.32       |             | 0.26  | 0.09       |             | -0.20 | 0.10       |             | 0.13  | 0.00                |  |  |
| <b>6BMKMN</b>                            | <b>3.23</b> | -0.86 | 0.64                                       | <b>4.58</b> | -0.49 | 0.86       | <b>4.48</b> | -1.06 | 0.09       | <b>2.09</b> | -0.37 | 0.75       | <b>0.84</b> | 0.58  | 0.48                |  |  |
|  |             | -0.42 | 0.08                                       |             | -0.25 | 0.12       |             | -0.42 | 0.01       |             | -0.11 | 0.09       |             | 0.09  | 0.05                |  |  |
| <b>F92H9C</b>                            | <b>4.36</b> | 1.45  | 0.59                                       | <b>4.92</b> | 0.18  | 0.86       | <b>4.97</b> | 0.17  | 0.59       | <b>2.72</b> | 1.72  | 0.61       | <b>1.28</b> | 3.44  | 0.65                |  |  |
|  |             | 0.71  | 0.07                                       |             | 0.09  | 0.12       |             | 0.07  | 0.08       |             | 0.52  | 0.07       |             | 0.52  | 0.07                |  |  |
| <b>PFR9KY</b>                            | <b>3.98</b> | 0.67  | 1.68                                       | <b>4.75</b> | -0.16 | 1.81       | <b>4.48</b> | -1.05 | 2.77       | <b>2.39</b> | 0.63  | 0.90       | <b>0.73</b> | -0.14 | 0.38                |  |  |
|  |             | 0.33  | 0.20                                       |             | -0.08 | 0.25       |             | -0.42 | 0.35       |             | 0.19  | 0.10       |             | -0.02 | 0.04                |  |  |
| <b>K8VMR6</b>                            | <b>3.60</b> | -0.10 | 0.00                                       | <b>4.90</b> | 0.13  | 0.00       | <b>5.00</b> | 0.25  | 0.00       | <b>2.17</b> | -0.11 | 0.51       | <b>0.60</b> | -1.02 | 0.00                |  |  |
|  |             | -0.05 | 0.00                                       |             | 0.07  | 0.00       |             | 0.10  | 0.00       |             | -0.03 | 0.06       |             | -0.16 | 0.00                |  |  |
| <b>XWTMKR</b>                            | <b>3.65</b> | 0.00  | 1.12                                       | <b>4.72</b> | -0.22 | 0.48       | <b>4.75</b> | -0.37 | 0.36       | <b>2.20</b> | -0.01 | 0.71       | <b>0.78</b> | 0.14  | 0.27                |  |  |
|  |             | 0.00  | 0.13                                       |             | -0.11 | 0.07       |             | -0.15 | 0.05       |             | 0.00  | 0.08       |             | 0.02  | 0.03                |  |  |
| <b>FPNYC9</b>                            | <b>4.34</b> | 1.40  | 0.15                                       | <b>5.67</b> | 1.66  | 0.18       | <b>5.47</b> | 1.43  | 0.12       | <b>2.73</b> | 1.74  | 0.09       | <b>0.93</b> | 1.14  | 0.25                |  |  |
|  |             | 0.69  | 0.02                                       |             | 0.84  | 0.03       |             | 0.57  | 0.02       |             | 0.53  | 0.01       |             | 0.17  | 0.03                |  |  |
| <b>FKH3T9</b>                            | <b>3.71</b> | 0.13  | 0.52                                       | <b>4.97</b> | 0.27  | 0.38       | <b>4.86</b> | -0.10 | 0.46       | <b>1.89</b> | -1.03 | 0.82       | <b>0.61</b> | -0.93 | 0.74                |  |  |
|  |             | 0.06  | 0.06                                       |             | 0.14  | 0.05       |             | -0.04 | 0.06       |             | -0.31 | 0.09       |             | -0.14 | 0.08                |  |  |
| <b>QECBRZ</b>                            | <b>3.96</b> | 0.63  | 0.31                                       | <b>5.17</b> | 0.66  | 0.28       | <b>5.23</b> | 0.83  | 0.32       | <b>2.35</b> | 0.48  | 0.65       | <b>0.76</b> | 0.00  | 0.11                |  |  |
|  |             | 0.31  | 0.04                                       |             | 0.34  | 0.04       |             | 0.33  | 0.04       |             | 0.15  | 0.07       |             | 0.00  | 0.01                |  |  |
| <b>6VACMK</b>                            | <b>3.53</b> | -0.24 | 0.59                                       | <b>4.80</b> | -0.06 | 0.27       | <b>4.78</b> | -0.29 | 0.75       | <b>2.09</b> | -0.36 | 0.47       | <b>0.76</b> | 0.00  | 0.33                |  |  |
|  |             | -0.12 | 0.07                                       |             | -0.03 | 0.04       |             | -0.12 | 0.09       |             | -0.11 | 0.05       |             | 0.00  | 0.04                |  |  |
| <b>DFA3JC</b>                            | <b>3.83</b> | 0.36  | 0.57                                       | <b>4.99</b> | 0.31  | 0.00       | <b>4.95</b> | 0.12  | 0.55       | <b>2.31</b> | 0.35  | 0.05       | <b>0.79</b> | 0.22  | 0.16                |  |  |
|  |             | 0.18  | 0.07                                       |             | 0.16  | 0.00       |             | 0.05  | 0.07       |             | 0.11  | 0.01       |             | 0.03  | 0.02                |  |  |
| <b>K2N3HD</b>                            | <b>3.36</b> | -0.58 | 0.32                                       | <b>4.48</b> | -0.70 | 0.07       | <b>4.62</b> | -0.69 | 0.16       | <b>2.11</b> | -0.29 | 0.13       | <b>0.76</b> | 0.05  | 0.05                |  |  |
|  |             | -0.29 | 0.04                                       |             | -0.35 | 0.01       |             | -0.28 | 0.02       |             | -0.09 | 0.02       |             | 0.01  | 0.01                |  |  |



## ALP Program - Participant Web Summary Report - Cycle 29

|               | 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>YKBCLZ</b> | <b>3.44</b> | -0.43      | 0.55    | <b>4.35</b> | -0.96      | 0.68    | <b>4.41</b> | -1.22      | 0.53    | <b>1.97</b> | -0.77      | 0.36    | <b>0.61</b> | -0.98      | 0.14    |
|               |             | -0.21      | 0.06    |             | -0.49      | 0.10    |             | -0.49      | 0.07    |             | -0.23      | 0.04    |             | -0.15      | 0.02    |
| <b>RMZ998</b> | <b>3.90</b> | 0.51       | 2.55    | <b>5.13</b> | 0.59       | 2.17    | <b>5.30</b> | 1.00       | 1.58    | <b>2.33</b> | 0.44       | 2.69    | <b>0.67</b> | -0.59      | 3.01    |
|               |             | 0.25       | 0.30    |             | 0.30       | 0.31    |             | 0.40       | 0.20    |             | 0.13       | 0.31    |             | -0.09      | 0.32    |
| <b>T9EFX6</b> | <b>2.64</b> | -2.05      |         | <b>1.28</b> | -7.01      |         | <b>0.12</b> | -11.94     |         | <b>0.24</b> | -6.45      |         | <b>0.16</b> | -3.91      |         |
|               |             | -1.01      | 0.00    |             | -3.55      | 0.00    |             | -4.78      | 0.00    |             | -1.96      | 0.00    |             | -0.60      | 0.00    |
| <b>3KE7UV</b> | <b>3.02</b> | -1.27      | 0.64    | <b>3.97</b> | -1.70      | 0.86    | <b>4.09</b> | -2.02      | 0.21    | <b>1.92</b> | -0.92      | 0.35    | <b>0.68</b> | -0.48      | 0.05    |
|               |             | -0.63      | 0.08    |             | -0.86      | 0.12    |             | -0.81      | 0.03    |             | -0.28      | 0.04    |             | -0.07      | 0.01    |
| <b>R9KB47</b> | <b>3.31</b> | -0.69      | 1.78    | <b>5.02</b> | 0.37       | 1.61    | <b>5.03</b> | 0.32       | 1.87    | <b>2.07</b> | -0.42      | 1.72    | <b>0.64</b> | -0.74      | 0.46    |
|               |             | -0.34      | 0.21    |             | 0.19       | 0.23    |             | 0.13       | 0.24    |             | -0.13      | 0.20    |             | -0.11      | 0.05    |
| <b>LZMPAC</b> | <b>3.87</b> | 0.44       | 0.49    | <b>4.73</b> | -0.20      | 0.41    | <b>4.67</b> | -0.58      | 0.46    | <b>2.20</b> | 0.00       | 0.88    | <b>0.70</b> | -0.37      | 0.00    |
|               |             | 0.22       | 0.06    |             | -0.10      | 0.06    |             | -0.23      | 0.06    |             | 0.00       | 0.10    |             | -0.06      | 0.00    |
| <b>GAPFPH</b> | <b>3.79</b> | 0.29       | 0.26    | <b>4.92</b> | 0.18       | 0.36    | <b>5.09</b> | 0.48       | 0.05    | <b>2.31</b> | 0.37       | 0.05    | <b>0.78</b> | 0.13       | 0.12    |
|               |             | 0.14       | 0.03    |             | 0.09       | 0.05    |             | 0.19       | 0.01    |             | 0.11       | 0.01    |             | 0.02       | 0.01    |
| <b>T84DB7</b> | <b>3.93</b> | 0.58       | 0.98    | <b>5.10</b> | 0.53       | 0.71    | <b>5.03</b> | 0.33       | 0.91    | <b>2.37</b> | 0.55       | 0.51    | <b>0.80</b> | 0.29       | 0.00    |
|               |             | 0.28       | 0.12    |             | 0.27       | 0.10    |             | 0.13       | 0.12    |             | 0.17       | 0.06    |             | 0.04       | 0.00    |
| <b>L2J8CD</b> | <b>4.12</b> | 0.95       | 0.34    | <b>5.03</b> | 0.39       | 0.15    | <b>5.11</b> | 0.52       | 0.32    | <b>2.71</b> | 1.69       | 0.22    | <b>0.94</b> | 1.23       | 0.39    |
|               |             | 0.47       | 0.04    |             | 0.20       | 0.02    |             | 0.21       | 0.04    |             | 0.51       | 0.03    |             | 0.19       | 0.04    |
| <b>CJDKVM</b> | <b>3.75</b> | 0.21       | 0.05    | <b>4.92</b> | 0.16       | 0.00    | <b>5.00</b> | 0.26       | 0.00    | <b>2.26</b> | 0.19       | 0.92    | <b>0.75</b> | -0.02      | 0.00    |
|               |             | 0.10       | 0.01    |             | 0.08       | 0.00    |             | 0.10       | 0.00    |             | 0.06       | 0.10    |             | 0.00       | 0.00    |
| <b>TNQUE3</b> | <b>3.60</b> | -0.10      | 1.47    | <b>4.77</b> | -0.13      | 1.64    | <b>4.87</b> | -0.08      | 1.83    | <b>2.13</b> | -0.22      | 2.54    | <b>0.63</b> | -0.80      | 0.54    |
|               |             | -0.05      | 0.17    |             | -0.07      | 0.23    |             | -0.03      | 0.23    |             | -0.07      | 0.29    |             | -0.12      | 0.06    |
| <b>2WG8UU</b> | <b>4.40</b> | 1.53       | 1.30    | <b>5.72</b> | 1.75       | 0.36    | <b>5.60</b> | 1.75       | 0.65    | <b>2.87</b> | 2.21       | 0.99    | <b>0.88</b> | 0.83       | 0.24    |
|               |             | 0.75       | 0.15    |             | 0.89       | 0.05    |             | 0.70       | 0.08    |             | 0.67       | 0.11    |             | 0.13       | 0.03    |
| <b>XM44Y7</b> | <b>3.78</b> | 0.27       | 0.25    | <b>4.91</b> | 0.15       | 0.38    | <b>4.92</b> | 0.04       | 1.72    | <b>2.27</b> | 0.22       | 0.22    | <b>0.78</b> | 0.14       | 0.11    |
|               |             | 0.13       | 0.03    |             | 0.08       | 0.05    |             | 0.02       | 0.22    |             | 0.07       | 0.03    |             | 0.02       | 0.01    |
| <b>PWR8L8</b> | <b>3.58</b> | -0.14      | 0.31    | <b>4.56</b> | -0.53      | 2.60    | <b>4.88</b> | -0.05      | 0.69    | <b>2.15</b> | -0.16      | 0.75    | <b>0.68</b> | -0.50      | 0.47    |
|               |             | -0.07      | 0.04    |             | -0.27      | 0.36    |             | -0.02      | 0.09    |             | -0.05      | 0.09    |             | -0.08      | 0.05    |
| <b>VBVLAX</b> | <b>3.63</b> | -0.03      | 0.49    | <b>4.83</b> | 0.00       | 0.41    | <b>4.77</b> | -0.33      | 0.46    | <b>2.17</b> | -0.11      | 0.51    | <b>0.70</b> | -0.37      | 0.00    |
|               |             | -0.02      | 0.06    |             | 0.00       | 0.06    |             | -0.13      | 0.06    |             | -0.03      | 0.06    |             | -0.06      | 0.00    |
| <b>TJBJ2Y</b> | <b>3.58</b> | -0.15      | 0.35    | <b>4.72</b> | -0.23      | 0.15    | <b>4.84</b> | -0.15      | 0.16    | <b>2.22</b> | 0.07       | 0.55    | <b>0.65</b> | -0.67      | 0.59    |
|               |             | -0.07      | 0.04    |             | -0.12      | 0.02    |             | -0.06      | 0.02    |             | 0.02       | 0.06    |             | -0.10      | 0.06    |
| <b>AM2DUK</b> | <b>3.60</b> | -0.10      | 0.85    | <b>4.77</b> | -0.13      | 0.41    | <b>4.90</b> | 0.00       | 1.37    | <b>2.17</b> | -0.11      | 0.51    | <b>0.77</b> | 0.09       | 0.25    |
|               |             | -0.05      | 0.10    |             | -0.07      | 0.06    |             | 0.00       | 0.17    |             | -0.03      | 0.06    |             | 0.01       | 0.03    |
| <b>XHNEVW</b> | <b>3.71</b> | 0.12       | 0.02    | <b>4.98</b> | 0.29       | 0.02    | <b>4.91</b> | 0.02       | 0.20    | <b>2.22</b> | 0.06       | 0.05    | <b>0.78</b> | 0.14       | 0.05    |
|               |             | 0.06       | 0.00    |             | 0.15       | 0.00    |             | 0.01       | 0.03    |             | 0.02       | 0.01    |             | 0.02       | 0.01    |
| <b>49YVGP</b> | <b>3.28</b> | -0.76      | 0.26    | <b>5.28</b> | 0.89       | 1.02    | <b>4.91</b> | 0.03       | 0.98    | <b>1.99</b> | -0.69      | 0.15    | <b>0.68</b> | -0.48      | 0.30    |
|               |             | -0.37      | 0.03    |             | 0.45       | 0.14    |             | 0.01       | 0.12    |             | -0.21      | 0.02    |             | -0.07      | 0.03    |
| <b>4JGF2L</b> | <b>4.70</b> | 2.13       | 1.43    | <b>5.25</b> | 0.82       | 1.48    | <b>5.04</b> | 0.34       | 1.77    | <b>2.67</b> | 1.56       | 0.24    | <b>0.62</b> | -0.87      | 0.07    |
|               |             | 1.05       | 0.17    |             | 0.41       | 0.21    |             | 0.14       | 0.22    |             | 0.47       | 0.03    |             | -0.13      | 0.01    |
| <b>YTJ7GT</b> | <b>4.20</b> | 1.12       |         | <b>6.20</b> | 2.70       |         | <b>4.60</b> | -0.75      |         | <b>2.20</b> | 0.00       |         |             |            |         |
|               |             | 0.55       | 0.00    |             | 1.37       | 0.00    |             | -0.30      | 0.00    |             | 0.00       | 0.00    |             |            |         |
| <b>YPJVKT</b> | <b>3.36</b> | -0.59      | 0.98    | <b>4.77</b> | -0.13      | 0.86    | <b>5.04</b> | 0.36       | 0.50    | <b>2.26</b> | 0.21       | 0.43    | <b>0.99</b> | 1.51       | 0.30    |
|               |             | -0.29      | 0.12    |             | -0.06      | 0.12    |             | 0.14       | 0.06    |             | 0.06       | 0.05    |             | 0.23       | 0.03    |



## ALP Program - Participant Web Summary Report - Cycle 29

|                          | 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>4KCY3M</b>            | <b>3.07</b>        | -1.19   | 0.49    | <b>4.17</b>        | -1.32   | 0.82    | <b>4.20</b>        | -1.75   | 0.79    | <b>1.87</b>        | -1.10   | 0.51    | <b>0.70</b>        | -0.37   | 0.00    |
|                          |                    | -0.58   | 0.06    |                    | -0.67   | 0.12    |                    | -0.70   | 0.10    |                    | -0.33   | 0.06    |                    | -0.06   | 0.00    |
| <b>MZGWVZ</b>            | <b>5.76</b>        | 4.30    | 0.26    | <b>6.69</b>        | 3.67    | 0.89    | <b>6.23</b>        | 3.33    | 0.36    | <b>3.57</b>        | 4.51    | 0.58    | <b>0.96</b>        | 1.36    | 0.39    |
|                          |                    | 2.11    | 0.03    |                    | 1.86    | 0.12    |                    | 1.33    | 0.05    |                    | 1.37    | 0.07    |                    | 0.21    | 0.04    |
| <b>DM76CB</b>            | <b>3.60</b>        | -0.10   | 2.25    | <b>4.73</b>        | -0.20   | 2.29    | <b>4.90</b>        | 0.00    | 1.58    | <b>2.13</b>        | -0.22   | 2.03    | <b>0.63</b>        | -0.80   | 1.08    |
|                          |                    | -0.05   | 0.26    |                    | -0.10   | 0.32    |                    | 0.00    | 0.20    |                    | -0.07   | 0.23    |                    | -0.12   | 0.12    |
| <b>VNJNRP</b>            | <b>3.64</b>        | -0.02   | 0.48    | <b>4.69</b>        | -0.28   | 0.40    | <b>4.76</b>        | -0.36   | 0.39    | <b>2.19</b>        | -0.05   | 0.31    | <b>0.75</b>        | -0.07   | 0.07    |
|                          |                    | -0.01   | 0.06    |                    | -0.14   | 0.06    |                    | -0.15   | 0.05    |                    | -0.02   | 0.04    |                    | -0.01   | 0.01    |
| <b>BLKJTA</b>            | <b>3.67</b>        | 0.03    | 0.49    | <b>4.47</b>        | -0.72   | 0.41    | <b>4.77</b>        | -0.33   | 0.46    | <b>2.43</b>        | 0.77    | 0.51    | <b>3.33</b>        | 16.90   | 0.54    |
|                          |                    | 0.02    | 0.06    |                    | -0.37   | 0.06    |                    | -0.13   | 0.06    |                    | 0.23    | 0.06    |                    | 2.58    | 0.06    |
| <b>DYXQH7</b>            | <b>3.73</b>        | 0.16    | 0.87    | <b>4.93</b>        | 0.19    | 0.79    | <b>5.09</b>        | 0.47    | 0.48    | <b>2.28</b>        | 0.27    | 0.57    | <b>0.80</b>        | 0.27    | 0.11    |
|                          |                    | 0.08    | 0.10    |                    | 0.10    | 0.11    |                    | 0.19    | 0.06    |                    | 0.08    | 0.07    |                    | 0.04    | 0.01    |
| <b>Grand Median</b>      |                    | 3.65    |         |                    | 4.83    |         |                    | 4.90    |         |                    | 2.20    |         |                    | 0.76    |         |
| <b>Median Abs Dev</b>    |                    | 0.21    |         |                    | 0.16    |         |                    | 0.14    |         |                    | 0.11    |         |                    | 0.07    |         |
| <b>Avg Within Lab SD</b> |                    | 0.12    |         |                    | 0.14    |         |                    | 0.13    |         |                    | 0.11    |         |                    | 0.11    |         |
| <b>Labs Included</b>     |                    | 45      |         |                    | 45      |         |                    | 45      |         |                    | 45      |         |                    | 44      |         |
| <b>Labs Reporting</b>    |                    | 45      |         |                    | 45      |         |                    | 45      |         |                    | 45      |         |                    | 44      |         |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 - Actual (Unregressed) (SubTestCode 184) | in the Soil Organic Matter Property Groups |              |             |              |             |              |             |              |             |              | Data units: % |  |  |  |  |
|--|--|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|---------------|--|--|--|--|
|  | SRSSRS1601                                 | SRSSRS1602   | SRSSRS1603  | SRSSRS1604   | SRSSRS1605  |              |             |              |             |              | SRSSRS1605    |  |  |  |  |
| <b>LZMPAC</b>                                | <b>3.97</b>                                | 1.00<br>0.06 | <b>4.87</b> | 1.00<br>0.12 | <b>4.77</b> | 1.00<br>0.06 | <b>2.30</b> | 1.00<br>0.10 | <b>0.70</b> | 1.00<br>0.00 |               |  |  |  |  |
| <b>Grand Median</b>                          |  | 3.97         |             | 4.87         |             | 4.77         |             | 2.30         |             | 0.70         |               |  |  |  |  |
| <b>Median Abs Dev</b>                        |  |              |             |              |             |              |             |              |             |              |               |  |  |  |  |
| <b>Avg Within Lab SD</b>                     |  | 0.06         |             | 0.12         |             | 0.06         |             | 0.10         |             | 0.00         |               |  |  |  |  |
| <b>Labs Included</b>                         |  | 1            |             | 1            |             | 1            |             | 1            |             | 1            |               |  |  |  |  |
| <b>Labs Reporting</b>                        |  | 1            |             | 1            |             | 1            |             | 1            |             | 1            |               |  |  |  |  |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 185) | in the Content Property Groups |       |      |             |       |      |             |       |      |             |       |      | Data units: Percent |       |      |
|---------------------------------|--------------------------------|-------|------|-------------|-------|------|-------------|-------|------|-------------|-------|------|---------------------|-------|------|
|                                 | SRSSRS1601                     |       |      | SRSSRS1602  |       |      | SRSSRS1603  |       |      | SRSSRS1604  |       |      | SRSSRS1605          |       |      |
| <b>AAUKBK</b>                   | <b>5.40</b>                    | 0.50  | 0.70 |             |       |      |             |       |      |             |       |      |                     |       |      |
|                                 |                                | 1.00  | 0.10 |             |       |      |             |       |      |             |       |      |                     |       |      |
| <b>644GFL</b>                   | <b>4.48</b>                    | 0.04  | 0.92 | <b>3.17</b> | 0.32  | 2.12 | <b>0.37</b> | 0.00  | 2.14 | <b>0.92</b> | 2.10  | 1.94 | <b>0.57</b>         | 1.54  | 2.00 |
|                                 |                                | 0.08  | 0.13 |             | 0.55  | 0.38 |             | 0.00  | 0.12 |             | 0.75  | 0.10 |                     | 0.40  | 0.18 |
| <b>K8VMR6</b>                   | <b>2.03</b>                    | -1.18 | 0.40 | <b>0.93</b> | -0.98 | 0.32 | <b>0.20</b> | -0.75 | 0.00 | <b>0.10</b> | -0.19 | 0.00 | <b>0.10</b>         | -0.27 | 0.00 |
|                                 |                                | -2.37 | 0.06 |             | -1.69 | 0.06 |             | -0.17 | 0.00 |             | -0.07 | 0.00 |                     | -0.07 | 0.00 |
| <b>FPNYC9</b>                   | <b>4.40</b>                    | 0.00  | 0.70 | <b>3.77</b> | 0.67  | 0.64 | <b>0.40</b> | 0.12  | 0.00 | <b>0.17</b> | 0.00  | 1.08 |                     |       |      |
|                                 |                                | 0.00  | 0.10 |             | 1.15  | 0.12 |             | 0.03  | 0.00 |             | 0.00  | 0.06 |                     |       |      |
| <b>UNPG82</b>                   | <b>5.27</b>                    | 0.43  | 2.23 |             |       |      |             |       |      |             |       |      |                     |       |      |
|                                 |                                | 0.87  | 0.32 |             |       |      |             |       |      |             |       |      |                     |       |      |
| <b>YTJ7GT</b>                   | <b>3.34</b>                    | -0.53 |      | <b>2.62</b> | 0.00  |      | <b>0.62</b> | 1.07  |      | <b>0.44</b> | 0.76  |      | <b>0.24</b>         | 0.27  |      |
|                                 |                                | -1.06 | 0.00 |             | 0.00  | 0.00 |             | 0.25  | 0.00 |             | 0.27  | 0.00 |                     | 0.07  | 0.00 |
| <b>DYXQH7</b>                   | <b>0.33</b>                    | -2.03 | 0.18 | <b>0.21</b> | -1.40 | 0.06 | <b>0.04</b> | -1.43 | 0.64 | <b>0.05</b> | -0.33 | 0.26 | <b>0.01</b>         | -0.62 |      |
|                                 |                                | -4.07 | 0.03 |             | -2.41 | 0.01 |             | -0.33 | 0.04 |             | -0.12 | 0.01 |                     | -0.16 | 0.00 |
| <b>Grand Median</b>             |                                | 4.40  |      |             | 2.62  |      |             | 0.37  |      |             | 0.17  |      |                     | 0.17  |      |
| <b>Median Abs Dev</b>           |                                | 1.00  |      |             | 1.15  |      |             | 0.17  |      |             | 0.12  |      |                     | 0.12  |      |
| <b>Avg Within Lab SD</b>        |                                | 0.14  |      |             | 0.18  |      |             | 0.05  |      |             | 0.05  |      |                     | 0.09  |      |
| <b>Labs Included</b>            |                                | 7     |      |             | 5     |      |             | 5     |      |             | 5     |      |                     | 4     |      |
| <b>Labs Reporting</b>           |                                | 7     |      |             | 5     |      |             | 5     |      |             | 5     |      |                     | 4     |      |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 186) | in the Other 1 Property Groups |      |     |             |      |     |             |      |     |             |      |     | Data units: cmol/kg |      |     |
|---|--------------------------------|------|-----|-------------|------|-----|-------------|------|-----|-------------|------|-----|---------------------|------|-----|
|   | SRSSRS1601                     |      |     | SRSSRS1602  |      |     | SRSSRS1603  |      |     | SRSSRS1604  |      |     | SRSSRS1605          |      |     |
| <b>AAUKBK</b>                               | <b>23.2</b>                    | 0.4  | 0.2 | <b>23.8</b> | 0.2  | 0.1 | <b>10.9</b> | 0.0  | 0.2 | <b>12.5</b> | 0.1  | 0.6 | <b>1.6</b>          | -0.8 | 0.0 |
|   |                                | 1.3  | 0.2 |             | 0.6  | 0.1 |             | 0.0  | 0.1 |             | 0.3  | 0.2 |                     | -0.5 | 0.0 |
| <b>9JP2MJ</b>                               | <b>17.8</b>                    | -1.3 | 1.8 | <b>19.2</b> | -1.2 | 0.6 | <b>10.0</b> | -0.4 | 0.9 | <b>10.4</b> | -0.7 | 2.0 | <b>2.1</b>          | 0.0  | 1.6 |
|   |                                | -4.1 | 1.6 |             | -4.0 | 0.8 |             | -0.9 | 0.2 |             | -1.9 | 0.6 |                     | 0.0  | 0.2 |
| <b>PFR9KY</b>                               | <b>22.2</b>                    | 0.1  | 1.9 | <b>23.4</b> | 0.1  | 2.5 | <b>13.9</b> | 1.2  | 2.4 | <b>12.3</b> | 0.0  | 1.0 | <b>2.4</b>          | 0.5  | 1.5 |
|   |                                | 0.2  | 1.6 |             | 0.3  | 3.8 |             | 2.9  | 0.6 |             | 0.0  | 0.3 |                     | 0.3  | 0.2 |
| <b>LZMPAC</b>                               | <b>18.9</b>                    | -1.0 |     | <b>19.5</b> | -1.2 |     | <b>9.6</b>  | -0.5 |     | <b>10.4</b> | -0.7 |     | <b>1.6</b>          | -0.8 |     |
|   |                                | -3.1 | 0.0 |             | -3.7 | 0.0 |             | -1.3 | 0.0 |             | -1.9 | 0.0 |                     | -0.5 | 0.0 |
| <b>YTJ7GT</b>                               | <b>24.4</b>                    | 0.8  |     | <b>26.8</b> | 1.1  |     | <b>15.2</b> | 1.7  |     | <b>14.2</b> | 0.7  |     | <b>2.3</b>          | 0.2  |     |
|   |                                | 2.5  | 0.0 |             | 3.6  | 0.0 |             | 4.3  | 0.0 |             | 1.9  | 0.0 |                     | 0.2  | 0.0 |
| <b>C8H8XB</b>                               | <b>21.9</b>                    | 0.0  | 0.3 | <b>23.2</b> | 0.0  | 0.6 | <b>11.3</b> | 0.1  | 0.4 | <b>16.8</b> | 1.7  | 1.1 | <b>2.7</b>          | 0.9  | 1.1 |
|   |                                | 0.0  | 0.3 |             | 0.0  | 0.9 |             | 0.4  | 0.1 |             | 4.6  | 0.4 |                     | 0.6  | 0.2 |
| <b>XYFCWR</b>                               | <b>18.5</b>                    | -1.1 | 0.4 | <b>20.3</b> | -0.9 | 0.1 | <b>9.0</b>  | -0.8 | 0.2 | <b>10.4</b> | -0.7 | 0.7 | <b>1.2</b>          | -1.5 | 1.0 |
|   |                                | -3.4 | 0.3 |             | -2.9 | 0.2 |             | -1.9 | 0.1 |             | -1.9 | 0.2 |                     | -1.0 | 0.1 |
| <b>Grand Median</b>                         |                                | 21.9 |     | 23.2        |      |     | 10.9        |      |     | 12.3        |      |     | 2.13                |      |     |
| <b>Median Abs Dev</b>                       |                                | 2.5  |     | 2.9         |      |     | 1.3         |      |     | 1.9         |      |     | 0.53                |      |     |
| <b>Avg Within Lab SD</b>                    |                                | 0.9  |     | 1.5         |      |     | 0.3         |      |     | 0.3         |      |     | 0.14                |      |     |
| <b>Labs Included</b>                        |                                | 7    |     | 7           |      |     | 7           |      |     | 7           |      |     | 7                   |      |     |
| <b>Labs Reporting</b>                       |                                | 7    |     | 7           |      |     | 7           |      |     | 7           |      |     | 7                   |      |     |





## ALP Program - Participant Web Summary Report - Cycle 29

|                    |         |         |                    |         |         |                    |         |         |                    |         |         |                    |         |         |
|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|
| 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 187) | in the Other 1 Property Groups |      |     |             |      |     |             |      |     |             |      |     |            |      |     | Data units: cmol/kg |
|------------------------------------|--------------------------------|------|-----|-------------|------|-----|-------------|------|-----|-------------|------|-----|------------|------|-----|---------------------|
|                                    | SRSSRS1601                     |      |     | SRSSRS1602  |      |     | SRSSRS1603  |      |     | SRSSRS1604  |      |     | SRSSRS1605 |      |     |                     |
| <b>GBLMGA</b>                      | <b>32.7</b>                    | 0.6  | 1.7 | <b>23.5</b> | 0.4  | 0.2 | <b>13.2</b> | 1.4  | 0.5 | <b>19.2</b> | 2.6  | 0.7 | <b>1.2</b> | -0.2 | 0.0 |                     |
|                                    |                                | 4.1  | 2.4 |             | 1.3  | 0.3 |             | 4.6  | 0.3 |             | 7.4  | 0.3 |            | -0.3 | 0.0 |                     |
| <b>644GFL</b>                      | <b>26.4</b>                    | -0.3 | 0.4 | <b>23.5</b> | 0.4  | 0.4 | <b>6.8</b>  | -0.5 | 0.1 | <b>10.2</b> | -0.5 | 0.6 | <b>1.1</b> | -0.3 | 0.6 |                     |
|                                    |                                | -2.2 | 0.5 |             | 1.4  | 0.6 |             | -1.8 | 0.0 |             | -1.5 | 0.3 |            | -0.4 | 0.1 |                     |
| <b>2GK3BP</b>                      | <b>27.5</b>                    | -0.2 | 0.2 | <b>22.2</b> | 0.0  | 0.2 | <b>11.7</b> | 0.9  | 1.0 | <b>13.3</b> | 0.5  | 1.7 | <b>4.0</b> | 1.6  | 0.2 |                     |
|                                    |                                | -1.0 | 0.3 |             | 0.0  | 0.3 |             | 3.1  | 0.5 |             | 1.5  | 0.8 |            | 2.5  | 0.0 |                     |
| <b>QECBRZ</b>                      | <b>22.0</b>                    | -1.0 | 0.5 | <b>19.9</b> | -0.7 | 0.4 | <b>5.1</b>  | -1.0 | 0.1 | <b>8.9</b>  | -1.0 | 0.0 | <b>0.7</b> | -0.5 | 0.0 |                     |
|                                    |                                | -6.5 | 0.7 |             | -2.2 | 0.6 |             | -3.5 | 0.1 |             | -2.9 | 0.0 |            | -0.8 | 0.0 |                     |
| <b>6VACMK</b>                      | <b>20.5</b>                    | -1.2 | 0.9 | <b>16.8</b> | -1.7 | 0.5 | <b>9.6</b>  | 0.3  | 1.4 | <b>12.2</b> | 0.2  | 0.4 | <b>3.4</b> | 1.2  | 2.8 |                     |
|                                    |                                | -8.0 | 1.2 |             | -5.3 | 0.7 |             | 0.9  | 0.6 |             | 0.4  | 0.2 |            | 1.9  | 0.5 |                     |
| <b>GAPFPH</b>                      | <b>29.6</b>                    | 0.2  | 0.1 | <b>23.0</b> | 0.3  | 0.3 | <b>8.6</b>  | 0.0  | 0.3 | <b>9.0</b>  | -1.0 | 0.6 | <b>2.0</b> | 0.3  | 0.4 |                     |
|                                    |                                | 1.0  | 0.1 |             | 0.9  | 0.4 |             | 0.0  | 0.1 |             | -2.8 | 0.3 |            | 0.5  | 0.1 |                     |
| <b>XHNEVW</b>                      | <b>30.2</b>                    | 0.3  | 0.2 | <b>21.4</b> | -0.3 | 0.2 | <b>13.6</b> | 1.5  | 0.2 | <b>12.6</b> | 0.3  | 0.1 |            |      |     |                     |
|                                    |                                | 1.7  | 0.3 |             | -0.8 | 0.3 |             | 5.0  | 0.1 |             | 0.9  | 0.1 |            |      |     |                     |
| <b>49YVGP</b>                      | <b>31.4</b>                    | 0.4  | 0.3 | <b>21.2</b> | -0.3 | 0.3 | <b>7.6</b>  | -0.3 | 0.5 | <b>11.4</b> | -0.1 | 0.3 | <b>4.1</b> | 1.7  | 0.3 |                     |
|                                    |                                | 2.9  | 0.4 |             | -1.0 | 0.5 |             | -1.0 | 0.2 |             | -0.4 | 0.2 |            | 2.6  | 0.1 |                     |
| <b>LVRZT6</b>                      | <b>42.9</b>                    | 2.2  | 1.9 | <b>27.4</b> | 1.6  | 3.1 | <b>8.6</b>  | 0.0  | 2.6 | <b>12.2</b> | 0.1  | 1.2 | <b>2.5</b> | 0.7  | 1.4 |                     |
|                                    |                                | 14.4 | 2.6 |             | 5.2  | 4.2 |             | 0.0  | 1.2 |             | 0.4  | 0.6 |            | 1.0  | 0.3 |                     |
| <b>MZGWVZ</b>                      | <b>25.2</b>                    | -0.5 | 0.4 | <b>19.3</b> | -0.9 | 0.2 | <b>5.8</b>  | -0.8 | 0.2 | <b>9.3</b>  | -0.9 | 0.1 | <b>0.6</b> | -0.6 | 0.3 |                     |
|                                    |                                | -3.3 | 0.6 |             | -2.8 | 0.2 |             | -2.8 | 0.1 |             | -2.5 | 0.1 |            | -0.9 | 0.1 |                     |
| <b>7CWYLG</b>                      | <b>33.1</b>                    | 0.7  | 1.9 | <b>27.3</b> | 1.6  | 0.6 | <b>9.6</b>  | 0.3  | 0.9 | <b>12.8</b> | 0.4  | 2.2 | <b>0.9</b> | -0.4 | 0.0 |                     |
|                                    |                                | 4.6  | 2.6 |             | 5.2  | 0.8 |             | 0.9  | 0.4 |             | 1.1  | 1.0 |            | -0.6 | 0.0 |                     |
| <b>DYXQH7</b>                      | <b>25.0</b>                    | -0.5 | 0.8 | <b>22.2</b> | 0.0  | 1.0 | <b>5.0</b>  | -1.1 | 0.8 | <b>10.3</b> | -0.5 | 1.1 | <b>1.5</b> | 0.0  | 0.4 |                     |
|                                    |                                | -3.5 | 1.1 |             | 0.0  | 1.4 |             | -3.7 | 0.4 |             | -1.5 | 0.5 |            | 0.0  | 0.1 |                     |
| <b>Grand Median</b>                |                                | 28.5 |     | 22.2        |      |     | 8.64        |      |     | 11.8        |      |     | 1.50       |      |     |                     |
| <b>Median Abs Dev</b>              |                                | 3.4  |     | 1.3         |      |     | 2.32        |      |     | 1.5         |      |     | 0.80       |      |     |                     |
| <b>Avg Within Lab SD</b>           |                                | 1.4  |     | 1.3         |      |     | 0.47        |      |     | 0.5         |      |     | 0.17       |      |     |                     |
| <b>Labs Included</b>               |                                | 12   |     | 12          |      |     | 12          |      |     | 12          |      |     | 11         |      |     |                     |
| <b>Labs Reporting</b>              |                                | 12   |     | 12          |      |     | 12          |      |     | 12          |      |     | 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 Density (Scoop) (SubTestCode 188) | in the Other 1 Property Groups |       |      |             |       |      |             |       |      |             |       |      | Data units: g/cc |       |      |
|--|--------------------------------|-------|------|-------------|-------|------|-------------|-------|------|-------------|-------|------|------------------|-------|------|
|  | SRSSRS1601                     |       |      | SRSSRS1602  |       |      | SRSSRS1603  |       |      | SRSSRS1604  |       |      | SRSSRS1605       |       |      |
| <b>AAUKBK</b>                          | <b>1.39</b>                    | 0.93  | 0.71 | <b>1.33</b> | 0.84  | 0.14 | <b>1.27</b> | 0.40  | 0.28 | <b>1.39</b> | 0.83  | 0.50 | <b>1.71</b>      | 0.22  | 0.40 |
|  |                                | 0.10  | 0.02 |             | 0.12  | 0.01 |             | 0.06  | 0.01 |             | 0.10  | 0.02 |                  | 0.04  | 0.02 |
| <b>644GFL</b>                          | <b>1.34</b>                    | 0.51  | 0.54 | <b>1.27</b> | 0.44  | 0.16 | <b>1.25</b> | 0.28  | 0.16 | <b>1.35</b> | 0.52  | 0.20 | <b>1.79</b>      | 0.72  | 0.07 |
|  |                                | 0.06  | 0.01 |             | 0.06  | 0.01 |             | 0.04  | 0.01 |             | 0.06  | 0.01 |                  | 0.12  | 0.00 |
| <b>JBF2VE</b>                          | <b>1.29</b>                    | 0.00  | 0.68 | <b>1.21</b> | 0.00  | 0.09 | <b>1.21</b> | 0.00  | 0.08 | <b>1.33</b> | 0.33  | 0.09 | <b>1.76</b>      | 0.53  | 0.10 |
|  |                                | 0.00  | 0.02 |             | 0.00  | 0.00 |             | 0.00  | 0.00 |             | 0.04  | 0.00 |                  | 0.09  | 0.00 |
| <b>BHL3GF</b>                          | <b>1.27</b>                    | -0.17 | 1.32 | <b>1.19</b> | -0.14 | 1.23 | <b>1.14</b> | -0.48 | 0.99 | <b>1.28</b> | -0.06 | 1.44 | <b>1.55</b>      | -0.73 | 2.07 |
|  |                                | -0.02 | 0.03 |             | -0.02 | 0.05 |             | -0.07 | 0.04 |             | -0.01 | 0.05 |                  | -0.12 | 0.09 |
| <b>7CWYLG</b>                          | <b>1.40</b>                    | 0.99  | 0.63 | <b>1.27</b> | 0.42  | 1.08 | <b>1.30</b> | 0.66  | 0.51 | <b>1.29</b> | 0.00  | 0.76 | <b>1.67</b>      | 0.00  | 0.58 |
|  |                                | 0.11  | 0.02 |             | 0.06  | 0.05 |             | 0.09  | 0.02 |             | 0.00  | 0.03 |                  | 0.00  | 0.03 |
| <b>DM76CB</b>                          | <b>1.27</b>                    | -0.11 | 1.19 | <b>1.07</b> | -0.94 | 1.87 | <b>1.07</b> | -1.00 | 1.13 | <b>1.19</b> | -0.83 | 1.52 | <b>1.64</b>      | -0.20 | 0.46 |
|  |                                | -0.01 | 0.03 |             | -0.13 | 0.08 |             | -0.14 | 0.05 |             | -0.10 | 0.05 |                  | -0.03 | 0.02 |
| <b>DYXQH7</b>                          | <b>1.06</b>                    | -2.01 | 1.48 | <b>0.93</b> | -1.94 | 0.87 | <b>0.94</b> | -1.90 | 2.09 | <b>1.03</b> | -2.16 | 1.32 | <b>1.29</b>      | -2.32 | 1.41 |
|  |                                | -0.23 | 0.04 |             | -0.28 | 0.04 |             | -0.27 | 0.09 |             | -0.26 | 0.05 |                  | -0.38 | 0.06 |
| <b>Grand Median</b>                    |                                | 1.29  |      | 1.21        |       |      | 1.21        |       |      | 1.29        |       |      | 1.67             |       |      |
| <b>Median Abs Dev</b>                  |                                | 0.06  |      | 0.06        |       |      | 0.07        |       |      | 0.06        |       |      | 0.09             |       |      |
| <b>Avg Within Lab SD</b>               |                                | 0.02  |      | 0.04        |       |      | 0.04        |       |      | 0.03        |       |      | 0.04             |       |      |
| <b>Labs Included</b>                   |                                | 7     |      | 7           |       |      | 7           |       |      | 7           |       |      | 7                |       |      |
| <b>Labs Reporting</b>                  |                                | 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 |         |         |

| Sand 2000 - 50 um (SubTestCode 189) | in the Particle Size Analysis Property Groups |       |     |             |       |     |             |      |     |             |       |     | Data units: Percent |      |     |
|-------------------------------------|---|-------|-----|-------------|-------|-----|-------------|------|-----|-------------|-------|-----|---------------------|------|-----|
|                                     | SRSSRS1601                                    |       |     | SRSSRS1602  |       |     | SRSSRS1603  |      |     | SRSSRS1604  |       |     | SRSSRS1605          |      |     |
| <b>YAA32W</b>                       | <b>40.4</b>                                   | -0.2  | 0.7 | <b>25.0</b> | -0.6  | 1.1 | <b>57.5</b> | -0.4 |     | <b>47.5</b> | -0.6  | 1.4 | <b>81.3</b>         | -0.6 | 1.6 |
|                                     |   | -1.1  | 0.7 |             | -3.7  | 1.3 |             | -2.1 | 0.0 |             | -2.5  | 1.3 |                     | -2.6 | 1.3 |
| <b>AAUKBK</b>                       | <b>43.0</b>                                   | 0.2   |     | <b>29.0</b> | 0.1   |     | <b>60.0</b> | 0.1  |     | <b>51.5</b> | 0.4   |     | <b>87.0</b>         | 0.8  |     |
|                                     |   | 1.5   | 0.0 |             | 0.3   | 0.0 |             | 0.4  | 0.0 |             | 1.5   | 0.0 |                     | 3.2  | 0.0 |
| <b>83L8FJ</b>                       | <b>41.5</b>                                   | 0.0   | 0.8 | <b>29.7</b> | 0.2   | 0.5 | <b>55.7</b> | -0.7 | 0.6 | <b>51.5</b> | 0.4   | 1.0 | <b>83.5</b>         | -0.1 | 1.1 |
|                                     |   | 0.0   | 0.9 |             | 1.0   | 0.6 |             | -3.9 | 0.6 |             | 1.5   | 0.9 |                     | -0.3 | 0.9 |
| <b>644GFL</b>                       | <b>44.0</b>                                   | 0.3   | 1.8 | <b>30.0</b> | 0.2   | 0.9 | <b>61.0</b> | 0.3  | 1.0 | <b>51.7</b> | 0.4   | 1.7 | <b>86.0</b>         | 0.5  | 1.3 |
|                                     |   | 2.5   | 2.0 |             | 1.3   | 1.0 |             | 1.4  | 1.0 |             | 1.7   | 1.5 |                     | 2.2  | 1.0 |
| <b>2GK3BP</b>                       | <b>45.1</b>                                   | 0.5   | 0.9 | <b>30.4</b> | 0.3   | 0.6 | <b>58.4</b> | -0.2 | 0.7 | <b>50.4</b> | 0.1   | 0.8 | <b>80.4</b>         | -0.9 | 0.9 |
|                                     |   | 3.5   | 1.0 |             | 1.7   | 0.7 |             | -1.2 | 0.7 |             | 0.4   | 0.7 |                     | -3.4 | 0.7 |
| <b>XWTMKR</b>                       | <b>47.5</b>                                   | 0.8   | 0.8 | <b>30.0</b> | 0.2   | 0.9 | <b>60.5</b> | 0.2  | 0.2 | <b>49.2</b> | -0.2  | 1.2 | <b>86.5</b>         | 0.7  | 0.3 |
|                                     |   | 5.9   | 0.8 |             | 1.3   | 1.1 |             | 1.0  | 0.2 |             | -0.8  | 1.1 |                     | 2.7  | 0.2 |
| <b>FPNYC9</b>                       | <b>39.3</b>                                   | -0.3  | 1.4 | <b>25.3</b> | -0.6  | 1.0 | <b>57.3</b> | -0.4 | 1.2 | <b>46.7</b> | -0.8  | 1.3 | <b>83.3</b>         | -0.1 | 1.5 |
|                                     |   | -2.2  | 1.5 |             | -3.4  | 1.2 |             | -2.2 | 1.2 |             | -3.3  | 1.2 |                     | -0.5 | 1.2 |
| <b>FKH3T9</b>                       | <b>41.3</b>                                   | 0.0   | 1.1 | <b>32.0</b> | 0.6   | 1.7 | <b>57.7</b> | -0.3 | 1.2 | <b>47.7</b> | -0.6  | 1.3 | <b>85.0</b>         | 0.3  |     |
|                                     |   | -0.2  | 1.2 |             | 3.3   | 2.0 |             | -1.9 | 1.2 |             | -2.3  | 1.2 |                     | 1.2  | 0.0 |
| <b>QECBRZ</b>                       | <b>35.6</b>                                   | -0.8  | 0.3 | <b>24.4</b> | -0.7  | 0.9 | <b>56.4</b> | -0.6 | 1.3 | <b>45.7</b> | -1.0  | 0.1 | <b>79.1</b>         | -1.2 | 1.4 |
|                                     |   | -5.9  | 0.3 |             | -4.3  | 1.0 |             | -3.2 | 1.2 |             | -4.3  | 0.1 |                     | -4.8 | 1.1 |
| <b>6VACMK</b>                       | <b>41.0</b>                                   | -0.1  |     | <b>41.0</b> | 2.1   |     | <b>71.0</b> | 2.0  |     | <b>51.0</b> | 0.2   |     | <b>81.0</b>         | -0.7 |     |
|                                     |   | -0.5  | 0.0 |             | 12.3  | 0.0 |             | 11.4 | 0.0 |             | 1.0   | 0.0 |                     | -2.8 | 0.0 |
| <b>YKBCLZ</b>                       | <b>43.4</b>                                   | 0.3   | 0.0 | <b>32.9</b> | 0.7   | 0.0 | <b>64.9</b> | 0.9  | 0.0 | <b>46.2</b> | -0.9  | 0.0 | <b>78.4</b>         | -1.4 | 0.0 |
|                                     |   | 1.8   | 0.0 |             | 4.2   | 0.0 |             | 5.3  | 0.0 |             | -3.8  | 0.0 |                     | -5.5 | 0.0 |
| <b>T9EFX6</b>                       | <b>81.0</b>                                   | 5.4   |     | <b>24.0</b> | -0.8  |     | <b>67.0</b> | 1.3  |     | <b>50.0</b> | 0.0   |     | <b>86.0</b>         | 0.5  |     |
|                                     |   | 39.5  | 0.0 |             | -4.7  | 0.0 |             | 7.4  | 0.0 |             | 0.0   | 0.0 |                     | 2.2  | 0.0 |
| <b>BMDAYP</b>                       | <b>46.0</b>                                   | 0.6   |     | <b>28.0</b> | -0.1  |     | <b>62.0</b> | 0.4  |     | <b>50.0</b> | 0.0   |     | <b>86.0</b>         | 0.5  |     |
|                                     |   | 4.5   | 0.0 |             | -0.7  | 0.0 |             | 2.4  | 0.0 |             | 0.0   | 0.0 |                     | 2.2  | 0.0 |
| <b>GAPFPH</b>                       | <b>37.9</b>                                   | -0.5  |     | <b>23.9</b> | -0.8  |     | <b>55.9</b> | -0.7 |     | <b>47.8</b> | -0.5  |     | <b>83.8</b>         | 0.0  |     |
|                                     |   | -3.6  | 0.0 |             | -4.8  | 0.0 |             | -3.6 | 0.0 |             | -2.2  | 0.0 |                     | 0.0  | 0.0 |
| <b>UNPG82</b>                       | <b>41.6</b>                                   | 0.0   | 0.8 | <b>29.0</b> | 0.0   | 1.2 | <b>62.1</b> | 0.5  | 3.8 | <b>48.9</b> | -0.3  | 2.5 | <b>85.2</b>         | 0.4  | 3.1 |
|                                     |   | 0.0   | 0.9 |             | 0.3   | 1.4 |             | 2.6  | 3.6 |             | -1.1  | 2.3 |                     | 1.4  | 2.5 |
| <b>JBF2VE</b>                       | <b>40.3</b>                                   | -0.2  | 1.1 | <b>22.3</b> | -1.1  | 1.0 | <b>61.0</b> | 0.3  |     | <b>49.0</b> | -0.2  |     | <b>85.0</b>         | 0.3  |     |
|                                     |   | -1.2  | 1.2 |             | -6.4  | 1.2 |             | 1.4  | 0.0 |             | -1.0  | 0.0 |                     | 1.2  | 0.0 |
| <b>6B3QZT</b>                       | <b>64.2</b>                                   | 3.1   | 2.6 | <b>43.5</b> | 2.5   | 1.6 | <b>68.8</b> | 1.7  | 0.8 | <b>62.4</b> | 3.0   | 1.5 | <b>88.5</b>         | 1.2  | 0.5 |
|                                     |   | 22.7  | 2.8 |             | 14.8  | 1.9 |             | 9.3  | 0.8 |             | 12.4  | 1.3 |                     | 4.7  | 0.4 |
| <b>AM2DUK</b>                       | <b>44.7</b>                                   | 0.4   | 1.1 | <b>30.0</b> | 0.2   | 1.7 | <b>64.7</b> | 0.9  | 1.2 | <b>50.7</b> | 0.2   | 1.3 | <b>86.7</b>         | 0.7  | 1.5 |
|                                     |   | 3.1   | 1.2 |             | 1.3   | 2.0 |             | 5.1  | 1.2 |             | 0.7   | 1.2 |                     | 2.8  | 1.2 |
| <b>98UYZG</b>                       | <b>30.5</b>                                   | -1.5  | 1.9 | <b>15.5</b> | -2.2  | 0.6 | <b>50.5</b> | -1.6 | 0.7 | <b>39.0</b> | -2.6  | 1.6 | <b>76.0</b>         | -2.0 |     |
|                                     |   | -11.0 | 2.1 |             | -13.2 | 0.7 |             | -9.1 | 0.7 |             | -11.0 | 1.4 |                     | -7.8 | 0.0 |
| <b>RCXBZX</b>                       | <b>41.7</b>                                   | 0.0   | 1.1 | <b>28.3</b> | -0.1  | 2.0 | <b>63.7</b> | 0.7  | 1.2 | <b>50.0</b> | 0.0   | 1.1 | <b>82.7</b>         | -0.3 | 2.6 |
|                                     |   | 0.1   | 1.2 |             | -0.4  | 2.3 |             | 4.1  | 1.2 |             | 0.0   | 1.0 |                     | -1.2 | 2.1 |



## ALP Program - Participant Web Summary Report - Cycle 29

|                          | 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>HUC6ZA</b>            | <b>40.2</b> | -0.2    | 0.2     | <b>24.7</b> | -0.7    | 0.1     | <b>60.3</b> | 0.1     | 0.3     | <b>52.1</b> | 0.5     | 0.1     | <b>86.2</b> | 0.6     | 0.3     |
|                          |             | -1.3    | 0.2     |             | -4.0    | 0.1     |             | 0.8     | 0.3     |             | 2.1     | 0.1     |             | 2.4     | 0.2     |
| <b>YTJ7GT</b>            | <b>44.4</b> | 0.4     |         | <b>28.4</b> | 0.0     |         | <b>63.3</b> | 0.7     |         | <b>52.6</b> | 0.6     |         | <b>86.5</b> | 0.7     |         |
|                          |             | 2.9     | 0.0     |             | -0.3    | 0.0     |             | 3.7     | 0.0     |             | 2.6     | 0.0     |             | 2.7     | 0.0     |
| <b>YPJVKT</b>            | <b>40.0</b> | -0.2    |         | <b>26.0</b> | -0.5    |         | <b>57.3</b> | -0.4    | 1.2     | <b>48.7</b> | -0.3    | 1.3     | <b>82.0</b> | -0.5    |         |
|                          |             | -1.5    | 0.0     |             | -2.7    | 0.0     |             | -2.2    | 1.2     |             | -1.3    | 1.2     |             | -1.8    | 0.0     |
| <b>BHL3GF</b>            | <b>41.3</b> | 0.0     | 1.6     | <b>27.5</b> | -0.2    | 0.7     | <b>59.1</b> | -0.1    | 0.7     | <b>50.7</b> | 0.2     | 0.3     | <b>83.8</b> | 0.0     | 0.7     |
|                          |             | -0.2    | 1.7     |             | -1.2    | 0.8     |             | -0.4    | 0.6     |             | 0.7     | 0.3     |             | 0.0     | 0.5     |
| <b>4KCY3M</b>            | <b>38.0</b> | -0.5    |         | <b>24.0</b> | -0.8    |         | <b>58.0</b> | -0.3    |         | <b>46.0</b> | -1.0    |         | <b>82.0</b> | -0.5    |         |
|                          |             | -3.5    | 0.0     |             | -4.7    | 0.0     |             | -1.6    | 0.0     |             | -4.0    | 0.0     |             | -1.8    | 0.0     |
| <b>MZGWVZ</b>            | <b>80.0</b> | 5.3     |         | <b>70.0</b> | 7.0     |         | <b>60.0</b> | 0.1     |         | <b>50.0</b> | 0.0     |         | <b>40.0</b> | -11.0   |         |
|                          |             | 38.5    | 0.0     |             | 41.3    | 0.0     |             | 0.4     | 0.0     |             | 0.0     | 0.0     |             | -43.8   | 0.0     |
| <b>ZZZ3WM</b>            | <b>61.2</b> | 2.7     |         | <b>67.2</b> | 6.6     |         | <b>30.8</b> | -5.1    |         | <b>48.8</b> | -0.3    |         | <b>44.8</b> | -9.8    |         |
|                          |             | 19.7    | 0.0     |             | 38.5    | 0.0     |             | -28.8   | 0.0     |             | -1.2    | 0.0     |             | -39.0   | 0.0     |
| <b>DM76CB</b>            | <b>42.6</b> | 0.1     |         | <b>30.0</b> | 0.2     |         | <b>58.6</b> | -0.2    |         | <b>51.3</b> | 0.3     |         | <b>84.1</b> | 0.1     |         |
|                          |             | 1.1     | 0.0     |             | 1.3     | 0.0     |             | -1.0    | 0.0     |             | 1.3     | 0.0     |             | 0.3     | 0.0     |
| <b>PHEWWY</b>            | <b>46.0</b> | 0.6     |         | <b>35.0</b> | 1.1     |         | <b>64.0</b> | 0.8     |         | <b>54.0</b> | 1.0     |         | <b>87.0</b> | 0.8     |         |
|                          |             | 4.5     | 0.0     |             | 6.3     | 0.0     |             | 4.4     | 0.0     |             | 4.0     | 0.0     |             | 3.2     | 0.0     |
| <b>X3EMTR</b>            | <b>46.0</b> | 0.6     | 0.9     | <b>29.4</b> | 0.1     | 0.9     | <b>69.2</b> | 1.7     | 0.5     | <b>54.7</b> | 1.1     | 1.7     | <b>89.7</b> | 1.5     | 0.3     |
|                          |             | 4.5     | 0.9     |             | 0.7     | 1.1     |             | 9.6     | 0.5     |             | 4.7     | 1.6     |             | 5.8     | 0.2     |
| <b>XYFCWR</b>            | <b>26.0</b> | -2.1    |         | <b>15.4</b> | -2.3    | 0.0     | <b>50.9</b> | -1.5    | 0.0     | <b>38.4</b> | -2.8    | 0.0     | <b>74.1</b> | -2.4    | 0.0     |
|                          |             | -15.5   | 0.0     |             | -13.3   | 0.0     |             | -8.7    | 0.0     |             | -11.6   | 0.0     |             | -9.7    | 0.0     |
| <b>DYXQH7</b>            | <b>39.8</b> | -0.2    | 1.8     | <b>29.7</b> | 0.2     | 2.9     | <b>57.7</b> | -0.3    | 0.9     | <b>51.2</b> | 0.3     | 0.5     | <b>84.2</b> | 0.1     | 0.5     |
|                          |             | -1.7    | 2.0     |             | 1.0     | 3.3     |             | -1.8    | 0.9     |             | 1.2     | 0.5     |             | 0.3     | 0.4     |
| <b>Grand Median</b>      |             | 41.5    |         | 28.7        |         |         | 59.6        |         |         | 50.0        |         |         | 83.8        |         |         |
| <b>Median Abs Dev</b>    |             | 2.3     |         | 3.0         |         |         | 2.3         |         |         | 1.4         |         |         | 2.3         |         |         |
| <b>Avg Within Lab SD</b> |             | 1.1     |         | 1.2         |         |         | 1.0         |         |         | 0.9         |         |         | 0.8         |         |         |
| <b>Labs Included</b>     |             | 30      |         | 30          |         |         | 30          |         |         | 30          |         |         | 30          |         |         |
| <b>Labs Reporting</b>    |             | 30      |         | 30          |         |         | 30          |         |         | 30          |         |         | 30          |         |         |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 190) | in the Particle Size Analysis Property Groups |       |     |             |       |     |             |       |     |             |      |     | Data units: Percent |      |     |
|----------------------------------|---|-------|-----|-------------|-------|-----|-------------|-------|-----|-------------|------|-----|---------------------|------|-----|
|                                  | SRSSRS1601                                    |       |     | SRSSRS1602  |       |     | SRSSRS1603  |       |     | SRSSRS1604  |      |     | SRSSRS1605          |      |     |
| <b>YAA32W</b>                    | <b>31.7</b>                                   | 0.3   | 2.3 | <b>47.1</b> | 0.4   | 1.8 | <b>31.7</b> | 0.1   | 1.7 | <b>21.3</b> | 0.5  | 2.3 | <b>13.3</b>         | 0.6  | 2.5 |
|                                  |   | 1.7   | 2.6 |             | 3.2   | 1.9 |             | 0.7   | 1.4 |             | 2.8  | 2.5 |                     | 2.3  | 1.9 |
| <b>AAUKBK</b>                    | <b>37.0</b>                                   | 1.1   | 0.0 | <b>47.0</b> | 0.4   | 0.0 | <b>36.0</b> | 0.8   | 0.0 | <b>18.5</b> | 0.0  | 0.0 | <b>11.0</b>         | 0.0  | 0.0 |
|                                  |   | 7.0   | 0.9 |             | 3.1   | 0.0 |             | 5.0   | 0.7 |             | 0.0  | 0.5 |                     | 0.6  | 0.8 |
| <b>83L8FJ</b>                    | <b>33.0</b>                                   | 3.0   | 1.0 | <b>43.0</b> | -0.9  | 0.0 | <b>37.3</b> | 6.3   | 0.6 | <b>17.3</b> | -1.2 | 0.6 | <b>13.3</b>         | 2.3  | 0.6 |
|                                  |   | -0.5  | 1.8 |             | -0.6  | 0.9 |             | -0.2  | 1.1 |             | -0.8 | 2.4 |                     | -1.0 | 1.3 |
| <b>644GFL</b>                    | <b>27.0</b>                                   | -3.0  | 2.0 | <b>39.0</b> | -4.9  | 1.0 | <b>30.0</b> | -1.0  | 1.0 | <b>14.3</b> | -4.2 | 2.5 | <b>7.0</b>          | -4.0 | 1.0 |
|                                  |   | 0.1   | 0.6 |             | 0.2   | 1.9 |             | 0.7   | 0.5 |             | 0.6  | 0.4 |                     | 1.1  | 0.6 |
| <b>2GK3BP</b>                    | <b>30.8</b>                                   | 0.8   | 0.7 | <b>45.5</b> | 1.5   | 2.1 | <b>35.5</b> | 4.5   | 0.5 | <b>21.5</b> | 3.0  | 0.5 | <b>15.5</b>         | 4.5  | 0.5 |
|                                  |   | -1.0  | 0.8 |             | -0.6  | 0.4 |             | -0.3  | 1.0 |             | -0.2 | 1.0 |                     | -0.2 | 1.4 |
| <b>XWTMKR</b>                    | <b>23.5</b>                                   | -6.5  | 0.8 | <b>38.8</b> | -5.1  | 0.4 | <b>29.5</b> | -1.5  | 0.8 | <b>17.6</b> | -0.9 | 1.1 | <b>10.4</b>         | -0.6 | 1.1 |
|                                  |   | 0.6   | 0.0 |             | 0.5   | 1.4 |             | 0.8   | 1.1 |             | 1.0  | 0.5 |                     | 0.4  | 2.7 |
| <b>FPNYC9</b>                    | <b>34.0</b>                                   | 4.0   | 0.0 | <b>47.7</b> | 3.7   | 1.5 | <b>36.0</b> | 5.0   | 1.0 | <b>23.7</b> | 5.2  | 0.6 | <b>12.7</b>         | 1.7  | 2.1 |
|                                  |   | -0.4  | 0.5 |             | -0.7  | 1.1 |             | 0.4   | 1.3 |             | -0.4 | 1.1 |                     | -0.9 | 1.5 |
| <b>FKH3T9</b>                    | <b>27.3</b>                                   | -2.7  | 0.6 | <b>38.3</b> | -5.6  | 1.2 | <b>33.7</b> | 2.7   | 1.2 | <b>16.3</b> | -2.2 | 1.2 | <b>7.7</b>          | -3.3 | 1.2 |
|                                  |   | 0.5   | 0.3 |             | 0.4   | 0.8 |             | 0.2   | 1.1 |             | 0.1  | 0.2 |                     | 0.3  | 1.4 |
| <b>QECBRZ</b>                    | <b>33.6</b>                                   | 3.6   | 0.3 | <b>46.9</b> | 3.0   | 0.8 | <b>32.2</b> | 1.2   | 0.9 | <b>19.2</b> | 0.7  | 0.2 | <b>12.3</b>         | 1.3  | 1.1 |
|                                  |   | 1.8   | 0.0 |             | -0.2  | 0.0 |             | -1.2  | 0.0 |             | 0.7  | 0.0 |                     | 0.3  | 0.0 |
| <b>6VACMK</b>                    | <b>42.0</b>                                   | 12.0  | 0.0 | <b>42.0</b> | -1.9  | 0.0 | <b>24.0</b> | -7.0  | 0.0 | <b>22.0</b> | 3.5  | 0.0 | <b>12.0</b>         | 1.0  | 0.0 |
|                                  |   | -0.5  | 0.0 |             | -1.8  | 0.0 |             | -2.0  | 0.0 |             | -1.0 | 0.0 |                     | 1.1  | 0.0 |
| <b>YKBCLZ</b>                    | <b>26.6</b>                                   | -3.4  | 0.0 | <b>29.0</b> | -14.9 | 0.0 | <b>18.9</b> | -12.1 | 0.0 | <b>13.4</b> | -5.1 | 0.0 | <b>15.3</b>         | 4.3  | 0.0 |
|                                  |   | -3.6  | 0.0 |             | -1.0  | 0.0 |             | -3.7  | 0.0 |             | 0.7  | 0.0 |                     | -2.3 | 0.0 |
| <b>T9EFX6</b>                    | <b>6.0</b>                                    | -24.0 | 0.0 | <b>36.0</b> | -7.9  | 0.0 | <b>9.0</b>  | -22.0 | 0.0 | <b>22.0</b> | 3.5  | 0.0 | <b>2.0</b>          | -9.0 | 0.0 |
|                                  |   | -0.3  | 0.0 |             | 1.5   | 0.0 |             | 0.5   | 0.0 |             | 2.3  | 0.0 |                     | -0.8 | 0.0 |
| <b>BMDAYP</b>                    | <b>28.0</b>                                   | -2.0  | 0.0 | <b>56.0</b> | 12.1  | 0.0 | <b>34.0</b> | 3.0   | 0.0 | <b>30.0</b> | 11.5 | 0.0 | <b>8.0</b>          | -3.0 | 0.0 |
|                                  |   | 0.0   | 0.0 |             | 0.0   | 0.0 |             | 0.5   | 0.0 |             | -0.1 | 0.0 |                     | -0.2 | 0.0 |
| <b>GAPFPH</b>                    | <b>30.0</b>                                   | 0.0   | 0.0 | <b>43.9</b> | 0.0   | 0.0 | <b>33.9</b> | 2.9   | 0.0 | <b>18.0</b> | -0.5 | 0.0 | <b>10.1</b>         | -0.9 | 0.0 |
|                                  |   | -0.4  | 0.7 |             | -0.4  | 1.8 |             | -0.6  | 2.7 |             | -0.6 | 1.5 |                     | -0.5 | 2.0 |
| <b>UNPG82</b>                    | <b>27.1</b>                                   | -2.9  | 0.8 | <b>40.3</b> | -3.6  | 1.9 | <b>27.1</b> | -3.9  | 2.4 | <b>15.5</b> | -3.0 | 1.6 | <b>9.0</b>          | -2.0 | 1.6 |
|                                  |   | -0.1  | 1.0 |             | 0.5   | 1.1 |             | 0.0   | 0.0 |             | 0.0  | 1.1 |                     | 0.0  | 0.0 |
| <b>JBF2VE</b>                    | <b>29.7</b>                                   | -0.3  | 1.2 | <b>47.7</b> | 3.7   | 1.2 | <b>31.0</b> | 0.0   | 0.0 | <b>18.3</b> | -0.2 | 1.2 | <b>11.0</b>         | 0.0  | 0.0 |
|                                  |   | 0.0   | 2.2 |             | 0.4   | 1.5 |             | -0.5  | 1.4 |             | 0.4  | 2.0 |                     | -0.5 | 1.1 |
| <b>6B3QZT</b>                    | <b>30.2</b>                                   | 0.2   | 2.4 | <b>47.0</b> | 3.1   | 1.6 | <b>27.8</b> | -3.2  | 1.2 | <b>20.3</b> | 1.8  | 2.1 | <b>8.9</b>          | -2.1 | 0.9 |
|                                  |   | 0.3   | 1.8 |             | 0.3   | 1.9 |             | -0.1  | 1.3 |             | 0.6  | 1.1 |                     | 0.5  | 0.0 |
| <b>AM2DUK</b>                    | <b>32.0</b>                                   | 2.0   | 2.0 | <b>46.0</b> | 2.1   | 2.0 | <b>30.3</b> | -0.7  | 1.2 | <b>21.7</b> | 3.2  | 1.2 | <b>13.0</b>         | 2.0  | 0.0 |
|                                  |   | 0.0   | 1.3 |             | -0.1  | 0.0 |             | 0.7   | 0.8 |             | -0.2 | 2.0 |                     | -0.3 | 0.0 |
| <b>98UYZG</b>                    | <b>30.0</b>                                   | 0.0   | 1.4 | <b>43.0</b> | -0.9  | 0.0 | <b>35.5</b> | 4.5   | 0.7 | <b>17.5</b> | -1.0 | 2.1 | <b>10.0</b>         | -1.0 | 0.0 |
|                                  |   | -0.7  | 0.5 |             | -0.8  | 0.5 |             | -0.8  | 1.1 |             | -1.1 | 0.0 |                     | -0.5 | 0.0 |
| <b>RCXBZX</b>                    | <b>25.3</b>                                   | -4.7  | 0.6 | <b>37.3</b> | -6.6  | 0.6 | <b>26.0</b> | -5.0  | 1.0 | <b>13.0</b> | -5.5 | 0.0 | <b>9.0</b>          | -2.0 | 0.0 |



## ALP Program - Participant Web Summary Report - Cycle 29

|                          | 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>HUC6ZA</b>            | <b>34.8</b> | 0.7        | 0.2     | <b>48.9</b> | 0.6        | 0.1     | <b>33.0</b> | 0.3        | 0.5     | <b>19.3</b> | 0.2        | 0.3     | <b>10.2</b> | -0.2       | 0.3     |
|                          |             | 4.8        | 0.2     |             | 5.0        | 0.1     |             | 2.0        | 0.4     |             | 0.8        | 0.3     |             | -0.8       | 0.2     |
| <b>YTJ7GT</b>            | <b>32.8</b> | 0.4        |         | <b>50.5</b> | 0.8        |         | <b>34.1</b> | 0.5        |         | <b>23.0</b> | 0.9        |         | <b>11.4</b> | 0.1        |         |
|                          |             | 2.8        | 0.0     |             | 6.6        | 0.0     |             | 3.1        | 0.0     |             | 4.5        | 0.0     |             | 0.4        | 0.0     |
| <b>YPJVKT</b>            | <b>33.3</b> | 0.5        | 1.0     | <b>48.0</b> | 0.5        |         | <b>36.0</b> | 0.8        |         | <b>20.0</b> | 0.3        |         | <b>14.0</b> | 0.8        |         |
|                          |             | 3.3        | 1.2     |             | 4.1        | 0.0     |             | 5.0        | 0.0     |             | 1.5        | 0.0     |             | 3.0        | 0.0     |
| <b>BHL3GF</b>            | <b>34.0</b> | 0.6        | 2.4     | <b>47.1</b> | 0.4        | 1.9     | <b>35.1</b> | 0.7        | 2.0     | <b>21.9</b> | 0.7        | 1.0     | <b>12.9</b> | 0.5        | 1.5     |
|                          |             | 4.0        | 2.7     |             | 3.1        | 2.0     |             | 4.1        | 1.7     |             | 3.4        | 1.0     |             | 1.9        | 1.1     |
| <b>4KCY3M</b>            | <b>35.0</b> | 0.8        |         | <b>49.0</b> | 0.6        |         | <b>31.0</b> | 0.0        |         | <b>21.0</b> | 0.5        |         | <b>13.0</b> | 0.5        |         |
|                          |             | 5.0        | 0.0     |             | 5.1        | 0.0     |             | 0.0        | 0.0     |             | 2.5        | 0.0     |             | 2.0        | 0.0     |
| <b>MZGWVZ</b>            | <b>15.0</b> | -2.3       |         | <b>20.0</b> | -2.9       |         | <b>30.0</b> | -0.2       |         | <b>30.0</b> | 2.3        |         | <b>20.0</b> | 2.3        |         |
|                          |             | -15.0      | 0.0     |             | -23.9      | 0.0     |             | -1.0       | 0.0     |             | 11.5       | 0.0     |             | 9.0        | 0.0     |
| <b>ZZZ3WM</b>            | <b>10.0</b> | -3.0       |         | <b>8.0</b>  | -4.4       |         | <b>60.4</b> | 4.9        |         | <b>20.4</b> | 0.4        |         | <b>46.4</b> | 9.1        |         |
|                          |             | -20.0      | 0.0     |             | -35.9      | 0.0     |             | 29.4       | 0.0     |             | 1.9        | 0.0     |             | 35.4       | 0.0     |
| <b>DM76CB</b>            | <b>29.9</b> | 0.0        |         | <b>40.6</b> | -0.4       |         | <b>36.4</b> | 0.9        |         | <b>16.5</b> | -0.4       |         | <b>11.3</b> | 0.1        |         |
|                          |             | -0.1       | 0.0     |             | -3.3       | 0.0     |             | 5.4        | 0.0     |             | -2.0       | 0.0     |             | 0.3        | 0.0     |
| <b>PHEWWY</b>            | <b>29.0</b> | -0.2       |         | <b>39.0</b> | -0.6       |         | <b>31.0</b> | 0.0        |         | <b>13.0</b> | -1.1       |         | <b>13.0</b> | 0.5        |         |
|                          |             | -1.0       | 0.0     |             | -4.9       | 0.0     |             | 0.0        | 0.0     |             | -5.5       | 0.0     |             | 2.0        | 0.0     |
| <b>X3EMTR</b>            | <b>30.0</b> | 0.0        | 0.2     | <b>48.1</b> | 0.5        | 1.1     | <b>25.5</b> | -0.9       | 1.2     | <b>18.3</b> | 0.0        | 1.7     | <b>7.9</b>  | -0.8       | 0.2     |
|                          |             | 0.0        | 0.2     |             | 4.1        | 1.2     |             | -5.5       | 1.1     |             | -0.2       | 1.8     |             | -3.2       | 0.1     |
| <b>XYFCWR</b>            | <b>33.1</b> | 0.5        | 0.0     | <b>44.0</b> | 0.0        |         | <b>31.0</b> | 0.0        |         | <b>14.3</b> | -0.8       | 0.0     | <b>6.4</b>  | -1.2       | 0.0     |
|                          |             | 3.1        | 0.0     |             | 0.1        | 0.0     |             | 0.0        | 0.0     |             | -4.2       | 0.0     |             | -4.6       | 0.0     |
| <b>DYXQH7</b>            | <b>15.3</b> | -2.2       | 1.2     | <b>20.6</b> | -2.8       | 1.9     | <b>23.3</b> | -1.3       | 1.6     | <b>7.0</b>  | -2.3       | 0.8     | <b>4.1</b>  | -1.8       | 0.6     |
|                          |             | -14.7      | 1.4     |             | -23.3      | 2.0     |             | -7.7       | 1.4     |             | -11.5      | 0.9     |             | -6.9       | 0.5     |
| <b>Grand Median</b>      |             | 30.0       |         | 43.9        |            |         | 31.0        |            |         | 18.5        |            |         | 11.0        |            |         |
| <b>Median Abs Dev</b>    |             | 3.0        |         | 3.7         |            |         | 3.2         |            |         | 2.8         |            |         | 2.0         |            |         |
| <b>Avg Within Lab SD</b> |             | 1.1        |         | 1.1         |            |         | 0.9         |            |         | 1.1         |            |         | 0.8         |            |         |
| <b>Labs Included</b>     |             | 31         |         | 31          |            |         | 31          |            |         | 31          |            |         | 31          |            |         |
| <b>Labs Reporting</b>    |             | 31         |         | 31          |            |         | 31          |            |         | 31          |            |         | 31          |            |         |



## ALP Program - Participant Web Summary Report - Cycle 29

|                    |         |         |                    |         |         |                    |         |         |                    |         |         |                    |         |         |
|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|
| 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 191) |             |       |     | in the Particle Size Analysis Property Groups |       |     |             |      |     |             |       |     |             |      |     | Data units: Percent |  |
|---------------------------------|-------------|-------|-----|---|-------|-----|-------------|------|-----|-------------|-------|-----|-------------|------|-----|---------------------|--|
| SRSSRS1601                      |             |       |     | SRSSRS1602                                    |       |     | SRSSRS1603  |      |     | SRSSRS1604  |       |     | SRSSRS1605  |      |     |                     |  |
| <b>YAA32W</b>                   | <b>27.9</b> | 0.1   | 2.5 | <b>27.9</b>                                   | 0.1   | 0.7 | <b>10.8</b> | 0.6  | 2.1 | <b>31.3</b> | 0.0   | 1.8 | <b>5.4</b>  | 0.0  | 1.1 |                     |  |
|                                 |             | 1.1   | 1.9 |   | 0.8   | 0.7 |             | 3.0  | 1.4 |             | 0.0   | 1.3 |             | 0.0  | 0.7 |                     |  |
| <b>AAUKBK</b>                   | <b>20.0</b> | -0.8  | 0.0 | <b>24.0</b>                                   | -0.3  | 0.0 | <b>4.0</b>  | -0.7 | 0.0 | <b>30.0</b> | -0.2  | 0.0 | <b>2.0</b>  | -0.7 | 0.0 |                     |  |
|                                 |             | -6.8  | 1.0 |   | -3.1  | 0.7 |             | -3.8 | 0.4 |             | -1.3  | 0.4 |             | -3.4 | 0.0 |                     |  |
| <b>83L8FJ</b>                   | <b>25.2</b> | -0.2  | 0.8 | <b>27.2</b>                                   | 0.0   | 0.8 | <b>6.8</b>  | -0.2 | 0.3 | <b>30.8</b> | -0.1  | 0.3 | <b>3.0</b>  | -0.5 | 0.0 |                     |  |
|                                 |             | -1.7  | 0.8 |   | 0.1   | 0.8 |             | -1.0 | 0.3 |             | -0.5  | 0.3 |             | -2.4 | 0.0 |                     |  |
| <b>644GFL</b>                   | <b>29.0</b> | 0.3   | 0.0 | <b>31.0</b>                                   | 0.4   | 0.0 | <b>9.0</b>  | 0.2  | 0.0 | <b>34.0</b> | 0.4   | 1.4 | <b>7.0</b>  | 0.3  | 0.0 |                     |  |
|                                 |             | 2.2   | 0.8 |   | 3.9   | 0.0 |             | 1.2  | 0.0 |             | 2.7   | 1.0 |             | 1.6  | 0.0 |                     |  |
| <b>2GK3BP</b>                   | <b>24.1</b> | -0.3  | 0.6 | <b>24.1</b>                                   | -0.3  | 2.4 | <b>6.1</b>  | -0.3 | 0.9 | <b>28.1</b> | -0.5  | 0.9 | <b>4.1</b>  | -0.3 | 0.9 |                     |  |
|                                 |             | -2.7  | 1.1 |   | -3.0  | 2.6 |             | -1.7 | 0.6 |             | -3.2  | 0.6 |             | -1.3 | 0.6 |                     |  |
| <b>XWTMKR</b>                   | <b>29.1</b> | 0.3   | 0.8 | <b>31.2</b>                                   | 0.5   | 1.0 | <b>10.0</b> | 0.4  | 1.0 | <b>33.2</b> | 0.3   | 1.5 | <b>3.1</b>  | -0.5 | 1.8 |                     |  |
|                                 |             | 2.2   | 2.0 |   | 4.1   | 1.1 |             | 2.2  | 0.7 |             | 1.9   | 1.1 |             | -2.4 | 1.2 |                     |  |
| <b>FPNYC9</b>                   | <b>26.7</b> | 0.0   | 1.5 | <b>27.0</b>                                   | 0.0   | 0.9 | <b>6.7</b>  | -0.2 | 0.8 | <b>29.7</b> | -0.2  | 0.8 | <b>4.0</b>  | -0.3 | 1.5 |                     |  |
|                                 |             | -0.2  | 0.7 |   | -0.1  | 1.0 |             | -1.2 | 0.6 |             | -1.6  | 0.6 |             | -1.4 | 1.0 |                     |  |
| <b>FKH3T9</b>                   | <b>31.3</b> | 0.5   | 0.6 | <b>29.7</b>                                   | 0.3   | 1.1 | <b>7.7</b>  | 0.0  | 1.6 | <b>35.0</b> | 0.5   | 0.0 | <b>6.3</b>  | 0.2  | 1.8 |                     |  |
|                                 |             | 4.5   | 0.8 |   | 2.6   | 1.2 |             | -0.2 | 1.2 |             | 3.7   | 0.0 |             | 0.9  | 1.2 |                     |  |
| <b>QECBRZ</b>                   | <b>30.8</b> | 0.5   | 0.6 | <b>28.7</b>                                   | 0.2   | 0.2 | <b>11.4</b> | 0.7  | 1.2 | <b>35.1</b> | 0.5   | 0.4 | <b>8.7</b>  | 0.6  | 0.6 |                     |  |
|                                 |             | 4.0   | 0.6 |   | 1.6   | 0.2 |             | 3.6  | 0.9 |             | 3.8   | 0.3 |             | 3.3  | 0.4 |                     |  |
| <b>6VACMK</b>                   | <b>17.0</b> | -1.2  | 0.0 | <b>17.0</b>                                   | -1.1  | 0.0 | <b>5.0</b>  | -0.5 | 0.0 | <b>27.0</b> | -0.6  | 0.0 | <b>7.0</b>  | 0.3  | 0.0 |                     |  |
|                                 |             | -9.8  | 0.0 |   | -10.1 | 0.0 |             | -2.8 | 0.0 |             | -4.3  | 0.0 |             | 1.6  | 0.0 |                     |  |
| <b>YKBCLZ</b>                   | <b>30.0</b> | 0.4   | 0.0 | <b>38.1</b>                                   | 1.2   | 0.0 | <b>16.2</b> | 1.6  | 0.0 | <b>40.4</b> | 1.3   | 0.0 | <b>6.3</b>  | 0.2  | 0.0 |                     |  |
|                                 |             | 3.2   | 0.0 |   | 11.0  | 0.0 |             | 8.4  | 0.0 |             | 9.1   | 0.0 |             | 0.9  | 0.0 |                     |  |
| <b>T9EFX6</b>                   | <b>13.0</b> | -1.7  | 0.0 | <b>40.0</b>                                   | 1.5   | 0.0 | <b>24.0</b> | 3.0  | 0.0 | <b>28.0</b> | -0.5  | 0.0 | <b>12.0</b> | 1.3  | 0.0 |                     |  |
|                                 |             | -13.8 | 0.0 |   | 12.9  | 0.0 |             | 16.2 | 0.0 |             | -3.3  | 0.0 |             | 6.6  | 0.0 |                     |  |
| <b>BMDAYP</b>                   | <b>26.0</b> | -0.1  | 0.0 | <b>16.0</b>                                   | -1.3  | 0.0 | <b>4.0</b>  | -0.7 | 0.0 | <b>20.0</b> | -1.6  | 0.0 | <b>6.0</b>  | 0.1  | 0.0 |                     |  |
|                                 |             | -0.8  | 0.0 |   | -11.1 | 0.0 |             | -3.8 | 0.0 |             | -11.3 | 0.0 |             | 0.6  | 0.0 |                     |  |
| <b>GAPFPH</b>                   | <b>32.1</b> | 0.6   | 0.0 | <b>32.2</b>                                   | 0.6   | 0.0 | <b>10.2</b> | 0.4  | 0.0 | <b>34.2</b> | 0.4   | 0.0 | <b>6.1</b>  | 0.1  | 0.0 |                     |  |
|                                 |             | 5.2   | 1.3 |   | 5.1   | 1.1 |             | 2.3  | 1.8 |             | 2.9   | 2.0 |             | 0.7  | 1.9 |                     |  |
| <b>UNPG82</b>                   | <b>31.4</b> | 0.5   | 1.0 | <b>30.7</b>                                   | 0.4   | 1.2 | <b>10.7</b> | 0.5  | 1.3 | <b>35.6</b> | 0.6   | 1.4 | <b>5.7</b>  | 0.1  | 1.3 |                     |  |
|                                 |             | 4.5   | 0.3 |   | 3.6   | 0.3 |             | 2.9  | 0.0 |             | 4.3   | 1.6 |             | 0.3  | 1.3 |                     |  |
| <b>JBF2VE</b>                   | <b>30.0</b> | 0.4   | 0.0 | <b>30.0</b>                                   | 0.3   | 0.0 | <b>8.0</b>  | 0.0  | 0.0 | <b>32.7</b> | 0.2   | 1.2 | <b>4.0</b>  | -0.3 | 0.0 |                     |  |
|                                 |             | 3.2   | 0.5 |   | 2.9   | 0.3 |             | 0.2  | 0.8 |             | 1.4   | 1.2 |             | -1.4 | 0.8 |                     |  |
| <b>6B3QZT</b>                   | <b>5.6</b>  | -2.6  | 0.4 | <b>9.4</b>                                    | -2.0  | 0.3 | <b>3.3</b>  | -0.8 | 0.8 | <b>17.3</b> | -2.0  | 0.8 | <b>2.5</b>  | -0.6 | 0.5 |                     |  |
|                                 |             | -21.3 | 1.5 |   | -17.6 | 0.3 |             | -4.5 | 0.5 |             | -14.0 | 1.6 |             | -2.9 | 0.3 |                     |  |
| <b>AM2DUK</b>                   | <b>23.3</b> | -0.4  | 1.2 | <b>24.0</b>                                   | -0.3  | 0.0 | <b>4.7</b>  | -0.6 | 0.2 | <b>27.7</b> | -0.5  | 1.2 | <b>1.3</b>  | -0.8 | 0.2 |                     |  |
|                                 |             | -3.5  | 0.9 |   | -3.1  | 0.0 |             | -3.1 | 0.2 |             | -3.6  | 1.0 |             | -4.2 | 0.2 |                     |  |
| <b>98UYZG</b>                   | <b>39.5</b> | 1.5   | 0.7 | <b>42.0</b>                                   | 1.7   | 0.0 | <b>14.0</b> | 1.1  | 0.0 | <b>43.5</b> | 1.7   | 1.0 | <b>14.0</b> | 1.7  | 0.0 |                     |  |
|                                 |             | 12.7  | 2.0 |   | 14.9  | 0.0 |             | 6.2  | 0.0 |             | 12.2  | 0.7 |             | 8.6  | 0.0 |                     |  |
| <b>RCXBZX</b>                   | <b>32.7</b> | 0.7   | 2.1 | <b>33.7</b>                                   | 0.7   | 2.1 | <b>10.0</b> | 0.4  | 1.4 | <b>36.7</b> | 0.8   | 2.2 | <b>7.7</b>  | 0.4  | 3.5 |                     |  |
|                                 |             | 5.8   | 1.5 |   | 6.6   | 2.3 |             | 2.2  | 1.0 |             | 5.4   | 1.5 |             | 2.3  | 2.3 |                     |  |



## ALP Program - Participant Web Summary Report - Cycle 29

|                          | 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>HUC6ZA</b>            | <b>25.0</b> | -0.2       | 0.3     | <b>26.3</b> | -0.1       | 0.1     | <b>6.7</b>  | -0.2       | 0.4     | <b>28.6</b> | -0.4       | 0.5     | <b>3.6</b>  | -0.4       | 0.6     |
| <b>YTJ7GT</b>            | <b>22.8</b> | -1.8       | 0.2     | <b>21.2</b> | -0.8       | 0.1     | <b>2.6</b>  | -1.2       | 0.3     | <b>24.4</b> | -2.7       | 0.4     | <b>2.1</b>  | -1.9       | 0.4     |
| <b>YPJVKT</b>            | <b>26.7</b> | -0.5       | 1.5     | <b>26.0</b> | -0.7       | 0.0     | <b>6.7</b>  | -1.0       | 1.6     | <b>31.3</b> | -1.0       | 1.6     | <b>4.0</b>  | -0.7       | 0.0     |
| <b>BHL3GF</b>            | <b>24.7</b> | -4.0       | 1.3     | <b>25.4</b> | -5.9       | 2.5     | <b>5.7</b>  | -0.2       | 2.4     | <b>27.4</b> | -6.9       | 1.0     | <b>3.3</b>  | -3.3       | 1.4     |
| <b>4KCY3M</b>            | <b>27.0</b> | 0.0        | 1.0     | <b>27.0</b> | -0.1       | 2.8     | <b>11.0</b> | -1.2       | 1.7     | <b>33.0</b> | 0.0        | 0.7     | <b>5.0</b>  | -0.3       | 0.9     |
| <b>MZGWVZ</b>            | <b>5.0</b>  | 0.2        | 0.0     | <b>10.0</b> | 0.0        | 0.0     | <b>10.0</b> | 0.6        | 0.0     | <b>20.0</b> | 1.7        | 0.0     | <b>30.0</b> | -0.4       | 0.0     |
| <b>ZZZ3WM</b>            | <b>28.8</b> | -2.6       | 0.0     | <b>24.8</b> | -1.9       | 0.0     | <b>8.8</b>  | 0.4        | 0.0     | <b>30.8</b> | -1.6       | 0.0     | <b>6.8</b>  | 4.9        | 0.0     |
| <b>DM76CB</b>            | <b>27.5</b> | 0.2        | 0.0     | <b>29.4</b> | -0.3       | 0.0     | <b>5.0</b>  | 0.2        | 0.0     | <b>32.3</b> | -0.1       | 0.0     | <b>4.6</b>  | 0.3        | 0.0     |
| <b>PHEWWY</b>            | <b>25.0</b> | 2.0        | 0.0     | <b>26.0</b> | -2.3       | 0.0     | <b>5.0</b>  | 1.0        | 0.0     | <b>33.0</b> | -0.5       | 0.0     |             | -0.2       | 0.0     |
| <b>X3EMTR</b>            | <b>24.0</b> | 0.1        | 0.0     | <b>22.5</b> | 0.3        | 0.4     | <b>5.3</b>  | -0.5       | 1.9     | <b>27.0</b> | 0.1        | 0.5     | <b>2.5</b>  | -0.8       | 0.3     |
| <b>XYFCWR</b>            | <b>40.9</b> | -0.2       | 0.0     | <b>40.6</b> | -1.1       | 0.0     | <b>18.1</b> | -0.5       | 1.4     | <b>47.3</b> | 1.7        | 0.0     | <b>19.5</b> | -0.6       | 0.2     |
| <b>DYXQH7</b>            | <b>44.8</b> | -0.3       | 0.0     | <b>49.7</b> | -0.5       | 0.5     | <b>18.9</b> | -2.5       | 0.0     | <b>41.8</b> | -4.3       | 0.0     | <b>11.7</b> | -2.9       | 0.8     |
|                          |             | 1.7        | 0.0     |             | 1.5        | 0.0     |             | 1.9        | 0.0     |             | 2.3        | 0.0     |             | 2.8        | 0.0     |
|                          |             | 14.1       | 0.0     |             | 13.5       | 0.0     |             | 10.3       | 0.0     |             | 16.0       | 0.0     |             | 14.1       | 0.0     |
|                          |             | 2.2        | 2.1     |             | 2.6        | 3.1     |             | 2.1        | 1.7     |             | 1.5        | 1.6     |             | 1.2        | 0.8     |
|                          |             | 17.9       | 1.6     |             | 22.7       | 3.4     |             | 11.1       | 1.2     |             | 10.5       | 1.1     |             | 6.3        | 0.5     |
| <b>Grand Median</b>      |             | 26.8       |         | 27.1        |            | 7.83    |             | 31.3       |         | 5.42        |            |         |             |            |         |
| <b>Median Abs Dev</b>    |             | 3.2        |         | 3.4         |            | 2.83    |             | 3.5        |         | 1.85        |            |         |             |            |         |
| <b>Avg Within Lab SD</b> |             | 0.8        |         | 1.1         |            | 0.70    |             | 0.7        |         | 0.65        |            |         |             |            |         |
| <b>Labs Included</b>     |             | 32         |         | 32          |            | 32      |             | 32         |         | 31          |            |         |             |            |         |
| <b>Labs Reporting</b>    |             | 32         |         | 32          |            | 32      |             | 32         |         | 31          |            |         |             |            |         |





## ALP Program - Participant Web Summary Report - Cycle 29

| 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>Field Moisture Capacity (SubTestCode 192)</b> | <b>in the Moisture Property Groups</b> |     |             |     |             |     |             |     |            |     | <b>Data units: %</b> |
|--|--|-----|-------------|-----|-------------|-----|-------------|-----|------------|-----|----------------------|
|  | SRSSRS1601                             |     | SRSSRS1602  |     | SRSSRS1603  |     | SRSSRS1604  |     | SRSSRS1605 |     |                      |
| <b>LZMPAC</b>                                    | <b>31.1</b>                            | 0.0 | <b>31.7</b> | 0.0 | <b>24.0</b> | 0.0 | <b>25.8</b> | 1.0 | <b>7.3</b> | 0.3 | 0.0                  |
| <b>Grand Median</b>                              | 31.1                                   |     | 31.7        |     | 24.0        |     | 25.8        |     | 7.34       |     |                      |
| <b>Median Abs Dev</b>                            | 0.0                                    |     | 0.0         |     | 0.0         |     | 0.3         |     | 0.00       |     |                      |
| <b>Avg Within Lab SD</b>                         | 1                                      |     | 1           |     | 1           |     | 1           |     | 1          |     |                      |
| <b>Labs Included</b>                             | 1                                      |     | 1           |     | 1           |     | 1           |     | 1          |     |                      |
| <b>Labs Reporting</b>                            | 1                                      |     | 1           |     | 1           |     | 1           |     | 1          |     |                      |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 |         |         |

|                          | Permanent Wilting Point (SubTestCode 193) in the Moisture Property Groups |     |             |     |            |     |             |     |            |     | Data units: % |
|--------------------------|---|-----|-------------|-----|------------|-----|-------------|-----|------------|-----|---------------|
|                          | SRSSRS1601  |     | SRSSRS1602  |     | SRSSRS1603 |     | SRSSRS1604  |     | SRSSRS1605 |     |               |
| <b>LZMPAC</b>            | <b>11.8</b>   | 0.0 | <b>11.8</b> | 0.0 | <b>6.9</b> | 0.0 | <b>11.6</b> | 0.0 | <b>1.1</b> | 1.0 | 0.0           |
| <b>Grand Median</b>      | 11.8  |     | 11.8        |     | 6.92       |     | 11.6        |     | 1.08       |     |               |
| <b>Median Abs Dev</b>    | 0.0   |     | 0.0         |     | 0.00       |     | 0.0         |     | 0.01       |     |               |
| <b>Avg Within Lab SD</b> | 0.0   |     | 0.0         |     | 0.00       |     | 0.0         |     | 0.01       |     |               |
| <b>Labs Included</b>     | 1   |     | 1           |     | 1          |     | 1           |     | 1          |     |               |
| <b>Labs Reporting</b>    | 1   |     | 1           |     | 1          |     | 1           |     | 1          |     |               |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 |         |         |

| Available Water Content (SubTestCode 194) | in the Moisture Property Groups |             |             |             |            |     |     |     | Data units: % |     |
|---|---------------------------------|-------------|-------------|-------------|------------|-----|-----|-----|---------------|-----|
| SRSSRS1601                                | SRSSRS1602                      | SRSSRS1603  | SRSSRS1604  | SRSSRS1605  |            |     |     |     |               |     |
| <b>LZMPAC</b>                             | <b>19.3</b>                     | <b>19.9</b> | <b>17.1</b> | <b>14.4</b> | <b>6.3</b> | 0.0 | 0.0 | 0.0 | 0.0           | 0.0 |
| <b>Grand Median</b>                       | 19.3                            | 19.9        | 17.1        | 14.4        | 6.26       |     |     |     |               |     |
| <b>Median Abs Dev</b>                     |                                 |             |             |             |            |     |     |     |               |     |
| <b>Avg Within Lab SD</b>                  | 0.0                             | 0.0         | 0.0         | 0.0         | 0.00       |     |     |     |               |     |
| <b>Labs Included</b>                      | 1                               | 1           | 1           | 1           | 1          |     |     |     |               |     |
| <b>Labs Reporting</b>                     | 1                               | 1           | 1           | 1           | 1          |     |     |     |               |     |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 195) in the Other 2 Property Groups |              |       |              |       |                |         |              |       |              | Data units: mg/kg |
|--|--------------|-------|--------------|-------|----------------|---------|--------------|-------|--------------|-------------------|
|  | SRSSRS1601   |       | SRSSRS1602   |       | SRSSRS1603     |         | SRSSRS1604   |       | SRSSRS1605   |                   |
| <b>GZ63WD</b>  | <b>523.0</b> | 1.3   | <b>730.3</b> | 1.4   | <b>1,419.3</b> | 1.2     | <b>244.7</b> | 0.9   | <b>219.3</b> | 1.2               |
|  |              | 25.5  |              | 51.1  |                | 30.0    |              | 3.5   |              | 10.7              |
| <b>DYXQH7</b>  | <b>416.3</b> | 0.5   | <b>515.6</b> | 0.3   | <b>1,021.3</b> | 0.8     | <b>160.9</b> | 1.1   | <b>130.0</b> | 0.8               |
|  |              | 10.7  |              | 9.6   |                | 21.0    |              | 3.9   |              | 7.0               |
| <b>Grand Median</b>  |              | 469.7 |              | 623.0 |                | 1,220.3 |              | 202.8 |              | 174.7             |
| <b>Median Abs Dev</b>  |              |       |              |       |                |         |              |       |              |                   |
| <b>Avg Within Lab SD</b>   |              | 19.6  |              | 36.7  |                | 25.9    |              | 3.7   |              | 9.0               |
| <b>Labs Included</b>   |              | 2     |              | 2     |                | 2       |              | 2     |              | 2                 |
| <b>Labs Reporting</b>  |              | 2     |              | 2     |                | 2       |              | 2     |              | 2                 |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 196) in the Other 2 Property Groups |              |       |      |              |       |      |             |       |     |             |       |     |            |      | Data units: mg/kg |
|--|--------------|-------|------|--------------|-------|------|-------------|-------|-----|-------------|-------|-----|------------|------|-------------------|
|  | SRSSRS1601   |       |      | SRSSRS1602   |       |      | SRSSRS1603  |       |     | SRSSRS1604  |       |     | SRSSRS1605 |      |                   |
| <b>AAUKBK</b>  | <b>2.5</b>   | -0.4  | 0.0  | <b>3.4</b>   | -0.6  | 0.0  | <b>3.1</b>  | -0.6  | 0.0 | <b>2.4</b>  | -1.2  | 0.0 | <b>0.8</b> | -0.7 | 0.2               |
|  |              | -19.2 | 0.1  |              | -33.0 | 0.1  |             | -15.3 | 0.1 |             | -18.2 | 0.0 |            | -1.5 | 0.1               |
| <b>83L8FJ</b>  | <b>21.7</b>  | 0.0   | 0.1  | <b>28.9</b>  | -0.1  | 0.1  | <b>18.3</b> | 0.0   | 0.1 | <b>20.6</b> | 0.0   | 0.2 | <b>2.5</b> | 0.1  | 1.2               |
|  |              | 0.0   | 0.6  |              | -7.5  | 0.4  |             | 0.0   | 0.4 |             | 0.0   | 1.0 |            | 0.2  | 0.3               |
| <b>K8VMR6</b>  | <b>104.3</b> | 1.7   | 0.1  | <b>121.3</b> | 1.6   | 0.2  | <b>29.3</b> | 0.4   | 0.2 | <b>39.3</b> | 1.2   | 0.1 | <b>9.3</b> | 3.3  | 2.1               |
|  |              | 82.7  | 1.2  |              | 84.9  | 1.5  |             | 11.0  | 0.6 |             | 18.7  | 0.6 |            | 7.0  | 0.6               |
| <b>6VACMK</b>  | <b>7.8</b>   | -0.3  |      | <b>36.4</b>  | 0.0   |      | <b>12.8</b> | -0.2  |     | <b>10.7</b> | -0.6  |     | <b>2.3</b> | 0.0  |                   |
|  |              | -13.9 | 0.0  |              | 0.0   | 0.0  |             | -5.5  | 0.0 |             | -10.0 | 0.0 |            | 0.0  | 0.0               |
| <b>XM44Y7</b>  | <b>77.9</b>  | 1.2   | 1.8  | <b>119.7</b> | 1.6   | 1.1  | <b>81.1</b> | 2.5   | 1.6 | <b>25.5</b> | 0.3   | 1.6 | <b>3.3</b> | 0.5  | 1.1               |
|  |              | 56.2  | 18.0 |              | 83.3  | 7.6  |             | 62.7  | 5.9 |             | 4.9   | 6.6 |            | 1.0  | 0.3               |
| <b>LVRZT6</b>  | <b>56.7</b>  | 0.7   | 1.9  | <b>61.7</b>  | 0.5   | 2.3  | <b>39.3</b> | 0.8   | 0.3 | <b>39.3</b> | 1.2   | 0.7 | <b>2.0</b> | -0.1 |                   |
|  |              | 35.0  | 19.3 |              | 25.3  | 15.4 |             | 21.0  | 1.2 |             | 18.7  | 3.1 |            | -0.3 | 0.0               |
| <b>VNJNRP</b>  | <b>5.5</b>   | -0.3  | 0.2  | <b>26.7</b>  | -0.2  | 0.8  | <b>13.5</b> | -0.2  | 2.1 | <b>18.2</b> | -0.2  | 2.0 | <b>2.3</b> | 0.0  | 0.0               |
|  |              | -16.2 | 2.3  |              | -9.8  | 5.2  |             | -4.8  | 8.1 |             | -2.4  | 8.5 |            | 0.0  | 0.0               |
| <b>Grand Median</b>  |              | 21.7  |      | 36.4         |       |      | 18.3        |       |     | 20.6        |       |     | 2.30       |      |                   |
| <b>Median Abs Dev</b>  |              | 19.2  |      | 25.3         |       |      | 11.0        |       |     | 10.0        |       |     | 0.30       |      |                   |
| <b>Avg Within Lab SD</b>   |              | 10.0  |      | 6.8          |       |      | 3.8         |       |     | 4.3         |       |     | 0.28       |      |                   |
| <b>Labs Included</b>   |              | 7     |      | 7            |       |      | 7           |       |     | 7           |       |     | 7          |      |                   |
| <b>Labs Reporting</b>  |              | 7     |      | 7            |       |      | 7           |       |     | 7           |       |     | 7          |      |                   |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 197) | in the Other 2 Property Groups |      |             |      |             |      |             |      |             |      | Data units: mg/kg |
|--|--------------------------------|------|-------------|------|-------------|------|-------------|------|-------------|------|-------------------|
|  | SRSSRS1601                     |      | SRSSRS1602  |      | SRSSRS1603  |      | SRSSRS1604  |      | SRSSRS1605  |      |                   |
| <b>AAUKBK</b>  | <b>32.7</b>                    | 1.0  | <b>56.3</b> | 1.0  | <b>45.7</b> | 1.0  | <b>33.0</b> | 1.0  | <b>13.7</b> | 1.0  | 1.0               |
|  |                                | 1.5  |             | 3.5  |             | 2.1  |             | 1.0  |             | 1.0  | 0.6               |
| <b>Grand Median</b>                                      |                                | 32.7 |             | 56.3 |             | 45.7 |             | 33.0 |             | 13.7 |                   |
| <b>Median Abs Dev</b>                                    |                                |      |             |      |             |      |             |      |             |      |                   |
| <b>Avg Within Lab SD</b>                                 |                                | 1.5  |             | 3.5  |             | 2.1  |             | 1.0  |             | 0.6  |                   |
| <b>Labs Included</b>                                     |                                | 1    |             | 1    |             | 1    |             | 1    |             | 1    |                   |
| <b>Labs Reporting</b>                                    |                                | 1    |             | 1    |             | 1    |             | 1    |             | 1    |                   |



## ALP Program - Participant Web Summary Report - Cycle 29

|                    |         |         |                    |         |         |                    |         |         |                    |         |         |                    |         |         |
|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|
| 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 198) | in the Other 2 Property Groups |            |             |            |              |      |              |      |             |      | Data units: mg/kg |
|---|--------------------------------|------------|-------------|------------|--------------|------|--------------|------|-------------|------|-------------------|
|   | SRSSRS1601                     | SRSSRS1602 | SRSSRS1603  | SRSSRS1604 | SRSSRS1605   |      |              |      |             |      |                   |
| <b>AAUKBK</b>                                 | <b>2.37</b>                    | 0.14       | <b>7.00</b> | 0.22       | <b>9.27</b>  | 0.42 | <b>33.23</b> | 0.04 | <b>4.50</b> | 0.56 |                   |
|   |                                | 0.06       |             | 0.10       |              | 0.15 |              | 0.06 |             | 0.10 |                   |
| <b>9JP2MJ</b>                                 | <b>2.74</b>                    | 1.73       | <b>7.54</b> | 1.17       | <b>8.87</b>  | 0.56 | <b>40.22</b> | 1.69 | <b>4.32</b> | 1.64 |                   |
|   |                                | 0.72       |             | 0.54       |              | 0.21 |              | 2.72 |             | 0.30 |                   |
| <b>C8H8XB</b>                                 | <b>5.00</b>                    | 0.00       | <b>9.67</b> | 1.26       | <b>11.67</b> | 1.58 | <b>47.67</b> | 0.36 | <b>6.00</b> | 0.00 |                   |
|   |                                |            |             | 0.58       |              | 0.58 |              | 0.58 |             |      |                   |
| <b>Grand Median</b>                           | 2.74                           |            | 7.54        |            | 9.27         |      | 40.2         |      | 4.50        |      |                   |
| <b>Median Abs Dev</b>                         |                                |            |             |            |              |      |              |      |             |      |                   |
| <b>Avg Within Lab SD</b>                      | 0.42                           |            | 0.46        |            | 0.36         |      | 1.6          |      | 0.18        |      |                   |
| <b>Labs Included</b>                          | 3                              |            | 3           |            | 3            |      | 3            |      | 3           |      |                   |
| <b>Labs Reporting</b>                         | 3                              |            | 3           |            | 3            |      | 3            |      | 3           |      |                   |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 Al (SubTestCode 199) | in the Other 2 Property Groups |      |             |      |              |      |             |      |              | Data units: mg/kg |
|--|--------------------------------|------|-------------|------|--------------|------|-------------|------|--------------|-------------------|
|  | SRSSRS1601                     |      | SRSSRS1602  |      | SRSSRS1603   |      | SRSSRS1604  |      | SRSSRS1605   |                   |
| <b>AAUKBK</b>                                  | <b>0.10</b>                    | 0.00 | <b>0.47</b> | 0.34 | <b>44.30</b> | 0.96 | <b>4.33</b> | 0.80 | <b>26.47</b> | 0.04              |
|  |                                | 0.00 |             | 0.06 |              | 0.96 |             | 0.25 |              | 0.12              |
| <b>C8H8XB</b>                                  | <b>0.51</b>                    | 1.41 | <b>2.17</b> | 1.37 | <b>53.67</b> | 1.04 | <b>4.50</b> | 1.17 | <b>38.80</b> | 1.41              |
|  |                                | 0.46 |             | 0.24 |              | 1.05 |             | 0.37 |              | 3.76              |
| <b>Grand Median</b>                            |                                | 0.31 |             | 1.32 |              | 49.0 |             | 4.42 |              | 32.6              |
| <b>Median Abs Dev</b>                          |                                |      |             |      |              |      |             |      |              |                   |
| <b>Avg Within Lab SD</b>                       |                                | 0.33 |             | 0.17 |              | 1.0  |             | 0.32 |              | 2.7               |
| <b>Labs Included</b>                           |                                | 2    |             | 2    |              | 2    |             | 2    |              | 2                 |
| <b>Labs Reporting</b>                          |                                | 2    |             | 2    |              | 2    |             | 2    |              | 2                 |





## ALP Program - Participant Web Summary Report - Cycle 29

| 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 |     |
|----------------------------------|-------------|------|-----|-------------|------|-----|-------------|------|-----|-------------|---------------------|-----|
|                                  | SRBSRB1601  |      |     | SRBSRB1602  |      |     | SRBSRB1603  |      |     |             |                     |     |
| <b>YAA32W</b>                    | <b>93.9</b> | 0.1  | 0.1 | <b>94.0</b> | 0.0  | 0.1 | <b>93.8</b> | 0.0  | 0.0 | <b>93.6</b> | -0.1                | 0.1 |
|                                  |             | 0.2  | 0.0 |             | 0.0  | 0.0 |             | 0.0  | 0.0 |             | -0.2                | 0.0 |
| <b>AAUKBK</b>                    | <b>93.7</b> | 0.0  | 0.0 | <b>93.6</b> | -0.2 | 0.0 | <b>93.1</b> | -0.4 | 0.0 | <b>93.4</b> | -0.2                | 0.0 |
|                                  |             | 0.0  | 0.0 |             | -0.4 | 0.0 |             | -0.7 | 0.0 |             | -0.4                | 0.0 |
| <b>83L8FJ</b>                    | <b>93.3</b> | -0.4 | 1.0 | <b>93.8</b> | -0.1 | 0.9 | <b>93.2</b> | -0.3 | 1.1 | <b>91.5</b> | -1.5                | 0.2 |
|                                  |             | -0.5 | 0.1 |             | -0.2 | 0.2 |             | -0.5 | 0.3 |             | -2.2                | 0.1 |
| <b>BFZE6F</b>                    | <b>93.3</b> | -0.4 | 0.1 | <b>93.3</b> | -0.4 | 0.1 | <b>93.1</b> | -0.4 | 0.1 | <b>93.4</b> | -0.2                | 0.1 |
|                                  |             | -0.4 | 0.0 |             | -0.7 | 0.0 |             | -0.7 | 0.0 |             | -0.4                | 0.0 |
| <b>33JQFQ</b>                    | <b>93.4</b> | -0.3 | 0.1 | <b>93.9</b> | -0.1 | 0.3 | <b>93.8</b> | 0.0  | 0.2 | <b>94.8</b> | 0.7                 | 0.2 |
|                                  |             | -0.3 | 0.0 |             | -0.1 | 0.1 |             | 0.1  | 0.1 |             | 1.1                 | 0.1 |
| <b>XNBEWV</b>                    | <b>93.5</b> | -0.2 | 0.4 | <b>93.8</b> | -0.1 | 0.3 | <b>93.5</b> | -0.2 | 0.4 | <b>93.3</b> | -0.3                | 0.2 |
|                                  |             | -0.3 | 0.1 |             | -0.2 | 0.1 |             | -0.3 | 0.1 |             | -0.4                | 0.1 |
| <b>F92H9C</b>                    | <b>92.8</b> | -0.7 | 0.2 | <b>93.2</b> | -0.4 | 0.1 | <b>93.4</b> | -0.2 | 0.0 | <b>93.7</b> | 0.0                 | 0.1 |
|                                  |             | -0.9 | 0.0 |             | -0.8 | 0.0 |             | -0.4 | 0.0 |             | 0.0                 | 0.0 |
| <b>J42726</b>                    | <b>94.5</b> | 0.6  | 1.8 | <b>94.1</b> | 0.1  | 0.9 | <b>94.3</b> | 0.3  | 1.4 | <b>94.2</b> | 0.3                 | 0.5 |
|                                  |             | 0.7  | 0.3 |             | 0.1  | 0.2 |             | 0.5  | 0.4 |             | 0.4                 | 0.2 |
| <b>GAPFPH</b>                    | <b>94.9</b> | 1.0  | 0.9 | <b>94.7</b> | 0.4  | 0.3 | <b>95.1</b> | 0.8  | 1.0 | <b>95.7</b> | 1.3                 | 1.8 |
|                                  |             | 1.2  | 0.1 |             | 0.7  | 0.1 |             | 1.3  | 0.3 |             | 1.9                 | 0.5 |
| <b>T84DB7</b>                    | <b>93.7</b> | 0.0  | 0.7 | <b>86.6</b> | -4.3 | 0.2 | <b>87.9</b> | -3.4 | 0.1 | <b>93.5</b> | -0.2                | 0.1 |
|                                  |             | 0.0  | 0.1 |             | -7.3 | 0.0 |             | -5.9 | 0.0 |             | -0.2                | 0.0 |
| <b>8CMGZN</b>                    | <b>93.3</b> | -0.3 | 2.0 | <b>94.5</b> | 0.3  | 0.8 | <b>94.1</b> | 0.2  | 0.2 | <b>93.7</b> | 0.0                 | 0.2 |
|                                  |             | -0.4 | 0.3 |             | 0.5  | 0.2 |             | 0.3  | 0.1 |             | 0.0                 | 0.1 |
| <b>XHNEVW</b>                    | <b>93.7</b> | 0.0  | 0.1 | <b>93.8</b> | -0.1 | 0.0 | <b>93.6</b> | -0.1 | 0.4 | <b>94.0</b> | 0.2                 | 0.4 |
|                                  |             | 0.0  | 0.0 |             | -0.2 | 0.0 |             | -0.1 | 0.1 |             | 0.2                 | 0.1 |
| <b>WYZRCU</b>                    | <b>94.5</b> | 0.6  |     | <b>94.2</b> | 0.1  |     | <b>94.1</b> | 0.2  |     | <b>95.0</b> | 0.8                 | 0.4 |
|                                  |             | 0.8  | 0.0 |             | 0.2  | 0.0 |             | 0.3  | 0.0 |             | 1.2                 | 0.0 |
|                                  | <b>94.5</b> | 0.6  |     | <b>94.2</b> | 0.1  |     | <b>94.1</b> | 0.2  |     | <b>95.0</b> | 0.8                 | 0.4 |
|                                  |             | 0.8  | 0.0 |             | 0.2  | 0.0 |             | 0.3  | 0.0 |             | 1.2                 | 0.0 |
| <b>MZGWVZ</b>                    | <b>97.4</b> | 3.0  | 2.0 | <b>97.9</b> | 2.3  | 3.8 | <b>98.4</b> | 2.6  | 3.5 | <b>97.4</b> | 2.4                 | 3.6 |
|                                  |             | 3.6  | 0.3 |             | 4.0  | 0.7 |             | 4.6  | 1.0 |             | 3.7                 | 1.1 |
| <b>ZZZ3WM</b>                    | <b>94.3</b> | 0.5  | 1.9 | <b>94.2</b> | 0.2  | 0.5 | <b>93.7</b> | 0.0  | 0.2 | <b>93.6</b> | -0.1                | 0.3 |
|                                  |             | 0.5  | 0.3 |             | 0.3  | 0.1 |             | -0.1 | 0.1 |             | -0.2                | 0.1 |
| <b>TRP93T</b>                    | <b>97.0</b> | 2.7  | 0.0 | <b>97.8</b> | 2.2  | 0.0 | <b>97.7</b> | 2.3  | 0.0 | <b>97.4</b> | 2.4                 | 0.0 |
|                                  |             | 3.3  | 0.0 |             | 3.8  | 0.0 |             | 3.9  | 0.0 |             | 3.6                 | 0.0 |
| <b>Grand Median</b>              |             | 93.7 |     | 94.0        |      |     | 93.8        |      |     | 93.7        |                     |     |
| <b>Median Abs Dev</b>            |             | 0.5  |     | 0.3         |      |     | 0.4         |      |     | 0.4         |                     |     |
| <b>Avg Within Lab SD</b>         |             | 0.1  |     | 0.2         |      |     | 0.3         |      |     | 0.3         |                     |     |
| <b>Labs Included</b>             |             | 17   |     | 17          |      |     | 17          |      |     | 17          |                     |     |
| <b>Labs Reporting</b>            |             | 17   |     | 17          |      |     | 17          |      |     | 17          |                     |     |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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) <span style="float: right;">Data units: mg/kg</span> |                |         |       |              |        |      |              |        |       |                 |          |         |
|---|----------------|---------|-------|--------------|--------|------|--------------|--------|-------|-----------------|----------|---------|
|   | SRBSRB1601     |         |       | SRBSRB1602   |        |      | SRBSRB1603   |        |       |                 |          |         |
| <b>YAA32W</b>   | <b>3,158.5</b> | 0.5     | 0.5   | <b>249.4</b> | 0.3    | 0.1  | <b>536.0</b> | 0.9    | 0.4   | <b>1,642.0</b>  | 0.2      | 0.3     |
|   |                | 248.4   | 102.2 |              | 32.9   | 2.0  |              | 88.4   | 14.2  |                 | 302.3    | 88.2    |
| <b>GZ63WD</b>   | <b>2,611.7</b> | -0.6    | 0.0   | <b>284.0</b> | 0.7    | 1.2  | <b>528.3</b> | 0.8    | 0.9   | <b>1,241.3</b>  | -0.1     | 0.6     |
|   |                | -298.4  | 7.0   |              | 67.5   | 27.9 |              | 80.7   | 29.1  |                 | -98.3    | 176.0   |
| <b>CJTVUF</b>   | <b>2,982.7</b> | 0.1     | 0.2   | <b>260.0</b> | 0.4    | 1.5  | <b>449.7</b> | 0.0    | 0.5   | <b>1,305.0</b>  | 0.0      | 0.3     |
|   |                | 72.6    | 48.5  |              | 43.5   | 35.6 |              | 2.0    | 17.8  |                 | -34.7    | 89.1    |
| <b>83L8FJ</b>   | <b>2,811.7</b> | -0.2    | 0.1   | <b>210.7</b> | -0.1   | 0.1  | <b>482.7</b> | 0.4    | 0.1   | <b>1,346.0</b>  | 0.0      | 0.0     |
|   |                | -98.4   | 14.6  |              | -5.8   | 2.5  |              | 35.0   | 2.1   |                 | 6.3      | 14.5    |
| <b>2GK3BP</b>   | <b>2,473.3</b> | -0.9    | 0.6   | <b>195.6</b> | -0.2   | 0.5  | <b>424.8</b> | -0.2   | 0.8   | <b>1,136.7</b>  | -0.1     | 0.2     |
|   |                | -436.7  | 125.8 |              | -20.9  | 12.8 |              | -22.9  | 25.9  |                 | -203.0   | 56.9    |
| <b>33JQFQ</b>   | <b>3,400.3</b> | 1.0     | 0.6   | <b>380.3</b> | 1.7    | 2.0  | <b>563.3</b> | 1.2    | 0.7   | <b>1,569.3</b>  | 0.1      | 0.2     |
|   |                | 490.3   | 119.5 |              | 163.8  | 47.7 |              | 115.7  | 22.8  |                 | 229.7    | 66.8    |
| <b>XNBEWV</b>   | <b>2,608.0</b> | -0.6    | 0.2   | <b>359.7</b> | 1.5    | 0.3  | <b>424.7</b> | -0.2   | 0.9   | <b>1,263.7</b>  | 0.0      | 0.1     |
|   |                | -302.0  | 45.2  |              | 143.2  | 8.1  |              | -23.0  | 29.3  |                 | -76.0    | 36.2    |
| <b>9JP2MJ</b>   | <b>2,479.7</b> | -0.9    | 2.2   | <b>275.7</b> | 0.6    | 1.0  | <b>355.0</b> | -1.0   | 0.4   | <b>1,128.7</b>  | -0.1     | 0.2     |
|   |                | -430.4  | 471.9 |              | 59.2   | 24.0 |              | -92.7  | 12.8  |                 | -211.0   | 72.8    |
| <b>RMZ998</b>   | <b>2,866.7</b> | -0.1    | 1.7   | <b>207.0</b> | -0.1   | 0.5  | <b>425.0</b> | -0.2   | 0.2   | <b>111.3</b>    | -0.8     | 0.0     |
|   |                | -43.4   | 371.7 |              | -9.5   | 13.1 |              | -22.7  | 7.5   |                 | -1,228.3 | 4.9     |
| <b>LZMPAC</b>   | <b>3,629.7</b> | 1.5     | 1.3   | <b>194.3</b> | -0.2   | 0.2  | <b>422.7</b> | -0.3   | 0.3   | <b>15,303.3</b> | 8.7      | 3.8     |
|   |                | 719.6   | 283.0 |              | -22.2  | 4.5  |              | -25.0  | 10.1  |                 | 13,963.7 | 1,142.0 |
| <b>BMDAYP</b>   | <b>3,260.0</b> | 0.7     | 1.0   | <b>98.3</b>  | -1.2   | 0.1  | <b>249.3</b> | -2.1   | 0.7   | <b>1,158.3</b>  | -0.1     | 0.3     |
|   |                | 350.0   | 220.4 |              | -118.2 | 2.9  |              | -198.3 | 25.1  |                 | -181.3   | 87.6    |
| <b>T84DB7</b>   | <b>2,880.1</b> | -0.1    | 0.7   | <b>208.4</b> | -0.1   | 1.2  | <b>477.3</b> | 0.3    | 0.1   | <b>1,382.4</b>  | 0.0      | 0.1     |
|   |                | -30.0   | 150.6 |              | -8.1   | 29.0 |              | 29.6   | 2.4   |                 | 42.7     | 23.5    |
| <b>2WG8UU</b>   | <b>4,251.5</b> | 2.7     | 1.9   | <b>547.4</b> | 3.4    | 2.1  | <b>685.3</b> | 2.5    | 3.4   | <b>1,805.7</b>  | 0.3      | 0.9     |
|   |                | 1,341.5 | 407.7 |              | 330.9  | 50.1 |              | 237.6  | 116.9 |                 | 466.1    | 276.9   |
| <b>UNPG82</b>   | <b>2,940.0</b> | 0.1     | 0.2   | <b>220.7</b> | 0.0    | 0.8  | <b>479.7</b> | 0.3    | 0.1   | <b>1,490.0</b>  | 0.1      | 0.1     |
|   |                | 30.0    | 45.8  |              | 4.2    | 19.6 |              | 32.0   | 4.0   |                 | 150.3    | 40.0    |
| <b>AM2DUK</b>   | <b>2,736.7</b> | -0.4    | 0.4   | <b>212.3</b> | 0.0    | 0.4  | <b>445.7</b> | 0.0    | 0.3   | <b>1,383.3</b>  | 0.0      | 0.1     |
|   |                | -173.4  | 90.7  |              | -4.2   | 9.9  |              | -2.0   | 8.6   |                 | 43.7     | 32.1    |
| <b>ZZZ3WM</b>   | <b>3,143.3</b> | 0.5     | 0.2   | <b>200.0</b> | -0.2   | 0.3  | <b>430.7</b> | -0.2   | 0.5   | <b>1,333.3</b>  | 0.0      | 0.4     |
|   |                | 233.3   | 49.3  |              | -16.5  | 7.0  |              | -17.0  | 17.6  |                 | -6.3     | 125.8   |
| <b>Grand Median</b>   |                | 2,910.0 |       |              | 216.5  |      |              | 447.7  |       |                 | 1,339.7  |         |
| <b>Median Abs Dev</b>   |                | 273.4   |       |              | 27.6   |      |              | 30.8   |       |                 | 165.8    |         |
| <b>Avg Within Lab SD</b>  |                | 214.5   |       |              | 24.0   |      |              | 34.0   |       |                 | 303.0    |         |
| <b>Labs Included</b>  |                | 16      |       |              | 16     |      |              | 16     |       |                 | 16       |         |
| <b>Labs Reporting</b>   |                | 16      |       |              | 16     |      |              | 16     |       |                 | 16       |         |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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) <span style="float: right;">Data units: mg/kg</span> |                |          |       |              |       |      |                |        |       |                |         |       |
|--|----------------|----------|-------|--------------|-------|------|----------------|--------|-------|----------------|---------|-------|
|  | SRBSRB1601     |          |       | SRBSRB1602   |       |      | SRBSRB1603     |        |       |                |         |       |
| <b>AAUKBK</b>  | <b>3,122.3</b> | 0.1      | 0.4   | <b>260.8</b> | -0.6  | 0.2  | <b>974.2</b>   | 0.1    | 0.1   | <b>1,552.8</b> | -0.4    | 0.0   |
|  |                | 17.8     | 46.2  |              | -50.5 | 1.9  |                | 27.1   | 6.2   |                | -71.2   | 0.0   |
| <b>BFZE6F</b>  | <b>3,496.6</b> | 1.8      | 0.4   | <b>419.8</b> | 1.2   | 1.2  | <b>1,112.5</b> | 0.8    | 0.1   | <b>1,671.3</b> | 0.3     | 0.4   |
|  |                | 392.1    | 47.6  |              | 108.5 | 13.6 |                | 165.4  | 4.8   |                | 47.3    | 31.2  |
| <b>PFR9KY</b>  | <b>3,446.1</b> | 1.6      | 2.2   | <b>374.7</b> | 0.7   | 1.6  | <b>1,149.9</b> | 0.9    | 2.2   | <b>1,769.9</b> | 0.8     | 2.2   |
|  |                | 341.6    | 263.8 |              | 63.4  | 18.6 |                | 202.8  | 127.7 |                | 146.0   | 176.7 |
| <b>QECBRZ</b>  | <b>3,086.7</b> | -0.1     | 0.7   | <b>289.3</b> | -0.3  | 0.9  | <b>920.0</b>   | -0.1   | 0.6   | <b>1,576.7</b> | -0.3    | 0.3   |
|  |                | -17.8    | 77.7  |              | -22.0 | 10.1 |                | -27.1  | 34.6  |                | -47.3   | 25.2  |
| <b>TNQUE3</b>  | <b>3,146.7</b> | 0.2      | 0.5   | <b>333.3</b> | 0.3   | 1.1  | <b>1,042.7</b> | 0.4    | 0.8   | <b>1,896.7</b> | 1.6     | 0.7   |
|  |                | 42.2     | 55.1  |              | 22.0  | 12.9 |                | 95.6   | 48.4  |                | 272.7   | 58.6  |
| <b>XHNEVW</b>  | <b>3,046.2</b> | -0.3     | 0.3   | <b>225.4</b> | -1.0  | 0.4  | <b>576.0</b>   | -1.7   | 0.0   | <b>1,745.6</b> | 0.7     | 0.5   |
|  |                | -58.3    | 38.2  |              | -86.0 | 4.2  |                | -371.1 | 1.7   |                | 121.6   | 40.1  |
| <b>MZGWVZ</b>  | <b>944.7</b>   | -10.0    | 0.1   | <b>755.6</b> | 5.1   | 0.9  | <b>261.6</b>   | -3.1   | 0.2   | <b>1,302.9</b> | -1.8    | 0.2   |
|  |                | -2,159.8 | 11.1  |              | 444.3 | 10.5 |                | -685.5 | 9.9   |                | -321.1  | 19.2  |
| <b>Grand Median</b>  |                | 3,104.5  |       |              | 311.3 |      |                | 947.1  |       |                | 1,624.0 |       |
| <b>Median Abs Dev</b>  |                | 50.2     |       |              | 56.9  |      |                | 130.5  |       |                | 96.4    |       |
| <b>Avg Within Lab SD</b>   |                | 118.7    |       |              | 11.7  |      |                | 57.6   |       |                | 79.5    |       |
| <b>Labs Included</b>   |                | 6        |       |              | 6     |      |                | 6      |       |                | 6       |       |
| <b>Labs Reporting</b>  |                | 6        |       |              | 6     |      |                | 6      |       |                | 6       |       |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 |          |       |                 |          |         |                |          |       |                |          |       |
|--------------------------------|-------------------|----------|-------|-----------------|----------|---------|----------------|----------|-------|----------------|----------|-------|
|                                | SRBSRB1601        |          |       | SRBSRB1602      |          |         | SRBSRB1603     |          |       |                |          |       |
| <b>PFR9KY</b>                  | <b>3,050.0</b>    | 0.1      | 1.9   | <b>4,385.8</b>  | 0.4      | 2.0     | <b>4,155.0</b> | 0.4      | 2.0   | <b>2,415.5</b> | 0.2      | 2.0   |
|                                |                   | 330.3    | 334.2 |                 | 2,081.8  | 1,063.5 |                | 1,872.2  | 784.7 |                | 604.3    | 448.3 |
| <b>J42726</b>                  | <b>2,389.3</b>    | -0.1     | 0.3   | <b>222.3</b>    | -0.4     | 0.0     | <b>410.7</b>   | -0.4     | 0.1   | <b>1,207.0</b> | -0.2     | 0.0   |
|                                |                   | -330.3   | 52.3  |                 | -2,081.8 | 5.7     |                | -1,872.2 | 28.9  |                | -604.3   | 7.8   |
| <b>4JGF2L</b>                  | <b>15,016.2</b>   | 2.3      | 0.3   | <b>12,036.2</b> | 1.6      | 0.1     | <b>8,979.3</b> | 1.4      | 0.4   | <b>7,675.0</b> | 1.9      | 0.2   |
|                                |                   | 12,296.6 | 56.4  |                 | 9,732.1  | 50.3    |                | 6,696.4  | 154.4 |                | 5,863.8  | 42.3  |
| <b>PHEWWY</b>                  | <b>1,223.8</b>    | -0.3     | 0.6   | <b>158.4</b>    | -0.4     | 0.0     | <b>249.3</b>   | -0.4     | 0.0   | <b>567.7</b>   | -0.4     | 0.0   |
|                                |                   | -1,495.9 | 104.6 |                 | -2,145.7 | 14.0    |                | -2,033.5 | 6.1   |                | -1,243.5 | 3.9   |
| <b>Grand Median</b>            |                   | 2,719.7  |       |                 | 2,304.1  |         |                | 2,282.8  |       |                | 1,811.3  |       |
| <b>Median Abs Dev</b>          |                   | 913.1    |       |                 | 2,113.7  |         |                | 1,952.8  |       |                | 923.9    |       |
| <b>Avg Within Lab SD</b>       |                   | 179.3    |       |                 | 532.4    |         |                | 400.2    |       |                | 225.2    |       |
| <b>Labs Included</b>           |                   | 4        |       |                 | 4        |         |                | 4        |       |                | 4        |       |
| <b>Labs Reporting</b>          |                   | 4        |       |                 | 4        |         |                | 4        |       |                | 4        |       |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 |      |              |       |              |       |              |       |
|--------------------------|-------------------|------|--------------|-------|--------------|-------|--------------|-------|
|                          | SRBSRB1601        |      | SRBSRB1602   |       | SRBSRB1603   |       |              |       |
| <b>33JQFQ</b>            | <b>87.7</b>       | 1.4  | <b>108.7</b> | 1.1   | <b>95.7</b>  | 1.3   | <b>725.3</b> | 1.0   |
|                          |                   | 13.6 |              | 9.1   |              | 2.1   |              | 11.0  |
| <b>XHNEVW</b>            | <b>36.5</b>       | 0.1  | <b>140.6</b> | 0.8   | <b>132.7</b> | 0.5   | <b>920.1</b> | 1.3   |
|                          |                   | 1.3  |              | 6.8   |              | 0.7   |              | 13.9  |
| <b>PHEWWY</b>            |                   |      |              |       |              |       | <b>431.3</b> | 0.6   |
|                          |                   |      |              |       |              |       |              | 6.4   |
| <b>Grand Median</b>      |                   | 62.1 |              | 124.7 |              | 114.2 |              | 725.3 |
| <b>Median Abs Dev</b>    |                   |      |              |       |              |       |              |       |
| <b>Avg Within Lab SD</b> |                   | 9.6  |              | 8.0   |              | 1.6   |              | 10.9  |
| <b>Labs Included</b>     |                   | 2    |              | 2     |              | 2     |              | 3     |
| <b>Labs Reporting</b>    |                   | 2    |              | 2     |              | 2     |              | 3     |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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) <span style="float: right;">Data units: mg/kg</span> |                |         |       |                |         |       |                |         |       |                |         |         |
|--|----------------|---------|-------|----------------|---------|-------|----------------|---------|-------|----------------|---------|---------|
|  | SRBSRB1601     |         |       | SRBSRB1602     |         |       | SRBSRB1603     |         |       |                |         |         |
| <b>AAUKBK</b>  | <b>996.3</b>   | 0.1     | 0.2   | <b>1,157.9</b> | 0.7     | 0.0   | <b>2,202.6</b> | 0.5     | 0.2   | <b>2,588.0</b> | 0.2     | 0.0     |
|  |                | 19.6    | 12.3  |                | 117.2   | 6.2   |                | 96.0    | 43.0  |                | 88.0    | 16.4    |
| <b>GZ63WD</b>  | <b>775.0</b>   | -1.4    | 0.3   | <b>927.3</b>   | -0.6    | 0.2   | <b>1,928.7</b> | -0.9    | 0.5   | <b>1,915.0</b> | -1.1    | 0.1     |
|  |                | -201.7  | 20.9  |                | -113.3  | 37.4  |                | -178.0  | 120.1 |                | -585.0  | 94.6    |
| <b>CJTVUF</b>  | <b>1,027.3</b> | 0.4     | 1.2   | <b>1,040.7</b> | 0.0     | 0.3   | <b>2,034.3</b> | -0.4    | 0.2   | <b>2,489.0</b> | 0.0     | 0.1     |
|  |                | 50.7    | 95.5  |                | 0.0     | 49.2  |                | -72.3   | 53.5  |                | -11.0   | 101.4   |
| <b>2GK3BP</b>  | <b>990.9</b>   | 0.1     | 1.1   | <b>1,036.7</b> | 0.0     | 0.2   | <b>2,156.7</b> | 0.2     | 0.3   | <b>2,536.7</b> | 0.1     | 0.1     |
|  |                | 14.2    | 85.7  |                | -4.0    | 30.6  |                | 50.0    | 65.1  |                | 36.7    | 90.7    |
| <b>33JQFQ</b>  | <b>1,085.0</b> | 0.8     | 0.1   | <b>1,265.3</b> | 1.3     | 0.1   | <b>2,306.3</b> | 1.0     | 0.2   | <b>2,779.3</b> | 0.5     | 0.1     |
|  |                | 108.3   | 8.5   |                | 224.7   | 12.9  |                | 199.7   | 60.1  |                | 279.3   | 62.9    |
| <b>PFR9KY</b>  | <b>683.3</b>   | -2.1    | 0.5   | <b>836.7</b>   | -1.2    | 0.1   | <b>1,586.7</b> | -2.6    | 0.2   | <b>1,936.7</b> | -1.0    | 0.1     |
|  |                | -293.3  | 40.4  |                | -204.0  | 15.3  |                | -520.0  | 45.1  |                | -563.3  | 70.9    |
| <b>WGX7VT</b>  | <b>923.3</b>   | -0.4    | 0.0   | <b>1,050.3</b> | 0.1     | 0.0   | <b>2,109.3</b> | 0.0     | 0.0   | <b>2,376.0</b> | -0.2    | 0.0     |
|  |                | -53.3   | 1.5   |                | 9.7     | 5.5   |                | 2.7     | 1.5   |                | -124.0  | 1.0     |
| <b>QECBRZ</b>  | <b>946.7</b>   | -0.2    | 0.1   | <b>1,013.3</b> | -0.2    | 0.1   | <b>2,053.3</b> | -0.3    | 0.3   | <b>2,500.0</b> | 0.0     | 0.0     |
|  |                | -30.0   | 11.5  |                | -27.3   | 23.1  |                | -53.3   | 68.1  |                | 0.0     | 36.1    |
| <b>BMDAYP</b>  | <b>861.7</b>   | -0.8    | 0.1   | <b>999.3</b>   | -0.2    | 0.1   | <b>1,844.0</b> | -1.3    | 0.3   | <b>2,545.0</b> | 0.1     | 0.1     |
|  |                | -115.0  | 10.6  |                | -41.3   | 13.6  |                | -262.7  | 83.2  |                | 45.0    | 76.9    |
| <b>2WG8UU</b>  | <b>1,140.7</b> | 1.2     | 2.5   | <b>1,602.1</b> | 3.2     | 3.3   | <b>2,175.5</b> | 0.3     | 3.2   | <b>4,772.3</b> | 4.2     | 3.3     |
|  |                | 164.0   | 196.6 |                | 561.4   | 543.1 |                | 68.8    | 772.7 |                | 2,272.3 | 3,466.2 |
| <b>UNPG82</b>  | <b>976.7</b>   | 0.0     | 1.2   | <b>1,046.7</b> | 0.0     | 0.3   | <b>2,106.7</b> | 0.0     | 0.4   | <b>2,456.7</b> | -0.1    | 0.1     |
|  |                | 0.0     | 90.7  |                | 6.0     | 49.3  |                | 0.0     | 98.1  |                | -43.3   | 104.1   |
| <b>4JGF2L</b>  | <b>3,215.0</b> | 15.8    | 0.1   | <b>3,164.2</b> | 12.0    | 0.2   | <b>6,024.9</b> | 19.3    | 0.3   | <b>7,283.4</b> | 8.8     | 0.1     |
|  |                | 2,238.3 | 11.1  |                | 2,123.5 | 32.8  |                | 3,918.2 | 73.5  |                | 4,783.4 | 54.7    |
| <b>Grand Median</b>  |                | 976.7   |       | 1,040.7        |         |       | 2,106.7        |         |       | 2,500.0        |         |         |
| <b>Median Abs Dev</b>  |                | 53.3    |       | 41.3           |         |       | 72.3           |         |       | 88.0           |         |         |
| <b>Avg Within Lab SD</b>   |                | 77.4    |       | 166.1          |         |       | 242.6          |         |       | 1,047.5        |         |         |
| <b>Labs Included</b>   |                | 11      |       | 11             |         |       | 11             |         |       | 11             |         |         |
| <b>Labs Reporting</b>  |                | 11      |       | 11             |         |       | 11             |         |       | 11             |         |         |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 |     |              |      |                |      |              |      |
|---------------------------|-------------------|-----|--------------|------|----------------|------|--------------|------|
|                           | SRBSRB1601        |     | SRBSRB1602   |      | SRBSRB1603     |      |              |      |
| <b>AAUKBK</b>             | <b>186.8</b>      | 0.0 | <b>414.4</b> | 0.9  | <b>967.0</b>   | 0.0  | <b>388.4</b> | 1.1  |
|                           |                   | 0.0 |              | 13.4 |                | 0.0  |              | 13.4 |
| <b>BFZE6F</b>             | <b>216.8</b>      | 1.3 | <b>398.2</b> | 0.8  | <b>989.7</b>   | 1.4  | <b>649.8</b> | 0.9  |
|                           |                   | 7.2 |              | 12.5 |                | 28.0 |              | 10.6 |
| <b>33JQFQ</b>             | <b>183.3</b>      | 1.1 | <b>422.7</b> | 1.3  | <b>1,077.3</b> | 1.0  | <b>513.3</b> | 1.0  |
|                           |                   | 6.1 |              | 19.2 |                | 21.1 |              | 11.4 |
| <b>Grand Median</b>       | 186.8             |     | 414.4        |      | 989.7          |      | 513.3        |      |
| <b>Median Abs Dev</b>     |                   |     |              |      |                |      |              |      |
| <b>Avg Within Lab SD</b>  | 5.5               |     | 15.3         |      | 20.3           |      | 11.8         |      |
| <b>Labs Included</b>      | 3                 |     | 3            |      | 3              |      | 3            |      |
| <b>Labs Reporting</b>     | 3                 |     | 3            |      | 3              |      | 3            |      |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 |       |      |             |       |      |             |       |      |             |       |      |
|--------------------------|---------------------|-------|------|-------------|-------|------|-------------|-------|------|-------------|-------|------|
|                          | SRBSRB1601          |       |      | SRBSRB1602  |       |      | SRBSRB1603  |       |      |             |       |      |
| AAUKBK                   | <b>0.82</b>         | 0.59  | 0.13 | <b>0.35</b> | 0.89  | 0.29 | <b>0.63</b> | 0.35  | 0.28 | <b>0.60</b> | 0.72  | 0.00 |
|                          |                     | 0.12  | 0.00 |             | 0.11  | 0.01 |             | 0.05  | 0.01 |             | 0.07  | 0.00 |
| 83L8FJ                   | <b>0.80</b>         | 0.50  | 0.14 | <b>0.30</b> | 0.49  | 0.18 | <b>0.62</b> | 0.30  | 0.29 | <b>0.58</b> | 0.48  | 0.30 |
|                          |                     | 0.10  | 0.00 |             | 0.06  | 0.00 |             | 0.04  | 0.01 |             | 0.05  | 0.00 |
| 2GK3BP                   | <b>0.70</b>         | 0.00  | 1.29 | <b>0.31</b> | 0.56  | 0.23 | <b>0.64</b> | 0.46  | 0.81 | <b>0.53</b> | 0.01  | 1.09 |
|                          |                     | 0.00  | 0.03 |             | 0.07  | 0.01 |             | 0.07  | 0.02 |             | 0.00  | 0.02 |
| 33JQFQ                   | <b>0.80</b>         | 0.51  | 1.07 | <b>0.21</b> | -0.17 | 0.71 | <b>0.63</b> | 0.40  | 0.92 | <b>0.61</b> | 0.83  | 1.32 |
|                          |                     | 0.10  | 0.03 |             | -0.02 | 0.02 |             | 0.06  | 0.02 |             | 0.08  | 0.02 |
| XNBEWV                   | <b>0.78</b>         | 0.41  | 0.25 | <b>0.20</b> | -0.25 | 0.27 | <b>0.58</b> | 0.00  | 0.26 | <b>0.58</b> | 0.49  | 0.38 |
|                          |                     | 0.08  | 0.01 |             | -0.03 | 0.01 |             | 0.00  | 0.01 |             | 0.05  | 0.01 |
| PFR9KY                   | <b>0.57</b>         | -0.65 | 1.25 | <b>0.25</b> | 0.12  | 2.31 | <b>0.40</b> | -1.23 | 3.33 | <b>0.48</b> | -0.47 | 0.95 |
|                          |                     | -0.13 | 0.03 |             | 0.01  | 0.05 |             | -0.18 | 0.08 |             | -0.05 | 0.01 |
| J42726                   | <b>0.68</b>         | -0.11 | 0.25 | <b>0.16</b> | -0.61 | 0.53 | <b>0.51</b> | -0.44 | 0.26 | <b>0.51</b> | -0.23 | 0.76 |
|                          |                     | -0.02 | 0.01 |             | -0.08 | 0.01 |             | -0.06 | 0.01 |             | -0.02 | 0.01 |
| WGX7VT                   | <b>0.75</b>         | 0.26  | 0.65 | <b>0.26</b> | 0.19  | 0.46 | <b>0.62</b> | 0.33  | 0.26 | <b>0.45</b> | -0.81 | 0.66 |
|                          |                     | 0.05  | 0.02 |             | 0.03  | 0.01 |             | 0.05  | 0.01 |             | -0.08 | 0.01 |
| QECBRZ                   | <b>0.77</b>         | 0.34  | 1.48 | <b>0.22</b> | -0.12 | 0.46 | <b>0.58</b> | 0.00  | 1.12 | <b>0.55</b> | 0.21  | 0.66 |
|                          |                     | 0.07  | 0.03 |             | -0.01 | 0.01 |             | 0.00  | 0.03 |             | 0.02  | 0.01 |
| LZMPAC                   | <b>0.36</b>         | -1.69 | 0.15 | <b>0.27</b> | 0.27  | 0.08 | <b>0.63</b> | 0.37  | 0.09 | <b>0.53</b> | 0.06  | 0.60 |
|                          |                     | -0.34 | 0.00 |             | 0.04  | 0.00 |             | 0.05  | 0.00 |             | 0.01  | 0.01 |
| T84DB7                   | <b>0.85</b>         | 0.73  | 2.61 | <b>0.47</b> | 1.84  | 1.08 | <b>0.75</b> | 1.21  | 0.97 | <b>0.65</b> | 1.22  | 0.52 |
|                          |                     | 0.15  | 0.06 |             | 0.24  | 0.02 |             | 0.17  | 0.02 |             | 0.12  | 0.01 |
| UNPG82                   | <b>0.58</b>         | -0.61 | 0.97 | <b>0.14</b> | -0.73 | 0.30 | <b>0.44</b> | -0.99 | 0.35 | <b>0.44</b> | -0.92 | 0.99 |
|                          |                     | -0.12 | 0.02 |             | -0.09 | 0.01 |             | -0.14 | 0.01 |             | -0.09 | 0.01 |
| XHNEVW                   | <b>0.70</b>         | 0.00  | 0.34 | <b>0.16</b> | -0.56 | 0.04 | <b>0.55</b> | -0.21 | 0.19 | <b>0.51</b> | -0.15 | 0.75 |
|                          |                     | 0.00  | 0.01 |             | -0.07 | 0.00 |             | -0.03 | 0.00 |             | -0.01 | 0.01 |
| BHL3GF                   | <b>0.69</b>         | -0.05 | 0.96 | <b>0.16</b> | -0.57 | 0.12 | <b>0.52</b> | -0.42 | 0.32 | <b>0.53</b> | -0.01 | 0.17 |
|                          |                     | -0.01 | 0.02 |             | -0.07 | 0.00 |             | -0.06 | 0.01 |             | 0.00  | 0.00 |
| MZGWVZ                   | <b>0.22</b>         | -2.33 | 0.25 | <b>0.52</b> | 2.21  | 2.82 | <b>0.34</b> | -1.65 | 0.77 | <b>0.44</b> | -0.91 | 2.87 |
|                          |                     | -0.48 | 0.01 |             | 0.29  | 0.06 |             | -0.24 | 0.02 |             | -0.09 | 0.04 |
| PHEWWY                   | <b>0.29</b>         | -2.00 | 0.07 | <b>0.08</b> | -1.22 | 0.01 | <b>0.23</b> | -2.44 | 0.12 | <b>0.21</b> | -3.29 | 0.12 |
|                          |                     | -0.41 | 0.00 |             | -0.16 | 0.00 |             | -0.35 | 0.00 |             | -0.32 | 0.00 |
| <b>Grand Median</b>      |                     | 0.70  |      | 0.23        |       |      | 0.58        |       |      | 0.53        |       |      |
| <b>Median Abs Dev</b>    |                     | 0.10  |      | 0.07        |       |      | 0.06        |       |      | 0.05        |       |      |
| <b>Avg Within Lab SD</b> |                     | 0.02  |      | 0.02        |       |      | 0.02        |       |      | 0.02        |       |      |
| <b>Labs Included</b>     |                     | 16    |      | 16          |       |      | 16          |       |      | 16          |       |      |
| <b>Labs Reporting</b>    |                     | 16    |      | 16          |       |      | 16          |       |      | 16          |       |      |





## ALP Program - Participant Web Summary Report - Cycle 29

| 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 |       |      |             |       |      |             |       |      |             |       |      |
|--------------------------|---------------------|-------|------|-------------|-------|------|-------------|-------|------|-------------|-------|------|
|                          | SRBSRB1601          |       |      | SRBSRB1602  |       |      | SRBSRB1603  |       |      |             |       |      |
| <b>AAUKBK</b>            | <b>0.64</b>         | 0.94  | 0.73 | <b>2.92</b> | 0.00  | 0.12 | <b>2.07</b> | 0.00  | 0.21 | <b>2.89</b> | -0.21 | 0.10 |
|                          |                     | 0.10  | 0.02 |             | 0.00  | 0.01 |             | 0.00  | 0.02 |             | -0.04 | 0.01 |
| <b>2GK3BP</b>            | <b>0.49</b>         | -0.35 | 0.53 | <b>2.93</b> | 0.07  | 1.08 | <b>1.93</b> | -0.88 | 0.77 | <b>3.02</b> | 0.43  | 1.09 |
|                          |                     | -0.04 | 0.01 |             | 0.01  | 0.09 |             | -0.14 | 0.07 |             | 0.09  | 0.09 |
| <b>33JQFQ</b>            | <b>0.68</b>         | 1.38  | 0.58 | <b>3.17</b> | 2.29  | 0.20 | <b>2.23</b> | 1.06  | 0.04 | <b>3.08</b> | 0.72  | 1.21 |
|                          |                     | 0.15  | 0.01 |             | 0.25  | 0.02 |             | 0.17  | 0.00 |             | 0.15  | 0.10 |
| <b>F92H9C</b>            | <b>0.53</b>         | -0.01 | 0.00 | <b>2.82</b> | -0.93 | 0.21 | <b>1.93</b> | -0.88 | 0.13 | <b>2.80</b> | -0.65 | 0.14 |
|                          |                     | 0.00  | 0.00 |             | -0.10 | 0.02 |             | -0.14 | 0.01 |             | -0.14 | 0.01 |
| <b>WGX7VT</b>            | <b>0.64</b>         | 1.01  | 0.81 | <b>2.93</b> | 0.07  | 0.24 | <b>2.12</b> | 0.33  | 0.46 | <b>3.12</b> | 0.88  | 0.31 |
|                          |                     | 0.11  | 0.02 |             | 0.01  | 0.02 |             | 0.05  | 0.04 |             | 0.18  | 0.03 |
| <b>GAPFPH</b>            | <b>0.54</b>         | 0.05  | 0.45 | <b>2.91</b> | -0.08 | 0.39 | <b>2.01</b> | -0.33 | 0.18 | <b>2.89</b> | -0.22 | 0.64 |
|                          |                     | 0.01  | 0.01 |             | -0.01 | 0.03 |             | -0.05 | 0.02 |             | -0.05 | 0.05 |
| <b>2WG8UU</b>            | <b>0.29</b>         | -2.17 | 1.77 | <b>2.86</b> | -0.60 | 2.66 | <b>1.85</b> | -1.38 | 2.84 | <b>2.61</b> | -1.57 | 2.36 |
|                          |                     | -0.24 | 0.05 |             | -0.07 | 0.22 |             | -0.22 | 0.25 |             | -0.33 | 0.19 |
| <b>AM2DUK</b>            | <b>0.51</b>         | -0.16 | 1.66 | <b>2.91</b> | -0.08 | 0.55 | <b>2.07</b> | 0.01  | 0.18 | <b>2.93</b> | 0.00  | 0.19 |
|                          |                     | -0.02 | 0.04 |             | -0.01 | 0.05 |             | 0.00  | 0.02 |             | 0.00  | 0.02 |
| <b>XHNEVW</b>            | <b>0.53</b>         | 0.00  | 1.07 | <b>3.13</b> | 1.95  | 0.42 | <b>2.25</b> | 1.20  | 0.11 | <b>3.22</b> | 1.38  | 0.42 |
|                          |                     | 0.00  | 0.03 |             | 0.21  | 0.03 |             | 0.19  | 0.01 |             | 0.29  | 0.03 |
| <b>Grand Median</b>      |                     | 0.53  |      | 2.92        |       |      | 2.07        |       |      | 2.93        |       |      |
| <b>Median Abs Dev</b>    |                     | 0.04  |      | 0.01        |       |      | 0.14        |       |      | 0.14        |       |      |
| <b>Avg Within Lab SD</b> |                     | 0.03  |      | 0.08        |       |      | 0.09        |       |      | 0.08        |       |      |
| <b>Labs Included</b>     |                     | 9     |      | 9           |       |      | 9           |       |      | 9           |       |      |
| <b>Labs Reporting</b>    |                     | 9     |      | 9           |       |      | 9           |       |      | 9           |       |      |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 |      |
|--------------------------------|-------------|-------|------|-------------|-------|------|-------------|-------|------|-------------|---------------------|------|
|                                | SRBSRB1601  |       |      | SRBSRB1602  |       |      | SRBSRB1603  |       |      |             |                     |      |
| YAA32W                         | <b>0.72</b> | 0.09  | 0.62 | <b>3.23</b> | 1.78  | 0.59 | <b>2.35</b> | 1.69  | 0.16 | <b>3.40</b> | 1.69                | 0.20 |
|                                |             | 0.01  | 0.02 |             | 0.19  | 0.02 |             | 0.17  | 0.01 |             | 0.25                | 0.01 |
| AAUKBK                         | <b>0.68</b> | -0.24 | 0.16 | <b>3.16</b> | 1.09  | 0.06 | <b>2.26</b> | 0.80  | 0.13 | <b>3.24</b> | 0.65                | 0.28 |
|                                |             | -0.03 | 0.00 |             | 0.12  | 0.00 |             | 0.08  | 0.01 |             | 0.10                | 0.01 |
| GZ63WD                         | <b>0.72</b> | 0.05  | 0.88 | <b>3.05</b> | 0.00  | 0.57 | <b>2.20</b> | 0.15  | 0.33 | <b>3.20</b> | 0.38                | 0.94 |
|                                |             | 0.01  | 0.03 |             | 0.00  | 0.02 |             | 0.02  | 0.02 |             | 0.06                | 0.05 |
| CJTVUF                         | <b>0.67</b> | -0.33 | 0.06 | <b>3.05</b> | 0.06  | 0.06 | <b>2.15</b> | -0.33 | 0.15 | <b>3.11</b> | -0.24               | 0.13 |
|                                |             | -0.04 | 0.00 |             | 0.01  | 0.00 |             | -0.03 | 0.01 |             | -0.04               | 0.01 |
| 83L8FJ                         | <b>0.66</b> | -0.46 | 0.51 | <b>3.17</b> | 1.13  | 0.42 | <b>2.25</b> | 0.70  | 0.33 | <b>3.28</b> | 0.91                | 0.37 |
|                                |             | -0.06 | 0.02 |             | 0.12  | 0.02 |             | 0.07  | 0.02 |             | 0.13                | 0.02 |
| BFZE6F                         | <b>0.86</b> | 1.21  | 0.27 | <b>3.03</b> | -0.15 | 0.68 | <b>2.30</b> | 1.12  | 0.14 | <b>3.10</b> | -0.34               | 1.47 |
|                                |             | 0.15  | 0.01 |             | -0.02 | 0.02 |             | 0.11  | 0.01 |             | -0.05               | 0.08 |
| 33JQFQ                         | <b>0.84</b> | 1.02  | 0.33 | <b>3.02</b> | -0.22 | 1.24 | <b>2.18</b> | -0.05 | 0.25 | <b>3.20</b> | 0.36                | 0.68 |
|                                |             | 0.13  | 0.01 |             | -0.02 | 0.05 |             | 0.00  | 0.01 |             | 0.05                | 0.04 |
| XNBEWV                         | <b>0.69</b> | -0.19 | 0.66 | <b>3.15</b> | 0.94  | 0.69 | <b>2.24</b> | 0.61  | 0.69 | <b>3.25</b> | 0.68                | 0.11 |
|                                |             | -0.02 | 0.02 |             | 0.10  | 0.03 |             | 0.06  | 0.03 |             | 0.10                | 0.01 |
| 9JP2MJ                         | <b>0.72</b> | 0.04  | 1.76 | <b>2.90</b> | -1.35 | 1.65 | <b>2.06</b> | -1.18 | 0.74 | <b>3.00</b> | -1.02               | 1.61 |
|                                |             | 0.01  | 0.05 |             | -0.14 | 0.06 |             | -0.12 | 0.03 |             | -0.15               | 0.09 |
| PFR9KY                         | <b>0.72</b> | 0.09  | 2.82 | <b>3.04</b> | -0.10 | 0.59 | <b>2.16</b> | -0.25 | 0.31 | <b>3.19</b> | 0.28                | 0.56 |
|                                |             | 0.01  | 0.09 |             | -0.01 | 0.02 |             | -0.03 | 0.01 |             | 0.04                | 0.03 |
| J42726                         | <b>0.83</b> | 0.94  | 0.57 | <b>3.03</b> | -0.19 | 0.16 | <b>2.21</b> | 0.25  | 0.12 | <b>3.22</b> | 0.48                | 0.47 |
|                                |             | 0.12  | 0.02 |             | -0.02 | 0.01 |             | 0.03  | 0.01 |             | 0.07                | 0.03 |
| QEGBRZ                         | <b>0.49</b> | -1.81 | 1.20 | <b>3.07</b> | 0.22  | 0.95 | <b>2.15</b> | -0.27 | 0.69 | <b>3.27</b> | 0.84                | 0.65 |
|                                |             | -0.22 | 0.04 |             | 0.02  | 0.03 |             | -0.03 | 0.03 |             | 0.12                | 0.03 |
| RMZ998                         | <b>0.93</b> | 1.75  | 0.66 | <b>3.13</b> | 0.82  | 1.67 | <b>2.31</b> | 1.29  | 0.33 | <b>3.42</b> | 1.88                | 1.19 |
|                                |             | 0.22  | 0.02 |             | 0.09  | 0.06 |             | 0.13  | 0.02 |             | 0.28                | 0.06 |
| LZMPAC                         | <b>0.71</b> | 0.00  | 0.96 | <b>2.98</b> | -0.63 | 0.27 | <b>2.18</b> | -0.05 | 0.25 | <b>3.14</b> | -0.02               | 0.29 |
|                                |             | 0.00  | 0.03 |             | -0.07 | 0.01 |             | 0.00  | 0.01 |             | 0.00                | 0.02 |
| BMDAYP                         | <b>0.57</b> | -1.16 | 1.75 | <b>2.97</b> | -0.76 | 1.58 | <b>2.00</b> | -1.77 | 4.28 | <b>3.00</b> | -1.00               | 3.24 |
|                                |             | -0.14 | 0.05 |             | -0.08 | 0.06 |             | -0.18 | 0.20 |             | -0.15               | 0.17 |
| BE38DN                         | <b>0.59</b> | -0.97 | 1.34 | <b>2.90</b> | -1.42 | 0.84 | <b>2.02</b> | -1.54 | 0.49 | <b>3.03</b> | -0.79               | 0.97 |
|                                |             | -0.12 | 0.04 |             | -0.15 | 0.03 |             | -0.16 | 0.02 |             | -0.12               | 0.05 |
| GAPFPH                         | <b>0.66</b> | -0.47 | 1.08 | <b>3.21</b> | 1.56  | 0.25 | <b>2.27</b> | 0.84  | 0.31 | <b>3.28</b> | 0.91                | 0.59 |
|                                |             | -0.06 | 0.03 |             | 0.17  | 0.01 |             | 0.09  | 0.01 |             | 0.13                | 0.03 |
| T84DB7                         | <b>0.66</b> | -0.40 | 0.55 | <b>3.10</b> | 0.52  | 0.56 | <b>2.18</b> | 0.00  | 0.44 | <b>3.12</b> | -0.19               | 0.30 |
|                                |             | -0.05 | 0.02 |             | 0.06  | 0.02 |             | 0.00  | 0.02 |             | -0.03               | 0.02 |
| TNQUE3                         | <b>0.80</b> | 0.67  | 0.19 | <b>3.02</b> | -0.25 | 0.72 | <b>2.14</b> | -0.44 | 0.65 | <b>3.15</b> | 0.00                | 0.47 |
|                                |             | 0.08  | 0.01 |             | -0.03 | 0.03 |             | -0.04 | 0.03 |             | 0.00                | 0.03 |
| PWWNK7                         | <b>3.47</b> | 22.28 |      | <b>3.47</b> | 4.00  |      | <b>3.43</b> | 12.19 |      | <b>3.66</b> | 3.49                | 0.47 |
|                                |             | 2.76  | 0.00 |             | 0.42  | 0.00 |             | 1.25  | 0.00 |             | 0.51                | 0.00 |



## ALP Program - Participant Web Summary Report - Cycle 29

|                          | 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>UNPG82</b>            | <b>0.64</b>        | -0.59   | 0.99    | <b>3.16</b>        | 1.04    | 3.17    | <b>2.22</b>        | 0.41    | 1.29    | <b>3.14</b> | -0.02 | 1.59 |
|                          |                    | -0.07   | 0.03    |                    | 0.11    | 0.12    |                    | 0.04    | 0.06    |             | 0.00  | 0.09 |
| <b>J26YBD</b>            | <b>0.73</b>        | 0.13    | 0.33    | <b>3.06</b>        | 0.13    | 0.47    | <b>2.18</b>        | 0.02    | 0.33    | <b>3.22</b> | 0.52  | 1.13 |
|                          |                    | 0.02    | 0.01    |                    | 0.01    | 0.02    |                    | 0.00    | 0.02    |             | 0.08  | 0.06 |
| <b>CPEWRJ</b>            | <b>0.59</b>        | -1.04   | 0.68    | <b>3.03</b>        | -0.11   | 0.09    | <b>2.11</b>        | -0.70   | 1.02    | <b>3.09</b> | -0.37 | 0.95 |
|                          |                    | -0.13   | 0.02    |                    | -0.01   | 0.00    |                    | -0.07   | 0.05    |             | -0.05 | 0.05 |
| <b>VBVLAX</b>            | <b>0.78</b>        | 0.54    | 0.57    | <b>2.93</b>        | -1.10   | 0.99    | <b>2.07</b>        | -1.09   | 1.62    | <b>3.11</b> | -0.25 | 1.50 |
|                          |                    | 0.07    | 0.02    |                    | -0.12   | 0.04    |                    | -0.11   | 0.08    |             | -0.04 | 0.08 |
| <b>XHNEVW</b>            | <b>0.78</b>        | 0.53    | 0.18    | <b>3.24</b>        | 1.86    | 0.35    | <b>2.26</b>        | 0.81    | 0.10    | <b>3.46</b> | 2.14  | 0.40 |
|                          |                    | 0.07    | 0.01    |                    | 0.20    | 0.01    |                    | 0.08    | 0.00    |             | 0.32  | 0.02 |
| <b>MZGWVZ</b>            | <b>1.09</b>        | 3.04    | 1.85    | <b>3.13</b>        | 0.82    | 1.04    | <b>2.35</b>        | 1.61    | 1.25    | <b>3.12</b> | -0.20 | 0.76 |
|                          |                    | -0.38   | 0.06    |                    | 0.09    | 0.04    |                    | 0.17    | 0.06    |             | -0.03 | 0.04 |
| <b>6K828H</b>            | <b>0.72</b>        | 0.05    | 0.33    | <b>3.02</b>        | -0.22   | 0.96    | <b>2.17</b>        | -0.14   | 0.25    | <b>3.22</b> | 0.48  | 0.22 |
|                          |                    | 0.01    | 0.01    |                    | -0.02   | 0.04    |                    | -0.01   | 0.01    |             | 0.07  | 0.01 |
| <b>ZZZ3WM</b>            | <b>0.67</b>        | -0.35   |         | <b>3.07</b>        | 0.22    |         | <b>2.22</b>        | 0.38    |         | <b>2.80</b> | -2.36 | 0.22 |
|                          |                    | -0.04   | 0.00    |                    | 0.02    | 0.00    |                    | 0.04    | 0.00    |             | -0.35 | 0.00 |
| <b>PHEWWY</b>            | <b>0.63</b>        | -0.71   | 0.88    | <b>2.98</b>        | -0.60   | 1.14    | <b>2.12</b>        | -0.62   | 0.71    | <b>3.08</b> | -0.42 | 0.48 |
|                          |                    | -0.09   | 0.03    |                    | -0.06   | 0.04    |                    | -0.06   | 0.03    |             | -0.06 | 0.03 |
| <b>J6NUD7</b>            | <b>0.63</b>        | -0.66   | 0.43    | <b>3.02</b>        | -0.26   | 0.09    | <b>2.14</b>        | -0.44   | 0.11    | <b>3.13</b> | -0.14 | 0.23 |
|                          |                    | -0.08   | 0.01    |                    | -0.03   | 0.00    |                    | -0.05   | 0.01    |             | -0.02 | 0.01 |
| <b>Grand Median</b>      |                    | 0.71    |         |                    | 3.05    |         |                    | 2.18    |         |             | 3.15  |      |
| <b>Median Abs Dev</b>    |                    | 0.07    |         |                    | 0.06    |         |                    | 0.06    |         |             | 0.07  |      |
| <b>Avg Within Lab SD</b> |                    | 0.03    |         |                    | 0.04    |         |                    | 0.05    |         |             | 0.05  |      |
| <b>Labs Included</b>     |                    | 29      |         |                    | 29      |         |                    | 29      |         |             | 29    |      |
| <b>Labs Reporting</b>    |                    | 29      |         |                    | 29      |         |                    | 29      |         |             | 29    |      |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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- Dry Comb. (SubTestCode 211) | Data units: Percent |      |             |      |             |      |             |      |
|--------------------------------|---------------------|------|-------------|------|-------------|------|-------------|------|
|                                | SRBSRB1601          |      | SRBSRB1602  |      | SRBSRB1603  |      |             |      |
| <b>T84DB7</b>                  | <b>0.08</b>         | 0.98 | <b>0.23</b> | 0.36 | <b>0.26</b> | 0.66 | <b>0.24</b> | 0.81 |
|                                |                     | 0.01 |             | 0.00 |             | 0.01 |             | 0.01 |
| <b>UNPG82</b>                  | <b>0.06</b>         | 1.02 | <b>0.23</b> | 1.37 | <b>0.27</b> | 1.25 | <b>0.22</b> | 1.16 |
|                                |                     | 0.01 |             | 0.01 |             | 0.01 |             | 0.02 |
| <b>Grand Median</b>            | 0.068               |      | 0.23        |      | 0.26        |      | 0.23        |      |
| <b>Median Abs Dev</b>          |                     |      |             |      |             |      |             |      |
| <b>Avg Within Lab SD</b>       | 0.006               |      | 0.01        |      | 0.01        |      | 0.01        |      |
| <b>Labs Included</b>           | 2                   |      | 2           |      | 2           |      | 2           |      |
| <b>Labs Reporting</b>          | 2                   |      | 2           |      | 2           |      | 2           |      |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 |       |      |
|---------------------|--------------------------------------|-------|------|-------------|-------|------|-------------|-------|------|---------------------|-------|------|
|                     | SRBSRB1601                           |       |      | SRBSRB1602  |       |      | SRBSRB1603  |       |      |                     |       |      |
| YAA32W              | <b>0.12</b>                          | 0.36  | 0.05 | <b>0.21</b> | 0.62  | 0.15 | <b>0.31</b> | 1.20  | 0.23 | <b>0.43</b>         | 1.33  | 0.33 |
|                     |                                      | 0.01  | 0.00 |             | 0.01  | 0.00 |             | 0.04  | 0.00 |                     | 0.05  | 0.01 |
| AAUKBK              | <b>0.13</b>                          | 0.98  | 0.00 | <b>0.22</b> | 1.05  | 0.23 | <b>0.30</b> | 0.82  | 0.55 | <b>0.40</b>         | 0.61  | 0.50 |
|                     |                                      | 0.01  | 0.00 |             | 0.02  | 0.00 |             | 0.02  | 0.01 |                     | 0.02  | 0.01 |
| GZ63WD              | <b>0.11</b>                          | 0.00  | 0.55 | <b>0.19</b> | -0.46 | 0.81 | <b>0.27</b> | -0.25 | 0.87 | <b>0.36</b>         | -0.47 | 0.92 |
|                     |                                      | 0.00  | 0.01 |             | -0.01 | 0.01 |             | -0.01 | 0.01 |                     | -0.02 | 0.02 |
| CJTVUF              | <b>0.13</b>                          | 1.13  | 0.24 | <b>0.23</b> | 1.37  | 1.30 | <b>0.31</b> | 1.14  | 1.20 | <b>0.42</b>         | 1.12  | 0.64 |
|                     |                                      | 0.02  | 0.00 |             | 0.03  | 0.01 |             | 0.03  | 0.01 |                     | 0.04  | 0.01 |
| 83L8FJ              | <b>0.13</b>                          | 1.17  | 0.25 | <b>0.22</b> | 0.92  | 0.73 | <b>0.32</b> | 1.27  | 0.46 | <b>0.42</b>         | 1.16  | 0.49 |
|                     |                                      | 0.02  | 0.00 |             | 0.02  | 0.01 |             | 0.04  | 0.01 |                     | 0.05  | 0.01 |
| GBLMGA              | <b>0.12</b>                          | 0.75  | 0.15 | <b>0.18</b> | -0.73 | 0.24 | <b>0.27</b> | -0.41 | 0.28 | <b>0.35</b>         | -0.55 | 0.24 |
|                     |                                      | 0.01  | 0.00 |             | -0.02 | 0.00 |             | -0.01 | 0.00 |                     | -0.02 | 0.00 |
| 2GK3BP              | <b>0.11</b>                          | -0.53 | 0.57 | <b>0.18</b> | -0.62 | 0.29 | <b>0.27</b> | -0.28 | 0.26 | <b>0.36</b>         | -0.34 | 0.30 |
|                     |                                      | -0.01 | 0.01 |             | -0.01 | 0.00 |             | -0.01 | 0.00 |                     | -0.01 | 0.00 |
| 33JQFQ              | <b>0.11</b>                          | -0.22 | 0.00 | <b>0.18</b> | -0.78 | 0.00 | <b>0.27</b> | -0.36 | 0.50 | <b>0.34</b>         | -0.81 | 0.35 |
|                     |                                      | 0.00  | 0.00 |             | -0.02 | 0.00 |             | -0.01 | 0.01 |                     | -0.03 | 0.01 |
| 9JP2MJ              | <b>0.10</b>                          | -0.66 | 2.39 | <b>0.20</b> | 0.01  | 2.14 | <b>0.29</b> | 0.32  | 1.32 | <b>0.33</b>         | -1.24 | 2.44 |
|                     |                                      | -0.01 | 0.03 |             | 0.00  | 0.02 |             | 0.01  | 0.02 |                     | -0.05 | 0.04 |
| PFR9KY              | <b>0.13</b>                          | 0.95  | 0.48 | <b>0.20</b> | -0.01 | 0.93 | <b>0.28</b> | 0.15  | 1.03 | <b>0.38</b>         | 0.23  | 1.15 |
|                     |                                      | 0.01  | 0.01 |             | 0.00  | 0.01 |             | 0.00  | 0.01 |                     | 0.01  | 0.02 |
| J42726              | <b>0.11</b>                          | -0.44 | 0.55 | <b>0.18</b> | -0.78 | 0.00 | <b>0.27</b> | -0.14 | 0.50 | <b>0.36</b>         | -0.30 | 0.35 |
|                     |                                      | -0.01 | 0.01 |             | -0.02 | 0.00 |             | 0.00  | 0.01 |                     | -0.01 | 0.01 |
| WGX7VT              | <b>0.11</b>                          | 0.00  | 0.55 | <b>0.20</b> | 0.16  | 0.00 | <b>0.28</b> | -0.02 | 0.50 | <b>0.36</b>         | -0.38 | 0.60 |
|                     |                                      | 0.00  | 0.01 |             | 0.00  | 0.00 |             | 0.00  | 0.01 |                     | -0.01 | 0.01 |
| RMZ998              | <b>0.11</b>                          | -0.44 | 0.55 | <b>0.18</b> | -0.93 | 1.62 | <b>0.27</b> | -0.25 | 0.87 | <b>0.38</b>         | 0.05  | 0.70 |
|                     |                                      | -0.01 | 0.01 |             | -0.02 | 0.01 |             | -0.01 | 0.01 |                     | 0.00  | 0.01 |
| LZMPAC              | <b>0.12</b>                          | 0.66  | 1.10 | <b>0.19</b> | -0.15 | 0.81 | <b>0.29</b> | 0.43  | 0.00 | <b>0.39</b>         | 0.39  | 0.60 |
|                     |                                      | 0.01  | 0.01 |             | 0.00  | 0.01 |             | 0.01  | 0.00 |                     | 0.02  | 0.01 |
| BMDAYP              | <b>0.10</b>                          | -0.99 | 0.27 | <b>0.17</b> | -1.09 | 1.62 | <b>0.24</b> | -1.26 | 0.87 | <b>0.33</b>         | -1.15 | 1.21 |
|                     |                                      | -0.02 | 0.00 |             | -0.02 | 0.01 |             | -0.04 | 0.01 |                     | -0.04 | 0.02 |
| BE38DN              | <b>0.11</b>                          | -0.20 | 0.55 | <b>0.19</b> | -0.40 | 0.28 | <b>0.27</b> | -0.12 | 0.10 | <b>0.37</b>         | -0.06 | 0.09 |
|                     |                                      | 0.00  | 0.01 |             | -0.01 | 0.00 |             | 0.00  | 0.00 |                     | 0.00  | 0.00 |
| GAPFPH              | <b>0.11</b>                          | -0.38 | 0.15 | <b>0.18</b> | -0.95 | 0.93 | <b>0.25</b> | -0.82 | 1.15 | <b>0.38</b>         | 0.04  | 0.72 |
|                     |                                      | -0.01 | 0.00 |             | -0.02 | 0.01 |             | -0.02 | 0.01 |                     | 0.00  | 0.01 |
| T84DB7              | <b>0.15</b>                          | 2.16  | 0.45 | <b>0.24</b> | 1.81  | 1.16 | <b>0.36</b> | 2.80  | 0.31 | <b>0.46</b>         | 2.21  | 1.42 |
|                     |                                      | 0.03  | 0.00 |             | 0.04  | 0.01 |             | 0.08  | 0.00 |                     | 0.09  | 0.02 |
| TNQUE3              | <b>0.11</b>                          | 0.00  | 0.55 | <b>0.20</b> | 0.01  | 0.81 | <b>0.28</b> | -0.02 | 0.50 | <b>0.37</b>         | -0.21 | 0.35 |
|                     |                                      | 0.00  | 0.01 |             | 0.00  | 0.01 |             | 0.00  | 0.01 |                     | -0.01 | 0.01 |
| PWWNK7              | <b>0.13</b>                          | 1.10  |      | <b>0.21</b> | 0.63  |      | <b>0.30</b> | 0.77  |      | <b>0.42</b>         | 1.16  | 0.35 |
|                     |                                      | 0.02  | 0.00 |             | 0.01  | 0.00 |             | 0.02  | 0.00 |                     | 0.05  | 0.00 |



## ALP Program - Participant Web Summary Report - Cycle 29

|                          | 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>2WG8UU</b>            | <b>0.11</b>        | 0.08    | 0.36    | <b>0.19</b>        | -0.45   | 0.73    | <b>0.27</b>        | -0.20   | 1.17    | <b>0.36</b> | -0.29 | 1.54 |
|                          |                    | 0.00    | 0.00    |                    | -0.01   | 0.01    |                    | -0.01   | 0.01    |             | -0.01 | 0.03 |
| <b>8CMGZN</b>            | <b>0.11</b>        | 0.00    | 0.55    | <b>0.20</b>        | 0.16    | 1.40    | <b>0.27</b>        | -0.11   | 0.09    | <b>0.35</b> | -0.67 | 0.09 |
|                          |                    | 0.00    | 0.01    |                    | 0.00    | 0.01    |                    | 0.00    | 0.00    |             | -0.03 | 0.00 |
| <b>CPEWRJ</b>            | <b>0.14</b>        | 1.82    | 1.12    | <b>0.22</b>        | 1.30    | 1.39    | <b>0.32</b>        | 1.31    | 0.29    | <b>0.42</b> | 1.24  | 2.47 |
|                          |                    | 0.03    | 0.01    |                    | 0.03    | 0.01    |                    | 0.04    | 0.00    |             | 0.05  | 0.04 |
| <b>VBVLAX</b>            | <b>0.12</b>        | 0.44    | 0.95    | <b>0.21</b>        | 0.48    | 1.62    | <b>0.29</b>        | 0.54    | 3.50    | <b>0.42</b> | 1.16  | 2.09 |
|                          |                    | -0.01   | 0.01    |                    | 0.01    | 0.01    |                    | 0.02    | 0.04    |             | 0.05  | 0.03 |
| <b>AM2DUK</b>            | <b>0.10</b>        | -0.95   | 0.16    | <b>0.18</b>        | -0.78   | 1.40    | <b>0.27</b>        | -0.36   | 0.50    | <b>0.35</b> | -0.64 | 0.60 |
|                          |                    | -0.01   | 0.00    |                    | -0.02   | 0.01    |                    | -0.01   | 0.01    |             | -0.02 | 0.01 |
| <b>XHNEVW</b>            | <b>0.13</b>        | 1.33    | 0.27    | <b>0.22</b>        | 1.08    | 0.27    | <b>0.32</b>        | 1.28    | 0.11    | <b>0.41</b> | 0.97  | 0.16 |
|                          |                    | 0.02    | 0.00    |                    | 0.02    | 0.00    |                    | 0.04    | 0.00    |             | 0.04  | 0.00 |
| <b>WYZRCU</b>            | <b>0.09</b>        | -1.33   | 4.56    | <b>0.19</b>        | -0.18   | 1.02    | <b>0.28</b>        | 0.02    | 2.77    | <b>0.38</b> | 0.12  | 1.71 |
|                          |                    | -0.02   | 0.05    |                    | 0.00    | 0.01    |                    | 0.00    | 0.03    |             | 0.00  | 0.03 |
|                          | <b>0.11</b>        | -0.42   | 0.67    | <b>0.18</b>        | -0.71   | 0.65    | <b>0.27</b>        | -0.39   | 0.28    | <b>0.35</b> | -0.69 | 0.85 |
|                          |                    | -0.01   | 0.01    |                    | -0.02   | 0.00    |                    | -0.01   | 0.00    |             | -0.03 | 0.01 |
| <b>BHL3GF</b>            | <b>0.11</b>        | 0.00    | 0.11    | <b>0.20</b>        | 0.02    | 1.10    | <b>0.28</b>        | -0.02   | 0.81    | <b>0.37</b> | -0.24 | 0.55 |
|                          |                    | 0.00    | 0.00    |                    | 0.00    | 0.01    |                    | 0.00    | 0.01    |             | -0.01 | 0.01 |
| <b>MZGWVZ</b>            | <b>0.11</b>        | -0.22   | 0.95    | <b>0.18</b>        | -0.78   | 1.40    | <b>0.23</b>        | -1.60   | 0.87    | <b>0.33</b> | -1.24 | 0.70 |
|                          |                    | 0.00    | 0.01    |                    | -0.02   | 0.01    |                    | -0.05   | 0.01    |             | -0.05 | 0.01 |
| <b>DNM26B</b>            | <b>0.13</b>        | 1.15    | 0.40    | <b>0.23</b>        | 1.70    | 0.32    | <b>0.33</b>        | 1.62    | 0.58    | <b>0.42</b> | 1.08  | 0.42 |
|                          |                    | 0.02    | 0.00    |                    | 0.04    | 0.00    |                    | 0.05    | 0.01    |             | 0.04  | 0.01 |
| <b>6K828H</b>            | <b>0.11</b>        | 0.00    | 0.55    | <b>0.19</b>        | -0.15   | 0.81    | <b>0.29</b>        | 0.32    | 0.50    | <b>0.37</b> | -0.04 | 0.35 |
|                          |                    | 0.00    | 0.01    |                    | 0.00    | 0.01    |                    | 0.01    | 0.01    |             | 0.00  | 0.01 |
| <b>ZZZ3WM</b>            | <b>0.13</b>        | 1.41    | 0.96    | <b>0.21</b>        | 0.67    | 1.63    | <b>0.29</b>        | 0.37    | 1.34    | <b>0.39</b> | 0.27  | 1.42 |
|                          |                    | 0.02    | 0.01    |                    | 0.01    | 0.01    |                    | 0.01    | 0.02    |             | 0.01  | 0.02 |
| <b>PHEWWY</b>            | <b>0.13</b>        | 1.10    |         | <b>0.22</b>        | 1.11    |         | <b>0.32</b>        | 1.44    |         | <b>0.40</b> | 0.65  | 1.42 |
|                          |                    | 0.02    | 0.00    |                    | 0.02    | 0.00    |                    | 0.04    | 0.00    |             | 0.03  | 0.00 |
| <b>J6NUD7</b>            | <b>0.11</b>        | -0.22   | 0.00    | <b>0.18</b>        | -0.62   | 0.81    | <b>0.26</b>        | -0.59   | 0.87    | <b>0.36</b> | -0.38 | 1.05 |
|                          |                    | 0.00    | 0.00    |                    | -0.01   | 0.01    |                    | -0.02   | 0.01    |             | -0.01 | 0.02 |
| <b>TRP93T</b>            | <b>0.12</b>        | 0.66    | 0.31    | <b>0.21</b>        | 0.63    | 0.88    | <b>0.31</b>        | 1.26    | 0.22    | <b>0.41</b> | 0.81  | 0.09 |
|                          |                    | 0.01    | 0.00    |                    | 0.01    | 0.01    |                    | 0.04    | 0.00    |             | 0.03  | 0.00 |
| <b>Grand Median</b>      |                    | 0.11    |         |                    | 0.20    |         |                    | 0.28    |         |             | 0.37  |      |
| <b>Median Abs Dev</b>    |                    | 0.01    |         |                    | 0.01    |         |                    | 0.01    |         |             | 0.02  |      |
| <b>Avg Within Lab SD</b> |                    | 0.01    |         |                    | 0.01    |         |                    | 0.01    |         |             | 0.02  |      |
| <b>Labs Included</b>     |                    | 36      |         |                    | 36      |         |                    | 36      |         |             | 36    |      |
| <b>Labs Reporting</b>    |                    | 36      |         |                    | 36      |         |                    | 36      |         |             | 36    |      |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 |       |      |
|---------------------|--------------------------------------|-------|------|------------|-------|------|------------|-------|------|---------------------|-------|------|
|                     | SRBSRB1601                           |       |      | SRBSRB1602 |       |      | SRBSRB1603 |       |      |                     |       |      |
| YAA32W              | 2.95                                 | 1.00  | 0.08 | 2.21       | 0.60  | 0.40 | 3.13       | 0.91  | 0.15 | 1.82                | 0.19  | 0.08 |
|                     |                                      | 0.34  | 0.02 |            | 0.15  | 0.03 |            | 0.26  | 0.02 |                     | 0.03  | 0.01 |
| AAUKBK              | 2.86                                 | 0.74  | 0.26 | 2.29       | 0.93  | 0.22 | 3.08       | 0.72  | 0.26 | 1.91                | 0.76  | 0.40 |
|                     |                                      | 0.25  | 0.05 |            | 0.23  | 0.02 |            | 0.20  | 0.03 |                     | 0.12  | 0.03 |
| GZ63WD              | 2.55                                 | -0.17 | 0.81 | 2.01       | -0.22 | 1.51 | 2.79       | -0.30 | 1.26 | 1.68                | -0.68 | 1.29 |
|                     |                                      | -0.06 | 0.17 |            | -0.05 | 0.13 |            | -0.08 | 0.16 |                     | -0.11 | 0.11 |
| CJTVUF              | 2.72                                 | 0.32  | 0.38 | 2.25       | 0.79  | 2.83 | 3.00       | 0.42  | 0.40 | 1.88                | 0.58  | 0.37 |
|                     |                                      | 0.11  | 0.08 |            | 0.19  | 0.24 |            | 0.12  | 0.05 |                     | 0.09  | 0.03 |
| 83L8FJ              | 2.77                                 | 0.49  | 0.28 | 2.10       | 0.18  | 0.18 | 2.97       | 0.34  | 0.59 | 1.93                | 0.91  | 1.05 |
|                     |                                      | 0.17  | 0.06 |            | 0.04  | 0.02 |            | 0.10  | 0.08 |                     | 0.15  | 0.09 |
| GBLMGA              | 2.70                                 | 0.26  | 0.01 | 1.70       | -1.46 | 0.29 | 2.53       | -1.23 | 0.09 | 1.62                | -1.01 | 0.16 |
|                     |                                      | 0.09  | 0.00 |            | -0.36 | 0.02 |            | -0.35 | 0.01 |                     | -0.16 | 0.01 |
| 2GK3BP              | 2.48                                 | -0.38 | 0.52 | 2.07       | 0.05  | 0.76 | 2.88       | 0.00  | 0.20 | 1.82                | 0.21  | 0.88 |
|                     |                                      | -0.13 | 0.11 |            | 0.01  | 0.06 |            | 0.00  | 0.03 |                     | 0.03  | 0.07 |
| 33JQFQ              | 2.32                                 | -0.85 | 0.46 | 1.80       | -1.08 | 0.81 | 2.47       | -1.45 | 0.28 | 1.58                | -1.26 | 0.35 |
|                     |                                      | -0.29 | 0.10 |            | -0.26 | 0.07 |            | -0.41 | 0.04 |                     | -0.20 | 0.03 |
| 9JP2MJ              | 2.42                                 | -0.53 | 0.55 | 2.36       | 1.24  | 1.66 | 3.06       | 0.64  | 1.26 | 1.78                | -0.02 | 1.62 |
|                     |                                      | -0.18 | 0.11 |            | 0.30  | 0.14 |            | 0.18  | 0.16 |                     | 0.00  | 0.13 |
| PFR9KY              | 2.51                                 | -0.27 | 0.29 | 2.02       | -0.16 | 0.72 | 2.71       | -0.59 | 0.80 | 1.73                | -0.37 | 1.16 |
|                     |                                      | -0.09 | 0.06 |            | -0.04 | 0.06 |            | -0.17 | 0.10 |                     | -0.06 | 0.10 |
| J42726              | 2.37                                 | -0.68 | 0.23 | 1.94       | -0.49 | 0.36 | 2.73       | -0.52 | 0.24 | 1.69                | -0.58 | 0.25 |
|                     |                                      | -0.23 | 0.05 |            | -0.12 | 0.03 |            | -0.15 | 0.03 |                     | -0.09 | 0.02 |
| WGX7VT              | 2.59                                 | -0.05 | 0.13 | 1.99       | -0.27 | 0.07 | 2.96       | 0.31  | 0.12 | 1.77                | -0.08 | 0.07 |
|                     |                                      | -0.02 | 0.03 |            | -0.07 | 0.01 |            | 0.09  | 0.02 |                     | -0.01 | 0.01 |
| RMZ998              | 2.61                                 | 0.00  | 0.56 | 2.03       | -0.12 | 1.76 | 2.85       | -0.08 | 0.98 | 1.80                | 0.08  | 0.85 |
|                     |                                      | 0.00  | 0.12 |            | -0.03 | 0.15 |            | -0.02 | 0.13 |                     | 0.01  | 0.07 |
| LZMPAC              | 2.77                                 | 0.47  | 0.78 | 2.12       | 0.23  | 0.34 | 2.99       | 0.41  | 0.09 | 1.88                | 0.56  | 0.39 |
|                     |                                      | 0.16  | 0.16 |            | 0.06  | 0.03 |            | 0.12  | 0.01 |                     | 0.09  | 0.03 |
| BMDAYP              | 1.87                                 | -2.16 | 1.47 | 1.63       | -1.75 | 0.69 | 2.40       | -1.69 | 0.00 | 1.53                | -1.57 | 0.70 |
|                     |                                      | -0.74 | 0.31 |            | -0.43 | 0.06 |            | -0.48 | 0.00 |                     | -0.25 | 0.06 |
| BE38DN              | 2.58                                 | -0.07 | 0.40 | 1.94       | -0.49 | 0.12 | 2.75       | -0.45 | 0.27 | 1.79                | 0.00  | 0.07 |
|                     |                                      | -0.02 | 0.08 |            | -0.12 | 0.01 |            | -0.13 | 0.03 |                     | 0.00  | 0.01 |
| GAPFPH              | 2.98                                 | 1.07  | 1.19 | 1.88       | -0.75 | 1.29 | 2.83       | -0.17 | 0.52 | 1.87                | 0.51  | 0.67 |
|                     |                                      | 0.37  | 0.25 |            | -0.18 | 0.11 |            | -0.05 | 0.07 |                     | 0.08  | 0.06 |
| T84DB7              | 3.06                                 | 1.32  | 0.88 | 2.32       | 1.07  | 0.46 | 3.27       | 1.38  | 0.24 | 2.03                | 1.53  | 0.12 |
|                     |                                      | 0.45  | 0.18 |            | 0.26  | 0.04 |            | 0.39  | 0.03 |                     | 0.25  | 0.01 |
| TNQUE3              | 2.59                                 | -0.04 | 0.17 | 1.99       | -0.27 | 0.54 | 2.77       | -0.39 | 0.39 | 1.71                | -0.48 | 0.00 |
|                     |                                      | -0.01 | 0.04 |            | -0.07 | 0.05 |            | -0.11 | 0.05 |                     | -0.08 | 0.00 |
| PWWNK7              | 2.75                                 | 0.42  |      | 2.06       | 0.00  |      | 2.83       | -0.17 |      | 1.88                | 0.58  | 0.00 |
|                     |                                      | 0.14  | 0.00 |            | 0.00  | 0.00 |            | -0.05 | 0.00 |                     | 0.09  | 0.00 |



## ALP Program - Participant Web Summary Report - Cycle 29

|                          | 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>2WG8UU</b>            | <b>2.76</b>        | 0.45    | 0.09    | <b>2.10</b>        | 0.18    | 0.38    | <b>2.97</b>        | 0.32    | 0.78    | <b>1.84</b> | 0.31  | 0.24 |
|                          |                    | 0.15    | 0.02    |                    | 0.04    | 0.03    |                    | 0.09    | 0.10    |             | 0.05  | 0.02 |
| <b>8CMGZN</b>            | <b>3.05</b>        | 1.29    | 0.22    | <b>2.51</b>        | 1.84    | 0.36    | <b>3.18</b>        | 1.06    | 0.18    | <b>1.92</b> | 0.85  | 0.37 |
|                          |                    | 0.44    | 0.05    |                    | 0.45    | 0.03    |                    | 0.30    | 0.02    |             | 0.14  | 0.03 |
| <b>CPEWRJ</b>            | <b>2.69</b>        | 0.23    | 1.00    | <b>2.08</b>        | 0.07    | 0.86    | <b>2.89</b>        | 0.03    | 0.21    | <b>1.68</b> | -0.64 | 1.69 |
|                          |                    | 0.08    | 0.21    |                    | 0.02    | 0.07    |                    | 0.01    | 0.03    |             | -0.10 | 0.14 |
| <b>VBVLAX</b>            | <b>2.52</b>        | -0.26   | 0.91    | <b>1.97</b>        | -0.38   | 1.27    | <b>2.51</b>        | -1.29   | 2.05    | <b>1.70</b> | -0.54 | 1.04 |
|                          |                    | -0.09   | 0.19    |                    | -0.09   | 0.11    |                    | -0.36   | 0.26    |             | -0.09 | 0.09 |
| <b>AM2DUK</b>            | <b>2.40</b>        | -0.60   | 0.84    | <b>2.00</b>        | -0.25   | 1.19    | <b>2.80</b>        | -0.27   | 0.78    | <b>1.77</b> | -0.12 | 1.40 |
|                          |                    | -0.21   | 0.17    |                    | -0.06   | 0.10    |                    | -0.08   | 0.10    |             | -0.02 | 0.12 |
| <b>XHNEVW</b>            | <b>3.18</b>        | 1.67    | 0.21    | <b>2.31</b>        | 1.02    | 0.41    | <b>3.23</b>        | 1.27    | 0.13    | <b>2.02</b> | 1.48  | 0.20 |
|                          |                    | 0.57    | 0.04    |                    | 0.25    | 0.03    |                    | 0.36    | 0.02    |             | 0.24  | 0.02 |
| <b>WYZRCU</b>            | <b>2.22</b>        | -1.14   | 4.76    | <b>1.94</b>        | -0.48   | 0.70    | <b>2.73</b>        | -0.52   | 2.01    | <b>1.78</b> | -0.04 | 1.69 |
|                          |                    | -0.39   | 0.99    |                    | -0.12   | 0.06    |                    | -0.15   | 0.26    |             | -0.01 | 0.14 |
|                          | <b>2.50</b>        | -0.31   | 0.54    | <b>1.71</b>        | -1.44   | 0.54    | <b>2.79</b>        | -0.30   | 1.90    | <b>1.75</b> | -0.25 | 1.34 |
|                          |                    | -0.11   | 0.11    |                    | -0.35   | 0.05    |                    | -0.08   | 0.24    |             | -0.04 | 0.11 |
| <b>BHL3GF</b>            | <b>2.54</b>        | -0.18   | 0.27    | <b>1.97</b>        | -0.36   | 1.42    | <b>2.66</b>        | -0.77   | 0.75    | <b>1.70</b> | -0.52 | 0.19 |
|                          |                    | -0.06   | 0.06    |                    | -0.09   | 0.12    |                    | -0.22   | 0.10    |             | -0.08 | 0.02 |
| <b>MZGWVZ</b>            | <b>1.76</b>        | -2.47   | 0.59    | <b>1.47</b>        | -2.41   | 1.39    | <b>1.52</b>        | -4.80   | 2.60    | <b>1.10</b> | -4.27 | 0.56 |
|                          |                    | -0.85   | 0.12    |                    | -0.59   | 0.12    |                    | -1.35   | 0.33    |             | -0.69 | 0.05 |
| <b>DNM26B</b>            | <b>2.94</b>        | 0.96    | 0.39    | <b>2.29</b>        | 0.94    | 0.21    | <b>3.13</b>        | 0.90    | 0.75    | <b>1.92</b> | 0.83  | 0.92 |
|                          |                    | 0.33    | 0.08    |                    | 0.23    | 0.02    |                    | 0.25    | 0.10    |             | 0.13  | 0.08 |
| <b>6K828H</b>            | <b>2.49</b>        | -0.35   | 0.32    | <b>2.16</b>        | 0.42    | 0.54    | <b>2.97</b>        | 0.32    | 0.43    | <b>1.70</b> | -0.56 | 1.13 |
|                          |                    | -0.12   | 0.07    |                    | 0.10    | 0.05    |                    | 0.09    | 0.06    |             | -0.09 | 0.09 |
| <b>ZZZ3WM</b>            | <b>3.21</b>        | 1.76    | 1.24    | <b>2.41</b>        | 1.43    | 2.29    | <b>3.11</b>        | 0.83    | 3.66    | <b>2.01</b> | 1.40  | 3.38 |
|                          |                    | 0.60    | 0.26    |                    | 0.35    | 0.19    |                    | 0.23    | 0.47    |             | 0.23  | 0.28 |
| <b>PHEWWY</b>            | <b>3.26</b>        | 1.90    |         | <b>2.60</b>        | 2.22    |         | <b>3.58</b>        | 2.49    |         | <b>2.23</b> | 2.75  | 3.38 |
|                          |                    | 0.65    | 0.00    |                    | 0.54    | 0.00    |                    | 0.70    | 0.00    |             | 0.44  | 0.00 |
| <b>J6NUD7</b>            | <b>2.88</b>        | 0.81    | 0.36    | <b>2.14</b>        | 0.31    | 0.96    | <b>3.06</b>        | 0.64    | 0.94    | <b>1.91</b> | 0.79  | 0.83 |
|                          |                    | 0.28    | 0.07    |                    | 0.08    | 0.08    |                    | 0.18    | 0.12    |             | 0.13  | 0.07 |
| <b>TRP93T</b>            | <b>2.75</b>        | 0.42    | 0.25    | <b>2.08</b>        | 0.10    | 0.60    | <b>3.00</b>        | 0.43    | 0.39    | <b>1.87</b> | 0.54  | 0.35 |
|                          |                    | 0.14    | 0.05    |                    | 0.02    | 0.05    |                    | 0.12    | 0.05    |             | 0.09  | 0.03 |
| <b>Grand Median</b>      |                    | 2.61    |         |                    | 2.06    |         |                    | 2.88    |         |             | 1.79  |      |
| <b>Median Abs Dev</b>    |                    | 0.16    |         |                    | 0.12    |         |                    | 0.15    |         |             | 0.09  |      |
| <b>Avg Within Lab SD</b> |                    | 0.21    |         |                    | 0.08    |         |                    | 0.13    |         |             | 0.08  |      |
| <b>Labs Included</b>     |                    | 35      |         |                    | 35      |         |                    | 35      |         |             | 35    |      |
| <b>Labs Reporting</b>    |                    | 35      |         |                    | 35      |         |                    | 35      |         |             | 35    |      |





## ALP Program - Participant Web Summary Report - Cycle 29

| 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) <span style="float: right;">Data units: Percent</span> |             |       |      |             |       |      |             |       |      |             |       |      |
|---|-------------|-------|------|-------------|-------|------|-------------|-------|------|-------------|-------|------|
|   | SRBSRB1601  |       |      | SRBSRB1602  |       |      | SRBSRB1603  |       |      |             |       |      |
| <b>YAA32W</b>   | <b>0.15</b> | 0.19  | 0.29 | <b>3.54</b> | 0.93  | 0.22 | <b>1.85</b> | 0.73  | 0.51 | <b>0.49</b> | 0.51  | 0.75 |
|   |             | 0.01  | 0.00 |             | 0.37  | 0.03 |             | 0.14  | 0.04 |             | 0.03  | 0.01 |
| <b>AAUKBK</b>   | <b>0.15</b> | 0.24  | 0.29 | <b>3.41</b> | 0.60  | 0.14 | <b>1.78</b> | 0.37  | 0.55 | <b>0.49</b> | 0.51  | 0.62 |
|   |             | 0.01  | 0.00 |             | 0.24  | 0.02 |             | 0.07  | 0.04 |             | 0.03  | 0.01 |
| <b>GZ63WD</b>   | <b>0.16</b> | 0.39  | 0.44 | <b>2.99</b> | -0.44 | 0.29 | <b>1.63</b> | -0.40 | 0.21 | <b>0.45</b> | -0.13 | 0.33 |
|   |             | 0.01  | 0.01 |             | -0.18 | 0.04 |             | -0.08 | 0.02 |             | -0.01 | 0.01 |
| <b>CJTVUF</b>   | <b>0.16</b> | 0.53  | 0.23 | <b>3.83</b> | 1.65  | 3.84 | <b>1.83</b> | 0.67  | 0.36 | <b>0.51</b> | 0.80  | 2.31 |
|   |             | 0.02  | 0.00 |             | 0.66  | 0.50 |             | 0.13  | 0.03 |             | 0.05  | 0.04 |
| <b>83L8FJ</b>   | <b>0.15</b> | 0.30  | 1.11 | <b>3.17</b> | 0.01  | 0.35 | <b>1.70</b> | 0.00  | 0.55 | <b>0.48</b> | 0.35  | 0.56 |
|   |             | 0.01  | 0.01 |             | 0.00  | 0.05 |             | 0.00  | 0.04 |             | 0.02  | 0.01 |
| <b>GBLMGA</b>   | <b>0.13</b> | -0.56 | 0.00 | <b>2.32</b> | -2.14 | 0.26 | <b>1.24</b> | -2.38 | 0.63 | <b>0.39</b> | -1.16 | 0.35 |
|   |             | -0.02 | 0.00 |             | -0.85 | 0.03 |             | -0.46 | 0.05 |             | -0.07 | 0.01 |
| <b>2GK3BP</b>   | <b>0.16</b> | 0.50  | 1.33 | <b>2.92</b> | -0.62 | 0.04 | <b>1.73</b> | 0.15  | 0.28 | <b>0.52</b> | 1.00  | 0.33 |
|   |             | 0.02  | 0.02 |             | -0.25 | 0.01 |             | 0.03  | 0.02 |             | 0.06  | 0.01 |
| <b>33JQFQ</b>   | <b>0.21</b> | 2.15  | 0.77 | <b>2.95</b> | -0.56 | 0.31 | <b>1.65</b> | -0.30 | 0.34 | <b>0.52</b> | 0.95  | 1.53 |
|   |             | 0.07  | 0.01 |             | -0.22 | 0.04 |             | -0.06 | 0.03 |             | 0.06  | 0.03 |
| <b>9JP2MJ</b>   | <b>0.15</b> | 0.28  | 1.93 | <b>3.50</b> | 0.84  | 0.80 | <b>1.88</b> | 0.92  | 1.13 | <b>0.43</b> | -0.56 | 1.77 |
|   |             | 0.01  | 0.03 |             | 0.33  | 0.10 |             | 0.18  | 0.08 |             | -0.03 | 0.03 |
| <b>PFR9KY</b>   | <b>0.19</b> | 1.44  | 0.39 | <b>3.25</b> | 0.21  | 1.60 | <b>1.71</b> | 0.03  | 1.10 | <b>0.54</b> | 1.30  | 1.03 |
|   |             | 0.04  | 0.01 |             | 0.08  | 0.21 |             | 0.01  | 0.08 |             | 0.08  | 0.02 |
| <b>J42726</b>   | <b>0.12</b> | -0.82 | 0.00 | <b>2.98</b> | -0.48 | 0.12 | <b>1.61</b> | -0.50 | 0.54 | <b>0.43</b> | -0.45 | 0.33 |
|   |             | -0.02 | 0.00 |             | -0.19 | 0.02 |             | -0.10 | 0.04 |             | -0.03 | 0.01 |
| <b>WGX7VT</b>   | <b>0.15</b> | 0.06  | 0.44 | <b>3.17</b> | 0.00  | 0.08 | <b>1.77</b> | 0.34  | 0.13 | <b>0.46</b> | 0.03  | 0.67 |
|   |             | 0.00  | 0.01 |             | 0.00  | 0.01 |             | 0.07  | 0.01 |             | 0.00  | 0.01 |
| <b>RMZ998</b>   | <b>0.15</b> | 0.28  | 0.44 | <b>3.19</b> | 0.06  | 1.58 | <b>1.73</b> | 0.15  | 1.21 | <b>0.48</b> | 0.36  | 0.88 |
|   |             | 0.01  | 0.01 |             | 0.02  | 0.21 |             | 0.03  | 0.09 |             | 0.02  | 0.02 |
| <b>LZMPAC</b>   | <b>0.16</b> | 0.39  | 0.44 | <b>3.42</b> | 0.63  | 0.63 | <b>1.84</b> | 0.72  | 0.96 | <b>0.49</b> | 0.52  | 0.67 |
|   |             | 0.01  | 0.01 |             | 0.25  | 0.08 |             | 0.14  | 0.07 |             | 0.03  | 0.01 |
| <b>BMDAYP</b>   | <b>0.12</b> | -0.71 | 0.88 | <b>2.83</b> | -0.84 | 0.89 | <b>1.50</b> | -1.05 | 1.35 | <b>0.40</b> | -0.94 | 0.33 |
|   |             | -0.02 | 0.01 |             | -0.34 | 0.12 |             | -0.20 | 0.10 |             | -0.06 | 0.01 |
| <b>GAPFPH</b>   | <b>0.13</b> | -0.38 | 0.16 | <b>2.77</b> | -1.00 | 0.87 | <b>1.56</b> | -0.74 | 1.01 | <b>0.46</b> | 0.05  | 0.84 |
|   |             | -0.01 | 0.00 |             | -0.40 | 0.11 |             | -0.14 | 0.07 |             | 0.00  | 0.01 |
| <b>T84DB7</b>   | <b>0.18</b> | 1.30  | 0.63 | <b>4.01</b> | 2.11  | 0.90 | <b>2.22</b> | 2.67  | 0.24 | <b>0.61</b> | 2.37  | 0.30 |
|   |             | 0.04  | 0.01 |             | 0.84  | 0.12 |             | 0.52  | 0.02 |             | 0.15  | 0.01 |
| <b>TNQUE3</b>   | <b>0.15</b> | 0.06  | 0.88 | <b>2.98</b> | -0.48 | 0.65 | <b>1.72</b> | 0.10  | 0.74 | <b>0.45</b> | -0.24 | 0.33 |
|   |             | 0.00  | 0.01 |             | -0.19 | 0.08 |             | 0.02  | 0.06 |             | -0.01 | 0.01 |
| <b>PWWNK7</b>   | <b>0.14</b> | -0.16 |      | <b>3.26</b> | 0.23  |      | <b>1.62</b> | -0.43 |      | <b>0.46</b> | -0.02 | 0.33 |
|   |             | 0.00  | 0.00 |             | 0.09  | 0.00 |             | -0.08 | 0.00 |             | 0.00  | 0.00 |
| <b>2WG8UU</b>   | <b>0.09</b> | -1.74 | 0.79 | <b>3.09</b> | -0.20 | 0.99 | <b>1.65</b> | -0.29 | 1.43 | <b>0.38</b> | -1.29 | 0.70 |
|   |             | -0.05 | 0.01 |             | -0.08 | 0.13 |             | -0.06 | 0.11 |             | -0.08 | 0.01 |



## ALP Program - Participant Web Summary Report - Cycle 29

|                          | 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>8CMGZN</b>            | <b>0.13</b> | -0.65      | 0.16    | <b>3.10</b> | -0.17      | 0.18    | <b>1.65</b> | -0.27      | 0.56    | <b>0.40</b> | -0.91 | 0.39 |
| <b>CPEWRJ</b>            | <b>0.14</b> | -0.02      | 0.00    | <b>3.22</b> | -0.07      | 0.02    | <b>1.72</b> | -0.05      | 0.04    | <b>0.45</b> | -0.06 | 0.01 |
| <b>VBVLAX</b>            | <b>0.14</b> | -0.24      | 0.77    | <b>3.17</b> | 0.12       | 1.34    | <b>1.69</b> | 0.11       | 0.35    | <b>0.48</b> | -0.15 | 2.81 |
| <b>AM2DUK</b>            | <b>0.13</b> | -0.01      | 0.01    | <b>3.10</b> | 0.05       | 0.17    | <b>1.67</b> | 0.02       | 0.03    | <b>0.46</b> | -0.01 | 0.05 |
| <b>XHNEVW</b>            | <b>0.14</b> | -0.27      | 1.17    | <b>3.37</b> | -0.01      | 0.83    | <b>1.81</b> | -0.09      | 1.44    | <b>0.47</b> | 0.25  | 1.46 |
| <b>WYZRCU</b>            | <b>0.10</b> | -0.01      | 0.02    | <b>2.96</b> | 0.00       | 0.11    | <b>1.49</b> | -0.02      | 0.11    | <b>0.44</b> | 0.02  | 0.03 |
| <b>BHL3GF</b>            | <b>0.13</b> | -0.60      | 0.44    | <b>2.57</b> | -0.18      | 1.54    | <b>1.62</b> | -0.19      | 0.78    | <b>0.44</b> | -0.08 | 1.46 |
| <b>MZGWVZ</b>            | <b>0.14</b> | -0.02      | 0.01    | <b>2.98</b> | -0.07      | 0.20    | <b>1.49</b> | -0.04      | 0.06    | <b>0.40</b> | 0.00  | 0.03 |
| <b>DNM26B</b>            | <b>0.14</b> | 0.00       | 0.41    | <b>3.11</b> | 0.51       | 0.13    | <b>1.83</b> | 0.53       | 0.29    | <b>0.58</b> | 0.22  | 0.17 |
| <b>6K828H</b>            | <b>0.04</b> | 0.00       | 0.01    | <b>3.28</b> | 0.20       | 0.02    | <b>1.69</b> | 0.10       | 0.02    | <b>0.36</b> | 0.01  | 0.00 |
| <b>ZZZ3WM</b>            | <b>0.15</b> | -1.44      | 3.80    | <b>3.44</b> | -0.53      | 1.47    | <b>1.83</b> | -1.08      | 4.12    | <b>0.47</b> | -0.38 | 0.60 |
| <b>PHEWWY</b>            | <b>0.18</b> | -0.04      | 0.05    | <b>3.88</b> | -0.21      | 0.19    | <b>2.03</b> | -0.21      | 0.31    | <b>0.52</b> | -0.02 | 0.01 |
| <b>J6NUD7</b>            | <b>0.18</b> | -0.57      | 0.55    | <b>3.48</b> | -1.50      | 0.23    | <b>1.88</b> | -1.08      | 0.39    | <b>0.52</b> | -1.03 | 0.90 |
| <b>TRP93T</b>            | <b>0.13</b> | -0.02      | 0.01    | <b>3.27</b> | -0.60      | 0.03    | <b>1.77</b> | -0.21      | 0.03    | <b>0.46</b> | -0.06 | 0.02 |
|                          |             | -0.54      | 0.29    |             | -0.47      | 0.18    |             | -0.42      | 0.64    |             | -0.42 | 0.69 |
|                          |             | -0.02      | 0.00    |             | -0.19      | 0.02    |             | -0.08      | 0.05    |             | -0.03 | 0.01 |
|                          |             | -0.16      | 0.00    |             | -2.16      | 0.50    |             | -2.97      | 0.21    |             | -1.64 | 0.58 |
|                          |             | 0.00       | 0.00    |             | -0.86      | 0.07    |             | -0.58      | 0.02    |             | -0.10 | 0.01 |
|                          |             | -0.31      | 0.23    |             | -0.15      | 0.31    |             | -0.28      | 0.62    |             | -0.35 | 0.49 |
|                          |             | -0.01      | 0.00    |             | -0.06      | 0.04    |             | -0.05      | 0.05    |             | -0.02 | 0.01 |
|                          |             | -3.36      | 2.46    |             | 0.27       | 0.09    |             | -0.05      | 0.41    |             | -1.58 | 1.34 |
|                          |             | -0.10      | 0.03    |             | 0.11       | 0.01    |             | -0.01      | 0.03    |             | -0.10 | 0.02 |
|                          |             | 0.22       | 0.75    |             | 0.69       | 1.21    |             | 0.66       | 0.60    |             | 0.19  | 1.09 |
|                          |             | 0.01       | 0.01    |             | 0.27       | 0.16    |             | 0.13       | 0.04    |             | 0.01  | 0.02 |
|                          |             | 1.16       |         |             | 1.78       |         |             | 1.68       |         |             | 1.92  | 1.09 |
|                          |             | 0.04       | 0.00    |             | 0.71       | 0.00    |             | 0.33       | 0.00    |             | 0.12  | 0.00 |
|                          |             | 1.16       | 0.00    |             | 0.79       | 0.90    |             | 0.92       | 0.97    |             | 0.95  | 0.58 |
|                          |             | 0.04       | 0.00    |             | 0.31       | 0.12    |             | 0.18       | 0.07    |             | 0.06  | 0.01 |
|                          |             | -0.44      | 0.31    |             | 0.26       | 0.40    |             | 0.34       | 0.23    |             | 0.00  | 0.60 |
|                          |             | -0.01      | 0.00    |             | 0.10       | 0.05    |             | 0.07       | 0.02    |             | 0.00  | 0.01 |
| <b>Grand Median</b>      |             | 0.14       |         |             | 3.17       |         |             | 1.70       |         |             | 0.46  |      |
| <b>Median Abs Dev</b>    |             | 0.01       |         |             | 0.20       |         |             | 0.08       |         |             | 0.03  |      |
| <b>Avg Within Lab SD</b> |             | 0.01       |         |             | 0.13       |         |             | 0.07       |         |             | 0.02  |      |
| <b>Labs Included</b>     |             | 35         |         |             | 35         |         |             | 35         |         |             | 35    |      |
| <b>Labs Reporting</b>    |             | 35         |         |             | 35         |         |             | 35         |         |             | 35    |      |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 |       |      |
|----------------------|--------------------------------------|-------|------|-------------|-------|------|-------------|-------|------|---------------------|-------|------|
|                      | SRBSRB1601                           |       |      | SRBSRB1602  |       |      | SRBSRB1603  |       |      |                     |       |      |
| <b>YAA32W</b>        | <b>0.19</b>                          | 0.67  | 0.42 | <b>0.71</b> | 1.02  | 0.34 | <b>0.36</b> | 0.75  | 0.11 | <b>0.45</b>         | 0.68  | 0.09 |
|                      |                                      | 0.01  | 0.01 |             | 0.07  | 0.01 |             | 0.03  | 0.00 |                     | 0.03  | 0.00 |
| <b>AAUKBK</b>        | <b>0.22</b>                          | 1.68  | 0.09 | <b>0.73</b> | 1.40  | 0.54 | <b>0.37</b> | 0.95  | 0.44 | <b>0.45</b>         | 0.71  | 0.66 |
|                      |                                      | 0.04  | 0.00 |             | 0.10  | 0.01 |             | 0.03  | 0.01 |                     | 0.03  | 0.01 |
| <b>GZ63WD</b>        | <b>0.18</b>                          | -0.17 | 0.41 | <b>0.61</b> | -0.40 | 0.43 | <b>0.32</b> | -0.33 | 0.41 | <b>0.39</b>         | -0.72 | 0.61 |
|                      |                                      | 0.00  | 0.01 |             | -0.03 | 0.01 |             | -0.01 | 0.01 |                     | -0.03 | 0.01 |
| <b>CJTVUF</b>        | <b>0.21</b>                          | 1.37  | 0.18 | <b>0.75</b> | 1.64  | 1.07 | <b>0.38</b> | 1.28  | 0.56 | <b>0.47</b>         | 1.12  | 0.77 |
|                      |                                      | 0.03  | 0.00 |             | 0.11  | 0.02 |             | 0.05  | 0.01 |                     | 0.05  | 0.01 |
| <b>83L8FJ</b>        | <b>0.18</b>                          | 0.13  | 0.31 | <b>0.66</b> | 0.26  | 0.56 | <b>0.35</b> | 0.32  | 0.46 | <b>0.42</b>         | 0.11  | 0.19 |
|                      |                                      | 0.00  | 0.00 |             | 0.02  | 0.01 |             | 0.01  | 0.01 |                     | 0.00  | 0.00 |
| <b>GBLMGA</b>        | <b>0.18</b>                          | -0.23 | 0.04 | <b>0.56</b> | -1.15 | 0.37 | <b>0.28</b> | -1.65 | 0.56 | <b>0.38</b>         | -0.90 | 0.34 |
|                      |                                      | 0.00  | 0.00 |             | -0.08 | 0.01 |             | -0.06 | 0.01 |                     | -0.04 | 0.01 |
| <b>2GK3BP</b>        | <b>0.18</b>                          | -0.17 | 0.82 | <b>0.62</b> | -0.21 | 0.25 | <b>0.36</b> | 0.70  | 0.71 | <b>0.42</b>         | 0.00  | 0.00 |
|                      |                                      | 0.00  | 0.01 |             | -0.01 | 0.01 |             | 0.03  | 0.01 |                     | 0.00  | 0.00 |
| <b>33JQFQ</b>        | <b>0.18</b>                          | 0.15  | 0.41 | <b>0.63</b> | -0.11 | 0.43 | <b>0.34</b> | 0.05  | 0.82 | <b>0.42</b>         | 0.00  | 0.61 |
|                      |                                      | 0.00  | 0.01 |             | -0.01 | 0.01 |             | 0.00  | 0.01 |                     | 0.00  | 0.01 |
| <b>9JP2MJ</b>        | <b>0.17</b>                          | -0.48 | 0.71 | <b>0.72</b> | 1.25  | 1.39 | <b>0.35</b> | 0.51  | 1.48 | <b>0.40</b>         | -0.56 | 1.27 |
|                      |                                      | -0.01 | 0.01 |             | 0.09  | 0.03 |             | 0.02  | 0.02 |                     | -0.02 | 0.02 |
| <b>PFR9KY</b>        | <b>0.19</b>                          | 0.37  | 0.37 | <b>0.66</b> | 0.26  | 0.87 | <b>0.35</b> | 0.34  | 0.84 | <b>0.44</b>         | 0.54  | 0.65 |
|                      |                                      | 0.01  | 0.01 |             | 0.02  | 0.02 |             | 0.01  | 0.01 |                     | 0.02  | 0.01 |
| <b>J42726</b>        | <b>0.17</b>                          | -0.48 | 0.00 | <b>0.60</b> | -0.50 | 0.25 | <b>0.32</b> | -0.33 | 0.41 | <b>0.42</b>         | 0.00  | 0.61 |
|                      |                                      | -0.01 | 0.00 |             | -0.03 | 0.01 |             | -0.01 | 0.01 |                     | 0.00  | 0.01 |
| <b>WGX7VT</b>        | <b>0.19</b>                          | 0.46  | 0.00 | <b>0.68</b> | 0.57  | 0.25 | <b>0.36</b> | 0.70  | 0.71 | <b>0.43</b>         | 0.32  | 0.35 |
|                      |                                      | 0.01  | 0.00 |             | 0.04  | 0.01 |             | 0.03  | 0.01 |                     | 0.01  | 0.01 |
| <b>RMZ998</b>        | <b>0.18</b>                          | -0.17 | 0.82 | <b>0.64</b> | -0.01 | 1.64 | <b>0.33</b> | -0.05 | 1.48 | <b>0.43</b>         | 0.24  | 1.06 |
|                      |                                      | 0.00  | 0.01 |             | 0.00  | 0.04 |             | 0.00  | 0.02 |                     | 0.01  | 0.02 |
| <b>LZMPAC</b>        | <b>0.18</b>                          | 0.15  | 0.41 | <b>0.67</b> | 0.47  | 1.99 | <b>0.34</b> | 0.23  | 0.41 | <b>0.47</b>         | 1.12  | 0.93 |
|                      |                                      | 0.00  | 0.01 |             | 0.03  | 0.05 |             | 0.01  | 0.01 |                     | 0.05  | 0.02 |
| <b>BMDAYP</b>        | <b>0.17</b>                          | -0.33 | 0.82 | <b>0.60</b> | -0.59 | 0.50 | <b>0.31</b> | -0.70 | 0.00 | <b>0.40</b>         | -0.56 | 0.35 |
|                      |                                      | -0.01 | 0.01 |             | -0.04 | 0.01 |             | -0.03 | 0.00 |                     | -0.02 | 0.01 |
| <b>GAPFPH</b>        | <b>0.18</b>                          | 0.04  | 0.19 | <b>0.59</b> | -0.76 | 0.48 | <b>0.31</b> | -0.64 | 0.96 | <b>0.44</b>         | 0.53  | 1.03 |
|                      |                                      | 0.00  | 0.00 |             | -0.05 | 0.01 |             | -0.02 | 0.01 |                     | 0.02  | 0.02 |
| <b>T84DB7</b>        | <b>0.23</b>                          | 2.21  | 0.42 | <b>0.74</b> | 1.46  | 0.72 | <b>0.40</b> | 1.82  | 0.21 | <b>0.52</b>         | 2.36  | 0.36 |
|                      |                                      | 0.05  | 0.01 |             | 0.10  | 0.02 |             | 0.07  | 0.00 |                     | 0.10  | 0.01 |
| <b>TNQUE3</b>        | <b>0.17</b>                          | -0.33 | 0.41 | <b>0.62</b> | -0.30 | 0.66 | <b>0.33</b> | -0.23 | 0.41 | <b>0.39</b>         | -0.64 | 0.35 |
|                      |                                      | -0.01 | 0.01 |             | -0.02 | 0.02 |             | -0.01 | 0.01 |                     | -0.03 | 0.01 |
| <b>PWWNK7</b>        | <b>0.18</b>                          | -0.01 |      | <b>0.65</b> | 0.18  |      | <b>0.33</b> | -0.14 |      | <b>0.43</b>         | 0.24  | 0.35 |
|                      |                                      | 0.00  | 0.00 |             | 0.01  | 0.00 |             | -0.01 | 0.00 |                     | 0.01  | 0.00 |
| <b>2WG8UU</b>        | <b>0.18</b>                          | -0.07 | 0.21 | <b>0.62</b> | -0.25 | 1.83 | <b>0.33</b> | -0.17 | 1.03 | <b>0.41</b>         | -0.25 | 1.38 |
|                      |                                      | 0.00  | 0.00 |             | -0.02 | 0.04 |             | -0.01 | 0.01 |                     | -0.01 | 0.02 |



## ALP Program - Participant Web Summary Report - Cycle 29

|                          | 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>8CMGZN</b>            | <b>0.21</b>        | 1.63    | 0.38    | <b>0.71</b>        | 1.10    | 0.35    | <b>0.39</b>        | 1.54    | 0.78    | <b>0.43</b> | 0.35  | 0.46 |
|                          |                    | 0.03    | 0.01    |                    | 0.08    | 0.01    |                    | 0.06    | 0.01    |             | 0.01  | 0.01 |
| <b>CPEWRJ</b>            | <b>0.18</b>        | 0.01    | 1.04    | <b>0.64</b>        | 0.01    | 1.46    | <b>0.33</b>        | -0.09   | 0.22    | <b>0.41</b> | -0.26 | 2.74 |
|                          |                    | 0.00    | 0.01    |                    | 0.00    | 0.03    |                    | 0.00    | 0.00    |             | -0.01 | 0.04 |
| <b>VBVLAX</b>            | <b>0.17</b>        | -0.33   | 0.82    | <b>0.62</b>        | -0.21   | 1.25    | <b>0.31</b>        | -0.79   | 2.29    | <b>0.41</b> | -0.32 | 1.41 |
|                          |                    | -0.01   | 0.01    |                    | -0.01   | 0.03    |                    | -0.03   | 0.03    |             | -0.01 | 0.02 |
| <b>AM2DUK</b>            | <b>0.15</b>        | -1.27   | 0.82    | <b>0.62</b>        | -0.30   | 1.39    | <b>0.32</b>        | -0.42   | 0.71    | <b>0.40</b> | -0.48 | 0.61 |
|                          |                    | -0.03   | 0.01    |                    | -0.02   | 0.03    |                    | -0.02   | 0.01    |             | -0.02 | 0.01 |
| <b>XHNEVW</b>            | <b>0.20</b>        | 0.82    | 0.34    | <b>0.69</b>        | 0.76    | 0.08    | <b>0.36</b>        | 0.58    | 0.12    | <b>0.45</b> | 0.69  | 0.25 |
|                          |                    | 0.02    | 0.00    |                    | 0.05    | 0.00    |                    | 0.02    | 0.00    |             | 0.03  | 0.00 |
| <b>WYZRCU</b>            | <b>0.14</b>        | -1.89   | 5.04    | <b>0.61</b>        | -0.44   | 0.87    | <b>0.31</b>        | -0.59   | 2.14    | <b>0.41</b> | -0.29 | 1.61 |
|                          |                    | -0.04   | 0.07    |                    | -0.03   | 0.02    |                    | -0.02   | 0.03    |             | -0.01 | 0.03 |
|                          | <b>0.17</b>        | -0.45   | 0.87    | <b>0.60</b>        | -0.56   | 0.61    | <b>0.31</b>        | -0.81   | 0.51    | <b>0.39</b> | -0.72 | 0.46 |
|                          |                    | -0.01   | 0.01    |                    | -0.04   | 0.01    |                    | -0.03   | 0.01    |             | -0.03 | 0.01 |
| <b>BHL3GF</b>            | <b>0.17</b>        | -0.50   | 0.15    | <b>0.60</b>        | -0.50   | 1.32    | <b>0.30</b>        | -1.04   | 0.64    | <b>0.38</b> | -1.08 | 0.21 |
|                          |                    | -0.01   | 0.00    |                    | -0.03   | 0.03    |                    | -0.04   | 0.01    |             | -0.05 | 0.00 |
| <b>MZGWVZ</b>            | <b>0.15</b>        | -1.27   | 0.41    | <b>0.33</b>        | -4.42   | 0.25    | <b>0.20</b>        | -3.68   | 0.41    | <b>0.25</b> | -4.00 | 0.35 |
|                          |                    | -0.03   | 0.01    |                    | -0.30   | 0.01    |                    | -0.13   | 0.01    |             | -0.17 | 0.01 |
| <b>DNM26B</b>            | <b>0.19</b>        | 0.33    | 0.11    | <b>0.68</b>        | 0.60    | 0.53    | <b>0.34</b>        | 0.15    | 0.46    | <b>0.42</b> | -0.04 | 0.49 |
|                          |                    | 0.01    | 0.00    |                    | 0.04    | 0.01    |                    | 0.01    | 0.01    |             | 0.00  | 0.01 |
| <b>6K828H</b>            | <b>0.17</b>        | -0.33   | 0.41    | <b>0.62</b>        | -0.30   | 0.66    | <b>0.32</b>        | -0.51   | 0.41    | <b>0.38</b> | -0.96 | 0.00 |
|                          |                    | -0.01   | 0.01    |                    | -0.02   | 0.02    |                    | -0.02   | 0.01    |             | -0.04 | 0.00 |
| <b>ZZZ3WM</b>            | <b>0.21</b>        | 1.45    | 1.04    | <b>0.75</b>        | 1.61    | 2.65    | <b>0.37</b>        | 1.03    | 3.27    | <b>0.47</b> | 1.14  | 3.05 |
|                          |                    | 0.03    | 0.01    |                    | 0.11    | 0.06    |                    | 0.04    | 0.05    |             | 0.05  | 0.05 |
| <b>PHEWWY</b>            | <b>0.23</b>        | 2.34    |         | <b>0.80</b>        | 2.36    |         | <b>0.41</b>        | 2.09    |         | <b>0.55</b> | 3.12  | 3.05 |
|                          |                    | 0.05    | 0.00    |                    | 0.16    | 0.00    |                    | 0.08    | 0.00    |             | 0.13  | 0.00 |
| <b>J6NUD7</b>            | <b>0.21</b>        | 1.40    | 0.00    | <b>0.70</b>        | 0.96    | 0.90    | <b>0.36</b>        | 0.79    | 0.82    | <b>0.47</b> | 1.28  | 1.27 |
|                          |                    | 0.03    | 0.00    |                    | 0.07    | 0.02    |                    | 0.03    | 0.01    |             | 0.05  | 0.02 |
| <b>TRP93T</b>            | <b>0.19</b>        | 0.54    | 0.15    | <b>0.67</b>        | 0.42    | 0.33    | <b>0.36</b>        | 0.61    | 0.31    | <b>0.44</b> | 0.58  | 0.22 |
|                          |                    | 0.01    | 0.00    |                    | 0.03    | 0.01    |                    | 0.02    | 0.00    |             | 0.02  | 0.00 |
| <b>Grand Median</b>      |                    | 0.18    |         |                    | 0.64    |         |                    | 0.34    |         |             | 0.42  |      |
| <b>Median Abs Dev</b>    |                    | 0.01    |         |                    | 0.03    |         |                    | 0.02    |         |             | 0.02  |      |
| <b>Avg Within Lab SD</b> |                    | 0.01    |         |                    | 0.02    |         |                    | 0.01    |         |             | 0.02  |      |
| <b>Labs Included</b>     |                    | 34      |         |                    | 34      |         |                    | 34      |         |             | 34    |      |
| <b>Labs Reporting</b>    |                    | 34      |         |                    | 34      |         |                    | 34      |         |             | 34    |      |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 |
|---------------------|--------------------------------------|-------|------|-------------|-------|------|-------------|-------|------|-------------|-------|------|---------------------|
|                     | SRBSRB1601                           |       |      | SRBSRB1602  |       |      | SRBSRB1603  |       |      |             |       |      |                     |
| YAA32W              | <b>0.06</b>                          | 1.39  | 0.50 | <b>0.24</b> | 0.85  | 0.52 | <b>0.28</b> | 0.67  | 0.39 | <b>0.22</b> | 0.29  | 0.39 |                     |
|                     |                                      | 0.01  | 0.00 |             | 0.03  | 0.01 |             | 0.02  | 0.00 |             | 0.01  | 0.00 |                     |
| AAUKBK              | <b>0.05</b>                          | 0.50  | 0.11 | <b>0.22</b> | 0.24  | 0.18 | <b>0.25</b> | 0.05  | 0.40 | <b>0.21</b> | 0.09  | 0.60 |                     |
|                     |                                      | 0.00  | 0.00 |             | 0.01  | 0.00 |             | 0.00  | 0.00 |             | 0.00  | 0.00 |                     |
| GZ63WD              | <b>0.05</b>                          | -0.62 | 0.28 | <b>0.21</b> | -0.10 | 0.00 | <b>0.23</b> | -0.55 | 0.46 | <b>0.18</b> | -1.09 | 0.00 |                     |
|                     |                                      | 0.00  | 0.00 |             | 0.00  | 0.00 |             | -0.02 | 0.01 |             | -0.03 | 0.00 |                     |
| CJTVUF              | <b>0.07</b>                          | 2.28  | 0.96 | <b>0.24</b> | 0.93  | 2.02 | <b>0.28</b> | 0.79  | 1.54 | <b>0.25</b> | 1.35  | 1.26 |                     |
|                     |                                      | 0.02  | 0.01 |             | 0.03  | 0.02 |             | 0.03  | 0.02 |             | 0.04  | 0.01 |                     |
| 83L8FJ              | <b>0.05</b>                          | 0.45  | 1.07 | <b>0.25</b> | 1.10  |      | <b>0.27</b> | 0.60  | 0.46 | <b>0.22</b> | 0.24  | 0.71 |                     |
|                     |                                      | 0.00  | 0.01 |             | 0.04  | 0.00 |             | 0.02  | 0.01 |             | 0.01  | 0.01 |                     |
| GBLMGA              | <b>0.05</b>                          | -0.49 | 0.11 | <b>0.19</b> | -0.72 | 0.28 | <b>0.21</b> | -1.11 | 0.12 | <b>0.17</b> | -1.52 | 0.00 |                     |
|                     |                                      | 0.00  | 0.00 |             | -0.02 | 0.00 |             | -0.04 | 0.00 |             | -0.04 | 0.00 |                     |
| 2GK3BP              | <b>0.05</b>                          | 0.00  | 1.85 | <b>0.20</b> | -0.40 | 0.98 | <b>0.23</b> | -0.55 | 0.46 | <b>0.20</b> | -0.48 | 0.71 |                     |
|                     |                                      | 0.00  | 0.01 |             | -0.01 | 0.01 |             | -0.02 | 0.01 |             | -0.01 | 0.01 |                     |
| 33JQFQ              | <b>0.04</b>                          | -0.89 | 1.07 | <b>0.18</b> | -1.01 | 0.00 | <b>0.27</b> | 0.41  | 0.46 | <b>0.18</b> | -1.09 | 0.00 |                     |
|                     |                                      | -0.01 | 0.01 |             | -0.03 | 0.00 |             | 0.01  | 0.01 |             | -0.03 | 0.00 |                     |
| 9JP2MJ              | <b>0.04</b>                          | -1.34 | 1.85 | <b>0.24</b> | 0.80  | 3.55 | <b>0.28</b> | 0.89  | 1.22 | <b>0.16</b> | -1.69 | 1.88 |                     |
|                     |                                      | -0.01 | 0.01 |             | 0.03  | 0.04 |             | 0.03  | 0.02 |             | -0.05 | 0.02 |                     |
| PFR9KY              | <b>0.05</b>                          | 0.49  | 0.21 | <b>0.21</b> | 0.02  | 0.94 | <b>0.24</b> | -0.40 | 0.53 | <b>0.20</b> | -0.28 | 0.40 |                     |
|                     |                                      | 0.00  | 0.00 |             | 0.00  | 0.01 |             | -0.01 | 0.01 |             | -0.01 | 0.00 |                     |
| J42726              | <b>0.05</b>                          | 0.00  | 0.00 | <b>0.25</b> | 1.10  |      | <b>0.29</b> | 1.08  | 0.80 | <b>0.23</b> | 0.72  | 0.00 |                     |
|                     |                                      | 0.00  | 0.00 |             | 0.04  | 0.00 |             | 0.04  | 0.01 |             | 0.02  | 0.00 |                     |
| WGX7VT              | <b>0.05</b>                          | -0.45 | 1.07 | <b>0.25</b> | 1.20  | 0.57 | <b>0.29</b> | 1.08  | 0.80 | <b>0.21</b> | 0.00  | 1.23 |                     |
|                     |                                      | 0.00  | 0.01 |             | 0.04  | 0.01 |             | 0.04  | 0.01 |             | 0.00  | 0.01 |                     |
| QECBRZ              | <b>0.06</b>                          | 0.89  | 1.07 | <b>0.25</b> | 1.00  | 1.50 | <b>0.29</b> | 1.08  | 2.12 | <b>0.22</b> | 0.36  | 2.47 |                     |
|                     |                                      | 0.01  | 0.01 |             | 0.03  | 0.02 |             | 0.04  | 0.03 |             | 0.01  | 0.02 |                     |
| RMZ998              | <b>0.05</b>                          | -0.45 | 1.07 | <b>0.05</b> | -4.82 | 0.57 | <b>0.02</b> | -6.67 | 0.00 | <b>0.01</b> | -7.25 | 0.00 |                     |
|                     |                                      | 0.00  | 0.01 |             | -0.16 | 0.01 |             | -0.23 | 0.00 |             | -0.20 | 0.00 |                     |
| LZMPAC              | <b>0.05</b>                          | 0.45  | 1.07 | <b>0.22</b> | 0.10  | 0.57 | <b>0.26</b> | 0.32  | 0.46 | <b>0.22</b> | 0.24  | 0.71 |                     |
|                     |                                      | 0.00  | 0.01 |             | 0.00  | 0.01 |             | 0.01  | 0.01 |             | 0.01  | 0.01 |                     |
| BMDAYP              | <b>0.05</b>                          | -0.18 | 0.60 | <b>0.18</b> | -0.91 | 0.57 | <b>0.22</b> | -0.93 | 0.00 | <b>0.19</b> | -0.72 | 0.00 |                     |
|                     |                                      | 0.00  | 0.00 |             | -0.03 | 0.01 |             | -0.03 | 0.00 |             | -0.02 | 0.00 |                     |
| GAPFPH              | <b>0.05</b>                          | 0.22  | 0.21 | <b>0.21</b> | -0.21 | 0.65 | <b>0.24</b> | -0.32 | 0.81 | <b>0.22</b> | 0.51  | 1.07 |                     |
|                     |                                      | 0.00  | 0.00 |             | -0.01 | 0.01 |             | -0.01 | 0.01 |             | 0.01  | 0.01 |                     |
| T84DB7              | <b>0.07</b>                          | 2.40  | 0.38 | <b>0.27</b> | 1.74  | 0.88 | <b>0.31</b> | 1.70  | 0.15 | <b>0.25</b> | 1.61  | 0.64 |                     |
|                     |                                      | 0.02  | 0.00 |             | 0.06  | 0.01 |             | 0.06  | 0.00 |             | 0.04  | 0.01 |                     |
| TNQUE3              | <b>0.05</b>                          | 0.00  | 0.00 | <b>0.20</b> | -0.30 | 1.14 | <b>0.25</b> | -0.16 | 0.46 | <b>0.20</b> | -0.36 | 0.00 |                     |
|                     |                                      | 0.00  | 0.00 |             | -0.01 | 0.01 |             | -0.01 | 0.01 |             | -0.01 | 0.00 |                     |
| PWWNK7              | <b>0.05</b>                          | 0.00  |      | <b>0.20</b> | -0.40 |      | <b>0.24</b> | -0.35 |      | <b>0.21</b> | 0.00  | 0.00 |                     |
|                     |                                      | 0.00  | 0.00 |             | -0.01 | 0.00 |             | -0.01 | 0.00 |             | 0.00  | 0.00 |                     |



## ALP Program - Participant Web Summary Report - Cycle 29

|                          | 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>2WG8UU</b>            | <b>0.04</b>        | -1.00   | 0.92    | <b>0.21</b>        | 0.00    | 0.43    | <b>0.24</b>        | -0.29   | 0.61    | <b>0.19</b> | -0.70 | 1.28 |
| <b>8CMGZN</b>            | <b>0.05</b>        | -0.01   | 0.00    | <b>0.18</b>        | 0.00    | 0.00    | <b>0.21</b>        | -0.01   | 0.01    | <b>0.17</b> | -0.02 | 0.01 |
| <b>CPEWRJ</b>            | <b>0.06</b>        | -0.54   | 0.39    | <b>0.26</b>        | -1.11   | 0.13    | <b>0.28</b>        | -1.21   | 0.12    | <b>0.21</b> | -1.44 | 0.24 |
| <b>VBVLAX</b>            | <b>0.05</b>        | 0.00    | 0.00    | <b>0.20</b>        | -0.04   | 0.00    | <b>0.23</b>        | -0.04   | 0.00    | <b>0.21</b> | -0.04 | 0.00 |
| <b>AM2DUK</b>            | <b>0.04</b>        | 0.78    | 0.85    | <b>0.19</b>        | 1.36    | 1.12    | <b>0.21</b>        | 0.66    | 0.21    | <b>0.18</b> | 0.18  | 2.72 |
| <b>XHNEVW</b>            | <b>0.06</b>        | 0.01    | 0.00    | <b>0.23</b>        | 0.05    | 0.01    | <b>0.27</b>        | 0.02    | 0.00    | <b>0.23</b> | 0.00  | 0.02 |
| <b>WYZRCU</b>            | <b>0.04</b>        | 0.00    | 0.00    | <b>0.23</b>        | -0.30   | 0.57    | <b>0.26</b>        | -0.55   | 2.31    | <b>0.23</b> | 0.12  | 0.71 |
| <b>BHL3GF</b>            | <b>0.05</b>        | -1.03   | 0.28    | <b>0.21</b>        | -0.01   | 0.01    | <b>0.25</b>        | -0.02   | 0.03    | <b>0.21</b> | 0.00  | 0.01 |
| <b>MZGWVZ</b>            | <b>0.05</b>        | -0.01   | 0.00    | <b>0.16</b>        | -0.61   | 1.14    | <b>0.17</b>        | -1.12   | 0.46    | <b>0.15</b> | -1.21 | 0.71 |
| <b>DNM26B</b>            | <b>0.06</b>        | 0.90    | 0.20    | <b>0.24</b>        | -0.02   | 0.01    | <b>0.28</b>        | -0.04   | 0.01    | <b>0.22</b> | -0.03 | 0.01 |
| <b>ZZZ3WM</b>            | <b>0.06</b>        | 0.01    | 0.00    | <b>0.24</b>        | 0.47    | 0.12    | <b>0.25</b>        | 0.62    | 0.08    | <b>0.21</b> | 0.63  | 0.24 |
| <b>PHEWWY</b>            | <b>0.06</b>        | 0.01    | 0.00    | <b>0.23</b>        | 0.02    | 0.00    | <b>0.27</b>        | 0.02    | 0.00    | <b>0.23</b> | 0.02  | 0.00 |
| <b>J6NUD7</b>            | <b>0.05</b>        | -1.03   | 3.90    | <b>0.20</b>        | 0.62    | 1.38    | <b>0.24</b>        | 0.21    | 3.31    | <b>0.20</b> | 0.82  | 0.75 |
|                          |                    | -0.01   | 0.02    |                    | 0.02    | 0.01    |                    | 0.01    | 0.04    |             | 0.02  | 0.01 |
|                          |                    | 0.37    | 0.54    |                    | -0.14   | 0.54    |                    | 0.00    | 0.17    |             | 0.17  | 1.00 |
|                          |                    | 0.00    | 0.00    |                    | 0.00    | 0.01    |                    | 0.00    | 0.00    |             | 0.00  | 0.01 |
|                          |                    | -0.22   | 0.39    |                    | -0.26   | 0.23    |                    | -0.54   | 0.60    |             | -0.53 | 0.62 |
|                          |                    | 0.00    | 0.00    |                    | -0.01   | 0.00    |                    | -0.02   | 0.01    |             | -0.01 | 0.01 |
|                          |                    | 0.00    | 0.00    |                    | -1.51   | 0.57    |                    | -2.36   | 0.80    |             | -2.05 | 0.71 |
|                          |                    | 0.00    | 0.00    |                    | -0.05   | 0.01    |                    | -0.08   | 0.01    |             | -0.06 | 0.01 |
|                          |                    | 1.14    | 0.52    |                    | 0.94    | 0.25    |                    | 0.74    | 0.53    |             | 0.46  | 0.43 |
|                          |                    | 0.01    | 0.00    |                    | 0.03    | 0.00    |                    | 0.03    | 0.01    |             | 0.01  | 0.00 |
|                          |                    | 0.89    | 0.88    |                    | 0.78    | 1.54    |                    | 0.07    | 1.36    |             | -0.08 | 1.80 |
|                          |                    | 0.01    | 0.00    |                    | 0.03    | 0.02    |                    | 0.00    | 0.02    |             | 0.00  | 0.01 |
|                          |                    | 1.34    |         |                    | 0.50    |         |                    | 0.51    |         |             | 0.72  | 1.80 |
|                          |                    | 0.01    | 0.00    |                    | 0.02    | 0.00    |                    | 0.02    | 0.00    |             | 0.02  | 0.00 |
|                          |                    | 0.00    | 0.00    |                    | -0.50   | 0.57    |                    | -0.35   | 0.80    |             | -0.48 | 0.71 |
|                          |                    | 0.00    | 0.00    |                    | -0.02   | 0.01    |                    | -0.01   | 0.01    |             | -0.01 | 0.01 |
| <b>Grand Median</b>      |                    | 0.050   |         |                    | 0.21    |         |                    | 0.25    |         |             | 0.21  |      |
| <b>Median Abs Dev</b>    |                    | 0.004   |         |                    | 0.02    |         |                    | 0.02    |         |             | 0.01  |      |
| <b>Avg Within Lab SD</b> |                    | 0.005   |         |                    | 0.01    |         |                    | 0.01    |         |             | 0.01  |      |
| <b>Labs Included</b>     |                    | 33      |         |                    | 33      |         |                    | 33      |         |             | 33    |      |
| <b>Labs Reporting</b>    |                    | 33      |         |                    | 33      |         |                    | 33      |         |             | 33    |      |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 |           |           |
|----------------------|--------------------------------------|------------|-----------|----------------|------------|-----------|----------------|------------|---------|---------------------|-----------|-----------|
|                      | SRBSRB1601                           |            |           | SRBSRB1602     |            |           | SRBSRB1603     |            |         |                     |           |           |
| <b>YAA32W</b>        | <b>0.005</b>                         | -0.273     | 0.241     | <b>0.045</b>   | 0.234      |           | <b>0.007</b>   | -0.106     | 0.134   | <b>0.001</b>        | -0.290    | 0.000     |
|                      |                                      | -0.002     | 0.001     |                | 0.002      | 0.001     |                | -0.001     | 0.001   |                     | -0.002    | 0.000     |
| <b>AAUKBK</b>        | <b>0.006</b>                         | -0.080     | 0.000     | <b>0.045</b>   | 0.220      | 0.086     | <b>0.006</b>   | -0.185     | 0.000   | <b>0.001</b>        | -0.290    | 0.000     |
|                      |                                      | -0.001     | 0.000     |                | 0.002      | 0.001     |                | -0.002     | 0.000   |                     | -0.002    | 0.000     |
| <b>GZ63WD</b>        | <b>0.007</b>                         | 0.000      | 0.785     | <b>0.042</b>   | -0.116     | 0.350     | <b>0.009</b>   | 0.119      | 0.218   | <b>0.003</b>        | 0.000     | 0.136     |
|                      |                                      | 0.000      | 0.002     |                | -0.001     | 0.003     |                | 0.001      | 0.001   |                     | 0.000     | 0.001     |
| <b>CJTVUF</b>        | <b>0.017</b>                         | 1.391      | 1.812     | <b>0.061</b>   | 1.730      | 2.735     | <b>0.022</b>   | 1.667      | 3.670   | <b>0.022</b>        | 2.393     | 3.739     |
|                      |                                      | 0.010      | 0.005     |                | 0.018      | 0.020     |                | 0.014      | 0.017   |                     | 0.019     | 0.016     |
| <b>GBLMGA</b>        | <b>0.004</b>                         | -0.404     | 0.000     | <b>0.033</b>   | -0.929     | 0.000     | <b>0.005</b>   | -0.357     | 0.000   | <b>0.000</b>        | -0.380    | 0.014     |
|                      |                                      | -0.003     | 0.000     |                | -0.010     | 0.000     |                | -0.003     | 0.000   |                     | -0.003    | 0.000     |
| <b>2GK3BP</b>        | <b>0.010</b>                         | 0.404      | 0.000     | <b>0.043</b>   | 0.041      | 0.803     | <b>0.010</b>   | 0.238      | 0.000   | <b>0.010</b>        | 0.854     | 0.000     |
|                      |                                      | 0.003      | 0.000     |                | 0.000      | 0.006     |                | 0.002      | 0.000   |                     | 0.007     | 0.000     |
| <b>33JQFQ</b>        | <b>0.010</b>                         | 0.404      | 0.000     | <b>0.047</b>   | 0.354      | 0.803     | <b>0.017</b>   | 1.032      | 1.260   | <b>0.013</b>        | 1.282     | 1.360     |
|                      |                                      | 0.003      | 0.000     |                | 0.004      | 0.006     |                | 0.009      | 0.006   |                     | 0.010     | 0.006     |
| <b>9JP2MJ</b>        | <b>0.047</b>                         | 5.341      | 4.530     | <b>0.090</b>   | 4.421      | 2.783     | <b>0.067</b>   | 6.986      | 3.332   | <b>0.030</b>        | 3.418     | 2.355     |
|                      |                                      | 0.040      | 0.012     |                | 0.047      | 0.020     |                | 0.059      | 0.015   |                     | 0.027     | 0.010     |
| <b>PFR9KY</b>        | <b>0.008</b>                         | 0.127      | 0.256     | <b>0.043</b>   | 0.009      | 0.278     | <b>0.009</b>   | 0.077      | 0.193   | <b>0.003</b>        | 0.017     | 0.083     |
|                      |                                      | 0.001      | 0.001     |                | 0.000      | 0.002     |                | 0.001      | 0.001   |                     | 0.000     | 0.000     |
| <b>J42726</b>        | <b>0.001</b>                         | -0.808     | 0.000     | <b>0.029</b>   | -1.336     | 0.080     | <b>0.001</b>   | -0.834     | 0.000   | <b>0.003</b>        | -0.085    | 0.360     |
|                      |                                      | -0.006     | 0.000     |                | -0.014     | 0.001     |                | -0.007     | 0.000   |                     | -0.001    | 0.002     |
| <b>WGX7VT</b>        | <b>0.005</b>                         | -0.314     | 0.227     | <b>0.037</b>   | -0.585     | 0.803     | <b>0.010</b>   | 0.238      | 0.000   | <b>0.001</b>        | -0.299    | 0.000     |
|                      |                                      | -0.002     | 0.001     |                | -0.006     | 0.006     |                | 0.002      | 0.000   |                     | -0.002    | 0.000     |
| <b>RMZ998</b>        | <b>0.020</b>                         | 1.750      | 0.000     | <b>0.053</b>   | 0.979      | 0.803     | <b>0.020</b>   | 1.429      | 0.000   | <b>0.010</b>        | 0.854     | 0.000     |
|                      |                                      | 0.013      | 0.000     |                | 0.010      | 0.006     |                | 0.012      | 0.000   |                     | 0.007     | 0.000     |
| <b>LZMPAC</b>        | <b>0.010</b>                         | 0.404      | 0.000     | <b>0.050</b>   | 0.666      | 0.000     | <b>0.010</b>   | 0.238      | 0.000   | <b>0.010</b>        | 0.854     | 0.000     |
|                      |                                      | 0.003      | 0.000     |                | 0.007      | 0.000     |                | 0.002      | 0.000   |                     | 0.007     | 0.000     |
| <b>BMDAYP</b>        | <b>0.009</b>                         | 0.265      | 0.702     | <b>0.027</b>   | -1.492     | 2.793     | <b>0.010</b>   | 0.198      | 0.126   | <b>0.005</b>        | 0.179     | 0.196     |
|                      |                                      | 0.002      | 0.002     |                | -0.016     | 0.020     |                | 0.002      | 0.001   |                     | 0.001     | 0.001     |
| <b>GAPFPH</b>        | <b>0.008</b>                         | 0.090      | 0.227     | <b>0.038</b>   | -0.491     | 0.161     | <b>0.008</b>   | 0.000      | 0.000   | <b>0.004</b>        | 0.085     | 0.000     |
|                      |                                      | 0.001      | 0.001     |                | -0.005     | 0.001     |                | 0.000      | 0.000   |                     | 0.001     | 0.000     |
| <b>T84DB7</b>        | <b>0.006</b>                         | -0.188     | 0.478     | <b>0.044</b>   | 0.115      | 0.226     | <b>0.008</b>   | 0.005      | 0.053   | <b>0.001</b>        | -0.298    | 0.026     |
|                      |                                      | -0.001     | 0.001     |                | 0.001      | 0.002     |                | 0.000      | 0.000   |                     | -0.002    | 0.000     |
| <b>TNQUE3</b>        | <b>0.007</b>                         | 0.004      | 0.816     | <b>0.040</b>   | -0.303     | 0.357     | <b>0.007</b>   | -0.139     | 0.025   | <b>0.002</b>        | -0.201    | 0.180     |
|                      |                                      | 0.000      | 0.002     |                | -0.003     | 0.003     |                | -0.001     | 0.000   |                     | -0.002    | 0.001     |
| <b>2WG8UU</b>        | <b>0.009</b>                         | 0.288      | 0.512     | <b>0.042</b>   | -0.043     | 0.201     | <b>0.008</b>   | -0.043     | 0.654   | <b>0.002</b>        | -0.116    | 0.340     |
|                      |                                      | 0.002      | 0.001     |                | 0.000      | 0.001     |                | 0.000      | 0.003   |                     | -0.001    | 0.001     |
| <b>CPEWRJ</b>        | <b>103.288</b>                       | 13,906.043 | 7,767.262 | <b>397.272</b> | 37,283.348 | 1,516.784 | <b>107.315</b> | 12,777.489 | 148.009 | <b>35.664</b>       | 4,570.695 | 1,641.805 |
|                      |                                      | 103.281    | 19.798    |                | 397.229    | 10.902    |                | 107.307    | 0.678   |                     | 35.661    | 6.970     |
| <b>XHNEVW</b>        | <b>0.005</b>                         | -0.230     | 0.208     | <b>0.044</b>   | 0.122      | 0.100     | <b>0.007</b>   | -0.102     | 0.011   | <b>0.001</b>        | -0.262    | 0.027     |
|                      |                                      | -0.002     | 0.001     |                | 0.001      | 0.001     |                | -0.001     | 0.000   |                     | -0.002    | 0.000     |



## ALP Program - Participant Web Summary Report - Cycle 29

|                          | 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 |                           |
| <b>WYZRCU</b>            | <b>0.004</b> | -0.464  | 0.617   | <b>0.038</b> | -0.488  |         | <b>0.006</b> | -0.294  | 0.142   | 0.027                     |
|                          |              | -0.003  | 0.002   |              | -0.005  | 0.002   |              | -0.002  | 0.001   |                           |
|                          | <b>0.005</b> | -0.265  | 0.261   | <b>0.035</b> | -0.785  |         | <b>0.006</b> | -0.246  | 0.112   | 0.027                     |
|                          |              | -0.002  | 0.001   |              | -0.008  | 0.001   |              | -0.002  | 0.001   |                           |
| <b>BHL3GF</b>            | <b>0.004</b> | -0.355  | 0.060   | <b>0.040</b> | -0.288  |         | <b>0.006</b> | -0.290  | 0.045   | 0.027                     |
|                          |              | -0.003  | 0.000   |              | -0.003  | 0.001   |              | -0.002  | 0.000   |                           |
| <b>MZGWVZ</b>            | <b>0.010</b> | 0.404   | 0.000   | <b>0.040</b> | -0.272  | 0.000   | <b>0.010</b> | 0.238   | 0.000   | <b>0.010</b> 0.854 0.000  |
|                          |              | 0.003   | 0.000   |              | -0.003  | 0.000   |              | 0.002   | 0.000   | 0.007 0.000               |
| <b>DNM26B</b>            | <b>0.005</b> | -0.314  | 0.023   | <b>0.043</b> | 0.000   | 0.050   | <b>0.006</b> | -0.234  | 0.025   | <b>0.001</b> -0.320 0.014 |
|                          |              | -0.002  | 0.000   |              | 0.000   | 0.000   |              | -0.002  | 0.000   | -0.003 0.000              |
| <b>ZZZ3WM</b>            | <b>0.003</b> | -0.583  | 0.227   | <b>0.045</b> | 0.228   | 0.815   | <b>0.004</b> | -0.437  | 0.252   | <b>0.002</b> -0.171 0.236 |
|                          |              | -0.004  | 0.001   |              | 0.002   | 0.006   |              | -0.004  | 0.001   | -0.001 0.001              |
| <b>J6NUD7</b>            | <b>0.027</b> | 2.693   | 0.392   | <b>0.062</b> | 1.793   | 0.368   | <b>0.027</b> | 2.262   | 0.436   | <b>0.019</b> 2.008 0.471  |
|                          |              | 0.020   | 0.001   |              | 0.019   | 0.003   |              | 0.019   | 0.002   | 0.016 0.002               |
| <b>TRP93T</b>            | <b>0.004</b> | -0.368  | 0.023   | <b>0.041</b> | -0.169  |         | <b>0.006</b> | -0.218  | 0.013   | 0.471                     |
|                          |              | -0.003  | 0.000   |              | -0.002  | 0.001   |              | -0.002  | 0.000   |                           |
| <b>Grand Median</b>      |              | 0.007   |         |              | 0.043   |         |              | 0.008   |         | 0.003                     |
| <b>Median Abs Dev</b>    |              | 0.003   |         |              | 0.003   |         |              | 0.002   |         | 0.002                     |
| <b>Avg Within Lab SD</b> |              | 0.003   |         |              | 0.007   |         |              | 0.005   |         | 0.004                     |
| <b>Labs Included</b>     |              | 27      |         |              | 27      |         |              | 27      |         | 23                        |
| <b>Labs Reporting</b>    |              | 27      |         |              | 27      |         |              | 27      |         | 23                        |





## ALP Program - Participant Web Summary Report - Cycle 29

| 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 |       |      |
|----------------------|--------------------------------------|-------|------|------------|-------|------|------------|--------|------|-------------------|-------|------|
|                      | SRBSRB1601                           |       |      | SRBSRB1602 |       |      | SRBSRB1603 |        |      |                   |       |      |
| YAA32W               | 1.7                                  | -2.3  | 0.0  | 42.0       | -1.1  | 0.1  | 34.9       | -2.3   | 0.1  | 3.2               | -1.8  | 0.1  |
|                      |                                      | -34.6 | 0.0  |            | -26.5 | 1.0  |            | -169.1 | 1.8  |                   | -66.3 | 0.4  |
| AAUKBK               | 60.8                                 | 1.6   | 0.5  | 100.1      | 1.3   | 0.4  | 275.8      | 1.0    | 0.8  | 116.0             | 1.3   | 0.6  |
|                      |                                      | 24.5  | 3.8  |            | 31.6  | 3.1  |            | 71.8   | 11.8 |                   | 46.5  | 3.8  |
| GZ63WD               | 38.9                                 | 0.2   | 0.7  | 66.3       | -0.1  | 0.5  | 173.3      | -0.4   | 0.9  | 63.9              | -0.2  | 0.9  |
|                      |                                      | 2.6   | 5.2  |            | -2.2  | 3.9  |            | -30.7  | 12.8 |                   | -5.6  | 5.1  |
| 2GK3BP               | 56.6                                 | 1.3   | 1.0  | 92.5       | 1.0   | 1.0  | 251.5      | 0.6    | 1.2  | 104.8             | 1.0   | 1.4  |
|                      |                                      | 20.3  | 8.0  |            | 24.0  | 7.2  |            | 47.5   | 17.5 |                   | 35.3  | 7.9  |
| 33JQFQ               | 19.3                                 | -1.1  | 0.4  | 39.7       | -1.2  | 0.6  | 105.3      | -1.3   | 0.2  | 36.3              | -0.9  | 0.6  |
|                      |                                      | -17.0 | 3.1  |            | -28.8 | 4.0  |            | -98.7  | 2.5  |                   | -33.2 | 3.5  |
| J42726               | 22.3                                 | -0.9  | 0.4  | 47.7       | -0.8  | 0.1  | 262.7      | 0.8    | 0.8  | 86.7              | 0.5   | 0.4  |
|                      |                                      | -14.0 | 3.2  |            | -20.8 | 0.6  |            | 58.7   | 12.0 |                   | 17.2  | 2.3  |
| RMZ998               | 20.7                                 | -1.0  | 0.4  | 48.0       | -0.8  | 0.2  | 145.3      | -0.8   | 0.1  | 59.7              | -0.3  | 0.5  |
|                      |                                      | -15.6 | 2.9  |            | -20.5 | 1.7  |            | -58.7  | 1.5  |                   | -9.8  | 3.1  |
| LZMPAC               | 50.0                                 | 0.9   | 1.7  | 67.0       | -0.1  | 1.3  | 161.7      | -0.6   | 1.0  | 57.0              | -0.3  | 0.6  |
|                      |                                      | 13.7  | 13.5 |            | -1.5  | 9.5  |            | -42.3  | 15.0 |                   | -12.5 | 3.6  |
| GAPFPH               | 36.3                                 | 0.0   | 0.4  | 68.5       | 0.0   | 0.5  | 241.9      | 0.5    | 0.8  | 80.9              | 0.3   | 0.5  |
|                      |                                      | 0.0   | 3.6  |            | 0.0   | 3.9  |            | 37.9   | 11.3 |                   | 11.4  | 2.7  |
| T84DB7               | 42.4                                 | 0.4   | 0.8  | 105.3      | 1.5   | 2.4  | 352.5      | 2.0    | 0.5  | 133.6             | 1.8   | 0.4  |
|                      |                                      | 6.1   | 6.2  |            | 36.8  | 17.3 |            | 148.5  | 8.1  |                   | 64.1  | 2.1  |
| 2WG8UU               | 70.5                                 | 2.2   | 2.2  | 104.5      | 1.5   | 1.1  | 264.9      | 0.8    | 2.1  | 125.3             | 1.5   | 2.9  |
|                      |                                      | 34.1  | 17.9 |            | 36.0  | 7.5  |            | 60.9   | 31.2 |                   | 55.8  | 17.1 |
| CPEWRJ               | 39.6                                 | 0.2   | 0.7  | 77.2       | 0.3   | 0.8  | 238.4      | 0.5    | 0.3  | 84.7              | 0.4   | 1.3  |
|                      |                                      | 3.3   | 5.5  |            | 8.7   | 5.6  |            | 34.4   | 4.5  |                   | 15.2  | 7.6  |
| XHNEVV               | 36.7                                 | 0.0   | 0.3  | 68.5       | 0.0   | 0.2  | 199.4      | -0.1   | 0.3  | 58.7              | -0.3  | 0.3  |
|                      |                                      | 0.3   | 2.4  |            | 0.0   | 1.2  |            | -4.6   | 3.9  |                   | -10.8 | 1.5  |
| WYZRCU               | 27.6                                 | -0.6  | 1.9  | 78.2       | 0.4   | 0.6  | 228.0      | 0.3    | 2.3  | 85.1              | 0.4   | 0.4  |
|                      |                                      | -8.7  | 15.1 |            | 9.7   | 4.2  |            | 24.0   | 34.1 |                   | 15.6  | 2.2  |
|                      | 38.1                                 | 0.1   | 1.5  | 72.3       | 0.2   | 0.3  | 204.0      | 0.0    | 0.6  | 75.9              | 0.2   | 0.7  |
|                      |                                      | 1.8   | 12.0 |            | 3.8   | 1.9  |            | 0.0    | 8.7  |                   | 6.4   | 4.0  |
| BHL3GF               | 32.3                                 | -0.3  | 0.1  | 68.3       | 0.0   | 0.4  | 188.3      | -0.2   | 0.6  | 60.0              | -0.3  | 0.3  |
|                      |                                      | -4.0  | 1.2  |            | -0.2  | 2.9  |            | -15.7  | 8.5  |                   | -9.5  | 1.7  |
| MZGWVZ               | 28.8                                 | -0.5  | 0.6  | 56.5       | -0.5  | 0.4  | 142.9      | -0.8   | 0.2  | 48.8              | -0.6  | 0.5  |
|                      |                                      | -7.5  | 4.5  |            | -12.0 | 2.5  |            | -61.1  | 3.4  |                   | -20.7 | 2.8  |
| DNM26B               | 34.4                                 | -0.1  | 0.4  | 73.4       | 0.2   | 0.1  | 201.7      | 0.0    | 0.2  | 60.0              | -0.3  | 0.2  |
|                      |                                      | -1.9  | 2.8  |            | 4.9   | 0.8  |            | -2.3   | 3.2  |                   | -9.5  | 1.2  |
| ZZZ3WM               | 32.9                                 | -0.2  | 1.8  | 22.2       | -1.9  | 2.9  | 178.4      | -0.3   | 2.3  | 26.9              | -1.2  | 2.2  |
|                      |                                      | -3.4  | 14.4 |            | -46.4 | 20.6 |            | -25.6  | 34.2 |                   | -42.6 | 13.0 |
| PHEWWY               | 37.1                                 | 0.1   |      | 85.4       | 0.7   |      | 210.0      | 0.1    |      | 69.5              | 0.0   | 2.2  |
|                      |                                      | 0.8   | 0.0  |            | 16.9  | 0.0  |            | 6.0    | 0.0  |                   | 0.0   | 0.0  |



## ALP Program - Participant Web Summary Report - Cycle 29

|                          | 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 |         |         |
| <b>TRP93T</b>            | <b>32.9</b>        | -0.2    | 0.3     | <b>88.5</b>        | 0.8     | 0.5     | <b>268.0</b>       | 0.9     | 0.4     | <b>92.1</b>        | 0.6     | 0.2     |
|                          |                    | -3.4    | 2.7     |                    | 20.0    | 3.5     |                    | 64.0    | 5.3     |                    | 22.6    | 1.1     |
| <b>Grand Median</b>      |                    | 36.3    |         |                    | 68.5    |         |                    | 204.0   |         |                    | 69.5    |         |
| <b>Median Abs Dev</b>    |                    | 6.1     |         |                    | 16.9    |         |                    | 42.3    |         |                    | 15.6    |         |
| <b>Avg Within Lab SD</b> |                    | 8.0     |         |                    | 7.1     |         |                    | 15.0    |         |                    | 5.8     |         |
| <b>Labs Included</b>     |                    | 21      |         |                    | 21      |         |                    | 21      |         |                    | 21      |         |
| <b>Labs Reporting</b>    |                    | 21      |         |                    | 21      |         |                    | 21      |         |                    | 21      |         |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 <span style="float: right;">Data units: mg/kg</span> |            |      |     |            |       |     |            |       |     |      |      |     |
|---|------------|------|-----|------------|-------|-----|------------|-------|-----|------|------|-----|
|   | SRBSRB1601 |      |     | SRBSRB1602 |       |     | SRBSRB1603 |       |     |      |      |     |
| AAUKBK  | 7.1        | 2.0  | 0.5 | 44.2       | 0.3   | 0.3 | 34.0       | -0.5  | 0.3 | 10.7 | 3.2  | 0.0 |
|   |            | 4.7  | 0.6 |            | 1.8   | 0.6 |            | -2.7  | 0.6 |      | 6.9  | 0.0 |
| GZ63WD  | 2.5        | 0.1  | 0.2 | 38.8       | -0.6  | 0.4 | 33.2       | -0.6  | 0.1 | 3.4  | -0.2 | 0.1 |
|   |            | 0.3  | 0.2 |            | -3.6  | 0.7 |            | -3.5  | 0.2 |      | -0.4 | 0.1 |
| CJTVUF  | 1.6        | -0.3 | 1.5 | 44.6       | 0.4   | 0.6 | 38.3       | 0.3   | 0.3 | 3.0  | -0.4 | 2.9 |
|   |            | -0.7 | 1.8 |            | 2.3   | 1.1 |            | 1.5   | 0.6 |      | -0.8 | 2.3 |
| 83L8FJ  | 1.7        | -0.3 | 0.0 | 39.0       | -0.6  | 0.3 | 33.5       | -0.6  | 0.2 | 3.2  | -0.3 | 0.2 |
|   |            | -0.7 | 0.0 |            | -3.3  | 0.6 |            | -3.3  | 0.4 |      | -0.6 | 0.1 |
| GBLMGA  | 3.5        | 0.5  | 0.0 | 30.5       | -2.0  | 0.3 | 29.3       | -1.4  | 0.2 | 4.1  | 0.1  | 0.3 |
|   |            | 1.2  | 0.1 |            | -11.9 | 0.5 |            | -7.5  | 0.4 |      | 0.3  | 0.2 |
| 2GK3BP  | 8.7        | 2.7  | 3.8 | 47.0       | 0.8   | 1.5 | 44.5       | 1.4   | 2.8 | 6.1  | 1.1  | 0.9 |
|   |            | 6.4  | 4.5 |            | 4.7   | 2.8 |            | 7.8   | 6.1 |      | 2.3  | 0.7 |
| 33JQFQ  | 2.7        | 0.1  | 0.5 | 40.3       | -0.3  |     | 34.7       | -0.4  | 0.7 | 4.0  | 0.1  | 0.9 |
|   |            | 0.3  | 0.6 |            | -2.0  | 1.2 |            | -2.1  | 1.5 |      | 0.2  | 0.0 |
| 9JP2MJ  | 3.6        | 0.5  | 0.5 | 41.7       | -0.1  | 0.8 | 37.1       | 0.1   | 0.6 | 4.6  | 0.4  | 0.5 |
|   |            | 1.2  | 0.6 |            | -0.6  | 1.4 |            | 0.3   | 1.3 |      | 0.8  | 0.4 |
| PFR9KY  | 0.0        | -1.0 | 0.0 | 42.0       | -0.1  | 1.5 | 37.7       | 0.2   | 1.0 | 2.5  | -0.6 | 0.2 |
|   |            | -2.4 | 0.0 |            | -0.3  | 2.7 |            | 1.0   | 2.2 |      | -1.3 | 0.1 |
| J42726  | 2.0        | -0.2 |     | 42.7       | 0.1   |     | 38.3       | 0.3   | 0.3 | 4.0  | 0.1  | 0.2 |
|   |            | -0.4 | 0.0 |            | 0.3   | 0.6 |            | 1.6   | 0.6 |      | 0.2  | 0.0 |
| WGX7VT  | 3.4        | 0.4  | 0.0 | 46.7       | 0.7   | 0.3 | 38.8       | 0.4   | 0.2 | 5.4  | 0.7  | 0.0 |
|   |            | 1.0  | 0.0 |            | 4.4   | 0.5 |            | 2.1   | 0.4 |      | 1.6  | 0.0 |
| RMZ998  | 0.4        | -0.8 | 0.2 | 27.3       | -2.5  | 0.8 | 24.0       | -2.3  | 0.5 | 1.1  | -1.2 | 0.4 |
|   |            | -2.0 | 0.3 |            | -15.0 | 1.5 |            | -12.7 | 1.0 |      | -2.7 | 0.3 |
| LZMPAC  | 1.0        | -0.6 |     | 47.0       | 0.8   | 0.5 | 41.7       | 0.9   | 0.3 | 2.3  | -0.7 | 0.7 |
|   |            | -1.4 | 0.0 |            | 4.7   | 1.0 |            | 4.9   | 0.6 |      | -1.5 | 0.6 |
| BMDAYP  | 0.1        | -1.0 | 0.0 | 29.7       | -2.1  | 0.8 | 25.3       | -2.1  | 0.7 | 1.6  | -1.0 | 0.5 |
|   |            | -2.3 | 0.0 |            | -12.7 | 1.5 |            | -11.4 | 1.5 |      | -2.2 | 0.4 |
| GAPFPH  |            |      |     | 33.0       | -1.6  |     | 29.5       | -1.3  | 0.8 |      |      | 0.5 |
|   |            |      |     |            | -9.4  | 1.7 |            | -7.2  | 1.6 |      |      |     |
| T84DB7  | 3.5        | 0.5  | 0.3 | 46.2       | 0.6   | 0.5 | 43.0       | 1.1   | 0.4 | 5.2  | 0.7  | 0.3 |
|   |            | 1.1  | 0.3 |            | 3.9   | 0.9 |            | 6.3   | 0.9 |      | 1.5  | 0.2 |
| PWWNK7  | 5.0        | 1.1  |     | 45.0       | 0.4   |     | 39.0       | 0.4   |     | 6.0  | 1.0  | 0.3 |
|   |            | 2.6  | 0.0 |            | 2.7   | 0.0 |            | 2.3   | 0.0 |      | 2.2  | 0.0 |
| 2WG8UU  | 17.3       | 6.3  | 5.1 | 49.1       | 1.1   | 1.8 | 46.4       | 1.8   | 1.2 | 15.6 | 5.4  | 3.6 |
|   |            | 15.0 | 6.1 |            | 6.8   | 3.4 |            | 9.6   | 2.7 |      | 11.8 | 2.8 |
| 8CMGZN  | 2.4        | 0.0  | 0.0 | 42.9       | 0.1   | 0.3 | 37.7       | 0.2   | 0.3 | 1.3  | -1.1 | 0.2 |
|   |            | 0.0  | 0.0 |            | 0.5   | 0.6 |            | 1.0   | 0.6 |      | -2.4 | 0.1 |
| CPEWRJ  | 1.4        | -0.4 | 0.1 | 41.8       | -0.1  | 1.0 | 36.4       | -0.1  | 0.1 | 2.1  | -0.8 | 0.5 |
|   |            | -1.0 | 0.1 |            | -0.5  | 1.9 |            | -0.3  | 0.3 |      | -1.7 | 0.4 |



## ALP Program - Participant Web Summary Report - Cycle 29

|                          | 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>VBVLAX</b>            | <b>1.3</b>         | -0.4    | 0.5     | <b>43.1</b>        | 0.1     | 1.3     | <b>35.3</b>        | -0.3    | 1.8     | <b>3.3</b>  | -0.2 | 0.7 |
|                          |                    | -1.0    | 0.6     |                    | 0.8     | 2.3     |                    | -1.5    | 4.0     |             | -0.5 | 0.6 |
| <b>AM2DUK</b>            | <b>1.8</b>         | -0.2    | 0.3     | <b>42.0</b>        | -0.1    | 1.1     | <b>37.0</b>        | 0.1     | 1.3     | <b>3.8</b>  | 0.0  | 0.6 |
|                          |                    | -0.5    | 0.3     |                    | -0.4    | 2.0     |                    | 0.3     | 2.8     |             | 0.0  | 0.4 |
| <b>XHNEVW</b>            | <b>1.9</b>         | -0.2    | 0.1     | <b>46.6</b>        | 0.7     | 0.0     | <b>40.4</b>        | 0.7     | 0.3     | <b>3.6</b>  | -0.1 | 0.1 |
|                          |                    | -0.4    | 0.1     |                    | 4.2     | 0.1     |                    | 3.7     | 0.6     |             | -0.2 | 0.1 |
| <b>WYZRCU</b>            | <b>1.4</b>         | -0.4    | 0.7     | <b>41.1</b>        | -0.2    | 0.5     | <b>33.3</b>        | -0.6    | 0.8     | <b>3.3</b>  | -0.2 | 0.3 |
|                          |                    | -1.0    | 0.8     |                    | -1.2    | 0.9     |                    | -3.4    | 1.8     |             | -0.5 | 0.3 |
|                          | <b>2.4</b>         | 0.0     | 0.1     | <b>44.3</b>        | 0.3     | 0.8     | <b>38.1</b>        | 0.2     | 0.6     | <b>4.7</b>  | 0.4  | 1.0 |
|                          |                    | 0.0     | 0.2     |                    | 2.0     | 1.4     |                    | 1.3     | 1.2     |             | 0.9  | 0.8 |
| <b>BHL3GF</b>            |                    |         |         | <b>39.9</b>        | -0.4    | 0.3     | <b>35.3</b>        | -0.3    | 0.9     | <b>3.8</b>  | 0.0  | 0.1 |
|                          |                    |         |         |                    | -2.5    | 0.6     |                    | -1.4    | 2.1     |             | 0.0  | 0.1 |
| <b>MZGWVZ</b>            | <b>3.6</b>         | 0.5     | 1.5     | <b>49.1</b>        | 1.1     | 0.7     | <b>35.3</b>        | -0.3    | 0.4     | <b>2.8</b>  | -0.5 | 0.4 |
|                          |                    | 1.2     | 1.8     |                    | 6.8     | 1.2     |                    | -1.4    | 0.8     |             | -1.0 | 0.3 |
| <b>DNM26B</b>            | <b>2.4</b>         | 0.0     | 0.1     | <b>43.0</b>        | 0.1     | 0.6     | <b>38.2</b>        | 0.3     | 0.3     | <b>4.2</b>  | 0.2  | 0.0 |
|                          |                    | 0.1     | 0.1     |                    | 0.7     | 1.2     |                    | 1.5     | 0.7     |             | 0.4  | 0.0 |
| <b>6K828H</b>            | <b>1.3</b>         | -0.5    | 0.4     | <b>38.8</b>        | -0.6    | 0.6     | <b>33.9</b>        | -0.5    | 0.5     | <b>3.1</b>  | -0.3 | 0.8 |
|                          |                    | -1.1    | 0.5     |                    | -3.5    | 1.1     |                    | -2.8    | 1.1     |             | -0.7 | 0.6 |
| <b>ZZZ3WM</b>            | <b>10.4</b>        | 3.4     | 2.8     | <b>36.0</b>        | -1.1    | 4.0     | <b>27.6</b>        | -1.7    | 3.5     | <b>10.2</b> | 2.9  | 3.9 |
|                          |                    | 8.0     | 3.4     |                    | -6.3    | 7.4     |                    | -9.1    | 7.6     |             | 6.4  | 3.0 |
| <b>PHEWWY</b>            |                    |         |         | <b>54.5</b>        | 2.0     |         | <b>45.2</b>        | 1.5     |         |             |      | 3.9 |
|                          |                    |         |         |                    | 12.2    | 0.0     |                    | 8.5     | 0.0     |             |      |     |
| <b>J6NUD7</b>            | <b>6.0</b>         | 1.5     | 0.1     | <b>40.1</b>        | -0.4    | 0.1     | <b>34.7</b>        | -0.4    | 0.5     | <b>7.9</b>  | 1.9  | 0.8 |
|                          |                    | 3.6     | 0.1     |                    | -2.2    | 0.3     |                    | -2.0    | 1.2     |             | 4.1  | 0.6 |
| <b>TRP93T</b>            | <b>2.2</b>         | -0.1    | 0.1     | <b>44.4</b>        | 0.3     | 0.8     | <b>39.1</b>        | 0.4     | 0.3     | <b>4.0</b>  | 0.1  | 0.1 |
|                          |                    | -0.1    | 0.1     |                    | 2.0     | 1.5     |                    | 2.4     | 0.6     |             | 0.2  | 0.1 |
| <b>Grand Median</b>      |                    | 2.37    |         |                    | 42.3    |         |                    | 36.7    |         |             | 3.79 |     |
| <b>Median Abs Dev</b>    |                    | 1.04    |         |                    | 2.6     |         |                    | 2.3     |         |             | 0.85 |     |
| <b>Avg Within Lab SD</b> |                    | 1.19    |         |                    | 1.8     |         |                    | 2.2     |         |             | 0.78 |     |
| <b>Labs Included</b>     |                    | 29      |         |                    | 32      |         |                    | 32      |         |             | 30   |     |
| <b>Labs Reporting</b>    |                    | 29      |         |                    | 32      |         |                    | 32      |         |             | 30   |     |



## ALP Program - Participant Web Summary Report - Cycle 29

|                    |         |         |                    |         |         |                    |         |         |
|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|
| 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) <span style="float: right;">Data units: mg/kg</span> |             |      |     |             |       |     |             |       |     |             |      |     |
|---|-------------|------|-----|-------------|-------|-----|-------------|-------|-----|-------------|------|-----|
|   | SRBSRB1601  |      |     | SRBSRB1602  |       |     | SRBSRB1603  |       |     |             |      |     |
| <b>YAA32W</b>   | <b>13.6</b> | 0.8  | 0.7 | <b>72.9</b> | 1.4   | 0.2 | <b>64.4</b> | 1.3   | 0.0 | <b>27.8</b> | 1.1  | 0.1 |
|   |             | 3.1  | 0.8 |             | 14.0  | 0.4 |             | 12.8  | 0.0 |             | 5.4  | 0.3 |
| <b>AAUKBK</b>   | <b>11.2</b> | 0.2  | 0.2 | <b>65.7</b> | 0.7   | 0.1 | <b>54.7</b> | 0.3   | 0.4 | <b>23.1</b> | 0.1  | 0.3 |
|   |             | 0.7  | 0.2 |             | 6.8   | 0.1 |             | 3.1   | 1.2 |             | 0.7  | 0.6 |
| <b>GZ63WD</b>   | <b>9.6</b>  | -0.2 | 0.7 | <b>57.7</b> | -0.1  | 0.2 | <b>51.5</b> | 0.0   | 0.0 | <b>21.6</b> | -0.2 | 0.2 |
|   |             | -0.9 | 0.8 |             | -1.2  | 0.5 |             | -0.2  | 0.1 |             | -0.8 | 0.3 |
| <b>CJTVUF</b>   | <b>14.2</b> | 0.9  | 1.1 | <b>76.2</b> | 1.8   | 1.5 | <b>66.5</b> | 1.5   | 1.4 | <b>31.9</b> | 2.0  | 2.0 |
|   |             | 3.7  | 1.1 |             | 17.3  | 3.5 |             | 14.8  | 3.8 |             | 9.5  | 4.2 |
| <b>83L8FJ</b>   | <b>12.0</b> | 0.4  | 0.9 | <b>60.3</b> | 0.1   | 0.3 | <b>53.7</b> | 0.2   | 0.7 | <b>23.2</b> | 0.1  | 0.4 |
|   |             | 1.5  | 1.0 |             | 1.4   | 0.6 |             | 2.1   | 2.1 |             | 0.7  | 0.8 |
| <b>GBLMGA</b>   | <b>5.8</b>  | -1.2 | 0.1 | <b>29.8</b> | -3.0  | 0.2 | <b>28.5</b> | -2.3  | 0.3 | <b>12.9</b> | -2.0 | 0.0 |
|   |             | -4.7 | 0.1 |             | -29.2 | 0.4 |             | -23.1 | 0.9 |             | -9.6 | 0.0 |
| <b>2GK3BP</b>   | <b>10.3</b> | 0.0  | 0.4 | <b>59.6</b> | 0.1   | 0.5 | <b>51.6</b> | 0.0   | 1.2 | <b>24.2</b> | 0.4  | 0.5 |
|   |             | -0.2 | 0.4 |             | 0.7   | 1.1 |             | -0.1  | 3.5 |             | 1.7  | 1.2 |
| <b>33JQFQ</b>   | <b>10.7</b> | 0.0  | 0.5 | <b>57.3</b> | -0.2  | 1.4 | <b>49.7</b> | -0.2  | 0.4 | <b>22.3</b> | 0.0  | 0.7 |
|   |             | 0.2  | 0.6 |             | -1.6  | 3.2 |             | -2.0  | 1.2 |             | -0.1 | 1.5 |
| <b>9JP2MJ</b>   | <b>24.5</b> | 3.6  | 1.0 | <b>88.0</b> | 3.0   | 0.6 | <b>80.1</b> | 2.9   | 1.5 | <b>28.2</b> | 1.2  | 1.1 |
|   |             | 14.0 | 1.1 |             | 29.1  | 1.3 |             | 28.5  | 4.2 |             | 5.8  | 2.4 |
| <b>PFR9KY</b>   | <b>8.8</b>  | -0.5 | 0.6 | <b>58.0</b> | -0.1  | 1.7 | <b>54.6</b> | 0.3   | 1.3 | <b>24.2</b> | 0.4  | 1.3 |
|   |             | -1.8 | 0.7 |             | -0.9  | 3.8 |             | 3.0   | 3.6 |             | 1.8  | 2.9 |
| <b>J42726</b>   | <b>9.7</b>  | -0.2 | 0.5 | <b>57.0</b> | -0.2  |     | <b>51.7</b> | 0.0   | 0.4 | <b>22.3</b> | 0.0  | 0.3 |
|   |             | -0.9 | 0.6 |             | -1.9  | 0.0 |             | 0.1   | 1.2 |             | -0.1 | 0.6 |
| <b>WGX7VT</b>   | <b>9.4</b>  | -0.3 | 0.0 | <b>60.8</b> | 0.2   | 0.1 | <b>51.1</b> | -0.1  | 0.2 | <b>21.6</b> | -0.2 | 0.2 |
|   |             | -1.1 | 0.0 |             | 1.9   | 0.2 |             | -0.6  | 0.5 |             | -0.8 | 0.4 |
| <b>RMZ998</b>   | <b>9.3</b>  | -0.3 | 1.1 | <b>54.3</b> | -0.5  | 1.1 | <b>49.0</b> | -0.3  | 0.7 | <b>22.3</b> | 0.0  | 0.5 |
|   |             | -1.2 | 1.2 |             | -4.6  | 2.5 |             | -2.6  | 2.0 |             | -0.1 | 1.2 |
| <b>LZMPAC</b>   | <b>11.0</b> | 0.1  | 0.9 | <b>62.0</b> | 0.3   | 0.8 | <b>53.7</b> | 0.2   | 0.2 | <b>23.7</b> | 0.3  | 0.7 |
|   |             | 0.5  | 1.0 |             | 3.1   | 1.7 |             | 2.1   | 0.6 |             | 1.2  | 1.5 |
| <b>BMDAYP</b>   | <b>7.8</b>  | -0.7 | 1.8 | <b>46.7</b> | -1.3  | 0.7 | <b>42.3</b> | -0.9  | 0.9 | <b>19.3</b> | -0.6 | 0.5 |
|   |             | -2.7 | 1.9 |             | -12.2 | 1.5 |             | -9.3  | 2.5 |             | -3.1 | 1.2 |
| <b>GAPFPH</b>   | <b>14.5</b> | 1.0  | 0.3 | <b>59.1</b> | 0.0   | 0.6 | <b>55.2</b> | 0.4   | 0.9 | <b>25.2</b> | 0.6  | 0.5 |
|   |             | 4.0  | 0.3 |             | 0.2   | 1.4 |             | 3.6   | 2.6 |             | 2.8  | 1.1 |
| <b>T84DB7</b>   | <b>15.2</b> | 1.2  | 0.2 | <b>74.2</b> | 1.6   | 1.5 | <b>71.6</b> | 2.0   | 0.3 | <b>30.4</b> | 1.6  | 1.1 |
|   |             | 4.7  | 0.2 |             | 15.3  | 3.4 |             | 20.0  | 0.7 |             | 8.0  | 2.3 |
| <b>PWWNK7</b>   | <b>12.0</b> | 0.4  |     | <b>62.0</b> | 0.3   |     | <b>53.0</b> | 0.1   |     | <b>24.0</b> | 0.3  | 1.1 |
|   |             | 1.5  | 0.0 |             | 3.1   | 0.0 |             | 1.4   | 0.0 |             | 1.6  | 0.0 |
| <b>2WG8UU</b>   | <b>11.8</b> | 0.3  | 2.7 | <b>57.5</b> | -0.1  | 0.3 | <b>54.2</b> | 0.3   | 1.4 | <b>25.4</b> | 0.6  | 1.7 |
|   |             | 1.3  | 3.0 |             | -1.4  | 0.6 |             | 2.6   | 4.0 |             | 3.0  | 3.7 |
| <b>8CMGZN</b>   | <b>8.3</b>  | -0.6 | 0.2 | <b>53.8</b> | -0.5  | 0.1 | <b>46.6</b> | -0.5  | 0.2 | <b>19.2</b> | -0.7 | 0.1 |
|   |             | -2.2 | 0.2 |             | -5.1  | 0.2 |             | -5.0  | 0.7 |             | -3.3 | 0.2 |



## ALP Program - Participant Web Summary Report - Cycle 29

|                          | Sample Mean        | Z Score | k Score | Sample Mean        | Z Score | k Score | Sample Mean        | Z Score | k Score |             | Z Score            | k Score |
|--------------------------|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|-------------|--------------------|---------|
|                          | Difference W/L STD |         |         | Difference W/L STD |         |         | Difference W/L STD |         |         |             | Difference W/L STD |         |
| <b>CPEWRJ</b>            | <b>6.1</b>         | -1.1    | 0.9     | <b>64.9</b>        | 0.6     | 1.2     | <b>55.7</b>        | 0.4     | 0.2     | <b>20.3</b> | -0.4               | 1.0     |
|                          |                    | -4.4    | 1.0     |                    | 6.0     | 2.7     |                    | 4.1     | 0.6     |             | -2.1               | 2.1     |
| <b>VBVLAX</b>            | <b>11.7</b>        | 0.3     | 0.8     | <b>63.7</b>        | 0.5     | 1.6     | <b>54.1</b>        | 0.3     | 1.9     | <b>25.7</b> | 0.7                | 0.9     |
|                          |                    | 1.2     | 0.8     |                    | 4.8     | 3.6     |                    | 2.5     | 5.5     |             | 3.2                | 1.9     |
| <b>AM2DUK</b>            | <b>23.4</b>        | 3.3     | 1.7     | <b>69.5</b>        | 1.1     | 0.2     | <b>68.2</b>        | 1.7     | 1.4     | <b>33.4</b> | 2.3                | 3.1     |
|                          |                    | 12.9    | 1.9     |                    | 10.6    | 0.4     |                    | 16.6    | 3.9     |             | 11.0               | 6.7     |
| <b>XHNEVW</b>            | <b>12.8</b>        | 0.6     | 0.6     | <b>66.2</b>        | 0.8     | 0.1     | <b>58.4</b>        | 0.7     | 0.4     | <b>24.8</b> | 0.5                | 0.1     |
|                          |                    | 2.3     | 0.7     |                    | 7.3     | 0.3     |                    | 6.8     | 1.2     |             | 2.4                | 0.2     |
| <b>WYZRCU</b>            | <b>6.6</b>         | -1.0    | 3.0     | <b>57.8</b>        | -0.1    | 0.5     | <b>47.0</b>        | -0.5    | 1.1     | <b>19.8</b> | -0.6               | 0.4     |
|                          |                    | -3.9    | 3.2     |                    | -1.1    | 1.2     |                    | -4.7    | 3.1     |             | -2.7               | 0.8     |
|                          | <b>11.1</b>        | 0.1     | 0.4     | <b>50.3</b>        | -0.9    | 0.5     | <b>45.7</b>        | -0.6    | 0.4     | <b>20.3</b> | -0.4               | 0.7     |
|                          |                    | 0.6     | 0.5     |                    | -8.6    | 1.1     |                    | -5.9    | 1.1     |             | -2.1               | 1.4     |
| <b>BHL3GF</b>            | <b>9.5</b>         | -0.3    | 0.4     | <b>57.3</b>        | -0.2    | 0.9     | <b>47.2</b>        | -0.5    | 0.4     | <b>19.8</b> | -0.6               | 0.1     |
|                          |                    | -1.0    | 0.4     |                    | -1.6    | 2.0     |                    | -4.5    | 1.0     |             | -2.7               | 0.3     |
| <b>MZGWVZ</b>            | <b>11.3</b>        | 0.2     | 0.3     | <b>52.0</b>        | -0.7    | 0.5     | <b>40.2</b>        | -1.2    | 0.4     | <b>19.0</b> | -0.7               | 0.3     |
|                          |                    | 0.7     | 0.3     |                    | -7.0    | 1.2     |                    | -11.4   | 1.2     |             | -3.4               | 0.7     |
| <b>DNM26B</b>            | <b>10.4</b>        | 0.0     | 0.1     | <b>58.7</b>        | 0.0     | 0.2     | <b>50.6</b>        | -0.1    | 0.5     | <b>22.5</b> | 0.0                | 0.2     |
|                          |                    | -0.2    | 0.1     |                    | -0.2    | 0.5     |                    | -1.0    | 1.4     |             | 0.1                | 0.4     |
| <b>6K828H</b>            | <b>9.1</b>         | -0.4    | 0.4     | <b>59.4</b>        | 0.1     | 0.5     | <b>51.0</b>        | -0.1    | 0.4     | <b>21.9</b> | -0.1               | 0.0     |
|                          |                    | -1.5    | 0.4     |                    | 0.5     | 1.1     |                    | -0.7    | 1.2     |             | -0.5               | 0.1     |
| <b>ZZZ3WM</b>            | <b>5.4</b>         | -1.3    | 1.4     | <b>54.5</b>        | -0.5    | 3.9     | <b>44.0</b>        | -0.8    | 3.6     | <b>8.7</b>  | -2.8               | 2.9     |
|                          |                    | -5.1    | 1.6     |                    | -4.5    | 8.7     |                    | -7.6    | 10.3    |             | -13.7              | 6.1     |
|                          |                    | 1.0     |         |                    | 1.5     |         |                    | 2.2     |         |             | 1.0                | 2.9     |
| <b>PHEWWY</b>            | <b>14.6</b>        | 4.1     | 0.0     | <b>73.5</b>        | 14.6    | 0.0     | <b>73.2</b>        | 21.6    | 0.0     | <b>27.3</b> | 4.9                | 0.0     |
|                          |                    | -0.1    | 0.2     |                    | -0.3    | 0.5     |                    | -0.2    | 0.4     |             | -0.1               | 0.1     |
| <b>J6NUD7</b>            | <b>10.2</b>        | -0.3    | 0.2     | <b>55.5</b>        | -3.4    | 1.2     | <b>49.9</b>        | -1.7    | 1.3     | <b>21.8</b> | -0.7               | 0.2     |
|                          |                    | -0.3    | 0.2     |                    | -0.2    | 0.4     |                    | -0.1    | 0.2     |             | -0.3               | 0.2     |
| <b>TRP93T</b>            | <b>9.3</b>         | -1.3    | 0.3     | <b>57.2</b>        | -1.7    | 0.9     | <b>50.6</b>        | -1.1    | 0.7     | <b>20.8</b> | -1.6               | 0.4     |
|                          |                    |         |         |                    |         |         |                    |         |         |             |                    |         |
| <b>Grand Median</b>      |                    | 10.5    |         | 58.9               |         |         | 51.6               |         |         | 22.4        |                    |         |
| <b>Median Abs Dev</b>    |                    | 1.5     |         | 3.9                |         |         | 3.3                |         |         | 2.2         |                    |         |
| <b>Avg Within Lab SD</b> |                    | 1.1     |         | 2.3                |         |         | 2.8                |         |         | 2.1         |                    |         |
| <b>Labs Included</b>     |                    | 34      |         | 34                 |         |         | 34                 |         |         | 34          |                    |         |
| <b>Labs Reporting</b>    |                    | 34      |         | 34                 |         |         | 34                 |         |         | 34          |                    |         |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 |       |     |
|----------------------|--------------------------------------|------|-----|--------------|-------|-----|-------------|-------|-----|-------------------|-------|-----|
|                      | SRBSRB1601                           |      |     | SRBSRB1602   |       |     | SRBSRB1603  |       |     |                   |       |     |
| <b>YAA32W</b>        | <b>6.3</b>                           | 1.1  | 0.5 | <b>103.0</b> | 0.6   | 0.7 | <b>64.9</b> | 0.6   | 0.4 | <b>44.6</b>       | 0.3   | 0.5 |
|                      |                                      | 1.1  | 0.4 |              | 6.8   | 1.9 |             | 5.0   | 1.1 |                   | 1.7   | 0.7 |
| <b>AAUKBK</b>        | <b>5.8</b>                           | 0.6  | 0.3 | <b>105.7</b> | 0.8   | 0.4 | <b>63.4</b> | 0.5   | 0.3 | <b>44.1</b>       | 0.2   | 0.7 |
|                      |                                      | 0.6  | 0.2 |              | 9.5   | 1.1 |             | 3.6   | 0.8 |                   | 1.3   | 1.0 |
| <b>GZ63WD</b>        | <b>4.0</b>                           | -1.2 | 1.4 | <b>94.7</b>  | -0.1  | 0.8 | <b>59.8</b> | 0.0   | 0.8 | <b>40.4</b>       | -0.5  | 1.0 |
|                      |                                      | -1.2 | 1.1 |              | -1.5  | 2.3 |             | -0.1  | 2.0 |                   | -2.5  | 1.5 |
| <b>CJTVUF</b>        | <b>6.2</b>                           | 1.0  | 0.9 | <b>112.5</b> | 1.4   | 2.4 | <b>69.0</b> | 1.2   | 1.6 | <b>49.2</b>       | 1.2   | 1.6 |
|                      |                                      | 1.0  | 0.7 |              | 16.3  | 6.8 |             | 9.1   | 4.2 |                   | 6.4   | 2.4 |
| <b>83L8FJ</b>        | <b>5.9</b>                           | 0.7  | 1.1 | <b>95.3</b>  | -0.1  | 0.2 | <b>60.7</b> | 0.1   | 0.6 | <b>43.3</b>       | 0.1   | 1.0 |
|                      |                                      | 0.7  | 0.9 |              | -0.9  | 0.6 |             | 0.8   | 1.5 |                   | 0.5   | 1.5 |
| <b>GBLMGA</b>        | <b>4.9</b>                           | -0.3 | 0.1 | <b>75.5</b>  | -1.8  | 0.0 | <b>47.9</b> | -1.5  | 0.4 | <b>37.4</b>       | -1.0  | 0.2 |
|                      |                                      | -0.3 | 0.1 |              | -20.7 | 0.1 |             | -11.9 | 1.0 |                   | -5.5  | 0.4 |
| <b>2GK3BP</b>        | <b>5.8</b>                           | 0.6  | 1.3 | <b>95.4</b>  | -0.1  | 0.4 | <b>62.1</b> | 0.3   | 0.7 | <b>43.8</b>       | 0.2   | 0.8 |
|                      |                                      | 0.6  | 1.1 |              | -0.8  | 1.2 |             | 2.3   | 1.8 |                   | 0.9   | 1.2 |
| <b>33JQFQ</b>        | <b>6.0</b>                           | 0.8  | 1.2 | <b>93.3</b>  | -0.3  | 0.5 | <b>59.7</b> | 0.0   | 0.6 | <b>40.7</b>       | -0.4  | 0.4 |
|                      |                                      | 0.8  | 1.0 |              | -2.9  | 1.5 |             | -0.2  | 1.5 |                   | -2.2  | 0.6 |
| <b>9JP2MJ</b>        | <b>6.1</b>                           | 0.9  | 0.2 | <b>111.6</b> | 1.3   | 0.6 | <b>68.4</b> | 1.1   | 0.7 | <b>38.8</b>       | -0.7  | 0.4 |
|                      |                                      | 0.9  | 0.2 |              | 15.3  | 1.8 |             | 8.5   | 1.9 |                   | -4.0  | 0.7 |
| <b>PFR9KY</b>        | <b>0.0</b>                           | -5.2 | 0.0 | <b>76.0</b>  | -1.8  | 2.5 | <b>35.4</b> | -3.2  | 1.1 | <b>18.2</b>       | -4.6  | 1.6 |
|                      |                                      | -5.2 | 0.0 |              | -20.2 | 7.2 |             | -24.4 | 2.9 |                   | -24.6 | 2.4 |
| <b>J42726</b>        | <b>4.7</b>                           | -0.5 | 0.7 | <b>90.3</b>  | -0.5  | 0.2 | <b>57.7</b> | -0.3  | 0.4 | <b>39.7</b>       | -0.6  | 1.0 |
|                      |                                      | -0.5 | 0.6 |              | -5.9  | 0.6 |             | -2.2  | 1.2 |                   | -3.2  | 1.5 |
| <b>WGX7VT</b>        | <b>4.7</b>                           | -0.5 | 0.0 | <b>99.0</b>  | 0.2   | 0.4 | <b>64.1</b> | 0.5   | 0.2 | <b>43.5</b>       | 0.1   | 0.3 |
|                      |                                      | -0.5 | 0.0 |              | 2.8   | 1.0 |             | 4.2   | 0.5 |                   | 0.7   | 0.4 |
| <b>RMZ998</b>        | <b>5.0</b>                           | -0.2 |     | <b>98.7</b>  | 0.2   | 2.2 | <b>61.3</b> | 0.2   | 0.8 | <b>44.0</b>       | 0.2   | 1.3 |
|                      |                                      | -0.2 | 0.0 |              | 2.4   | 6.4 |             | 1.5   | 2.1 |                   | 1.2   | 2.0 |
| <b>LZMPAC</b>        | <b>6.7</b>                           | 1.5  | 0.7 | <b>107.7</b> | 1.0   | 0.4 | <b>69.7</b> | 1.3   | 0.8 | <b>46.3</b>       | 0.7   | 1.0 |
|                      |                                      | 1.5  | 0.6 |              | 11.4  | 1.2 |             | 9.8   | 2.1 |                   | 3.5   | 1.5 |
| <b>BMDAYP</b>        | <b>5.5</b>                           | 0.3  | 0.2 | <b>83.3</b>  | -1.1  | 1.0 | <b>51.7</b> | -1.1  | 0.6 | <b>37.3</b>       | -1.0  | 1.9 |
|                      |                                      | 0.3  | 0.2 |              | -12.9 | 2.9 |             | -8.2  | 1.5 |                   | -5.5  | 2.9 |
| <b>GAPFPH</b>        | <b>4.9</b>                           | -0.3 | 0.2 | <b>83.3</b>  | -1.1  | 1.5 | <b>56.6</b> | -0.4  | 1.0 | <b>44.2</b>       | 0.3   | 1.1 |
|                      |                                      | -0.3 | 0.1 |              | -12.9 | 4.3 |             | -3.2  | 2.6 |                   | 1.4   | 1.6 |
| <b>T84DB7</b>        | <b>6.6</b>                           | 1.4  | 0.2 | <b>122.1</b> | 2.2   | 0.7 | <b>81.7</b> | 2.8   | 0.0 | <b>58.2</b>       | 2.9   | 0.7 |
|                      |                                      | 1.4  | 0.2 |              | 25.9  | 2.1 |             | 21.8  | 0.1 |                   | 15.4  | 1.0 |
| <b>PWWNK7</b>        |                                      |      |     | <b>81.0</b>  | -1.3  |     | <b>41.0</b> | -2.4  |     | <b>23.0</b>       | -3.7  | 0.7 |
|                      |                                      |      |     |              | -15.2 | 0.0 |             | -18.8 | 0.0 |                   | -19.8 | 0.0 |
| <b>2WG8UU</b>        | <b>5.1</b>                           | -0.1 | 0.2 | <b>94.7</b>  | -0.1  | 1.2 | <b>59.7</b> | 0.0   | 1.1 | <b>40.8</b>       | -0.4  | 1.3 |
|                      |                                      | -0.1 | 0.2 |              | -1.5  | 3.4 |             | -0.2  | 3.0 |                   | -2.0  | 2.0 |
| <b>8CMGZN</b>        | <b>4.6</b>                           | -0.6 | 0.1 | <b>87.8</b>  | -0.7  | 0.4 | <b>55.4</b> | -0.6  | 0.4 | <b>38.6</b>       | -0.8  | 0.6 |
|                      |                                      | -0.6 | 0.1 |              | -8.4  | 1.1 |             | -4.5  | 1.1 |                   | -4.3  | 0.9 |



## ALP Program - Participant Web Summary Report - Cycle 29

|                          | 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>CPEWRJ</b>            | <b>5.4</b>         | 0.3     | 1.3     | <b>93.4</b>        | -0.2    | 1.7     | <b>58.5</b>        | -0.2    | 0.2     | <b>40.8</b> | -0.4 | 2.6 |
|                          |                    | 0.3     | 1.1     |                    | -2.8    | 4.7     |                    | -1.4    | 0.6     |             | -2.1 | 3.8 |
| <b>VBVLAX</b>            | <b>5.3</b>         | 0.1     | 0.4     | <b>99.6</b>        | 0.3     | 1.8     | <b>61.2</b>        | 0.2     | 3.3     | <b>44.3</b> | 0.3  | 1.5 |
|                          |                    | 0.1     | 0.3     |                    | 3.3     | 5.1     |                    | 1.4     | 8.5     |             | 1.5  | 2.3 |
| <b>AM2DUK</b>            | <b>4.7</b>         | -0.5    | 0.1     | <b>97.1</b>        | 0.1     | 1.7     | <b>62.4</b>        | 0.3     | 0.9     | <b>43.5</b> | 0.1  | 1.2 |
|                          |                    | -0.5    | 0.1     |                    | 0.9     | 4.9     |                    | 2.6     | 2.3     |             | 0.7  | 1.8 |
| <b>XHNEVW</b>            | <b>5.6</b>         | 0.5     | 0.3     | <b>111.4</b>       | 1.3     | 0.1     | <b>69.3</b>        | 1.2     | 0.2     | <b>47.0</b> | 0.8  | 0.5 |
|                          |                    | 0.5     | 0.2     |                    | 15.1    | 0.3     |                    | 9.4     | 0.4     |             | 4.2  | 0.7 |
| <b>WYZRCU</b>            | <b>3.7</b>         | -1.5    | 2.2     | <b>106.3</b>       | 0.9     | 0.7     | <b>59.8</b>        | 0.0     | 2.6     | <b>42.8</b> | 0.0  | 0.1 |
|                          |                    | -1.5    | 1.8     |                    | 10.1    | 2.1     |                    | 0.0     | 6.9     |             | 0.0  | 0.2 |
|                          | <b>5.3</b>         | 0.1     | 0.6     | <b>96.2</b>        | 0.0     | 0.5     | <b>59.2</b>        | -0.1    | 0.2     | <b>43.4</b> | 0.1  | 0.3 |
|                          |                    | 0.1     | 0.5     |                    | 0.0     | 1.5     |                    | -0.6    | 0.6     |             | 0.6  | 0.4 |
| <b>BHL3GF</b>            | <b>4.7</b>         | -0.5    | 0.2     | <b>97.6</b>        | 0.1     | 1.4     | <b>58.4</b>        | -0.2    | 0.7     | <b>40.0</b> | -0.5 | 0.5 |
|                          |                    | -0.5    | 0.2     |                    | 1.3     | 3.9     |                    | -1.5    | 1.9     |             | -2.9 | 0.7 |
| <b>MZGWVZ</b>            | <b>4.5</b>         | -0.7    | 0.4     | <b>89.5</b>        | -0.6    | 0.7     | <b>47.7</b>        | -1.6    | 0.4     | <b>37.5</b> | -1.0 | 0.6 |
|                          |                    | -0.7    | 0.4     |                    | -6.8    | 1.9     |                    | -12.1   | 1.1     |             | -5.3 | 0.8 |
| <b>DNM26B</b>            | <b>5.7</b>         | 0.5     | 0.2     | <b>106.7</b>       | 0.9     | 0.2     | <b>65.0</b>        | 0.7     | 1.0     | <b>43.4</b> | 0.1  | 0.4 |
|                          |                    | 0.5     | 0.1     |                    | 10.4    | 0.6     |                    | 5.1     | 2.5     |             | 0.5  | 0.7 |
| <b>6K828H</b>            | <b>3.4</b>         | -1.8    | 0.7     | <b>95.5</b>        | -0.1    | 0.1     | <b>58.7</b>        | -0.1    | 0.2     | <b>38.5</b> | -0.8 | 0.6 |
|                          |                    | -1.8    | 0.6     |                    | -0.7    | 0.3     |                    | -1.1    | 0.5     |             | -4.3 | 0.9 |
| <b>ZZZ3WM</b>            | <b>4.3</b>         | -0.9    | 3.9     | <b>95.5</b>        | -0.1    | 1.1     | <b>54.7</b>        | -0.7    | 1.4     | <b>34.6</b> | -1.5 | 1.8 |
|                          |                    | -0.9    | 3.2     |                    | -0.7    | 3.1     |                    | -5.1    | 3.7     |             | -8.2 | 2.7 |
| <b>PHEWWY</b>            | <b>6.1</b>         | 0.9     |         | <b>121.0</b>       | 2.2     |         | <b>71.2</b>        | 1.5     |         | <b>49.8</b> | 1.3  | 1.8 |
|                          |                    | 0.9     | 0.0     |                    | 24.8    | 0.0     |                    | 11.4    | 0.0     |             | 7.0  | 0.0 |
| <b>J6NUD7</b>            | <b>5.3</b>         | 0.1     | 0.1     | <b>98.0</b>        | 0.1     | 0.9     | <b>61.9</b>        | 0.3     | 1.1     | <b>43.3</b> | 0.1  | 0.4 |
|                          |                    | 0.1     | 0.1     |                    | 1.7     | 2.5     |                    | 2.0     | 2.8     |             | 0.5  | 0.5 |
| <b>TRP93T</b>            | <b>4.8</b>         | -0.4    | 0.3     | <b>99.7</b>        | 0.3     | 0.5     | <b>62.1</b>        | 0.3     | 0.3     | <b>42.5</b> | -0.1 | 0.2 |
|                          |                    | -0.4    | 0.2     |                    | 3.4     | 1.5     |                    | 2.3     | 0.8     |             | -0.3 | 0.4 |
| <b>Grand Median</b>      |                    | 5.19    |         | 96.2               |         |         | 59.8               |         |         | 42.8        |      |     |
| <b>Median Abs Dev</b>    |                    | 0.57    |         | 5.9                |         |         | 3.2                |         |         | 2.2         |      |     |
| <b>Avg Within Lab SD</b> |                    | 0.82    |         | 2.8                |         |         | 2.6                |         |         | 1.5         |      |     |
| <b>Labs Included</b>     |                    | 32      |         | 33                 |         |         | 33                 |         |         | 33          |      |     |
| <b>Labs Reporting</b>    |                    | 32      |         | 33                 |         |         | 33                 |         |         | 33          |      |     |





## ALP Program - Participant Web Summary Report - Cycle 29

| 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) <span style="float: right;">Data units: mg/kg</span> |             |       |      |              |       |      |              |       |      |              |       |      |
|---|-------------|-------|------|--------------|-------|------|--------------|-------|------|--------------|-------|------|
|   | SRBSRB1601  |       |      | SRBSRB1602   |       |      | SRBSRB1603   |       |      |              |       |      |
| <b>YAA32W</b>   | <b>47.4</b> | -0.5  | 0.1  | <b>127.3</b> | 0.0   | 0.2  | <b>255.4</b> | 0.3   | 0.4  | <b>198.1</b> | -0.1  | 0.1  |
|   |             | -8.6  | 0.6  |              | 0.3   | 1.1  |              | 10.9  | 5.7  | <b>198.1</b> | -1.8  | 0.8  |
| <b>AAUKBK</b>   | <b>86.5</b> | 1.7   | 0.1  | <b>147.5</b> | 0.9   | 0.4  | <b>274.7</b> | 0.7   | 0.3  | <b>251.3</b> | 1.7   | 1.1  |
|   |             | 30.5  | 1.1  |              | 20.5  | 2.8  |              | 30.2  | 3.8  |              | 51.5  | 14.5 |
| <b>GZ63WD</b>   | <b>60.6</b> | 0.3   | 1.8  | <b>121.0</b> | -0.3  | 0.4  | <b>226.9</b> | -0.4  | 0.2  | <b>194.6</b> | -0.2  | 0.4  |
|   |             | 4.6   | 15.5 |              | -6.0  | 3.1  |              | -17.6 | 2.7  |              | -5.3  | 5.7  |
| <b>CJTVUF</b>   | <b>70.2</b> | 0.8   | 2.0  | <b>163.5</b> | 1.6   | 0.8  | <b>321.7</b> | 1.8   | 0.9  | <b>251.2</b> | 1.7   | 1.7  |
|   |             | 14.3  | 17.3 |              | 36.5  | 5.9  |              | 77.2  | 12.4 |              | 51.4  | 22.7 |
| <b>83L8FJ</b>   | <b>71.2</b> | 0.8   | 0.5  | <b>146.3</b> | 0.9   | 0.4  | <b>242.7</b> | 0.0   | 0.4  | <b>209.7</b> | 0.3   | 0.3  |
|   |             | 15.2  | 4.7  |              | 19.4  | 3.1  |              | -1.8  | 5.5  |              | 9.8   | 3.5  |
| <b>GBLMGA</b>   | <b>47.5</b> | -0.5  | 0.3  | <b>100.6</b> | -1.2  | 0.3  | <b>192.2</b> | -1.2  | 0.1  | <b>176.8</b> | -0.7  | 0.1  |
|   |             | -8.5  | 2.7  |              | -26.4 | 2.4  |              | -52.3 | 2.0  |              | -23.0 | 1.3  |
| <b>2GK3BP</b>   | <b>98.5</b> | 2.4   | 1.9  | <b>141.5</b> | 0.6   | 2.3  | <b>262.0</b> | 0.4   | 1.7  | <b>229.1</b> | 0.9   | 0.9  |
|   |             | 42.6  | 16.2 |              | 14.5  | 17.1 |              | 17.5  | 23.8 |              | 29.3  | 12.4 |
| <b>33JQFQ</b>   | <b>58.3</b> | 0.1   | 0.4  | <b>117.7</b> | -0.4  | 1.4  | <b>195.0</b> | -1.2  | 0.1  | <b>175.3</b> | -0.8  | 0.5  |
|   |             | 2.4   | 3.8  |              | -9.3  | 10.3 |              | -49.5 | 1.7  |              | -24.5 | 6.8  |
| <b>9JP2MJ</b>   | <b>96.1</b> | 2.2   | 1.5  | <b>187.3</b> | 2.6   | 1.0  | <b>282.5</b> | 0.9   | 0.5  | <b>201.6</b> | 0.1   | 0.7  |
|   |             | 40.2  | 13.3 |              | 60.3  | 7.5  |              | 38.0  | 6.4  |              | 1.8   | 9.1  |
| <b>PFR9KY</b>   | <b>26.1</b> | -1.7  | 0.5  | <b>108.8</b> | -0.8  | 1.8  | <b>233.7</b> | -0.3  | 0.5  | <b>193.3</b> | -0.2  | 0.3  |
|   |             | -29.9 | 4.2  |              | -18.2 | 13.1 |              | -10.8 | 7.1  |              | -6.5  | 4.2  |
| <b>J42726</b>   | <b>45.0</b> | -0.6  | 0.5  | <b>126.7</b> | 0.0   | 0.1  | <b>263.7</b> | 0.5   | 0.5  | <b>211.3</b> | 0.4   | 0.2  |
|   |             | -11.0 | 4.6  |              | -0.3  | 0.6  |              | 19.2  | 6.7  |              | 11.5  | 3.2  |
| <b>WGX7VT</b>   | <b>44.3</b> | -0.6  | 0.0  | <b>129.0</b> | 0.1   | 0.1  | <b>257.0</b> | 0.3   | 0.1  | <b>205.0</b> | 0.2   | 0.1  |
|   |             | -11.7 | 0.1  |              | 2.0   | 1.0  |              | 12.5  | 1.0  |              | 5.2   | 1.0  |
| <b>RMZ998</b>   | <b>43.0</b> | -0.7  | 0.4  | <b>118.0</b> | -0.4  | 0.8  | <b>228.7</b> | -0.4  | 0.6  | <b>221.3</b> | 0.7   | 0.7  |
|   |             | -13.0 | 3.5  |              | -9.0  | 6.1  |              | -15.8 | 8.7  |              | 21.5  | 9.2  |
| <b>LZMPAC</b>   | <b>62.7</b> | 0.4   | 2.1  | <b>112.0</b> | -0.7  | 0.4  | <b>203.3</b> | -1.0  | 0.4  | <b>205.0</b> | 0.2   | 1.2  |
|   |             | 6.7   | 18.2 |              | -15.0 | 3.0  |              | -41.2 | 5.5  |              | 5.2   | 16.1 |
| <b>BMDAYP</b>   | <b>50.0</b> | -0.3  | 0.6  | <b>91.3</b>  | -1.6  | 0.3  | <b>160.0</b> | -2.0  |      | <b>160.7</b> | -1.3  | 0.7  |
|   |             | -6.0  | 5.0  |              | -35.6 | 2.1  |              | -84.5 | 0.0  |              | -39.2 | 9.3  |
| <b>GAPFPH</b>   | <b>50.7</b> | -0.3  | 0.1  | <b>120.5</b> | -0.3  | 0.6  | <b>246.4</b> | 0.0   | 0.6  | <b>208.6</b> | 0.3   | 0.6  |
|   |             | -5.3  | 0.6  |              | -6.4  | 4.3  |              | 1.8   | 8.9  |              | 8.7   | 8.3  |
| <b>T84DB7</b>   | <b>70.9</b> | 0.8   | 1.2  | <b>169.4</b> | 1.9   | 0.7  | <b>362.0</b> | 2.8   | 1.0  | <b>292.8</b> | 3.0   | 0.5  |
|   |             | 14.9  | 10.7 |              | 42.5  | 5.3  |              | 117.4 | 14.1 |              | 93.0  | 7.0  |
| <b>PWWNK7</b>   | <b>42.0</b> | -0.8  |      | <b>105.0</b> | -1.0  |      | <b>220.0</b> | -0.6  |      | <b>196.0</b> | -0.1  | 0.5  |
|   |             | -14.0 | 0.0  |              | -22.0 | 0.0  |              | -24.5 | 0.0  |              | -3.8  | 0.0  |
| <b>2WG8UU</b>   | <b>67.4</b> | 0.6   | 1.4  | <b>129.8</b> | 0.1   | 0.7  | <b>252.1</b> | 0.2   | 1.6  | <b>206.2</b> | 0.2   | 2.6  |
|   |             | 11.4  | 12.2 |              | 2.8   | 5.1  |              | 7.6   | 22.0 |              | 6.3   | 34.5 |
| <b>8CMGZN</b>   | <b>58.3</b> | 0.1   | 0.2  | <b>130.9</b> | 0.2   | 0.2  | <b>234.5</b> | -0.2  | 0.4  | <b>194.1</b> | -0.2  | 0.2  |
|   |             | 2.3   | 1.6  |              | 3.9   | 1.6  |              | -10.0 | 5.4  |              | -5.8  | 3.0  |



## ALP Program - Participant Web Summary Report - Cycle 29

|                          | 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>CPEWRJ</b>            | <b>65.8</b>        | 0.5     | 1.1     | <b>131.3</b>       | 0.2     | 1.0     | <b>257.6</b>       | 0.3     | 0.3     | <b>211.8</b> | 0.4   | 1.6  |
|                          |                    | 9.8     | 9.7     |                    | 4.4     | 7.0     |                    | 13.1    | 4.2     |              | 12.0  | 20.6 |
| <b>VBVLAX</b>            | <b>58.9</b>        | 0.2     | 0.5     | <b>132.0</b>       | 0.2     | 0.9     | <b>262.0</b>       | 0.4     | 1.5     | <b>232.0</b> | 1.0   | 0.7  |
|                          |                    | 2.9     | 4.2     |                    | 5.0     | 6.6     |                    | 17.5    | 21.3    |              | 32.2  | 8.7  |
| <b>AM2DUK</b>            | <b>24.4</b>        | -1.7    | 0.4     | <b>65.0</b>        | -2.7    | 0.6     | <b>132.3</b>       | -2.6    | 0.2     | <b>110.7</b> | -2.9  | 0.5  |
|                          |                    | -31.6   | 3.8     |                    | -61.9   | 4.4     |                    | -112.2  | 2.5     |              | -89.2 | 6.1  |
| <b>XHNEVW</b>            | <b>61.6</b>        | 0.3     | 0.4     | <b>132.3</b>       | 0.2     | 1.2     | <b>250.4</b>       | 0.1     | 0.1     | <b>189.0</b> | -0.4  | 0.4  |
|                          |                    | 5.6     | 3.2     |                    | 5.4     | 8.5     |                    | 5.9     | 1.6     |              | -10.8 | 5.6  |
| <b>WYZRCU</b>            | <b>36.7</b>        | -1.1    | 2.2     | <b>114.8</b>       | -0.5    | 1.9     | <b>221.3</b>       | -0.5    | 3.7     | <b>195.0</b> | -0.2  | 0.2  |
|                          |                    | -19.3   | 19.2    |                    | -12.2   | 14.1    |                    | -23.2   | 51.7    |              | -4.8  | 3.0  |
|                          | <b>62.9</b>        | 0.4     | 1.5     | <b>121.7</b>       | -0.2    | 0.2     | <b>233.0</b>       | -0.3    | 0.5     | <b>218.3</b> | 0.6   | 2.8  |
|                          |                    | 6.9     | 13.3    |                    | -5.3    | 1.5     |                    | -11.5   | 6.9     |              | 18.5  | 37.0 |
| <b>BHL3GF</b>            | <b>50.4</b>        | -0.3    | 0.3     | <b>122.7</b>       | -0.2    | 0.3     | <b>231.3</b>       | -0.3    | 0.5     | <b>180.0</b> | -0.6  | 0.5  |
|                          |                    | -5.5    | 2.5     |                    | -4.3    | 2.3     |                    | -13.2   | 7.6     |              | -19.8 | 6.1  |
| <b>MZGWVZ</b>            | <b>53.7</b>        | -0.1    | 1.4     | <b>106.1</b>       | -0.9    | 0.3     | <b>180.9</b>       | -1.5    | 0.4     | <b>163.0</b> | -1.2  | 0.5  |
|                          |                    | -2.3    | 11.9    |                    | -20.9   | 2.3     |                    | -63.6   | 5.6     |              | -36.9 | 7.2  |
| <b>DNM26B</b>            | <b>50.0</b>        | -0.3    | 0.3     | <b>129.3</b>       | 0.1     | 0.2     | <b>241.3</b>       | -0.1    | 0.4     | <b>176.7</b> | -0.7  | 0.1  |
|                          |                    | -6.0    | 3.0     |                    | 2.4     | 1.2     |                    | -3.2    | 5.7     |              | -23.2 | 1.2  |
| <b>6K828H</b>            | <b>49.0</b>        | -0.4    | 0.4     | <b>130.4</b>       | 0.2     | 0.1     | <b>251.9</b>       | 0.2     | 0.3     | <b>190.0</b> | -0.3  | 0.4  |
|                          |                    | -7.0    | 3.2     |                    | 3.4     | 1.1     |                    | 7.4     | 3.6     |              | -9.8  | 5.8  |
| <b>ZZZ3WM</b>            | <b>47.6</b>        | -0.5    | 0.1     | <b>118.8</b>       | -0.4    | 3.3     | <b>247.1</b>       | 0.1     | 2.4     | <b>187.9</b> | -0.4  | 2.2  |
|                          |                    | -8.4    | 0.9     |                    | -8.2    | 23.9    |                    | 2.5     | 33.5    |              | -12.0 | 29.3 |
| <b>PHEWWY</b>            | <b>58.7</b>        | 0.2     |         | <b>148.0</b>       | 0.9     |         | <b>268.0</b>       | 0.6     |         | <b>211.0</b> | 0.4   | 2.2  |
|                          |                    | 2.7     | 0.0     |                    | 21.0    | 0.0     |                    | 23.5    | 0.0     |              | 11.2  | 0.0  |
| <b>J6NUD7</b>            | <b>59.7</b>        | 0.2     | 0.3     | <b>118.7</b>       | -0.4    | 0.5     | <b>231.2</b>       | -0.3    | 0.8     | <b>186.9</b> | -0.4  | 0.3  |
|                          |                    | 3.8     | 3.0     |                    | -8.3    | 3.8     |                    | -13.3   | 11.3    |              | -13.0 | 4.6  |
| <b>TRP93T</b>            | <b>46.7</b>        | -0.5    | 0.5     | <b>135.7</b>       | 0.4     | 0.6     | <b>267.3</b>       | 0.5     | 0.5     | <b>210.7</b> | 0.3   | 0.6  |
|                          |                    | -9.3    | 4.0     |                    | 8.7     | 4.0     |                    | 22.8    | 6.4     |              | 10.8  | 8.3  |
| <b>Grand Median</b>      |                    | 56.0    |         | 127.0              |         |         | 244.5              |         |         | 199.8        |       |      |
| <b>Median Abs Dev</b>    |                    | 8.5     |         | 8.8                |         |         | 17.5               |         |         | 11.7         |       |      |
| <b>Avg Within Lab SD</b> |                    | 8.7     |         | 7.3                |         |         | 13.8               |         |         | 13.1         |       |      |
| <b>Labs Included</b>     |                    | 34      |         | 34                 |         |         | 34                 |         |         | 34           |       |      |
| <b>Labs Reporting</b>    |                    | 34      |         | 34                 |         |         | 34                 |         |         | 34           |       |      |



## ALP Program - Participant Web Summary Report - Cycle 29

|                    |         |         |                    |         |         |                    |         |         |
|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|
| 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) <span style="float: right;">Data units: mg/kg</span> |            |      |     |            |      |     |            |       |      |      |      |     |
|---|------------|------|-----|------------|------|-----|------------|-------|------|------|------|-----|
|   | SRBSRB1601 |      |     | SRBSRB1602 |      |     | SRBSRB1603 |       |      |      |      |     |
| YAA32W  | 3.7        | 0.6  | 0.7 | 13.1       | 0.6  | 0.4 | 57.9       | 0.8   | 0.2  | 9.8  | 0.4  | 0.4 |
|   |            | 0.5  | 0.4 |            | 1.1  | 0.4 |            | 5.6   | 0.8  |      | 0.7  | 0.3 |
| AAUKBK  | 3.2        | 0.0  | 0.4 | 14.2       | 1.2  | 0.1 | 57.6       | 0.8   | 0.2  | 9.6  | 0.3  | 0.6 |
|   |            | 0.0  | 0.2 |            | 2.1  | 0.1 |            | 5.3   | 0.8  |      | 0.5  | 0.5 |
| GZ63WD  | 2.9        | -0.3 | 0.5 | 10.3       | -0.9 | 1.5 | 51.4       | -0.1  | 0.7  | 8.8  | -0.2 | 0.5 |
|   |            | -0.3 | 0.3 |            | -1.7 | 1.5 |            | -0.9  | 2.9  |      | -0.4 | 0.4 |
| CJTVUF  | 3.5        | 0.3  | 0.5 | 13.5       | 0.8  | 0.7 | 58.0       | 0.8   | 0.4  | 10.5 | 0.8  | 0.9 |
|   |            | 0.3  | 0.3 |            | 1.5  | 0.7 |            | 5.7   | 1.7  |      | 1.4  | 0.7 |
| 83L8FJ  | 2.9        | -0.3 | 0.1 | 12.2       | 0.1  | 0.2 | 51.8       | -0.1  | 0.3  | 9.1  | 0.0  | 0.2 |
|   |            | -0.3 | 0.1 |            | 0.2  | 0.2 |            | -0.5  | 1.5  |      | 0.0  | 0.2 |
| GBLMGA  | 1.7        | -1.6 | 0.3 | 8.9        | -1.7 | 0.1 | 45.2       | -1.0  | 0.6  | 7.5  | -1.0 | 0.2 |
|   |            | -1.4 | 0.1 |            | -3.1 | 0.1 |            | -7.2  | 2.5  |      | -1.7 | 0.1 |
| 2GK3BP  | 3.7        | 0.6  | 0.3 | 12.2       | 0.1  | 0.2 | 52.8       | 0.1   | 0.9  | 9.7  | 0.4  | 0.2 |
|   |            | 0.6  | 0.2 |            | 0.1  | 0.2 |            | 0.5   | 4.0  |      | 0.6  | 0.1 |
| 33JQFQ  | 4.0        | 0.9  | 0.0 | 13.3       | 0.7  | 0.6 | 48.3       | -0.6  | 0.3  | 10.3 | 0.7  | 0.7 |
|   |            | 0.8  | 0.0 |            | 1.3  | 0.6 |            | -4.0  | 1.5  |      | 1.2  | 0.6 |
| 9JP2MJ  | 2.4        | -0.9 | 0.1 | 14.5       | 1.3  | 2.0 | 44.8       | -1.1  | 4.4  | 8.5  | -0.4 | 0.3 |
|   |            | -0.8 | 0.1 |            | 2.5  | 2.0 |            | -7.5  | 19.3 |      | -0.7 | 0.2 |
| PFR9KY  | 3.5        | 0.4  | 0.9 | 11.6       | -0.3 | 1.6 | 53.4       | 0.2   | 0.6  | 8.5  | -0.4 | 0.7 |
|   |            | 0.3  | 0.5 |            | -0.5 | 1.7 |            | 1.1   | 2.7  |      | -0.6 | 0.5 |
| J42726  | 3.0        | -0.2 | 0.0 | 12.0       | 0.0  | 0.0 | 53.7       | 0.2   | 0.1  | 9.0  | -0.1 | 0.7 |
|   |            | -0.2 | 0.0 |            | -0.1 | 0.0 |            | 1.4   | 0.6  |      | -0.2 | 0.0 |
| WGX7VT  | 3.4        | 0.3  | 0.0 | 14.2       | 1.2  | 0.1 | 55.2       | 0.4   | 0.2  | 10.9 | 1.0  | 0.2 |
|   |            | 0.3  | 0.0 |            | 2.2  | 0.1 |            | 2.9   | 0.8  |      | 1.7  | 0.2 |
| RMZ998  | 3.3        | 0.2  | 1.0 | 11.7       | -0.2 | 0.0 | 49.3       | -0.4  | 0.6  | 10.0 | 0.5  | 0.2 |
|   |            | 0.2  | 0.6 |            | -0.4 | 1.2 |            | -3.0  | 2.5  |      | 0.8  | 0.0 |
| LZMPAC  | 3.3        | 0.2  | 1.0 | 12.0       | 0.0  | 0.0 | 68.0       | 2.2   | 0.6  | 10.0 | 0.5  | 0.2 |
|   |            | 0.2  | 0.6 |            | -0.1 | 0.0 |            | 15.7  | 2.6  |      | 0.8  | 0.0 |
| BMDAYP  | 3.8        | 0.6  | 0.5 | 12.3       | 0.1  | 0.6 | 46.0       | -0.9  | 0.6  | 9.2  | 0.0  | 1.2 |
|   |            | 0.6  | 0.3 |            | 0.3  | 0.6 |            | -6.3  | 2.6  |      | 0.0  | 0.9 |
| GAPFPH  | 3.8        | 0.6  | 0.1 | 11.3       | -0.4 | 0.4 | 50.8       | -0.2  | 0.6  | 9.4  | 0.2  | 0.1 |
|   |            | 0.6  | 0.1 |            | -0.7 | 0.4 |            | -1.5  | 2.5  |      | 0.3  | 0.1 |
| T84DB7  | 3.9        | 0.7  | 1.4 | 13.5       | 0.8  | 0.2 | 58.7       | 0.9   | 0.1  | 10.7 | 0.9  | 1.1 |
|   |            | 0.7  | 0.8 |            | 1.4  | 0.2 |            | 6.4   | 0.2  |      | 1.5  | 0.8 |
| PWWNK7  | 2.0        | -1.3 | 0.0 | 13.0       | 0.5  | 0.0 | 59.0       | 0.9   | 0.0  | 12.0 | 1.7  | 1.1 |
|   |            | -1.2 | 0.0 |            | 0.9  | 0.0 |            | 6.7   | 0.0  |      | 2.8  | 0.0 |
| 2WG8UU  | 4.5        | 1.4  | 1.7 | 11.9       | -0.1 | 0.7 | 52.9       | 0.1   | 0.5  | 8.8  | -0.2 | 1.1 |
|   |            | 1.3  | 0.9 |            | -0.2 | 0.7 |            | 0.6   | 2.3  |      | -0.3 | 0.9 |
| 8CMGZN  | 1.7        | -1.6 | 0.1 | 7.8        | -2.3 | 0.2 | 36.3       | -2.3  | 0.2  | 5.4  | -2.3 | 0.2 |
|   |            | -1.5 | 0.1 |            | -4.3 | 0.2 |            | -16.0 | 1.1  |      | -3.8 | 0.1 |



## ALP Program - Participant Web Summary Report - Cycle 29

|                          | 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>CPEWRJ</b>            | <b>3.3</b>         | 0.1     | 0.5     | <b>14.4</b>        | 1.3     | 0.5     | <b>56.9</b>        | 0.6     | 0.1     | <b>10.4</b> | 0.7  | 1.1 |
|                          |                    | 0.1     | 0.3     |                    | 2.4     | 0.5     |                    | 4.6     | 0.7     |             | 1.2  | 0.9 |
| <b>VBVLAX</b>            | <b>2.7</b>         | -0.6    | 0.5     | <b>11.5</b>        | -0.3    | 1.0     | <b>48.7</b>        | -0.5    | 1.3     | <b>9.2</b>  | 0.0  | 1.1 |
|                          |                    | -0.5    | 0.3     |                    | -0.6    | 1.0     |                    | -3.6    | 5.7     |             | 0.0  | 0.8 |
| <b>AM2DUK</b>            | <b>3.4</b>         | 0.2     | 0.3     | <b>12.2</b>        | 0.1     | 0.6     | <b>57.7</b>        | 0.8     | 2.2     | <b>9.8</b>  | 0.4  | 0.7 |
|                          |                    | 0.2     | 0.2     |                    | 0.1     | 0.6     |                    | 5.4     | 9.5     |             | 0.6  | 0.6 |
| <b>XHNEVW</b>            | <b>3.2</b>         | 0.0     | 0.6     | <b>13.9</b>        | 1.0     | 0.3     | <b>58.8</b>        | 0.9     | 0.2     | <b>10.1</b> | 0.6  | 0.2 |
|                          |                    | 0.0     | 0.3     |                    | 1.8     | 0.3     |                    | 6.5     | 0.7     |             | 0.9  | 0.2 |
| <b>WYZRCU</b>            | <b>1.9</b>         | -1.3    | 1.6     | <b>12.1</b>        | 0.0     | 0.8     | <b>50.3</b>        | -0.3    | 0.8     | <b>8.6</b>  | -0.4 | 0.1 |
|                          |                    | -1.3    | 0.9     |                    | 0.1     | 0.8     |                    | -2.0    | 3.7     |             | -0.6 | 0.0 |
|                          | <b>2.7</b>         | -0.5    | 0.3     | <b>10.4</b>        | -0.9    | 0.3     | <b>44.7</b>        | -1.1    | 0.1     | <b>8.3</b>  | -0.5 | 0.6 |
|                          |                    | -0.5    | 0.1     |                    | -1.7    | 0.3     |                    | -7.6    | 0.5     |             | -0.8 | 0.5 |
| <b>BHL3GF</b>            | <b>2.6</b>         | -0.6    | 0.1     | <b>11.7</b>        | -0.2    | 0.4     | <b>48.4</b>        | -0.6    | 0.2     | <b>8.3</b>  | -0.5 | 0.1 |
|                          |                    | -0.6    | 0.1     |                    | -0.4    | 0.4     |                    | -3.9    | 1.0     |             | -0.8 | 0.1 |
| <b>MZGWVZ</b>            | <b>1.8</b>         | -1.5    | 0.3     | <b>11.5</b>        | -0.3    | 0.7     | <b>44.8</b>        | -1.1    | 0.2     | <b>7.2</b>  | -1.2 | 0.6 |
|                          |                    | -1.4    | 0.2     |                    | -0.5    | 0.7     |                    | -7.6    | 1.0     |             | -2.0 | 0.5 |
| <b>DNM26B</b>            | <b>2.7</b>         | -0.5    | 0.2     | <b>11.7</b>        | -0.2    | 0.1     | <b>50.3</b>        | -0.3    | 0.6     | <b>8.8</b>  | -0.2 | 0.1 |
|                          |                    | -0.5    | 0.1     |                    | -0.3    | 0.1     |                    | -2.0    | 2.6     |             | -0.4 | 0.1 |
| <b>6K828H</b>            | <b>3.6</b>         | 0.5     | 0.9     | <b>14.0</b>        | 1.1     | 0.3     | <b>47.6</b>        | -0.7    | 0.4     | <b>10.8</b> | 1.0  | 0.4 |
|                          |                    | 0.4     | 0.5     |                    | 1.9     | 0.3     |                    | -4.7    | 1.7     |             | 1.6  | 0.3 |
| <b>ZZZ3WM</b>            | <b>5.4</b>         | 2.4     | 4.4     | <b>9.9</b>         | -1.2    | 4.3     | <b>53.8</b>        | 0.2     | 1.4     | <b>4.4</b>  | -2.9 | 4.8 |
|                          |                    | 2.2     | 2.4     |                    | -2.2    | 4.4     |                    | 1.4     | 6.3     |             | -4.7 | 3.8 |
|                          |                    |         |         |                    | 2.3     |         |                    | 1.3     |         |             | 1.6  | 4.8 |
| <b>PHEWWY</b>            |                    |         |         | <b>16.3</b>        | 4.2     | 0.0     | <b>61.6</b>        | 9.3     | 0.0     | <b>11.8</b> | 2.6  | 0.0 |
|                          |                    | -0.6    | 0.3     |                    | -0.2    | 0.3     |                    | 0.4     | 0.8     |             | -0.3 | 0.1 |
| <b>J6NUD7</b>            | <b>2.6</b>         | -0.5    | 0.2     | <b>11.6</b>        | -0.4    | 0.3     | <b>55.0</b>        | 2.7     | 3.6     | <b>8.7</b>  | -0.5 | 0.1 |
|                          |                    | -0.6    | 0.1     |                    | -0.4    | 0.1     |                    | -0.3    | 0.3     |             | -0.3 | 0.1 |
| <b>TRP93T</b>            | <b>2.6</b>         | -0.6    | 0.1     | <b>11.4</b>        | -0.7    | 0.1     | <b>50.0</b>        | -2.3    | 1.2     | <b>8.7</b>  | -0.5 | 0.0 |
|                          |                    | -0.6    | 0.1     |                    | -0.7    | 0.1     |                    | -2.3    | 1.2     |             | -0.5 | 0.0 |
| <b>Grand Median</b>      |                    | 3.18    |         |                    | 12.1    |         |                    | 52.3    |         |             | 9.17 |     |
| <b>Median Abs Dev</b>    |                    | 0.52    |         |                    | 0.8     |         |                    | 4.3     |         |             | 0.77 |     |
| <b>Avg Within Lab SD</b> |                    | 0.56    |         |                    | 1.0     |         |                    | 4.4     |         |             | 0.78 |     |
| <b>Labs Included</b>     |                    | 33      |         |                    | 34      |         |                    | 34      |         |             | 34   |     |
| <b>Labs Reporting</b>    |                    | 33      |         |                    | 34      |         |                    | 34      |         |             | 34   |     |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 |       |       |
|--------------------------|--------------------------------------|-------|-------|---------------|--------|--------|--------------|--------|--------|-------------------|-------|-------|
|                          | SRBSRB1601                           |       |       | SRBSRB1602    |        |        | SRBSRB1603   |        |        |                   |       |       |
| <b>AAUKBK</b>            | <b>0.38</b>                          | 0.93  | 0.10  | <b>0.81</b>   | 0.64   | 0.38   | <b>0.61</b>  | 0.67   | 0.05   | <b>0.96</b>       | 1.21  | 0.28  |
|                          |                                      | 0.08  | 0.01  |               | 0.10   | 0.05   |              | 0.05   | 0.01   |                   | 0.15  | 0.03  |
| <b>83L8FJ</b>            | <b>0.27</b>                          | -0.31 | 0.12  | <b>0.64</b>   | -0.46  | 0.22   | <b>0.55</b>  | 0.01   | 0.26   | <b>0.81</b>       | -0.03 | 0.16  |
|                          |                                      | -0.03 | 0.01  |               | -0.07  | 0.03   |              | 0.00   | 0.04   |                   | 0.00  | 0.02  |
| <b>33JQFQ</b>            | <b>0.30</b>                          | 0.01  | 0.98  | <b>0.59</b>   | -0.79  | 0.00   | <b>0.47</b>  | -1.09  | 0.11   | <b>0.69</b>       | -0.94 | 0.31  |
|                          |                                      | 0.00  | 0.06  |               | -0.12  | 0.00   |              | -0.09  | 0.02   |                   | -0.12 | 0.03  |
| <b>J42726</b>            | <b>0.13</b>                          | -1.85 | 0.93  | <b>0.57</b>   | -0.94  | 0.41   | <b>0.47</b>  | -1.09  | 0.85   | <b>0.67</b>       | -1.15 | 0.59  |
|                          |                                      | -0.16 | 0.06  |               | -0.14  | 0.06   |              | -0.09  | 0.12   |                   | -0.14 | 0.06  |
| <b>RMZ998</b>            | <b>0.47</b>                          | 1.94  | 1.87  | <b>0.53</b>   | -1.16  | 1.09   | <b>0.40</b>  | -1.93  | 3.22   | <b>0.60</b>       | -1.69 | 3.07  |
|                          |                                      | 0.17  | 0.12  |               | -0.18  | 0.15   |              | -0.15  | 0.44   |                   | -0.21 | 0.30  |
| <b>T84DB7</b>            | <b>0.33</b>                          | 0.39  | 0.21  | <b>0.71</b>   | 0.03   | 0.10   | <b>0.59</b>  | 0.46   | 0.07   | <b>0.94</b>       | 1.03  | 0.17  |
|                          |                                      | 0.03  | 0.01  |               | 0.00   | 0.01   |              | 0.04   | 0.01   |                   | 0.13  | 0.02  |
| <b>2WG8UU</b>            | <b>2.22</b>                          | 21.87 | 21.68 | <b>122.95</b> | 798.45 | 759.19 | <b>73.02</b> | 919.91 | 462.27 | <b>7.18</b>       | 51.32 | 53.87 |
|                          |                                      | 1.92  | 1.34  |               | 122.24 | 106.53 |              | 72.47  | 62.67  |                   | 6.37  | 5.26  |
| <b>WYZRCU</b>            | <b>0.21</b>                          | -0.92 | 1.75  | <b>0.71</b>   | -0.03  | 0.13   | <b>0.55</b>  | -0.01  | 0.29   | <b>0.81</b>       | -0.04 | 0.12  |
|                          |                                      | -0.08 | 0.11  |               | 0.00   | 0.02   |              | 0.00   | 0.04   |                   | -0.01 | 0.01  |
|                          | <b>0.30</b>                          | -0.01 | 0.38  | <b>0.84</b>   | 0.83   | 0.41   | <b>0.63</b>  | 1.02   | 0.62   | <b>0.88</b>       | 0.59  | 1.24  |
|                          |                                      | 0.00  | 0.02  |               | 0.13   | 0.06   |              | 0.08   | 0.08   |                   | 0.07  | 0.12  |
| <b>BHL3GF</b>            | <b>0.28</b>                          | -0.22 | 0.09  | <b>0.68</b>   | -0.20  | 0.07   | <b>0.54</b>  | -0.11  | 0.19   | <b>0.78</b>       | -0.27 | 0.26  |
|                          |                                      | -0.02 | 0.01  |               | -0.03  | 0.01   |              | -0.01  | 0.03   |                   | -0.03 | 0.03  |
| <b>MZGWVZ</b>            | <b>0.40</b>                          | 1.19  | 1.84  | <b>1.04</b>   | 2.17   | 3.20   | <b>0.53</b>  | -0.24  | 0.56   | <b>0.81</b>       | 0.03  | 0.48  |
|                          |                                      | 0.10  | 0.11  |               | 0.33   | 0.45   |              | -0.02  | 0.08   |                   | 0.00  | 0.05  |
| <b>DNM26B</b>            | <b>0.32</b>                          | 0.31  | 0.09  | <b>0.81</b>   | 0.67   | 0.11   | <b>0.63</b>  | 1.03   | 0.17   | <b>0.91</b>       | 0.78  | 0.12  |
|                          |                                      | 0.03  | 0.01  |               | 0.10   | 0.02   |              | 0.08   | 0.02   |                   | 0.10  | 0.01  |
| <b>TRP93T</b>            | <b>0.30</b>                          | -0.01 | 0.07  | <b>0.74</b>   | 0.18   | 0.07   | <b>0.59</b>  | 0.43   | 0.09   | <b>0.85</b>       | 0.34  | 0.34  |
|                          |                                      | 0.00  | 0.00  |               | 0.03   | 0.01   |              | 0.03   | 0.01   |                   | 0.04  | 0.03  |
| <b>Grand Median</b>      |                                      | 0.30  |       |               | 0.71   |        |              | 0.55   |        |                   | 0.81  |       |
| <b>Median Abs Dev</b>    |                                      | 0.03  |       |               | 0.10   |        |              | 0.04   |        |                   | 0.09  |       |
| <b>Avg Within Lab SD</b> |                                      | 0.06  |       |               | 0.14   |        |              | 0.14   |        |                   | 0.10  |       |
| <b>Labs Included</b>     |                                      | 12    |       |               | 12     |        |              | 12     |        |                   | 12    |       |
| <b>Labs Reporting</b>    |                                      | 12    |       |               | 12     |        |              | 12     |        |                   | 12    |       |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 |       |      |
|--------------------------|--------------------------------|-------|------|-------------|-------|------|-------------|-------|------|---------------------|-------|------|
|                          | SRBSRB1601                     |       |      | SRBSRB1602  |       |      | SRBSRB1603  |       |      |                     |       |      |
| <b>BFZE6F</b>            | <b>0.12</b>                    | 0.23  | 0.42 | <b>0.20</b> | 0.79  | 0.34 | <b>0.29</b> | 1.17  | 0.36 | <b>0.38</b>         | 0.00  | 0.34 |
|                          |                                | 0.00  | 0.00 |             | 0.01  | 0.00 |             | 0.01  | 0.00 |                     | 0.00  | 0.00 |
| <b>XNBEWV</b>            | <b>0.12</b>                    | -0.38 | 1.05 | <b>0.20</b> | 0.00  | 1.17 | <b>0.29</b> | 1.17  | 0.79 | <b>0.38</b>         | 0.00  | 1.96 |
|                          |                                | 0.00  | 0.01 |             | 0.00  | 0.01 |             | 0.01  | 0.01 |                     | 0.00  | 0.02 |
| <b>F92H9C</b>            | <b>0.14</b>                    | 2.50  | 1.82 | <b>0.20</b> | 0.00  | 1.17 | <b>0.29</b> | 1.95  | 0.79 | <b>0.47</b>         | 3.22  | 1.08 |
|                          |                                | 0.02  | 0.01 |             | 0.00  | 0.01 |             | 0.02  | 0.01 |                     | 0.10  | 0.01 |
| <b>QECBRZ</b>            | <b>0.12</b>                    | 0.03  | 0.00 | <b>0.20</b> | 0.00  | 1.17 | <b>0.28</b> | 0.00  | 0.79 | <b>0.37</b>         | -0.11 | 0.54 |
|                          |                                | 0.00  | 0.00 |             | 0.00  | 0.01 |             | 0.00  | 0.01 |                     | 0.00  | 0.01 |
| <b>T84DB7</b>            | <b>0.12</b>                    | 0.00  | 0.47 | <b>0.19</b> | -1.06 | 0.19 | <b>0.28</b> | -0.05 | 0.17 | <b>0.40</b>         | 0.61  | 0.35 |
|                          |                                | 0.00  | 0.00 |             | -0.01 | 0.00 |             | 0.00  | 0.00 |                     | 0.02  | 0.00 |
| <b>UNPG82</b>            | <b>0.11</b>                    | -0.79 | 1.05 | <b>0.19</b> | -1.23 | 1.17 | <b>0.28</b> | 0.00  | 0.79 | <b>0.38</b>         | 0.00  | 1.08 |
|                          |                                | -0.01 | 0.01 |             | -0.01 | 0.01 |             | 0.00  | 0.01 |                     | 0.00  | 0.01 |
| <b>J26YBD</b>            | <b>0.11</b>                    | -0.79 | 1.05 | <b>0.18</b> | -1.65 | 1.17 | <b>0.27</b> | -0.39 | 2.09 | <b>0.35</b>         | -0.78 | 0.54 |
|                          |                                | -0.01 | 0.01 |             | -0.01 | 0.01 |             | 0.00  | 0.02 |                     | -0.02 | 0.01 |
| <b>Grand Median</b>      |                                | 0.12  |      |             | 0.20  |      |             | 0.28  |      |                     | 0.38  |      |
| <b>Median Abs Dev</b>    |                                | 0.00  |      |             | 0.01  |      |             | 0.00  |      |                     | 0.00  |      |
| <b>Avg Within Lab SD</b> |                                | 0.01  |      |             | 0.00  |      |             | 0.01  |      |                     | 0.01  |      |
| <b>Labs Included</b>     |                                | 7     |      |             | 7     |      |             | 7     |      |                     | 7     |      |
| <b>Labs Reporting</b>    |                                | 7     |      |             | 7     |      |             | 7     |      |                     | 7     |      |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 |       |      |
|--------------------------|--------------------------------|-------|------|-------------|-------|------|--------------|-------|------|---------------------|-------|------|
|                          | SRBSRB1601                     |       |      | SRBSRB1602  |       |      | SRBSRB1603   |       |      |                     |       |      |
| <b>BFZE6F</b>            | <b>2.39</b>                    | -0.22 | 1.33 | <b>1.92</b> | -0.26 | 0.91 | <b>10.85</b> | 4.72  | 0.82 | <b>1.68</b>         | -0.28 | 0.34 |
|                          |                                | -0.08 | 0.06 |             | -0.05 | 0.04 |              | 8.10  | 0.06 |                     | -0.06 | 0.01 |
| <b>XNBEWV</b>            | <b>2.74</b>                    | 0.72  | 0.95 | <b>2.07</b> | 0.52  | 1.03 | <b>2.76</b>  | 0.00  | 0.74 | <b>1.79</b>         | 0.23  | 1.18 |
|                          |                                | 0.27  | 0.04 |             | 0.10  | 0.04 |              | 0.01  | 0.05 |                     | 0.05  | 0.05 |
| <b>F92H9C</b>            | <b>1.81</b>                    | -1.79 | 0.27 | <b>1.98</b> | 0.07  | 0.15 | <b>2.83</b>  | 0.05  | 0.45 | <b>1.89</b>         | 0.74  | 0.23 |
|                          |                                | -0.67 | 0.01 |             | 0.01  | 0.01 |              | 0.08  | 0.03 |                     | 0.15  | 0.01 |
| <b>QECBRZ</b>            | <b>2.75</b>                    | 0.75  | 0.24 | <b>2.11</b> | 0.72  | 0.15 | <b>2.84</b>  | 0.05  | 0.37 | <b>1.86</b>         | 0.61  | 0.36 |
|                          |                                | 0.28  | 0.01 |             | 0.14  | 0.01 |              | 0.08  | 0.03 |                     | 0.12  | 0.02 |
| <b>T84DB7</b>            | <b>2.67</b>                    | 0.53  | 0.32 | <b>1.96</b> | -0.07 | 0.40 | <b>2.73</b>  | -0.02 | 0.41 | <b>1.72</b>         | -0.09 | 0.39 |
|                          |                                | 0.20  | 0.01 |             | -0.01 | 0.02 |              | -0.03 | 0.03 |                     | -0.02 | 0.02 |
| <b>UNPG82</b>            | <b>2.55</b>                    | 0.22  | 1.12 | <b>1.98</b> | 0.07  | 1.83 | <b>2.75</b>  | 0.00  | 0.23 | <b>1.76</b>         | 0.09  | 1.86 |
|                          |                                | 0.08  | 0.05 |             | 0.01  | 0.07 |              | -0.01 | 0.02 |                     | 0.02  | 0.08 |
| <b>J26YBD</b>            | <b>2.28</b>                    | -0.52 | 1.23 | <b>1.84</b> | -0.69 | 1.57 | <b>2.54</b>  | -0.13 | 0.81 | <b>1.47</b>         | -1.35 | 0.82 |
|                          |                                | -0.19 | 0.05 |             | -0.13 | 0.06 |              | -0.22 | 0.06 |                     | -0.27 | 0.04 |
| <b>4JGF2L</b>            | <b>2.23</b>                    | -0.65 | 1.53 | <b>1.40</b> | -3.01 | 0.24 | <b>2.02</b>  | -0.43 | 2.36 | <b>1.34</b>         | -2.00 | 1.42 |
|                          |                                | -0.24 | 0.06 |             | -0.57 | 0.01 |              | -0.74 | 0.16 |                     | -0.40 | 0.06 |
| <b>Grand Median</b>      |                                | 2.47  |      | 1.97        |       |      | 2.76         |       |      | 1.74                |       |      |
| <b>Median Abs Dev</b>    |                                | 0.22  |      | 0.07        |       |      | 0.08         |       |      | 0.09                |       |      |
| <b>Avg Within Lab SD</b> |                                | 0.04  |      | 0.04        |       |      | 0.07         |       |      | 0.04                |       |      |
| <b>Labs Included</b>     |                                | 8     |      | 8           |       |      | 8            |       |      | 8                   |       |      |
| <b>Labs Reporting</b>    |                                | 8     |      | 8           |       |      | 8            |       |      | 8                   |       |      |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 |       |      |
|--------------------------|--------------------------------|-------|------|-------------|-------|------|-------------|-------|------|---------------------|-------|------|
|                          | SRBSRB1601                     |       |      | SRBSRB1602  |       |      | SRBSRB1603  |       |      |                     |       |      |
| <b>BFZE6F</b>            | <b>0.16</b>                    | 0.11  | 0.51 | <b>3.28</b> | -0.09 | 0.99 | <b>1.77</b> | 0.33  | 0.18 | <b>0.49</b>         | 0.61  | 0.70 |
|                          |                                | 0.01  | 0.00 |             | -0.04 | 0.08 |             | 0.09  | 0.01 |                     | 0.03  | 0.01 |
| <b>XNBEWV</b>            | <b>0.15</b>                    | -0.11 | 1.64 | <b>3.35</b> | 0.09  | 1.73 | <b>1.75</b> | 0.28  | 1.17 | <b>0.45</b>         | -0.03 | 0.54 |
|                          |                                | -0.01 | 0.01 |             | 0.04  | 0.14 |             | 0.08  | 0.06 |                     | 0.00  | 0.01 |
| <b>F92H9C</b>            | <b>0.17</b>                    | 0.31  | 0.82 | <b>3.58</b> | 0.63  | 0.19 | <b>1.51</b> | -0.62 | 0.24 | <b>0.42</b>         | -0.64 | 0.93 |
|                          |                                | 0.01  | 0.01 |             | 0.26  | 0.02 |             | -0.17 | 0.01 |                     | -0.03 | 0.01 |
| <b>QECBRZ</b>            | <b>0.15</b>                    | -0.11 | 0.82 | <b>3.35</b> | 0.09  | 0.12 | <b>1.75</b> | 0.26  | 0.12 | <b>0.47</b>         | 0.22  | 0.54 |
|                          |                                | -0.01 | 0.01 |             | 0.04  | 0.01 |             | 0.07  | 0.01 |                     | 0.01  | 0.01 |
| <b>T84DB7</b>            | <b>0.13</b>                    | -0.46 | 0.46 | <b>3.13</b> | -0.44 | 0.19 | <b>1.61</b> | -0.26 | 0.41 | <b>0.43</b>         | -0.39 | 0.26 |
|                          |                                | -0.02 | 0.00 |             | -0.18 | 0.02 |             | -0.07 | 0.02 |                     | -0.02 | 0.00 |
| <b>UNPG82</b>            | <b>0.13</b>                    | -0.54 | 0.79 | <b>2.99</b> | -0.78 | 0.78 | <b>1.58</b> | -0.34 | 0.52 | <b>0.40</b>         | -0.97 | 1.20 |
|                          |                                | -0.03 | 0.01 |             | -0.32 | 0.06 |             | -0.09 | 0.03 |                     | -0.05 | 0.01 |
| <b>J26YBD</b>            | <b>0.21</b>                    | 1.15  | 1.64 | <b>4.01</b> | 1.67  | 1.73 | <b>2.19</b> | 1.87  | 2.38 | <b>0.59</b>         | 2.51  | 1.87 |
|                          |                                | 0.05  | 0.01 |             | 0.69  | 0.14 |             | 0.51  | 0.12 |                     | 0.14  | 0.02 |
| <b>4JGF2L</b>            | <b>0.28</b>                    | 2.60  | 0.43 | <b>2.65</b> | -1.62 | 0.58 | <b>1.28</b> | -1.44 | 0.63 | <b>0.46</b>         | 0.03  | 1.03 |
|                          |                                | 0.12  | 0.00 |             | -0.67 | 0.05 |             | -0.39 | 0.03 |                     | 0.00  | 0.01 |
| <b>Grand Median</b>      |                                | 0.15  |      |             | 3.31  |      |             | 1.68  |      |                     | 0.45  |      |
| <b>Median Abs Dev</b>    |                                | 0.02  |      |             | 0.22  |      |             | 0.09  |      |                     | 0.03  |      |
| <b>Avg Within Lab SD</b> |                                | 0.01  |      |             | 0.08  |      |             | 0.05  |      |                     | 0.01  |      |
| <b>Labs Included</b>     |                                | 8     |      |             | 8     |      |             | 8     |      |                     | 8     |      |
| <b>Labs Reporting</b>    |                                | 8     |      |             | 8     |      |             | 8     |      |                     | 8     |      |





## ALP Program - Participant Web Summary Report - Cycle 29

| 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 |       |      |
|--------------------------|--------------------------------|-------|------|-------------|-------|------|-------------|-------|------|---------------------|-------|------|
|                          | SRBSRB1601                     |       |      | SRBSRB1602  |       |      | SRBSRB1603  |       |      |                     |       |      |
| <b>BFZE6F</b>            | <b>0.17</b>                    | -0.69 | 0.41 | <b>0.64</b> | 0.02  | 1.07 | <b>0.32</b> | -0.06 | 0.03 | <b>0.42</b>         | 0.49  | 0.62 |
|                          |                                | -0.01 | 0.00 |             | 0.00  | 0.02 |             | 0.00  | 0.00 |                     | 0.01  | 0.00 |
| <b>XNBEWV</b>            | <b>0.21</b>                    | 2.32  | 1.06 | <b>0.68</b> | 0.95  | 1.21 | <b>0.36</b> | 1.81  | 1.19 | <b>0.45</b>         | 1.61  | 0.80 |
|                          |                                | 0.03  | 0.01 |             | 0.03  | 0.02 |             | 0.04  | 0.01 |                     | 0.04  | 0.01 |
| <b>F92H9C</b>            | <b>0.19</b>                    | 0.92  | 1.83 | <b>0.66</b> | 0.47  | 0.58 | <b>0.33</b> | 0.61  | 0.59 | <b>0.40</b>         | -0.26 | 0.80 |
|                          |                                | 0.01  | 0.01 |             | 0.02  | 0.01 |             | 0.01  | 0.01 |                     | -0.01 | 0.01 |
| <b>QECBRZ</b>            | <b>0.18</b>                    | 0.08  | 0.00 | <b>0.62</b> | -0.76 | 0.34 | <b>0.32</b> | -0.24 | 0.59 | <b>0.41</b>         | -0.01 | 0.00 |
|                          |                                | 0.00  | 0.00 |             | -0.03 | 0.01 |             | 0.00  | 0.01 |                     | 0.00  | 0.00 |
| <b>T84DB7</b>            | <b>0.19</b>                    | 0.51  | 0.45 | <b>0.73</b> | 2.35  | 0.07 | <b>0.33</b> | 0.70  | 0.41 | <b>0.47</b>         | 2.24  | 0.43 |
|                          |                                | 0.01  | 0.00 |             | 0.08  | 0.00 |             | 0.01  | 0.00 |                     | 0.06  | 0.00 |
| <b>UNPG82</b>            | <b>0.18</b>                    | 0.00  | 1.02 | <b>0.64</b> | -0.17 | 0.64 | <b>0.32</b> | 0.00  | 0.39 | <b>0.41</b>         | 0.00  | 2.12 |
|                          |                                | 0.00  | 0.01 |             | -0.01 | 0.01 |             | 0.00  | 0.00 |                     | 0.00  | 0.02 |
| <b>J26YBD</b>            | <b>0.18</b>                    | -0.20 | 1.06 | <b>0.64</b> | 0.00  | 1.87 | <b>0.35</b> | 1.30  | 2.14 | <b>0.41</b>         | 0.11  | 0.80 |
|                          |                                | 0.00  | 0.01 |             | 0.00  | 0.03 |             | 0.03  | 0.02 |                     | 0.00  | 0.01 |
| <b>4JGF2L</b>            | <b>0.14</b>                    | -2.89 | 1.35 | <b>0.46</b> | -5.13 | 0.78 | <b>0.22</b> | -5.06 | 1.57 | <b>0.28</b>         | -5.06 | 2.09 |
|                          |                                | -0.03 | 0.01 |             | -0.18 | 0.01 |             | -0.10 | 0.02 |                     | -0.13 | 0.02 |
| <b>Grand Median</b>      |                                | 0.18  |      | 0.64        |       |      | 0.32        |       |      | 0.41                |       |      |
| <b>Median Abs Dev</b>    |                                | 0.01  |      | 0.02        |       |      | 0.01        |       |      | 0.01                |       |      |
| <b>Avg Within Lab SD</b> |                                | 0.01  |      | 0.02        |       |      | 0.01        |       |      | 0.01                |       |      |
| <b>Labs Included</b>     |                                | 7     |      | 7           |       |      | 7           |       |      | 7                   |       |      |
| <b>Labs Reporting</b>    |                                | 7     |      | 7           |       |      | 7           |       |      | 7                   |       |      |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 |        |       |
|--------------------------|--------------------------------|--------|-------|--------------|--------|-------|--------------|--------|-------|---------------------|--------|-------|
|                          | SRBSRB1601                     |        |       | SRBSRB1602   |        |       | SRBSRB1603   |        |       |                     |        |       |
| <b>BFZE6F</b>            | <b>0.011</b>                   | 0.119  | 0.134 | <b>0.037</b> | -0.841 | 1.322 | <b>0.014</b> | 0.816  | 1.454 | <b>0.007</b>        | 0.000  | 1.586 |
|                          |                                | 0.001  | 0.000 |              | -0.003 | 0.002 |              | 0.004  | 0.001 |                     | 0.000  | 0.001 |
| <b>XNBEWV</b>            | <b>0.010</b>                   | 0.000  | 0.000 | <b>0.040</b> | 0.000  | 0.000 | <b>0.010</b> | 0.000  | 0.000 | <b>0.010</b>        | 0.624  | 0.000 |
|                          |                                | 0.000  | 0.000 |              | 0.000  | 0.000 |              | 0.000  | 0.000 |                     | 0.003  | 0.000 |
| <b>F92H9C</b>            | <b>0.011</b>                   | 0.144  | 0.626 | <b>0.041</b> | 0.199  | 0.841 | <b>0.017</b> | 1.217  | 0.679 | <b>0.013</b>        | 1.193  | 1.141 |
|                          |                                | 0.001  | 0.001 |              | 0.001  | 0.001 |              | 0.007  | 0.001 |                     | 0.006  | 0.001 |
| <b>QECBRZ</b>            | <b>0.005</b>                   | -1.149 | 1.657 | <b>0.038</b> | -0.596 | 0.000 | <b>0.007</b> | -0.548 | 1.177 | <b>0.002</b>        | -0.957 | 0.659 |
|                          |                                | -0.005 | 0.002 |              | -0.002 | 0.000 |              | -0.003 | 0.001 |                     | -0.005 | 0.001 |
| <b>T84DB7</b>            | <b>0.004</b>                   | -1.201 | 0.211 | <b>0.038</b> | -0.460 | 0.243 | <b>0.006</b> | -0.713 | 0.130 | <b>0.001</b>        | -1.097 | 0.024 |
|                          |                                | -0.006 | 0.000 |              | -0.002 | 0.000 |              | -0.004 | 0.000 |                     | -0.006 | 0.000 |
| <b>UNPG82</b>            | <b>0.010</b>                   | -0.072 | 1.252 | <b>0.042</b> | 0.695  | 1.112 | <b>0.010</b> | -0.061 | 0.679 | <b>0.007</b>        | -0.009 | 1.317 |
|                          |                                | 0.000  | 0.001 |              | 0.002  | 0.002 |              | 0.000  | 0.001 |                     | 0.000  | 0.001 |
| <b>J26YBD</b>            | <b>0.033</b>                   | 5.027  | 6.262 | <b>0.077</b> | 10.918 | 4.204 | <b>0.040</b> | 5.476  | 0.000 | <b>0.027</b>        | 3.786  | 6.586 |
|                          |                                | 0.023  | 0.006 |              | 0.037  | 0.006 |              | 0.030  | 0.000 |                     | 0.020  | 0.006 |
| <b>4JGF2L</b>            | <b>0.019</b>                   | 2.037  | 1.494 | <b>0.046</b> | 1.932  | 1.803 | <b>0.017</b> | 1.368  | 1.600 | <b>0.011</b>        | 0.842  | 1.006 |
|                          |                                | 0.009  | 0.001 |              | 0.006  | 0.002 |              | 0.007  | 0.001 |                     | 0.004  | 0.001 |
| <b>Grand Median</b>      |                                | 0.010  |       |              | 0.040  |       |              | 0.010  |       |                     | 0.007  |       |
| <b>Median Abs Dev</b>    |                                | 0.001  |       |              | 0.002  |       |              | 0.004  |       |                     | 0.004  |       |
| <b>Avg Within Lab SD</b> |                                | 0.001  |       |              | 0.001  |       |              | 0.001  |       |                     | 0.001  |       |
| <b>Labs Included</b>     |                                | 7      |       |              | 7      |       |              | 7      |       |                     | 7      |       |
| <b>Labs Reporting</b>    |                                | 7      |       |              | 7      |       |              | 7      |       |                     | 7      |       |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 |         |         |

| Al (SubTestCode 230)     | in the Dry Ash Property Groups |     |              |     |              |      | Data units: mg/kg |     |
|--------------------------|--------------------------------|-----|--------------|-----|--------------|------|-------------------|-----|
|                          | SRBSRB1601                     |     | SRBSRB1602   |     | SRBSRB1603   |      |                   |     |
| <b>T84DB7</b>            | <b>32.2</b>                    | 0.5 | <b>120.9</b> | 0.7 | <b>250.7</b> | 0.3  | <b>81.2</b>       | 1.0 |
|                          |                                | 0.5 |              | 2.1 |              | 3.6  |                   | 1.1 |
| <b>TNQUE3</b>            | <b>29.7</b>                    | 1.3 | <b>74.7</b>  | 0.6 | <b>213.3</b> | 0.7  | <b>89.0</b>       | 1.0 |
|                          |                                | 1.5 |              | 1.6 |              | 7.8  |                   | 0.0 |
| <b>J26YBD</b>            |                                |     | <b>9.0</b>   | 5.0 | <b>201.0</b> | 18.3 | <b>22.4</b>       | 1.4 |
|                          |                                |     |              |     |              |      |                   | 1.6 |
| <b>Grand Median</b>      | 30.9                           |     | 74.7         |     | 213.3        |      | 81.2              |     |
| <b>Median Abs Dev</b>    |                                |     |              |     |              |      |                   |     |
| <b>Avg Within Lab SD</b> | 1.1                            |     | 3.2          |     | 11.7         |      | 1.1               |     |
| <b>Labs Included</b>     | 2                              |     | 3            |     | 3            |      | 3                 |     |
| <b>Labs Reporting</b>    | 2                              |     | 3            |     | 3            |      | 3                 |     |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 |      |     |
|--------------------------|--------------------------------|------|-----|-------------|-------|-----|-------------|-------|-----|-------------------|------|-----|
|                          | SRBSRB1601                     |      |     | SRBSRB1602  |       |     | SRBSRB1603  |       |     |                   |      |     |
| <b>BFZE6F</b>            | <b>8.3</b>                     | 1.9  | 0.6 | <b>41.6</b> | -0.1  | 0.6 | <b>37.8</b> | 0.3   | 0.9 | <b>8.7</b>        | 1.8  | 0.4 |
|                          |                                | 6.0  | 0.2 |             | -0.2  | 0.5 |             | 1.3   | 0.8 |                   | 3.6  | 0.2 |
| <b>XNBEWV</b>            | <b>3.2</b>                     | 0.3  | 1.3 | <b>43.7</b> | 0.7   | 1.6 | <b>38.1</b> | 0.4   | 0.5 | <b>5.1</b>        | 0.0  | 0.9 |
|                          |                                | 0.9  | 0.3 |             | 1.9   | 1.3 |             | 1.6   | 0.4 |                   | 0.0  | 0.4 |
| <b>F92H9C</b>            | <b>2.3</b>                     | 0.0  | 2.1 | <b>43.7</b> | 0.6   | 0.7 | <b>40.3</b> | 0.9   | 0.7 | <b>5.3</b>        | 0.1  | 1.4 |
|                          |                                | 0.0  | 0.6 |             | 1.9   | 0.6 |             | 3.8   | 0.6 |                   | 0.2  | 0.6 |
| <b>QECBRZ</b>            | <b>5.0</b>                     | 0.9  |     | <b>45.3</b> | 1.2   | 1.4 | <b>42.7</b> | 1.4   | 0.7 | <b>7.3</b>        | 1.1  | 1.4 |
|                          |                                | 2.7  | 0.0 |             | 3.5   | 1.2 |             | 6.2   | 0.6 |                   | 2.2  | 0.6 |
| <b>T84DB7</b>            | <b>6.9</b>                     | 1.5  | 0.5 | <b>43.2</b> | 0.5   | 1.3 | <b>31.6</b> | -1.1  | 1.5 | <b>5.9</b>        | 0.4  | 1.3 |
|                          |                                | 4.6  | 0.1 |             | 1.4   | 1.1 |             | -4.9  | 1.2 |                   | 0.8  | 0.5 |
| <b>TNQUE3</b>            | <b>2.0</b>                     | -0.1 |     | <b>41.0</b> | -0.3  |     | <b>36.0</b> | -0.1  | 1.2 | <b>4.0</b>        | -0.6 | 1.3 |
|                          |                                | -0.3 | 0.0 |             | -0.8  | 0.0 |             | -0.5  | 1.0 |                   | -1.1 | 0.0 |
| <b>UNPG82</b>            | <b>2.2</b>                     | -0.1 | 0.4 | <b>42.0</b> | 0.1   | 0.8 | <b>37.0</b> | 0.1   | 0.5 | <b>3.7</b>        | -0.7 | 0.4 |
|                          |                                | -0.2 | 0.1 |             | 0.2   | 0.7 |             | 0.5   | 0.5 |                   | -1.4 | 0.2 |
| <b>J26YBD</b>            |                                |      |     | <b>36.0</b> | -2.0  |     | <b>31.4</b> | -1.2  | 1.4 |                   |      | 0.4 |
|                          |                                |      |     |             | -5.8  | 0.5 |             | -5.2  | 1.2 |                   |      |     |
| <b>4JGF2L</b>            | <b>0.1</b>                     | -0.7 | 0.1 | <b>1.3</b>  | -14.0 | 0.0 | <b>1.1</b>  | -8.0  | 0.0 | <b>0.2</b>        | -2.5 | 0.1 |
|                          |                                | -2.3 | 0.0 |             | -40.5 | 0.0 |             | -35.4 | 0.0 |                   | -4.9 | 0.0 |
| <b>Grand Median</b>      |                                | 2.33 |     |             | 41.8  |     |             | 36.5  |     |                   | 5.10 |     |
| <b>Median Abs Dev</b>    |                                | 0.87 |     |             | 1.6   |     |             | 2.7   |     |                   | 1.10 |     |
| <b>Avg Within Lab SD</b> |                                | 0.27 |     |             | 0.8   |     |             | 0.8   |     |                   | 0.40 |     |
| <b>Labs Included</b>     |                                | 7    |     |             | 8     |     |             | 8     |     |                   | 7    |     |
| <b>Labs Reporting</b>    |                                | 7    |     |             | 8     |     |             | 8     |     |                   | 7    |     |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 |       |     |
|--------------------------|--------------------------------|-------|---------|--------------|-------|-----|--------------|-------|-----|-------------------|-------|-----|
|                          | SRBSRB1601                     |       |         | SRBSRB1602   |       |     | SRBSRB1603   |       |     |                   |       |     |
| <b>BFZE6F</b>            | <b>13.2</b>                    | 0.1   | 0.2     | <b>63.7</b>  | 1.0   | 1.2 | <b>58.0</b>  | 1.2   | 0.6 | <b>27.6</b>       | 2.3   | 0.7 |
|                          |                                | 0.2   | 0.1     |              | 5.1   | 1.0 |              | 4.9   | 1.4 |                   | 3.6   | 0.5 |
| <b>XNBEWV</b>            | <b>13.0</b>                    | 0.0   | 0.4     | <b>60.4</b>  | 0.4   | 0.2 | <b>53.0</b>  | 0.0   | 0.6 | <b>24.0</b>       | 0.0   | 0.4 |
|                          |                                | 0.0   | 0.2     |              | 1.8   | 0.2 |              | 0.0   | 1.4 |                   | 0.0   | 0.3 |
| <b>F92H9C</b>            | <b>15.3</b>                    | 1.5   | 1.2     | <b>68.7</b>  | 2.0   | 0.7 | <b>53.7</b>  | 0.2   | 0.7 | <b>24.3</b>       | 0.2   | 0.7 |
|                          |                                | 2.3   | 0.6     |              | 10.1  | 0.6 |              | 0.6   | 1.5 |                   | 0.4   | 0.6 |
| <b>QECBRZ</b>            | <b>12.3</b>                    | -0.4  | 1.2     | <b>56.0</b>  | -0.5  |     | <b>50.3</b>  | -0.7  | 0.3 | <b>23.0</b>       | -0.6  | 0.7 |
|                          |                                | -0.7  | 0.6     |              | -2.6  | 1.0 |              | -2.7  | 0.6 |                   | -1.0  | 0.0 |
| <b>T84DB7</b>            | <b>10.8</b>                    | -1.4  | 0.8     | <b>55.3</b>  | -0.7  | 0.4 | <b>50.4</b>  | -0.6  | 0.4 | <b>23.0</b>       | -0.6  | 0.2 |
|                          |                                | -2.2  | 0.4     |              | -3.3  | 0.3 |              | -2.6  | 0.9 |                   | -0.9  | 0.2 |
| <b>UNPG82</b>            | <b>11.2</b>                    | -1.1  | 1.3     | <b>57.6</b>  | -0.2  | 1.1 | <b>51.4</b>  | -0.4  | 0.4 | <b>22.3</b>       | -1.0  | 1.0 |
|                          |                                | -1.8  | 0.6     |              | -1.0  | 0.9 |              | -1.7  | 1.0 |                   | -1.7  | 0.8 |
| <b>J26YBD</b>            | <b>13.3</b>                    | 0.2   | 1.2     | <b>58.6</b>  | 0.0   | 1.5 | <b>60.1</b>  | 1.7   | 2.3 | <b>24.0</b>       | 0.0   | 2.2 |
|                          |                                | 0.3   | 0.6     |              | 0.0   | 1.3 |              | 7.0   | 5.4 |                   | 0.0   | 1.8 |
| <b>4JGF2L</b>            | <b>780.7</b>                   | 480.8 | 2,224.0 | <b>229.2</b> | 33.8  | 3.6 | <b>213.5</b> | 38.7  | 1.1 | <b>193.6</b>      | 105.9 | 3.1 |
|                          |                                | 767.7 | 1,036.8 |              | 170.6 | 3.1 |              | 160.4 | 2.5 |                   | 169.6 | 2.5 |
| <b>Grand Median</b>      |                                | 13.0  |         | 58.6         |       |     | 53.0         |       |     | 24.0              |       |     |
| <b>Median Abs Dev</b>    |                                | 0.7   |         | 2.6          |       |     | 2.6          |       |     | 0.9               |       |     |
| <b>Avg Within Lab SD</b> |                                | 0.5   |         | 0.8          |       |     | 2.3          |       |     | 0.8               |       |     |
| <b>Labs Included</b>     |                                | 7     |         | 7            |       |     | 7            |       |     | 7                 |       |     |
| <b>Labs Reporting</b>    |                                | 7     |         | 7            |       |     | 7            |       |     | 7                 |       |     |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 |      |     |
|--------------------------|--------------------------------|------|-----|--------------|------|-----|-------------|------|-----|-------------------|------|-----|
|                          | SRBSRB1601                     |      |     | SRBSRB1602   |      |     | SRBSRB1603  |      |     |                   |      |     |
| <b>BFZE6F</b>            | <b>4.8</b>                     | -0.1 | 0.1 | <b>88.1</b>  | -0.6 | 1.0 | <b>53.6</b> | -0.4 | 0.1 | <b>41.5</b>       | -0.1 | 0.3 |
|                          |                                | -0.2 | 0.0 |              | -7.2 | 2.0 |             | -5.6 | 0.1 |                   | -0.6 | 0.3 |
| <b>XNBEWV</b>            | <b>4.4</b>                     | -0.1 | 0.9 | <b>96.7</b>  | 0.1  | 0.4 | <b>54.7</b> | -0.4 | 0.8 | <b>39.4</b>       | -0.5 | 1.4 |
|                          |                                | -0.5 | 0.4 |              | 1.4  | 0.7 |             | -4.5 | 1.2 |                   | -2.8 | 1.1 |
| <b>F92H9C</b>            | <b>18.0</b>                    | 3.5  | 2.2 | <b>95.7</b>  | 0.0  | 0.6 | <b>83.7</b> | 1.9  | 0.8 | <b>55.7</b>       | 2.4  | 1.5 |
|                          |                                | 13.1 | 1.0 |              | 0.3  | 1.2 |             | 24.5 | 1.2 |                   | 13.5 | 1.2 |
| <b>QECBRZ</b>            | <b>4.7</b>                     | -0.1 | 1.3 | <b>86.0</b>  | -0.8 |     | <b>55.7</b> | -0.3 | 0.8 | <b>39.0</b>       | -0.6 | 1.5 |
|                          |                                | -0.3 | 0.6 |              | -9.3 | 1.0 |             | -3.5 | 1.2 |                   | -3.1 | 0.0 |
| <b>T84DB7</b>            | <b>5.1</b>                     | 0.1  | 0.5 | <b>95.0</b>  | 0.0  | 0.6 | <b>58.9</b> | 0.0  | 0.6 | <b>42.7</b>       | 0.1  | 0.9 |
|                          |                                | 0.2  | 0.2 |              | -0.3 | 1.2 |             | -0.3 | 1.0 |                   | 0.6  | 0.7 |
| <b>UNPG82</b>            | <b>5.3</b>                     | 0.1  | 0.3 | <b>97.4</b>  | 0.2  | 1.0 | <b>62.0</b> | 0.2  | 1.1 | <b>44.3</b>       | 0.4  | 1.0 |
|                          |                                | 0.3  | 0.2 |              | 2.1  | 2.0 |             | 2.8  | 1.6 |                   | 2.1  | 0.8 |
| <b>J26YBD</b>            | <b>3.3</b>                     | -0.5 | 0.1 | <b>90.6</b>  | -0.4 | 2.1 | <b>59.5</b> | 0.0  | 2.1 | <b>38.8</b>       | -0.6 | 1.0 |
|                          |                                | -1.7 | 0.1 |              | -4.7 | 4.3 |             | 0.3  | 3.1 |                   | -3.3 | 0.8 |
| <b>4JGF2L</b>            | <b>8.8</b>                     | 1.0  | 0.2 | <b>133.3</b> | 3.2  | 0.9 | <b>85.6</b> | 2.1  | 0.5 | <b>46.5</b>       | 0.8  | 1.1 |
|                          |                                | 3.8  | 0.1 |              | 37.9 | 1.9 |             | 26.4 | 0.7 |                   | 4.4  | 0.8 |
| <b>Grand Median</b>      |                                | 4.94 |     |              | 95.3 |     |             | 59.2 |     |                   | 42.1 |     |
| <b>Median Abs Dev</b>    |                                | 0.42 |     |              | 3.4  |     |             | 4.0  |     |                   | 2.9  |     |
| <b>Avg Within Lab SD</b> |                                | 0.45 |     |              | 2.1  |     |             | 1.5  |     |                   | 0.8  |     |
| <b>Labs Included</b>     |                                | 8    |     |              | 8    |     |             | 8    |     |                   | 8    |     |
| <b>Labs Reporting</b>    |                                | 8    |     |              | 8    |     |             | 8    |     |                   | 8    |     |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 |       |     |
|--------------------------|--------------------------------|------|-----|--------------|-------|-----|--------------|-------|------|-------------------|-------|-----|
|                          | SRBSRB1601                     |      |     | SRBSRB1602   |       |     | SRBSRB1603   |       |      |                   |       |     |
| <b>BFZE6F</b>            | <b>28.5</b>                    | 0.2  | 0.3 | <b>91.6</b>  | 0.1   | 0.9 | <b>172.4</b> | -0.1  | 0.8  | <b>129.8</b>      | -0.1  | 1.1 |
|                          |                                | 2.2  | 0.5 |              | 1.6   | 3.0 |              | -2.4  | 4.7  |                   | -2.6  | 3.4 |
| <b>XNBEWV</b>            | <b>19.9</b>                    | -0.6 | 0.8 | <b>81.8</b>  | -0.4  | 0.5 | <b>138.7</b> | -1.1  | 0.4  | <b>117.0</b>      | -0.6  | 0.9 |
|                          |                                | -6.4 | 1.2 |              | -8.2  | 1.9 |              | -36.1 | 2.6  |                   | -15.4 | 2.7 |
| <b>F92H9C</b>            | <b>31.0</b>                    | 0.5  | 0.7 | <b>98.0</b>  | 0.4   | 0.3 | <b>189.0</b> | 0.4   | 0.2  | <b>168.3</b>      | 1.3   | 0.2 |
|                          |                                | 4.7  | 1.0 |              | 8.0   | 1.0 |              | 14.3  | 1.0  |                   | 35.9  | 0.6 |
| <b>QECBRZ</b>            | <b>21.7</b>                    | -0.5 | 0.4 | <b>85.7</b>  | -0.2  | 1.2 | <b>158.7</b> | -0.5  | 0.1  | <b>130.7</b>      | -0.1  | 1.1 |
|                          |                                | -4.7 | 0.6 |              | -4.3  | 4.2 |              | -16.1 | 0.6  |                   | -1.8  | 3.2 |
| <b>T84DB7</b>            | <b>51.1</b>                    | 2.4  | 2.1 | <b>119.8</b> | 1.6   | 0.7 | <b>245.0</b> | 2.1   | 0.8  | <b>192.6</b>      | 2.2   | 1.0 |
|                          |                                | 24.7 | 3.0 |              | 29.9  | 2.6 |              | 70.2  | 4.7  |                   | 60.1  | 3.0 |
| <b>UNPG82</b>            | <b>26.3</b>                    | 0.0  | 1.0 | <b>88.3</b>  | -0.1  | 0.9 | <b>178.7</b> | 0.1   | 1.2  | <b>153.7</b>      | 0.8   | 1.6 |
|                          |                                | 0.0  | 1.5 |              | -1.6  | 3.1 |              | 3.9   | 7.6  |                   | 21.2  | 4.7 |
| <b>J26YBD</b>            |                                |      |     | <b>58.1</b>  | -1.7  | 2.0 | <b>177.1</b> | 0.1   | 2.3  | <b>124.2</b>      | -0.3  | 1.0 |
|                          |                                |      |     |              | -31.9 | 6.9 |              | 2.4   | 14.0 |                   | -8.2  | 3.1 |
| <b>4JGF2L</b>            | <b>20.1</b>                    | -0.6 | 0.5 | <b>105.2</b> | 0.8   | 0.5 | <b>136.5</b> | -1.1  | 0.1  | <b>134.2</b>      | 0.1   | 0.5 |
|                          |                                | -6.2 | 0.7 |              | 15.2  | 1.6 |              | -38.2 | 0.9  |                   | 1.8   | 1.4 |
| <b>Grand Median</b>      |                                | 26.3 |     | 90.0         |       |     | 174.7        |       |      | 132.4             |       |     |
| <b>Median Abs Dev</b>    |                                | 4.7  |     | 8.1          |       |     | 15.2         |       |      | 11.8              |       |     |
| <b>Avg Within Lab SD</b> |                                | 1.5  |     | 3.5          |       |     | 6.2          |       |      | 3.0               |       |     |
| <b>Labs Included</b>     |                                | 7    |     | 8            |       |     | 8            |       |      | 8                 |       |     |
| <b>Labs Reporting</b>    |                                | 7    |     | 8            |       |     | 8            |       |      | 8                 |       |     |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 |      |     |
|--------------------------|--------------------------------|------|-----|-------------|------|-----|-------------|------|-----|-------------------|------|-----|
|                          | SRBSRB1601                     |      |     | SRBSRB1602  |      |     | SRBSRB1603  |      |     |                   |      |     |
| <b>BFZE6F</b>            | <b>0.8</b>                     | -2.0 | 0.3 | <b>11.2</b> | -0.8 | 0.5 | <b>45.8</b> | -0.8 | 0.4 | <b>7.9</b>        | -1.1 | 0.3 |
|                          |                                | -2.2 | 0.1 |             | -1.0 | 0.3 |             | -1.9 | 0.6 |                   | -1.3 | 0.1 |
| <b>XNBEWV</b>            | <b>3.3</b>                     | 0.2  | 0.7 | <b>13.0</b> | 0.8  | 0.5 | <b>47.0</b> | -0.3 | 0.9 | <b>9.4</b>        | 0.2  | 0.8 |
|                          |                                | 0.3  | 0.3 |             | 0.9  | 0.3 |             | -0.7 | 1.4 |                   | 0.3  | 0.3 |
| <b>F92H9C</b>            | <b>4.0</b>                     | 0.9  | 2.5 | <b>14.0</b> | 1.6  | 1.9 | <b>48.3</b> | 0.3  | 1.0 | <b>10.3</b>       | 1.0  | 1.8 |
|                          |                                | 1.0  | 1.0 |             | 1.9  | 1.0 |             | 0.7  | 1.5 |                   | 1.2  | 0.6 |
| <b>QECBRZ</b>            | <b>3.0</b>                     | 0.0  |     | <b>12.0</b> | -0.1 |     | <b>45.7</b> | -0.8 | 0.4 | <b>9.7</b>        | 0.4  | 1.8 |
|                          |                                | 0.0  | 0.0 |             | -0.1 | 0.0 |             | -2.0 | 0.6 |                   | 0.5  | 0.6 |
| <b>T84DB7</b>            | <b>2.5</b>                     | -0.4 | 0.5 | <b>11.3</b> | -0.8 | 0.5 | <b>46.3</b> | -0.6 | 0.6 | <b>7.4</b>        | -1.6 | 0.2 |
|                          |                                | -0.5 | 0.2 |             | -0.9 | 0.3 |             | -1.3 | 0.9 |                   | -1.8 | 0.1 |
| <b>UNPG82</b>            | <b>3.0</b>                     | 0.0  | 0.2 | <b>12.3</b> | 0.1  | 0.6 | <b>48.6</b> | 0.4  | 0.9 | <b>9.1</b>        | -0.1 | 0.9 |
|                          |                                | 0.0  | 0.1 |             | 0.1  | 0.3 |             | 0.9  | 1.4 |                   | -0.1 | 0.3 |
| <b>J26YBD</b>            | <b>4.3</b>                     | 1.1  | 0.9 | <b>12.9</b> | 0.7  | 1.9 | <b>49.5</b> | 0.8  | 2.2 | <b>9.3</b>        | 0.1  | 0.3 |
|                          |                                | 1.3  | 0.4 |             | 0.8  | 1.0 |             | 1.9  | 3.4 |                   | 0.1  | 0.1 |
| <b>4JGF2L</b>            | <b>2.1</b>                     | -0.8 | 0.4 | <b>11.6</b> | -0.5 | 0.1 | <b>51.5</b> | 1.6  | 0.1 | <b>8.2</b>        | -0.9 | 0.1 |
|                          |                                | -0.9 | 0.2 |             | -0.6 | 0.1 |             | 3.8  | 0.2 |                   | -1.0 | 0.0 |
| <b>Grand Median</b>      |                                | 3.00 |     |             | 12.1 |     |             | 47.7 |     |                   | 9.18 |     |
| <b>Median Abs Dev</b>    |                                | 0.70 |     |             | 0.8  |     |             | 1.6  |     |                   | 0.73 |     |
| <b>Avg Within Lab SD</b> |                                | 0.40 |     |             | 0.5  |     |             | 1.6  |     |                   | 0.33 |     |
| <b>Labs Included</b>     |                                | 8    |     |             | 8    |     |             | 8    |     |                   | 8    |     |
| <b>Labs Reporting</b>    |                                | 8    |     |             | 8    |     |             | 8    |     |                   | 8    |     |





## ALP Program - Participant Web Summary Report - Cycle 29

| 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           |
|--------------------------|--------------------------------|--------------|-------------|--------------|-------------|--------------|-----------------------------|
|                          | SRBSRB1601                     |              | SRBSRB1602  |              | SRBSRB1603  |              |                             |
| <b>T84DB7</b>            | <b>0.32</b>                    | 1.00<br>0.01 | <b>0.68</b> | 1.00<br>0.01 | <b>0.54</b> | 1.00<br>0.01 | <b>0.89</b><br>1.00<br>0.00 |
| <b>Grand Median</b>      |                                | 0.32         |             | 0.68         |             | 0.54         | 0.89                        |
| <b>Median Abs Dev</b>    |                                |              |             |              |             |              |                             |
| <b>Avg Within Lab SD</b> |                                | 0.01         |             | 0.01         |             | 0.01         | 0.00                        |
| <b>Labs Included</b>     |                                | 1            |             | 1            |             | 1            | 1                           |
| <b>Labs Reporting</b>    |                                | 1            |             | 1            |             | 1            | 1                           |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 |       |        |
|--------------------------|-------------------------------------|--------|--------|--------------|-------|--------|--------------|--------|----------|-------------------|-------|--------|
|                          | SRBSRB1601                          |        |        | SRBSRB1602   |       |        | SRBSRB1603   |        |          |                   |       |        |
| <b>AAUKBK</b>            | <b>0.08</b>                         | 1.72   | 1.88   | <b>0.27</b>  | -0.30 | 2.67   | <b>0.33</b>  | 2.52   | 2.47     | <b>0.17</b>       | -0.12 | 2.26   |
|                          |                                     | 0.04   | 0.02   |              | -0.07 | 0.07   |              | 0.19   | 0.03     |                   | -0.02 | 0.06   |
| <b>GAPFPH</b>            |                                     |        |        | <b>1.04</b>  | 3.00  | 0.63   |              |        |          | <b>1.02</b>       | 4.41  | 1.40   |
|                          |                                     |        |        |              | 0.70  | 0.02   |              |        |          |                   | 0.83  | 0.04   |
| <b>2WG8UU</b>            | <b>7.13</b>                         | 316.11 | 524.05 | <b>15.50</b> | 65.38 | 478.72 | <b>20.53</b> | 275.08 | 1,345.50 | <b>13.37</b>      | 70.26 | 422.91 |
|                          |                                     | 7.09   | 6.18   |              | 15.15 | 12.74  |              | 20.39  | 17.88    |                   | 13.17 | 11.16  |
| <b>WYZRCU</b>            | <b>0.03</b>                         | -0.58  | 1.08   | <b>0.40</b>  | 0.25  | 0.31   | <b>0.15</b>  | 0.08   | 0.45     | <b>0.21</b>       | 0.08  | 0.27   |
|                          |                                     | -0.01  | 0.01   |              | 0.06  | 0.01   |              | 0.01   | 0.01     |                   | 0.02  | 0.01   |
|                          | <b>0.04</b>                         | 0.00   | 0.43   | <b>0.33</b>  | -0.05 | 0.32   | <b>0.13</b>  | -0.14  | 0.11     | <b>0.20</b>       | 0.03  | 0.44   |
|                          |                                     | 0.00   | 0.01   |              | -0.01 | 0.01   |              | -0.01  | 0.00     |                   | 0.01  | 0.01   |
| <b>BHL3GF</b>            |                                     |        |        | <b>0.35</b>  | 0.02  | 0.39   | <b>0.12</b>  | -0.29  | 0.23     | <b>0.17</b>       | -0.12 | 0.23   |
|                          |                                     |        |        |              | 0.00  | 0.01   |              | -0.02  | 0.00     |                   | -0.02 | 0.01   |
| <b>MZGWVZ</b>            | <b>0.02</b>                         | -1.06  | 0.26   | <b>0.03</b>  | -1.36 | 0.09   | <b>0.04</b>  | -1.35  | 0.15     | <b>0.09</b>       | -0.55 | 0.59   |
|                          |                                     | -0.02  | 0.00   |              | -0.31 | 0.00   |              | -0.10  | 0.00     |                   | -0.10 | 0.02   |
| <b>DNM26B</b>            | <b>0.04</b>                         | 0.01   | 0.17   | <b>0.43</b>  | 0.39  | 0.09   | <b>0.17</b>  | 0.35   | 0.30     | <b>0.20</b>       | 0.04  | 0.19   |
|                          |                                     | 0.00   | 0.00   |              | 0.09  | 0.00   |              | 0.03   | 0.00     |                   | 0.01  | 0.00   |
| <b>TRP93T</b>            |                                     |        |        | <b>0.34</b>  | -0.02 | 0.28   | <b>0.14</b>  | 0.00   | 0.72     | <b>0.19</b>       | -0.03 | 0.48   |
|                          |                                     |        |        |              | 0.00  | 0.01   |              | 0.00   | 0.01     |                   | -0.01 | 0.01   |
| <b>Grand Median</b>      |                                     | 0.040  |        |              | 0.34  |        |              | 0.14   |          |                   | 0.19  |        |
| <b>Median Abs Dev</b>    |                                     | 0.013  |        |              | 0.06  |        |              | 0.02   |          |                   | 0.02  |        |
| <b>Avg Within Lab SD</b> |                                     | 0.012  |        |              | 0.03  |        |              | 0.01   |          |                   | 0.03  |        |
| <b>Labs Included</b>     |                                     | 5      |        |              | 8     |        |              | 7      |          |                   | 8     |        |
| <b>Labs Reporting</b>    |                                     | 5      |        |              | 8     |        |              | 7      |          |                   | 8     |        |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 |      |     |
|--------------------------|-------------------------------------|------|-----|-------------|-------|------|-------------|-------|------|-------------------|------|-----|
|                          | SRBSRB1601                          |      |     | SRBSRB1602  |       |      | SRBSRB1603  |       |      |                   |      |     |
| <b>AAUKBK</b>            | <b>2.8</b>                          | 1.7  | 0.4 | <b>48.5</b> | 0.7   | 0.3  | <b>34.2</b> | 0.8   | 0.9  | <b>10.7</b>       | 1.0  | 0.7 |
|                          |                                     | 0.7  | 0.1 |             | 4.8   | 0.3  |             | 4.4   | 1.0  |                   | 1.5  | 0.3 |
| <b>GAPFPH</b>            | <b>2.1</b>                          | 0.0  | 0.3 | <b>40.3</b> | -0.5  | 0.5  | <b>29.8</b> | 0.0   | 0.3  | <b>9.1</b>        | 0.0  | 0.5 |
|                          |                                     | 0.0  | 0.1 |             | -3.4  | 0.4  |             | 0.0   | 0.3  |                   | -0.1 | 0.2 |
| <b>2WG8UU</b>            | <b>1.5</b>                          | -1.4 | 1.2 | <b>13.5</b> | -4.3  | 20.9 | <b>10.4</b> | -3.5  | 15.6 | <b>2.0</b>        | -4.6 | 7.1 |
|                          |                                     | -0.6 | 0.3 |             | -30.2 | 20.8 |             | -19.4 | 17.0 |                   | -7.2 | 2.6 |
| <b>XHNEVW</b>            | <b>2.4</b>                          | 0.7  | 0.2 | <b>49.3</b> | 0.8   | 0.3  | <b>35.9</b> | 1.1   | 0.2  | <b>10.5</b>       | 0.9  | 0.3 |
|                          |                                     | 0.3  | 0.1 |             | 5.6   | 0.3  |             | 6.1   | 0.2  |                   | 1.4  | 0.1 |
| <b>WYZRCU</b>            | <b>1.6</b>                          | -1.0 | 2.8 | <b>46.6</b> | 0.4   | 1.1  | <b>32.9</b> | 0.5   | 2.0  | <b>10.1</b>       | 0.6  | 1.1 |
|                          |                                     | -0.5 | 0.8 |             | 2.9   | 1.1  |             | 3.1   | 2.2  |                   | 1.0  | 0.4 |
|                          | <b>2.4</b>                          | 0.8  | 0.8 | <b>42.5</b> | -0.2  | 1.3  | <b>29.5</b> | -0.1  | 1.4  | <b>9.1</b>        | 0.0  | 0.9 |
|                          |                                     | 0.3  | 0.2 |             | -1.2  | 1.3  |             | -0.3  | 1.5  |                   | 0.0  | 0.3 |
| <b>BHL3GF</b>            | <b>2.1</b>                          | 0.0  | 0.1 | <b>43.7</b> | 0.0   | 2.0  | <b>29.4</b> | -0.1  | 1.0  | <b>8.7</b>        | -0.3 | 0.4 |
|                          |                                     | 0.0  | 0.0 |             | 0.0   | 2.0  |             | -0.4  | 1.1  |                   | -0.4 | 0.1 |
| <b>MZGWVZ</b>            | <b>1.6</b>                          | -1.2 | 0.3 | <b>27.5</b> | -2.3  | 1.2  | <b>18.8</b> | -2.0  | 0.3  | <b>5.9</b>        | -2.1 | 2.2 |
|                          |                                     | -0.5 | 0.1 |             | -16.2 | 1.2  |             | -11.0 | 0.4  |                   | -3.3 | 0.8 |
| <b>DNM26B</b>            | <b>2.4</b>                          | 0.7  | 0.4 | <b>49.9</b> | 0.9   | 0.3  | <b>36.1</b> | 1.1   | 0.9  | <b>10.5</b>       | 0.9  | 1.0 |
|                          |                                     | 0.3  | 0.1 |             | 6.2   | 0.3  |             | 6.3   | 0.9  |                   | 1.4  | 0.4 |
| <b>TRP93T</b>            | <b>2.1</b>                          | 0.0  | 0.2 | <b>45.9</b> | 0.3   | 0.4  | <b>32.3</b> | 0.4   | 0.3  | <b>9.6</b>        | 0.3  | 0.4 |
|                          |                                     | 0.0  | 0.1 |             | 2.2   | 0.4  |             | 2.4   | 0.3  |                   | 0.5  | 0.1 |
| <b>Grand Median</b>      |                                     | 2.08 |     | 43.7        |       |      | 29.8        |       |      | 9.14              |      |     |
| <b>Median Abs Dev</b>    |                                     | 0.32 |     | 3.4         |       |      | 3.1         |       |      | 0.97              |      |     |
| <b>Avg Within Lab SD</b> |                                     | 0.29 |     | 1.0         |       |      | 1.1         |       |      | 0.37              |      |     |
| <b>Labs Included</b>     |                                     | 9    |     | 9           |       |      | 9           |       |      | 9                 |      |     |
| <b>Labs Reporting</b>    |                                     | 9    |     | 9           |       |      | 9           |       |      | 9                 |      |     |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 |         |         |
|--------------------------|-------------------------------------|---------|---------|---------------|-----------|-----------|---------------|-----------|-----------|-------------------|---------|---------|
|                          | SRBSRB1601                          |         |         | SRBSRB1602    |           |           | SRBSRB1603    |           |           |                   |         |         |
| <b>AAUKBK</b>            | <b>0.011</b>                        | -1.053  | 0.000   | <b>0.075</b>  | 3.638     | 0.000     | <b>0.097</b>  | 1.642     | 1.913     | <b>0.196</b>      | 1.671   | 0.374   |
|                          |                                     | -0.003  | 0.000   |               | 0.036     | 0.000     |               | 0.020     | 0.021     |                   | 0.044   | 0.006   |
| <b>2WG8UU</b>            | <b>1.478</b>                        | 514.938 | 344.412 | <b>21.191</b> | 2,128.517 | 1,206.006 | <b>15.784</b> | 1,287.190 | 1,210.158 | <b>4.872</b>      | 180.665 | 251.841 |
|                          |                                     | 1.465   | 1.107   |               | 21.152    | 18.218    |               | 15.707    | 13.592    |                   | 4.720   | 4.162   |
| <b>WYZRCU</b>            | <b>0.013</b>                        | -0.212  | 2.061   | <b>0.037</b>  | -0.158    | 1.078     | <b>0.069</b>  | -0.606    | 1.278     | <b>0.148</b>      | -0.179  | 0.105   |
|                          |                                     | -0.001  | 0.007   |               | -0.002    | 0.002     |               | -0.007    | 0.014     |                   | -0.005  | 0.002   |
|                          | <b>0.015</b>                        | 0.350   | 0.648   | <b>0.032</b>  | -0.637    | 0.710     | <b>0.077</b>  | 0.000     | 1.279     | <b>0.164</b>      | 0.421   | 2.310   |
|                          |                                     | 0.001   | 0.002   |               | -0.006    | 0.001     |               | 0.000     | 0.014     |                   | 0.011   | 0.038   |
| <b>BHL3GF</b>            |                                     |         |         | <b>0.039</b>  | 0.000     | 1.548     | <b>0.071</b>  | -0.437    | 0.103     | <b>0.147</b>      | -0.204  | 0.286   |
|                          |                                     |         |         |               | 0.000     | 0.003     |               | -0.005    | 0.001     |                   | -0.005  | 0.005   |
| <b>MZGWVZ</b>            | <b>0.014</b>                        | 0.000   | 0.329   | <b>0.037</b>  | -0.121    | 1.245     | <b>0.055</b>  | -1.763    | 0.136     | <b>0.095</b>      | -2.208  | 1.130   |
|                          |                                     | 0.000   | 0.001   |               | -0.001    | 0.002     |               | -0.022    | 0.002     |                   | -0.058  | 0.019   |
| <b>DNM26B</b>            | <b>0.019</b>                        | 1.757   | 0.475   | <b>0.040</b>  | 0.168     | 0.940     | <b>0.078</b>  | 0.109     | 0.089     | <b>0.153</b>      | 0.000   | 0.299   |
|                          |                                     | 0.005   | 0.002   |               | 0.002     | 0.002     |               | 0.001     | 0.001     |                   | 0.000   | 0.005   |
| <b>TRP93T</b>            |                                     |         |         | <b>0.039</b>  | 0.000     | 0.710     | <b>0.079</b>  | 0.164     | 0.185     | <b>0.154</b>      | 0.038   | 0.252   |
|                          |                                     |         |         |               | 0.000     | 0.001     |               | 0.002     | 0.002     |                   | 0.001   | 0.004   |
| <b>Grand Median</b>      |                                     | 0.014   |         |               | 0.039     |           |               | 0.077     |           |                   | 0.15    |         |
| <b>Median Abs Dev</b>    |                                     | 0.001   |         |               | 0.002     |           |               | 0.005     |           |                   | 0.01    |         |
| <b>Avg Within Lab SD</b> |                                     | 0.003   |         |               | 0.002     |           |               | 0.011     |           |                   | 0.02    |         |
| <b>Labs Included</b>     |                                     | 5       |         |               | 7         |           |               | 7         |           |                   | 7       |         |
| <b>Labs Reporting</b>    |                                     | 5       |         |               | 7         |           |               | 7         |           |                   | 7       |         |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 |       |      |
|--------------------------|-------------------------------------|-------|------|-------------|-------|------|-------------|-------|------|-------------------|-------|------|
|                          | SRBSRB1601                          |       |      | SRBSRB1602  |       |      | SRBSRB1603  |       |      |                   |       |      |
| <b>AAUKBK</b>            | <b>0.01</b>                         | -0.05 | 0.01 | <b>0.12</b> | -0.06 | 0.01 | <b>1.32</b> | -0.68 | 0.12 | <b>0.06</b>       | -0.21 | 0.30 |
|                          |                                     | -0.01 | 0.01 |             | -0.01 | 0.01 |             | -0.22 | 0.07 |                   | -0.01 | 0.02 |
| <b>J42726</b>            |                                     |       |      |             |       |      | <b>1.23</b> | -0.95 | 0.42 |                   |       | 0.30 |
|                          |                                     |       |      |             |       |      |             | -0.30 | 0.25 |                   |       |      |
| <b>GAPFPH</b>            |                                     |       |      |             |       |      | <b>1.89</b> | 1.11  | 0.57 |                   |       | 0.30 |
|                          |                                     |       |      |             |       |      |             | 0.35  | 0.34 |                   |       |      |
| <b>2WG8UU</b>            | <b>0.89</b>                         | 3.76  | 2.45 | <b>0.92</b> | 3.99  | 2.83 | <b>1.24</b> | -0.91 | 1.56 | <b>0.16</b>       | 2.04  | 2.42 |
|                          |                                     | 0.86  | 1.23 |             | 0.78  | 1.23 |             | -0.29 | 0.93 |                   | 0.10  | 0.13 |
| <b>WYZRCU</b>            | <b>0.02</b>                         | -0.02 |      | <b>0.13</b> | 0.01  | 0.00 | <b>1.84</b> | 0.97  | 1.04 | <b>0.06</b>       | -0.08 | 0.03 |
|                          |                                     | 0.00  | 0.00 |             | 0.00  | 0.00 |             | 0.31  | 0.62 |                   | 0.00  | 0.00 |
|                          | <b>0.03</b>                         | 0.02  | 0.03 | <b>0.12</b> | -0.04 | 0.00 | <b>1.39</b> | -0.45 | 0.55 | <b>0.07</b>       | 0.08  | 0.15 |
|                          |                                     | 0.00  | 0.01 |             | -0.01 | 0.00 |             | -0.14 | 0.33 |                   | 0.00  | 0.01 |
| <b>BHL3GF</b>            |                                     |       |      | <b>0.13</b> | -0.01 |      | <b>1.55</b> | 0.06  | 0.54 |                   |       | 0.15 |
|                          |                                     |       |      |             | 0.00  | 0.01 |             | 0.02  | 0.32 |                   |       |      |
| <b>MZGWVZ</b>            | <b>0.07</b>                         | 0.18  | 0.04 | <b>0.37</b> | 1.22  | 0.11 | <b>1.89</b> | 1.12  | 2.16 | <b>0.13</b>       | 1.41  | 0.19 |
|                          |                                     | 0.04  | 0.02 |             | 0.24  | 0.05 |             | 0.36  | 1.29 |                   | 0.07  | 0.01 |
| <b>DNM26B</b>            | <b>0.02</b>                         | -0.02 | 0.00 | <b>0.14</b> | 0.04  | 0.01 | <b>1.51</b> | -0.06 | 0.10 | <b>0.06</b>       | -0.22 | 0.04 |
|                          |                                     | 0.00  | 0.00 |             | 0.01  | 0.00 |             | -0.02 | 0.06 |                   | -0.01 | 0.00 |
| <b>TRP93T</b>            |                                     |       |      | <b>0.13</b> | -0.03 |      | <b>1.67</b> | 0.43  | 0.84 |                   |       | 0.04 |
|                          |                                     |       |      |             | -0.01 | 0.01 |             | 0.14  | 0.50 |                   |       |      |
| <b>Grand Median</b>      |                                     | 0.026 |      |             | 0.13  |      |             | 1.53  |      |                   | 0.067 |      |
| <b>Median Abs Dev</b>    |                                     | 0.008 |      |             | 0.01  |      |             | 0.25  |      |                   | 0.010 |      |
| <b>Avg Within Lab SD</b> |                                     | 0.503 |      |             | 0.43  |      |             | 0.60  |      |                   | 0.055 |      |
| <b>Labs Included</b>     |                                     | 6     |      |             | 8     |      |             | 10    |      |                   | 6     |      |
| <b>Labs Reporting</b>    |                                     | 6     |      |             | 8     |      |             | 10    |      |                   | 6     |      |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 |       |      |
|--------------------------|-------------------------------------|-------|------|-------------|-------|------|-------------|-------|------|-------------------|-------|------|
|                          | SRBSRB1601                          |       |      | SRBSRB1602  |       |      | SRBSRB1603  |       |      |                   |       |      |
| <b>AAUKBK</b>            | <b>0.18</b>                         | 0.11  | 1.03 | <b>1.57</b> | 0.15  | 0.26 | <b>2.16</b> | 0.08  | 0.24 | <b>0.28</b>       | 0.02  | 0.41 |
|                          |                                     | 0.01  | 0.06 |             | 0.05  | 0.06 |             | 0.04  | 0.06 |                   | 0.00  | 0.02 |
| <b>GAPFPH</b>            |                                     |       |      | <b>1.70</b> | 0.53  |      | <b>2.54</b> | 0.81  | 0.54 |                   |       | 0.41 |
|                          |                                     |       |      |             | 0.19  | 0.07 |             | 0.43  | 0.15 |                   |       |      |
| <b>2WG8UU</b>            | <b>0.07</b>                         | -0.95 | 1.44 | <b>0.52</b> | -2.76 | 3.01 | <b>1.19</b> | -1.76 | 2.49 | <b>0.10</b>       | -1.87 | 2.55 |
|                          |                                     | -0.09 | 0.09 |             | -0.99 | 0.73 |             | -0.93 | 0.68 |                   | -0.18 | 0.14 |
| <b>XHNEVW</b>            |                                     |       |      | <b>1.72</b> | 0.58  |      | <b>2.70</b> | 1.12  | 1.22 |                   |       | 2.55 |
|                          |                                     |       |      |             | 0.21  | 0.20 |             | 0.59  | 0.33 |                   |       |      |
| <b>WYZRCU</b>            |                                     |       |      | <b>1.67</b> | 0.43  | 0.15 | <b>2.18</b> | 0.12  | 0.96 | <b>0.31</b>       | 0.35  | 0.21 |
|                          |                                     |       |      |             | 0.15  | 0.04 |             | 0.06  | 0.26 |                   | 0.03  | 0.01 |
|                          | <b>0.32</b>                         | 1.55  | 0.95 | <b>1.51</b> | -0.02 | 0.06 | <b>1.98</b> | -0.26 | 0.26 | <b>0.29</b>       | 0.07  | 0.39 |
|                          |                                     | 0.15  | 0.06 |             | -0.01 | 0.02 |             | -0.14 | 0.07 |                   | 0.01  | 0.02 |
| <b>BHL3GF</b>            |                                     |       |      | <b>1.49</b> | -0.06 | 0.26 | <b>2.01</b> | -0.19 | 0.08 | <b>0.28</b>       | 0.00  | 0.00 |
|                          |                                     |       |      |             | -0.02 | 0.06 |             | -0.10 | 0.02 |                   | 0.00  | 0.00 |
| <b>MZGWVZ</b>            | <b>0.09</b>                         | -0.76 | 0.94 | <b>0.76</b> | -2.10 | 0.13 | <b>1.04</b> | -2.03 | 0.13 | <b>0.09</b>       | -1.99 | 0.28 |
|                          |                                     | -0.08 | 0.06 |             | -0.75 | 0.03 |             | -1.07 | 0.04 |                   | -0.19 | 0.01 |
| <b>DNM26B</b>            | <b>0.17</b>                         | 0.00  | 0.26 | <b>1.52</b> | 0.02  | 0.11 | <b>2.07</b> | -0.08 | 0.17 | <b>0.24</b>       | -0.42 | 0.19 |
|                          |                                     | 0.00  | 0.02 |             | 0.01  | 0.03 |             | -0.04 | 0.05 |                   | -0.04 | 0.01 |
| <b>TRP93T</b>            |                                     |       |      | <b>1.48</b> | -0.09 |      | <b>2.27</b> | 0.29  | 0.96 |                   |       | 0.19 |
|                          |                                     |       |      |             | -0.03 | 0.01 |             | 0.15  | 0.26 |                   |       |      |
| <b>Grand Median</b>      |                                     | 0.17  |      |             | 1.51  |      |             | 2.11  |      |                   | 0.28  |      |
| <b>Median Abs Dev</b>    |                                     | 0.08  |      |             | 0.10  |      |             | 0.15  |      |                   | 0.03  |      |
| <b>Avg Within Lab SD</b> |                                     | 0.06  |      |             | 0.24  |      |             | 0.27  |      |                   | 0.05  |      |
| <b>Labs Included</b>     |                                     | 5     |      |             | 10    |      |             | 10    |      |                   | 7     |      |
| <b>Labs Reporting</b>    |                                     | 5     |      |             | 10    |      |             | 10    |      |                   | 7     |      |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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>Pb (SubTestCode 242)</b> |              |                |                |              |                 |                 |              |                 |                   |              |                          | <b>Data units: mg/kg</b> |
|-----------------------------|--------------|----------------|----------------|--------------|-----------------|-----------------|--------------|-----------------|-------------------|--------------|--------------------------|--------------------------|
| SRBSRB1601                  |              |                | SRBSRB1602     |              |                 | SRBSRB1603      |              |                 |                   |              |                          |                          |
| <b>AAUKBK</b>               | <b>0.63</b>  | 0.03<br>0.41   | 0.00<br>0.03   | <b>1.10</b>  | 1.19<br>0.26    | 0.68<br>0.06    | <b>0.41</b>  | 1.84<br>0.22    | 2.02<br>0.08      | <b>4.28</b>  | 0.82<br>0.55<br>0.41     | 0.35<br>0.11<br>0.37     |
| <b>GAPFPH</b>               |              |                |                |              |                 |                 |              |                 |                   | <b>4.01</b>  | 0.27<br>0.11             | 0.11                     |
| <b>2WG8UU</b>               | <b>76.02</b> | 5.26<br>75.80  | 1.48<br>65.34  | <b>74.03</b> | 333.10<br>73.19 | 697.62<br>63.36 | <b>74.13</b> | 625.65<br>73.94 | 1,562.20<br>63.33 | <b>78.96</b> | 112.61<br>75.23<br>-0.50 | 209.58<br>64.65<br>1.28  |
| <b>XHNEVW</b>               |              |                |                |              |                 |                 |              |                 |                   | <b>3.40</b>  | -0.33<br>0.28            | 0.39<br>1.52             |
| <b>WYZRCU</b>               | <b>0.18</b>  | 0.00<br>-0.04  | 0.00<br>0.08   | <b>0.85</b>  | 0.04<br>0.01    | 2.34<br>0.21    | <b>0.19</b>  | -0.06<br>-0.01  | 0.74<br>0.03      | <b>3.92</b>  | 0.19<br>0.00             | 0.47<br>1.43             |
|                             | <b>0.30</b>  | 0.01<br>0.08   | 0.00<br>0.11   | <b>0.80</b>  | -0.20<br>-0.04  | 0.52<br>0.05    | <b>0.21</b>  | 0.12<br>0.01    | 0.39<br>0.02      | <b>3.73</b>  | 0.00<br>-0.48            | 0.44<br>0.48             |
| <b>BHL3GF</b>               | <b>0.20</b>  | 0.00<br>-0.02  | 0.00<br>0.02   | <b>0.84</b>  | 0.00<br>0.00    | 0.25<br>0.02    | <b>0.19</b>  | 0.00<br>0.00    | 0.10<br>0.00      | <b>3.41</b>  | -0.32<br>-2.81           | 0.15<br>1.02             |
| <b>MZGWVZ</b>               | <b>-0.08</b> | -0.02<br>-0.30 | 0.00<br>0.06   | <b>0.25</b>  | -2.72<br>-0.60  | 0.31<br>0.03    | <b>-0.11</b> | -2.58<br>-0.31  | 1.45<br>0.06      | <b>1.85</b>  | -1.88<br>-0.67           | 0.31<br>0.22             |
| <b>DNM26B</b>               | <b>67.46</b> | 4.66<br>67.24  | 2.65<br>116.51 | <b>0.82</b>  | -0.09<br>-0.02  | 0.37<br>0.03    | <b>0.19</b>  | 0.00<br>0.00    | 0.25<br>0.01      | <b>3.29</b>  | -0.45<br>0.09            | 0.07<br>1.20             |
| <b>TRP93T</b>               | <b>0.22</b>  | 0.00<br>0.00   | 0.00<br>0.01   | <b>0.95</b>  | 0.47<br>0.10    | 0.70<br>0.06    | <b>0.21</b>  | 0.11<br>0.01    | 0.14<br>0.01      | <b>3.80</b>  | 0.06<br>0.37             |                          |
| <b>Grand Median</b>         |              | 0.22           |                | 0.84         |                 |                 | 0.19         |                 |                   | 3.73         |                          |                          |
| <b>Median Abs Dev</b>       |              | 0.08           |                | 0.04         |                 |                 | 0.01         |                 |                   | 0.32         |                          |                          |
| <b>Avg Within Lab SD</b>    |              | 44.04          |                | 0.09         |                 |                 | 0.04         |                 |                   | 0.31         |                          |                          |
| <b>Labs Included</b>        |              | 7              |                | 7            |                 |                 | 7            |                 |                   | 9            |                          |                          |
| <b>Labs Reporting</b>       |              | 7              |                | 7            |                 |                 | 7            |                 |                   | 9            |                          |                          |



## ALP Program - Participant Web Summary Report - Cycle 29

|                    |         |         |                    |         |         |                    |         |         |
|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|
| 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 |      |      |
|--------------------------|-------------------------------------|------|-----|--------------|--------|-----|--------------|-------|------|-------------------|------|------|
|                          | SRBSRB1601                          |      |     | SRBSRB1602   |        |     | SRBSRB1603   |       |      |                   |      |      |
| <b>AAUKBK</b>            | <b>3.2</b>                          | 1.0  | 0.0 | <b>219.5</b> | 1.4    | 0.9 | <b>121.4</b> | 1.1   | 0.2  | <b>11.6</b>       | 1.3  | 1.3  |
|                          |                                     | 0.4  | 0.0 |              | 22.8   | 2.7 |              | 10.4  | 1.1  |                   | 1.0  | 0.3  |
| <b>J42726</b>            | <b>2.6</b>                          | -0.4 | 0.1 | <b>184.2</b> | -0.8   | 0.4 | <b>108.1</b> | -0.3  | 0.5  | <b>10.1</b>       | -0.6 | 0.5  |
|                          |                                     | -0.2 | 0.1 |              | -12.5  | 1.1 |              | -2.9  | 2.3  |                   | -0.5 | 0.1  |
| <b>GAPFPH</b>            | <b>3.3</b>                          | 1.2  | 0.9 | <b>181.6</b> | -0.9   | 0.8 | <b>103.3</b> | -0.8  | 0.2  | <b>9.4</b>        | -1.7 | 0.2  |
|                          |                                     | 0.5  | 0.3 |              | -15.0  | 2.5 |              | -7.7  | 1.0  |                   | -1.2 | 0.0  |
| <b>2WG8UU</b>            | <b>0.9</b>                          | -4.5 | 3.9 | <b>1.6</b>   | -11.9  | 0.1 | <b>37.4</b>  | -7.9  | 14.1 | <b>3.3</b>        | -9.7 | 23.3 |
|                          |                                     | -1.9 | 1.5 |              | -195.0 | 0.2 |              | -73.6 | 61.3 |                   | -7.3 | 5.4  |
| <b>XHNEVW</b>            | <b>3.0</b>                          | 0.6  | 0.3 | <b>211.0</b> | 0.9    | 0.3 | <b>122.0</b> | 1.2   | 0.4  | <b>11.0</b>       | 0.5  | 0.2  |
|                          |                                     | 0.3  | 0.1 |              | 14.3   | 1.1 |              | 11.0  | 1.9  |                   | 0.4  | 0.0  |
| <b>WYZRCU</b>            | <b>2.1</b>                          | -1.5 | 2.8 | <b>196.7</b> | 0.0    | 0.8 | <b>109.1</b> | -0.2  | 2.0  | <b>10.3</b>       | -0.4 | 1.4  |
|                          |                                     | -0.7 | 1.1 |              | 0.0    | 2.5 |              | -1.9  | 8.6  |                   | -0.3 | 0.3  |
|                          | <b>2.9</b>                          | 0.2  | 0.4 | <b>199.0</b> | 0.1    | 1.1 | <b>115.7</b> | 0.5   | 1.0  | <b>10.9</b>       | 0.4  | 0.7  |
|                          |                                     | 0.1  | 0.2 |              | 2.3    | 3.6 |              | 4.7   | 4.2  |                   | 0.3  | 0.2  |
| <b>BHL3GF</b>            | <b>2.8</b>                          | 0.0  | 0.1 | <b>191.3</b> | -0.3   | 1.4 | <b>111.0</b> | 0.0   | 1.6  | <b>10.6</b>       | 0.0  | 1.3  |
|                          |                                     | 0.0  | 0.0 |              | -5.3   | 4.5 |              | 0.0   | 7.0  |                   | 0.0  | 0.3  |
| <b>DNM26B</b>            | <b>3.1</b>                          | 0.8  | 0.2 | <b>221.0</b> | 1.5    | 1.1 | <b>123.3</b> | 1.3   | 0.9  | <b>11.4</b>       | 1.1  | 1.6  |
|                          |                                     | 0.3  | 0.1 |              | 24.3   | 3.5 |              | 12.3  | 4.0  |                   | 0.8  | 0.4  |
| <b>TRP93T</b>            | <b>2.7</b>                          | -0.2 | 0.3 | <b>199.7</b> | 0.2    | 1.5 | <b>116.3</b> | 0.6   | 0.4  | <b>10.6</b>       | 0.0  | 0.4  |
|                          |                                     | -0.1 | 0.1 |              | 3.0    | 4.7 |              | 5.3   | 1.5  |                   | 0.0  | 0.1  |
| <b>Grand Median</b>      |                                     | 2.77 |     |              | 196.7  |     |              | 111.0 |      |                   | 10.6 |      |
| <b>Median Abs Dev</b>    |                                     | 0.25 |     |              | 12.5   |     |              | 5.3   |      |                   | 0.4  |      |
| <b>Avg Within Lab SD</b> |                                     | 0.39 |     |              | 3.2    |     |              | 4.3   |      |                   | 0.2  |      |
| <b>Labs Included</b>     |                                     | 9    |     |              | 9      |     |              | 9     |      |                   | 9    |      |
| <b>Labs Reporting</b>    |                                     | 9    |     |              | 9      |     |              | 9     |      |                   | 9    |      |





## ALP Program - Participant Web Summary Report - Cycle 29

| 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) <span style="float: right;">Data units:</span> |             |       |      |             |       |      |             |       |      |
|---|-------------|-------|------|-------------|-------|------|-------------|-------|------|
|   | SRWSRW1601  |       |      | SRWSRW1602  |       |      | SRWSRW1603  |       |      |
| <b>AAUKBK</b>   | <b>7.40</b> | -0.58 | 0.00 | <b>8.48</b> | 0.00  | 0.00 | <b>7.45</b> | -0.23 | 0.00 |
|   |             | -0.10 | 0.00 |             | 0.00  | 0.00 |             | -0.03 | 0.00 |
| <b>83L8FJ</b>   | <b>7.65</b> | 0.92  | 0.73 | <b>8.78</b> | 0.80  | 0.78 | <b>7.60</b> | 0.77  | 0.80 |
|   |             | 0.15  | 0.05 |             | 0.30  | 0.04 |             | 0.11  | 0.02 |
| <b>2GK3BP</b>   | <b>7.17</b> | -1.98 | 0.75 | <b>8.43</b> | -0.14 | 1.29 | <b>7.53</b> | 0.32  | 0.38 |
|   |             | -0.33 | 0.05 |             | -0.05 | 0.06 |             | 0.05  | 0.01 |
| <b>WGX7VT</b>   | <b>7.60</b> | 0.62  | 3.40 | <b>8.54</b> | 0.16  | 1.10 | <b>7.54</b> | 0.38  | 0.38 |
|   |             | 0.10  | 0.21 |             | 0.06  | 0.05 |             | 0.06  | 0.01 |
| <b>QECBRZ</b>   | <b>7.49</b> | -0.02 | 0.49 | <b>8.66</b> | 0.49  | 0.80 | <b>7.32</b> | -1.11 | 0.77 |
|   |             | 0.00  | 0.03 |             | 0.18  | 0.04 |             | -0.16 | 0.02 |
| <b>RMZ998</b>   | <b>7.61</b> | 0.70  | 1.06 | <b>8.41</b> | -0.19 | 2.49 | <b>7.40</b> | -0.59 | 1.35 |
|   |             | 0.12  | 0.07 |             | -0.07 | 0.11 |             | -0.09 | 0.04 |
| <b>BMDAYP</b>   | <b>7.57</b> | 0.42  | 0.37 | <b>7.75</b> | -1.99 | 1.11 | <b>7.48</b> | 0.00  | 2.22 |
|   |             | 0.07  | 0.02 |             | -0.73 | 0.05 |             | 0.00  | 0.06 |
| <b>TNQUE3</b>   | <b>7.47</b> | -0.14 | 0.72 | <b>8.79</b> | 0.83  | 0.51 | <b>7.49</b> | 0.07  | 0.59 |
|   |             | -0.02 | 0.05 |             | 0.31  | 0.02 |             | 0.01  | 0.02 |
| <b>CPEWRJ</b>   | <b>7.58</b> | 0.50  | 0.16 | <b>7.80</b> | -1.84 | 0.76 | <b>7.46</b> | -0.16 | 1.39 |
|   |             | 0.08  | 0.01 |             | -0.68 | 0.03 |             | -0.02 | 0.04 |
| <b>XHNEVW</b>   | <b>7.64</b> | 0.86  | 0.32 | <b>8.58</b> | 0.28  | 0.13 | <b>7.50</b> | 0.14  | 0.80 |
|   |             | 0.14  | 0.02 |             | 0.10  | 0.01 |             | 0.02  | 0.02 |
| <b>4JGF2L</b>   | <b>7.44</b> | -0.34 | 0.48 | <b>8.59</b> | 0.29  | 1.47 | <b>7.67</b> | 1.24  | 1.55 |
|   |             | -0.06 | 0.03 |             | 0.11  | 0.07 |             | 0.18  | 0.04 |
| <b>MZGWVZ</b>   | <b>7.60</b> | 0.60  | 0.24 | <b>8.50</b> | 0.05  | 1.01 | <b>7.41</b> | -0.47 | 0.97 |
|   |             | 0.10  | 0.02 |             | 0.02  | 0.05 |             | -0.07 | 0.03 |
| <b>ZZZ3WM</b>   | <b>7.47</b> | -0.14 | 1.23 | <b>8.35</b> | -0.34 | 0.89 | <b>7.64</b> | 1.06  | 1.02 |
|   |             | -0.02 | 0.08 |             | -0.13 | 0.04 |             | 0.16  | 0.03 |
| <b>PHEWWY</b>   | <b>7.30</b> | -1.20 | 0.64 | <b>8.59</b> | 0.29  | 0.71 | <b>7.36</b> | -0.81 | 0.44 |
|   |             | -0.20 | 0.04 |             | 0.11  | 0.03 |             | -0.12 | 0.01 |
| <b>XYFCWR</b>   | <b>7.50</b> | 0.00  | 0.09 | <b>8.17</b> | -0.83 | 0.25 | <b>7.37</b> | -0.77 | 0.00 |
|   |             | 0.00  | 0.01 |             | -0.31 | 0.01 |             | -0.11 | 0.00 |
| <b>J6NUD7</b>   | <b>7.67</b> | 1.05  |      | <b>8.43</b> | -0.14 |      | <b>7.77</b> | 1.95  |      |
|   |             | 0.17  | 0.00 |             | -0.05 | 0.00 |             | 0.29  | 0.00 |
| <b>KBNT2Z</b>   | <b>7.26</b> | -1.40 | 0.09 | <b>7.45</b> | -2.79 | 0.22 | <b>7.27</b> | -1.42 | 1.11 |
|   |             | -0.23 | 0.01 |             | -1.03 | 0.01 |             | -0.21 | 0.03 |
| <b>Grand Median</b>   |             | 7.50  |      | 8.48        |       |      | 7.48        |       |      |
| <b>Median Abs Dev</b>   |             | 0.10  |      | 0.11        |       |      | 0.09        |       |      |
| <b>Avg Within Lab SD</b>  |             | 0.06  |      | 0.05        |       |      | 0.03        |       |      |
| <b>Labs Included</b>  |             | 17    |      | 17          |       |      | 17          |       |      |
| <b>Labs Reporting</b>   |             | 17    |      | 17          |       |      | 17          |       |      |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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) <span style="float: right;">Data units: dS/m</span> |             |       |      |             |        |      |             |       |      |
|--|-------------|-------|------|-------------|--------|------|-------------|-------|------|
|  | SRWSRW1601  |       |      | SRWSRW1602  |        |      | SRWSRW1603  |       |      |
| AAUKBK   | <b>0.21</b> | -0.63 | 0.00 | <b>0.15</b> | -0.71  | 0.00 | <b>0.10</b> | -0.38 | 0.29 |
|  |             | -0.01 | 0.00 |             | -0.01  | 0.00 |             | -0.01 | 0.00 |
| 83L8FJ   | <b>0.21</b> | -0.32 | 0.83 | <b>0.16</b> | 0.01   | 1.52 | <b>0.10</b> | -0.09 | 1.27 |
|  |             | 0.00  | 0.00 |             | 0.00   | 0.00 |             | 0.00  | 0.00 |
| 2GK3BP   | <b>0.21</b> | -0.43 | 1.18 | <b>0.15</b> | -0.59  | 0.00 | <b>0.10</b> | -0.43 | 0.00 |
|  |             | -0.01 | 0.01 |             | 0.00   | 0.00 |             | -0.01 | 0.00 |
| WGX7VT   | <b>0.22</b> | -0.14 | 1.18 | <b>0.15</b> | -0.59  | 0.00 | <b>0.11</b> | 0.06  | 2.92 |
|  |             | 0.00  | 0.01 |             | 0.00   | 0.00 |             | 0.00  | 0.01 |
| QECBRZ   | <b>0.23</b> | 1.00  | 2.04 | <b>0.16</b> | 0.61   | 0.00 | <b>0.11</b> | 0.31  | 0.00 |
|  |             | 0.01  | 0.01 |             | 0.01   | 0.00 |             | 0.00  | 0.00 |
| RMZ998   | <b>0.20</b> | -1.97 | 0.47 | <b>0.14</b> | -2.19  | 0.66 | <b>0.09</b> | -1.43 | 1.46 |
|  |             | -0.02 | 0.00 |             | -0.02  | 0.00 |             | -0.02 | 0.00 |
| BMDAYP   | <b>0.24</b> | 1.85  | 0.00 | <b>0.17</b> | 1.81   | 0.00 | <b>0.12</b> | 1.06  | 0.00 |
|  |             | 0.02  | 0.00 |             | 0.02   | 0.00 |             | 0.01  | 0.00 |
| TNQUE3   | <b>0.22</b> | 0.14  | 0.00 | <b>0.16</b> | 0.61   | 0.00 | <b>0.11</b> | 0.31  | 0.00 |
|  |             | 0.00  | 0.00 |             | 0.01   | 0.00 |             | 0.00  | 0.00 |
| CPEWRJ   | <b>1.09</b> | 75.01 | 6.35 | <b>1.72</b> | 187.59 | 3.82 | <b>1.08</b> | 72.46 | 4.09 |
|  |             | 0.88  | 0.03 |             | 1.56   | 0.01 |             | 0.97  | 0.01 |
| XHNEVW   | <b>0.22</b> | -0.06 | 0.09 | <b>0.16</b> | 0.01   | 0.38 | <b>0.10</b> | -0.16 | 0.11 |
|  |             | 0.00  | 0.00 |             | 0.00   | 0.00 |             | 0.00  | 0.00 |
| 4JGF2L   | <b>0.19</b> | -2.74 | 0.12 | <b>0.15</b> | -0.11  | 0.00 | <b>0.11</b> | -0.06 | 0.00 |
|  |             | -0.03 | 0.00 |             | 0.00   | 0.00 |             | 0.00  | 0.00 |
| MZGWVZ   | <b>0.22</b> | 0.20  | 2.25 | <b>0.16</b> | 0.97   | 1.52 | <b>0.11</b> | 0.61  | 1.34 |
|  |             | 0.00  | 0.01 |             | 0.01   | 0.00 |             | 0.01  | 0.00 |
| ZZZ3WM   | <b>0.22</b> | -0.14 | 1.18 | <b>0.15</b> | -0.59  | 0.00 | <b>0.10</b> | -0.43 | 0.00 |
|  |             | 0.00  | 0.01 |             | 0.00   | 0.00 |             | -0.01 | 0.00 |
| PHEWWY   | <b>0.22</b> | 0.06  | 0.35 | <b>0.15</b> | -0.01  | 0.50 | <b>0.11</b> | 0.29  | 0.08 |
|  |             | 0.00  | 0.00 |             | 0.00   | 0.00 |             | 0.00  | 0.00 |
| XYFCWR   | <b>0.22</b> | 0.06  | 0.02 | <b>0.16</b> | 0.18   | 0.07 | <b>0.10</b> | -0.18 | 0.05 |
|  |             | 0.00  | 0.00 |             | 0.00   | 0.00 |             | 0.00  | 0.00 |
| J6NUD7   | <b>0.23</b> | 0.57  |      | <b>0.17</b> | 1.59   |      | <b>0.17</b> | 4.84  |      |
|  |             | 0.01  | 0.00 |             | 0.01   | 0.00 |             | 0.06  | 0.00 |
| KBNT2Z   | <b>0.22</b> | 0.48  | 1.24 | <b>0.15</b> | -0.21  | 3.25 | <b>0.11</b> | 0.14  | 1.34 |
|  |             | 0.01  | 0.01 |             | 0.00   | 0.01 |             | 0.00  | 0.00 |
| <b>Grand Median</b>  |             | 0.22  |      | 0.15        |        |      | 0.11        |       |      |
| <b>Median Abs Dev</b>  |             | 0.00  |      | 0.00        |        |      | 0.00        |       |      |
| <b>Avg Within Lab SD</b>   |             | 0.00  |      | 0.00        |        |      | 0.00        |       |      |
| <b>Labs Included</b>   |             | 16    |      | 16          |        |      | 16          |       |      |
| <b>Labs Reporting</b>  |             | 16    |      | 16          |        |      | 16          |       |      |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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: mmol/L |
|--------------------------|--------------------------------|-------|------|-------------|-------|------|-------------|-------|------|--------------------|
|                          | SRWSRW1601                     |       |      | SRWSRW1602  |       |      | SRWSRW1603  |       |      |                    |
| <b>AAUKBK</b>            | <b>0.49</b>                    | 0.05  | 0.51 | <b>0.34</b> | -0.08 | 0.12 | <b>0.54</b> | 0.10  | 0.25 |                    |
|                          |                                | 0.00  | 0.01 |             | -0.01 | 0.01 |             | 0.01  | 0.01 |                    |
| <b>83L8FJ</b>            | <b>0.47</b>                    | -0.14 | 0.22 | <b>0.33</b> | -0.16 | 0.24 | <b>0.53</b> | -0.04 | 0.68 |                    |
|                          |                                | -0.01 | 0.01 |             | -0.01 | 0.01 |             | 0.00  | 0.02 |                    |
| <b>2GK3BP</b>            | <b>0.46</b>                    | -0.28 | 0.84 | <b>0.35</b> | 0.08  | 0.36 | <b>0.50</b> | -0.39 | 1.15 |                    |
|                          |                                | -0.02 | 0.02 |             | 0.01  | 0.02 |             | -0.04 | 0.03 |                    |
| <b>WGX7VT</b>            | <b>0.54</b>                    | 0.73  | 1.06 | <b>0.39</b> | 0.54  | 0.94 | <b>0.57</b> | 0.39  | 1.32 |                    |
|                          |                                | 0.06  | 0.03 |             | 0.05  | 0.04 |             | 0.03  | 0.04 |                    |
| <b>QECBRZ</b>            | <b>0.47</b>                    | -0.20 | 2.43 | <b>0.37</b> | 0.23  | 1.35 | <b>0.50</b> | -0.36 |      |                    |
|                          |                                | -0.02 | 0.06 |             | 0.02  | 0.06 |             | -0.03 | 0.00 |                    |
| <b>RMZ998</b>            | <b>0.50</b>                    | 0.15  | 1.31 | <b>0.37</b> | 0.27  | 0.59 | <b>0.54</b> | 0.04  | 0.89 |                    |
|                          |                                | 0.01  | 0.03 |             | 0.02  | 0.03 |             | 0.00  | 0.02 |                    |
| <b>BMDAYP</b>            | <b>0.21</b>                    | -3.26 | 0.46 | <b>0.15</b> | -2.24 | 0.34 | <b>0.24</b> | -3.20 | 0.50 |                    |
|                          |                                | -0.27 | 0.01 |             | -0.19 | 0.01 |             | -0.29 | 0.01 |                    |
| <b>TNQUE3</b>            | <b>0.55</b>                    | 0.81  | 0.00 | <b>0.37</b> | 0.23  | 0.13 | <b>0.57</b> | 0.42  | 0.00 |                    |
|                          |                                | 0.07  | 0.00 |             | 0.02  | 0.01 |             | 0.04  | 0.00 |                    |
| <b>CPEWRJ</b>            | <b>0.59</b>                    | 1.24  | 1.47 | <b>0.57</b> | 2.61  | 3.19 | <b>0.65</b> | 1.29  | 2.88 |                    |
|                          |                                | 0.10  | 0.03 |             | 0.23  | 0.14 |             | 0.12  | 0.08 |                    |
| <b>XHNEVW</b>            | <b>0.49</b>                    | 0.09  | 0.04 | <b>0.33</b> | -0.16 | 0.00 | <b>0.52</b> | -0.13 | 0.01 |                    |
|                          |                                | 0.01  | 0.00 |             | -0.01 | 0.00 |             | -0.01 | 0.00 |                    |
| <b>4JGF2L</b>            | <b>0.48</b>                    | -0.05 | 0.51 | <b>0.31</b> | -0.37 | 0.06 | <b>0.55</b> | 0.21  | 0.44 |                    |
|                          |                                | 0.00  | 0.01 |             | -0.03 | 0.00 |             | 0.02  | 0.01 |                    |
| <b>MZGWVZ</b>            | <b>0.35</b>                    | -1.65 | 0.64 | <b>0.19</b> | -1.84 | 0.13 | <b>0.37</b> | -1.81 | 0.38 |                    |
|                          |                                | -0.14 | 0.02 |             | -0.16 | 0.01 |             | -0.16 | 0.01 |                    |
| <b>ZZZ3WM</b>            | <b>0.51</b>                    | 0.29  | 0.05 | <b>0.36</b> | 0.13  | 0.02 | <b>0.55</b> | 0.18  | 0.16 |                    |
|                          |                                | 0.02  | 0.00 |             | 0.01  | 0.00 |             | 0.02  | 0.00 |                    |
| <b>PHEWWY</b>            | <b>0.44</b>                    | -0.51 | 1.09 | <b>0.30</b> | -0.50 | 0.63 | <b>0.45</b> | -0.89 | 0.84 |                    |
|                          |                                | -0.04 | 0.03 |             | -0.04 | 0.03 |             | -0.08 | 0.02 |                    |
| <b>J6NUD7</b>            | <b>4.54</b>                    | 49.07 |      | <b>3.26</b> | 33.53 |      | <b>5.97</b> | 60.60 |      |                    |
|                          |                                | 4.05  | 0.00 |             | 2.91  | 0.00 |             | 5.44  | 0.00 |                    |
| <b>Grand Median</b>      |                                | 0.48  |      |             | 0.35  |      |             | 0.53  |      |                    |
| <b>Median Abs Dev</b>    |                                | 0.02  |      |             | 0.02  |      |             | 0.03  |      |                    |
| <b>Avg Within Lab SD</b> |                                | 0.02  |      |             | 0.04  |      |             | 0.03  |      |                    |
| <b>Labs Included</b>     |                                | 14    |      |             | 14    |      |             | 14    |      |                    |
| <b>Labs Reporting</b>    |                                | 14    |      |             | 14    |      |             | 14    |      |                    |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 |
|--------------------------|--------------------------------|-------|------|-------------|-------|------|-------------|-------|------|---------------------|
|                          | SRWSRW1601                     |       |      | SRWSRW1602  |       |      | SRWSRW1603  |       |      |                     |
| <b>AAUKBK</b>            | <b>0.19</b>                    | 0.13  | 0.41 | <b>0.67</b> | 0.18  | 0.32 | <b>0.17</b> | 0.13  | 0.43 |                     |
|                          |                                | 0.01  | 0.01 |             | 0.02  | 0.01 |             | 0.01  | 0.00 |                     |
| <b>83L8FJ</b>            | <b>0.21</b>                    | 0.60  | 0.53 | <b>0.72</b> | 0.74  | 0.07 | <b>0.20</b> | 0.78  | 0.29 |                     |
|                          |                                | 0.02  | 0.01 |             | 0.07  | 0.00 |             | 0.04  | 0.00 |                     |
| <b>2GK3BP</b>            | <b>0.18</b>                    | -0.17 | 0.74 | <b>0.60</b> | -0.61 | 0.00 | <b>0.16</b> | -0.15 | 0.56 |                     |
|                          |                                | -0.01 | 0.01 |             | -0.05 | 0.00 |             | -0.01 | 0.01 |                     |
| <b>WGX7VT</b>            | <b>0.19</b>                    | 0.18  | 1.54 | <b>0.72</b> | 0.76  | 0.99 | <b>0.18</b> | 0.44  | 2.01 |                     |
|                          |                                | 0.01  | 0.02 |             | 0.07  | 0.03 |             | 0.02  | 0.02 |                     |
| <b>QECBRZ</b>            | <b>0.20</b>                    | 0.36  | 0.00 | <b>0.63</b> | -0.23 | 1.90 | <b>0.20</b> | 0.81  | 0.00 |                     |
|                          |                                | 0.01  | 0.00 |             | -0.02 | 0.06 |             | 0.04  | 0.00 |                     |
| <b>RMZ998</b>            | <b>0.19</b>                    | 0.00  | 3.06 | <b>0.64</b> | -0.16 | 2.45 | <b>0.18</b> | 0.27  | 2.80 |                     |
|                          |                                | 0.00  | 0.04 |             | -0.01 | 0.07 |             | 0.01  | 0.03 |                     |
| <b>BMDAYP</b>            | <b>0.09</b>                    | -2.55 | 0.09 | <b>0.33</b> | -3.68 | 0.08 | <b>0.08</b> | -1.83 | 0.33 |                     |
|                          |                                | -0.10 | 0.00 |             | -0.32 | 0.00 |             | -0.08 | 0.00 |                     |
| <b>TNQUE3</b>            | <b>0.19</b>                    | 0.10  | 0.00 | <b>0.67</b> | 0.23  | 0.19 | <b>0.16</b> | 0.00  | 0.56 |                     |
|                          |                                | 0.00  | 0.00 |             | 0.02  | 0.01 |             | 0.00  | 0.01 |                     |
| <b>CPEWRJ</b>            | <b>0.20</b>                    | 0.37  | 0.09 | <b>0.71</b> | 0.69  | 0.22 | <b>0.17</b> | 0.14  | 0.05 |                     |
|                          |                                | 0.01  | 0.00 |             | 0.06  | 0.01 |             | 0.01  | 0.00 |                     |
| <b>XHNEVW</b>            | <b>0.18</b>                    | -0.27 | 0.02 | <b>0.64</b> | -0.17 | 0.04 | <b>0.15</b> | -0.34 | 0.03 |                     |
|                          |                                | -0.01 | 0.00 |             | -0.01 | 0.00 |             | -0.02 | 0.00 |                     |
| <b>4JGF2L</b>            | <b>0.14</b>                    | -1.24 | 0.16 | <b>0.53</b> | -1.40 | 0.09 | <b>0.12</b> | -0.90 | 0.19 |                     |
|                          |                                | -0.05 | 0.00 |             | -0.12 | 0.00 |             | -0.04 | 0.00 |                     |
| <b>MZGWVZ</b>            | <b>0.09</b>                    | -2.63 | 0.43 | <b>0.66</b> | 0.08  | 0.33 | <b>0.04</b> | -2.65 | 0.26 |                     |
|                          |                                | -0.10 | 0.01 |             | 0.01  | 0.01 |             | -0.12 | 0.00 |                     |
| <b>ZZZ3WM</b>            | <b>0.18</b>                    | -0.18 | 0.17 | <b>0.65</b> | -0.08 | 0.19 | <b>0.15</b> | -0.33 | 0.06 |                     |
|                          |                                | -0.01 | 0.00 |             | -0.01 | 0.01 |             | -0.02 | 0.00 |                     |
| <b>PHEWWY</b>            |                                |       |      | <b>0.69</b> | 0.44  | 1.74 |             |       |      |                     |
|                          |                                |       |      |             | 0.04  | 0.05 |             |       |      |                     |
| <b>J6NUD7</b>            | <b>1.78</b>                    | 42.05 |      | <b>6.21</b> | 63.46 |      | <b>1.49</b> | 29.18 |      |                     |
|                          |                                | 1.59  | 0.00 |             | 5.56  | 0.00 |             | 1.33  | 0.00 |                     |
| <b>Grand Median</b>      |                                | 0.19  |      |             | 0.65  |      |             | 0.16  |      |                     |
| <b>Median Abs Dev</b>    |                                | 0.01  |      |             | 0.03  |      |             | 0.02  |      |                     |
| <b>Avg Within Lab SD</b> |                                | 0.01  |      |             | 0.03  |      |             | 0.01  |      |                     |
| <b>Labs Included</b>     |                                | 13    |      |             | 14    |      |             | 13    |      |                     |
| <b>Labs Reporting</b>    |                                | 13    |      |             | 14    |      |             | 13    |      |                     |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 |
|--------------------------|--------------------------------|-------|------|------------|-------|------|------------|-------|------|---------------------|
|                          | SRWSRW1601                     |       |      | SRWSRW1602 |       |      | SRWSRW1603 |       |      |                     |
| AAUKBK                   | 1.25                           | -0.01 | 0.57 | 0.33       | -0.04 | 0.35 | 0.33       | -0.01 | 0.22 |                     |
|                          |                                | -0.01 | 0.03 |            | -0.01 | 0.01 |            | 0.00  | 0.00 |                     |
| 83L8FJ                   | 1.35                           | 0.07  | 0.15 | 0.38       | 0.10  | 0.49 | 0.35       | 0.04  | 0.37 |                     |
|                          |                                | 0.09  | 0.01 |            | 0.03  | 0.01 |            | 0.01  | 0.01 |                     |
| 2GK3BP                   | 1.21                           | -0.04 | 0.10 | 0.34       | 0.00  | 2.79 | 0.29       | -0.13 | 1.94 |                     |
|                          |                                | -0.05 | 0.01 |            | 0.00  | 0.05 |            | -0.04 | 0.03 |                     |
| WGX7VT                   | 1.27                           | 0.01  | 0.51 | 0.35       | 0.01  | 1.78 | 0.35       | 0.04  | 2.96 |                     |
|                          |                                | 0.01  | 0.03 |            | 0.00  | 0.03 |            | 0.01  | 0.04 |                     |
| QECBRZ                   | 1.37                           | 0.09  | 0.97 | 0.40       | 0.17  | 0.00 | 0.30       | -0.10 | 0.00 |                     |
|                          |                                | 0.11  | 0.06 |            | 0.06  | 0.00 |            | -0.03 | 0.00 |                     |
| RMZ998                   | 1.22                           | -0.03 | 0.48 | 0.34       | 0.00  | 0.53 | 0.35       | 0.04  | 0.81 |                     |
|                          |                                | -0.04 | 0.03 |            | 0.00  | 0.01 |            | 0.01  | 0.01 |                     |
| BMDAYP                   | 1.24                           | -0.01 | 0.61 | 0.34       | -0.02 | 0.61 | 0.34       | 0.01  | 0.88 |                     |
|                          |                                | -0.02 | 0.04 |            | -0.01 | 0.01 |            | 0.00  | 0.01 |                     |
| TNQUE3                   | 1.28                           | 0.02  | 0.00 | 0.35       | 0.02  | 0.00 | 0.34       | 0.01  | 0.42 |                     |
|                          |                                | 0.02  | 0.00 |            | 0.01  | 0.00 |            | 0.00  | 0.01 |                     |
| CPEWRJ                   | 1.27                           | 0.01  | 0.06 | 0.36       | 0.03  | 0.74 | 0.32       | -0.03 | 0.68 |                     |
|                          |                                | 0.02  | 0.00 |            | 0.01  | 0.01 |            | -0.01 | 0.01 |                     |
| XHNEVW                   | 1.24                           | -0.01 | 0.12 | 0.33       | -0.06 | 0.14 | 0.32       | -0.05 | 0.09 |                     |
|                          |                                | -0.02 | 0.01 |            | -0.02 | 0.00 |            | -0.02 | 0.00 |                     |
| 4JGF2L                   | 1.10                           | -0.13 | 0.19 | 0.33       | -0.03 | 0.78 | 0.40       | 0.20  | 0.07 |                     |
|                          |                                | -0.16 | 0.01 |            | -0.01 | 0.01 |            | 0.06  | 0.00 |                     |
| MZGWVZ                   | 1.01                           | -0.21 | 0.10 | 0.30       | -0.14 | 0.62 | 0.28       | -0.16 | 0.73 |                     |
|                          |                                | -0.25 | 0.01 |            | -0.04 | 0.01 |            | -0.05 | 0.01 |                     |
| ZZZ3WM                   | 1.19                           | -0.05 | 0.69 | 0.32       | -0.08 | 0.06 | 0.31       | -0.08 | 0.18 |                     |
|                          |                                | -0.06 | 0.04 |            | -0.03 | 0.00 |            | -0.03 | 0.00 |                     |
| PHEWWY                   | 1.34                           | 0.07  | 0.86 | 0.36       | 0.05  | 1.56 | 0.34       | 0.03  | 0.73 |                     |
|                          |                                | 0.09  | 0.05 |            | 0.01  | 0.03 |            | 0.01  | 0.01 |                     |
| XYFCWR                   | 26.07                          | 20.34 | 2.94 | 7.27       | 21.34 | 2.44 | 6.88       | 19.98 | 4.35 |                     |
|                          |                                | 24.82 | 0.18 |            | 6.92  | 0.04 |            | 6.55  | 0.06 |                     |
| J6NUD7                   | 13.28                          | 9.85  |      | 3.60       | 10.04 |      | 3.56       | 9.85  |      |                     |
|                          |                                | 12.02 | 0.00 |            | 3.26  | 0.00 |            | 3.23  | 0.00 |                     |
| KBNT2Z                   | 1.46                           | 0.17  | 3.54 | 0.35       | 0.00  | 0.18 | 0.33       | -0.01 | 0.38 |                     |
|                          |                                | 0.21  | 0.21 |            | 0.00  | 0.00 |            | 0.00  | 0.01 |                     |
| <b>Grand Median</b>      |                                | 1.26  |      | 0.34       |       |      | 0.33       |       |      |                     |
| <b>Median Abs Dev</b>    |                                | 0.06  |      | 0.01       |       |      | 0.01       |       |      |                     |
| <b>Avg Within Lab SD</b> |                                | 0.06  |      | 0.02       |       |      | 0.01       |       |      |                     |
| <b>Labs Included</b>     |                                | 16    |      | 16         |       |      | 16         |       |      |                     |
| <b>Labs Reporting</b>    |                                | 16    |      | 16         |       |      | 16         |       |      |                     |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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: mmolc/L |
|--------------------------|--------------------------------|--------|------|------------|--------|-------|------------|--------|-------|---------------------|
|                          | SRWSRW1601                     |        |      | SRWSRW1602 |        |       | SRWSRW1603 |        |       |                     |
| AAUKBK                   | 0.07                           | -0.09  | 0.48 | 0.25       | 0.05   | 0.49  | 0.02       | -0.25  | 0.45  |                     |
|                          |                                | 0.00   | 0.00 |            | 0.00   | 0.00  |            | 0.00   | 0.00  |                     |
| 83L8FJ                   | 0.07                           | 0.29   | 0.37 | 0.27       | 0.46   | 0.58  | 0.02       | 0.34   | 0.85  |                     |
|                          |                                | 0.00   | 0.00 |            | 0.03   | 0.00  |            | 0.00   | 0.00  |                     |
| 2GK3BP                   | 0.07                           | 0.26   | 2.32 | 0.24       | -0.05  | 1.85  | 0.03       | 0.73   | 2.27  |                     |
|                          |                                | 0.00   | 0.01 |            | 0.00   | 0.02  |            | 0.01   | 0.01  |                     |
| RMZ998                   | 0.06                           | -0.25  | 2.25 | 0.25       | 0.00   | 1.29  | 0.02       | -0.79  | 2.03  |                     |
|                          |                                | 0.00   | 0.01 |            | 0.00   | 0.01  |            | -0.01  | 0.01  |                     |
| BMDAYP                   | 0.06                           | -0.31  | 0.65 | 0.23       | -0.31  | 1.35  | 0.02       | 0.16   | 0.32  |                     |
|                          |                                | 0.00   | 0.00 |            | -0.02  | 0.01  |            | 0.00   | 0.00  |                     |
| TNQUE3                   | 0.07                           | 0.26   | 0.00 | 0.25       | 0.06   |       | 0.02       | -0.16  | 0.00  |                     |
|                          |                                | 0.00   | 0.00 |            | 0.00   | 0.00  |            | 0.00   | 0.00  |                     |
| CPEWRJ                   | 0.09                           | 1.59   | 0.07 | 0.29       | 0.73   | 0.39  | 0.02       | 0.43   | 0.06  |                     |
|                          |                                | 0.02   | 0.00 |            | 0.04   | 0.00  |            | 0.00   | 0.00  |                     |
| XHNEVW                   | 0.06                           | -0.26  | 0.02 | 0.24       | -0.16  | 0.16  | 0.02       | -0.17  | 0.07  |                     |
|                          |                                | 0.00   | 0.00 |            | -0.01  | 0.00  |            | 0.00   | 0.00  |                     |
| 4JGF2L                   | 0.05                           | -1.13  | 0.34 | 0.20       | -0.79  | 0.26  | 0.01       | -0.91  | 0.19  |                     |
|                          |                                | -0.02  | 0.00 |            | -0.05  | 0.00  |            | -0.01  | 0.00  |                     |
| MZGWVZ                   | 0.08                           | 0.62   | 1.16 | 0.16       | -1.40  | 1.21  | 0.03       | 1.49   | 1.27  |                     |
|                          |                                | 0.01   | 0.01 |            | -0.09  | 0.01  |            | 0.01   | 0.00  |                     |
| ZZZ3WM                   | 0.06                           | -0.48  | 0.23 | 0.22       | -0.40  | 0.28  | 0.02       | -0.39  | 0.23  |                     |
|                          |                                | -0.01  | 0.00 |            | -0.02  | 0.00  |            | 0.00   | 0.00  |                     |
| PHEWWY                   | 0.07                           | 0.00   | 0.19 | 0.26       | 0.25   | 1.93  |            |        |       |                     |
|                          |                                | 0.00   | 0.00 |            | 0.02   | 0.02  |            |        |       |                     |
| XYFCWR                   | 2.57                           | 183.50 | 3.63 | 9.15       | 144.33 | 11.09 | 0.91       | 120.05 | 19.42 |                     |
|                          |                                | 2.51   | 0.02 |            | 8.91   | 0.09  |            | 0.89   | 0.05  |                     |
| J6NUD7                   | 0.67                           | 44.16  |      | 2.53       | 37.01  |       | 2.04       | 271.27 |       |                     |
|                          |                                | 0.60   | 0.00 |            | 2.28   | 0.00  |            | 2.02   | 0.00  |                     |
| KBNT2Z                   | 0.11                           | 3.26   | 0.40 | 0.50       | 4.11   |       | 0.04       | 2.26   | 0.00  |                     |
|                          |                                | 0.04   | 0.00 |            | 0.25   | 0.00  |            | 0.02   | 0.00  |                     |
| <b>Grand Median</b>      |                                | 0.067  |      | 0.25       |        |       |            | 0.021  |       |                     |
| <b>Median Abs Dev</b>    |                                | 0.004  |      | 0.02       |        |       |            | 0.003  |       |                     |
| <b>Avg Within Lab SD</b> |                                | 0.004  |      | 0.01       |        |       |            | 0.003  |       |                     |
| <b>Labs Included</b>     |                                | 13     |      | 13         |        |       |            | 12     |       |                     |
| <b>Labs Reporting</b>    |                                | 13     |      | 13         |        |       |            | 12     |       |                     |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 |
|--------------------------|--------------------------------|-------|--------------|-------|--------------|-------|---------------------|
|                          | SRWSRW1601                     |       | SRWSRW1602   |       | SRWSRW1603   |       |                     |
| <b>83L8FJ</b>            | <b>0.002</b>                   | 1.414 | <b>0.001</b> | 0.788 | <b>0.002</b> | 0.945 |                     |
|                          |                                | 0.001 |              | 0.001 |              | 0.001 |                     |
| <b>RMZ998</b>            | <b>0.001</b>                   | 0.000 | <b>0.001</b> | 1.174 | <b>0.002</b> | 1.052 |                     |
|                          |                                | 0.000 |              | 0.001 |              | 0.001 |                     |
| <b>Grand Median</b>      | 0.002                          |       | 0.001        |       | 0.002        |       |                     |
| <b>Median Abs Dev</b>    |                                |       |              |       |              |       |                     |
| <b>Avg Within Lab SD</b> | 0.001                          |       | 0.001        |       | 0.001        |       |                     |
| <b>Labs Included</b>     | 2                              |       | 2            |       | 2            |       |                     |
| <b>Labs Reporting</b>    | 2                              |       | 2            |       | 2            |       |                     |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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: mmol/L |
|-------------------------------|--------------------------------|-------|------|-------------|-------|------|-------------|-------|------|--------------------|
|                               | SRWSRW1601                     |       |      | SRWSRW1602  |       |      | SRWSRW1603  |       |      |                    |
| <b>AAUKBK</b>                 | <b>1.99</b>                    | 0.00  | 1.18 | <b>1.59</b> | -0.07 | 0.44 | <b>1.06</b> | -0.10 | 0.35 |                    |
|                               |                                | 0.00  | 0.05 |             | -0.01 | 0.02 |             | -0.01 | 0.01 |                    |
| <b>83L8FJ</b>                 | <b>2.10</b>                    | 0.53  | 0.43 | <b>1.71</b> | 0.82  | 0.25 | <b>1.10</b> | 0.21  | 0.87 |                    |
|                               |                                | 0.11  | 0.02 |             | 0.11  | 0.01 |             | 0.03  | 0.02 |                    |
| <b>RMZ998</b>                 | <b>1.97</b>                    | -0.12 | 1.83 | <b>1.60</b> | 0.00  | 2.16 | <b>1.07</b> | 0.00  | 1.98 |                    |
|                               |                                | -0.03 | 0.08 |             | 0.00  | 0.12 |             | 0.00  | 0.06 |                    |
| <b>TNQUE3</b>                 | <b>2.08</b>                    | 0.44  | 0.13 | <b>1.63</b> | 0.26  | 0.11 | <b>1.10</b> | 0.18  | 0.40 |                    |
|                               |                                | 0.09  | 0.01 |             | 0.03  | 0.01 |             | 0.02  | 0.01 |                    |
| <b>MZGWVZ</b>                 | <b>1.51</b>                    | -2.29 | 0.22 | <b>1.31</b> | -2.23 | 0.28 | <b>0.70</b> | -2.88 | 0.20 |                    |
|                               |                                | -0.48 | 0.01 |             | -0.29 | 0.02 |             | -0.37 | 0.01 |                    |
| <b>Grand Median</b>           |                                | 1.99  |      | 1.60        |       |      | 1.07        |       |      |                    |
| <b>Median Abs Dev</b>         |                                | 0.09  |      | 0.03        |       |      | 0.02        |       |      |                    |
| <b>Avg Within Lab SD</b>      |                                | 0.05  |      | 0.05        |       |      | 0.03        |       |      |                    |
| <b>Labs Included</b>          |                                | 5     |      | 5           |       |      | 5           |       |      |                    |
| <b>Labs Reporting</b>         |                                | 5     |      | 5           |       |      | 5           |       |      |                    |





## ALP Program - Participant Web Summary Report - Cycle 29

| 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: |
|--------------------------|--------------------------------|-------|------|-------------|-------|------|-------------|-------|------|-------------|
|                          | SRWSRW1601                     |       |      | SRWSRW1602  |       |      | SRWSRW1603  |       |      |             |
| <b>AAUKBK</b>            | <b>2.14</b>                    | 0.25  | 0.84 | <b>0.47</b> | 0.19  | 0.20 | <b>0.56</b> | 0.82  | 0.23 |             |
|                          |                                | 0.05  | 0.03 |             | 0.01  | 0.01 |             | 0.04  | 0.00 |             |
| <b>QECBRZ</b>            | <b>2.40</b>                    | 1.46  | 0.00 | <b>0.57</b> | 2.18  | 2.10 | <b>0.50</b> | -0.29 |      |             |
|                          |                                | 0.31  | 0.00 |             | 0.11  | 0.06 |             | -0.01 | 0.00 |             |
| <b>BMDAYP</b>            | <b>2.24</b>                    | 0.73  | 0.81 | <b>0.49</b> | 0.55  | 0.21 | <b>0.59</b> | 1.53  | 0.85 |             |
|                          |                                | 0.15  | 0.03 |             | 0.03  | 0.01 |             | 0.08  | 0.01 |             |
| <b>CPEWRJ</b>            | <b>2.03</b>                    | -0.28 | 1.24 | <b>0.44</b> | -0.32 | 1.23 | <b>0.51</b> | -0.14 | 2.25 |             |
|                          |                                | -0.06 | 0.05 |             | -0.02 | 0.03 |             | -0.01 | 0.03 |             |
| <b>MZGWVZ</b>            | <b>0.47</b>                    | -7.60 | 0.15 | <b>0.19</b> | -5.57 | 0.21 | <b>0.12</b> | -8.03 | 0.49 |             |
|                          |                                | -1.62 | 0.01 |             | -0.27 | 0.01 |             | -0.40 | 0.01 |             |
| <b>ZZZ3WM</b>            | <b>2.04</b>                    | -0.25 | 1.76 | <b>0.45</b> | -0.19 | 0.08 | <b>0.52</b> | 0.14  | 0.39 |             |
|                          |                                | -0.05 | 0.07 |             | -0.01 | 0.00 |             | 0.01  | 0.00 |             |
| <b>J6NUD7</b>            | <b>2.32</b>                    | 1.09  |      | <b>0.49</b> | 0.62  |      | <b>0.57</b> | 1.13  |      |             |
|                          |                                | 0.23  | 0.00 |             | 0.03  | 0.00 |             | 0.06  | 0.00 |             |
| <b>Grand Median</b>      |                                | 2.09  |      |             | 0.46  |      |             | 0.51  |      |             |
| <b>Median Abs Dev</b>    |                                | 0.11  |      |             | 0.02  |      |             | 0.03  |      |             |
| <b>Avg Within Lab SD</b> |                                | 0.04  |      |             | 0.03  |      |             | 0.01  |      |             |
| <b>Labs Included</b>     |                                | 6     |      |             | 6     |      |             | 6     |      |             |
| <b>Labs Reporting</b>    |                                | 6     |      |             | 6     |      |             | 6     |      |             |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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: |
|---------------------------|--------------------------------|------|-------------|------|-------------|------|-------------|
|                           | SRWSRW1601                     |      | SRWSRW1602  |      | SRWSRW1603  |      |             |
| <b>QECBRZ</b>             | <b>1.37</b>                    | 1.41 | <b>0.43</b> | 1.41 | <b>0.30</b> | 0.00 |             |
|                           |                                | 0.12 |             | 0.06 |             | 0.00 |             |
| <b>MZGWVZ</b>             | <b>0.83</b>                    | 0.07 | <b>0.23</b> | 0.14 | <b>0.23</b> | 1.41 |             |
|                           |                                | 0.01 |             | 0.01 |             | 0.01 |             |
| <b>Grand Median</b>       | 1.10                           |      | 0.33        |      | 0.26        |      |             |
| <b>Median Abs Dev</b>     |                                |      |             |      |             |      |             |
| <b>Avg Within Lab SD</b>  | 0.08                           |      | 0.04        |      | 0.00        |      |             |
| <b>Labs Included</b>      | 2                              |      | 2           |      | 2           |      |             |
| <b>Labs Reporting</b>     | 2                              |      | 2           |      | 2           |      |             |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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: mmolc/L |
|--------------------------|-------------------------------|-------|------|-------------|-------|------|-------------|-------|------|---------------------|
|                          | SRWSRW1601                    |       |      | SRWSRW1602  |       |      | SRWSRW1603  |       |      |                     |
| <b>AAUKBK</b>            | <b>0.80</b>                   | 0.00  | 0.00 | <b>1.30</b> | 0.65  | 0.00 | <b>0.80</b> | 0.00  | 0.00 |                     |
|                          |                               | 0.00  | 0.00 |             | 0.10  | 0.00 |             | 0.00  | 0.00 |                     |
| <b>83L8FJ</b>            | <b>0.98</b>                   | 0.97  | 0.08 | <b>1.33</b> | 0.85  | 0.05 | <b>0.87</b> | 0.47  | 0.03 |                     |
|                          |                               | 0.18  | 0.01 |             | 0.13  | 0.00 |             | 0.07  | 0.00 |                     |
| <b>2GK3BP</b>            | <b>0.78</b>                   | -0.09 | 0.25 | <b>1.24</b> | 0.22  | 0.80 | <b>0.72</b> | -0.54 | 0.07 |                     |
|                          |                               | -0.02 | 0.02 |             | 0.03  | 0.08 |             | -0.08 | 0.01 |                     |
| <b>QECBRZ</b>            | <b>0.53</b>                   | -1.44 | 2.78 | <b>1.13</b> | -0.49 | 2.47 | <b>0.53</b> | -1.88 | 2.91 |                     |
|                          |                               | -0.27 | 0.23 |             | -0.07 | 0.23 |             | -0.27 | 0.23 |                     |
| <b>RMZ998</b>            | <b>0.76</b>                   | -0.20 | 0.48 | <b>1.17</b> | -0.22 | 0.84 | <b>0.71</b> | -0.62 | 0.37 |                     |
|                          |                               | -0.04 | 0.04 |             | -0.03 | 0.08 |             | -0.09 | 0.03 |                     |
| <b>BMDAYP</b>            | <b>0.84</b>                   | 0.19  | 0.00 | <b>1.39</b> | 1.28  | 0.00 | <b>0.84</b> | 0.25  | 0.00 |                     |
|                          |                               | 0.04  | 0.00 |             | 0.19  | 0.00 |             | 0.04  | 0.00 |                     |
| <b>TNQUE3</b>            | <b>0.89</b>                   | 0.47  | 0.97 | <b>1.29</b> | 0.58  | 0.37 | <b>0.82</b> | 0.14  | 0.44 |                     |
|                          |                               | 0.09  | 0.08 |             | 0.09  | 0.03 |             | 0.02  | 0.03 |                     |
| <b>MZGWVZ</b>            | <b>0.37</b>                   | -2.32 | 0.12 | <b>1.04</b> | -1.12 | 0.65 | <b>0.50</b> | -2.09 | 0.07 |                     |
|                          |                               | -0.43 | 0.01 |             | -0.17 | 0.06 |             | -0.30 | 0.01 |                     |
| <b>PHEWWY</b>            | <b>0.87</b>                   | 0.39  | 0.11 |             |       |      | <b>0.81</b> | 0.07  | 0.44 |                     |
|                          |                               | 0.07  | 0.01 |             |       |      |             | 0.01  | 0.03 |                     |
| <b>J6NUD7</b>            | <b>2.01</b>                   | 6.53  |      | <b>0.33</b> | -5.96 |      | <b>2.12</b> | 9.32  |      |                     |
|                          |                               | 1.21  | 0.00 |             | -0.88 | 0.00 |             | 1.32  | 0.00 |                     |
| <b>Grand Median</b>      |                               | 0.80  |      |             | 1.21  |      |             | 0.80  |      |                     |
| <b>Median Abs Dev</b>    |                               | 0.07  |      |             | 0.09  |      |             | 0.07  |      |                     |
| <b>Avg Within Lab SD</b> |                               | 0.08  |      |             | 0.09  |      |             | 0.08  |      |                     |
| <b>Labs Included</b>     |                               | 9     |      |             | 8     |      |             | 9     |      |                     |
| <b>Labs Reporting</b>    |                               | 9     |      |             | 8     |      |             | 9     |      |                     |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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>CO3 (SubTestCode 312)</b> | <b>in the Anions Property Groups</b> |             |            |            |             |             | <b>Data units: mmolc/L</b> |
|------------------------------|--------------------------------------|-------------|------------|------------|-------------|-------------|----------------------------|
|                              | SRWSRW1601                           | SRWSRW1602  | SRWSRW1602 | SRWSRW1603 | SRWSRW1603  | SRWSRW1603  |                            |
| <b>AAUKBK</b>                |                                      | <b>0.10</b> | 0.22       | 0.00       |             |             |                            |
|                              |                                      |             | 0.01       | 0.00       |             |             |                            |
| <b>83L8FJ</b>                |                                      | <b>0.09</b> | 0.01       | 0.41       |             |             |                            |
|                              |                                      |             | 0.00       | 0.01       |             |             |                            |
| <b>2GK3BP</b>                |                                      | <b>0.09</b> | -0.01      |            |             |             |                            |
|                              |                                      |             | 0.00       | 0.00       |             |             |                            |
| <b>QECBRZ</b>                |                                      | <b>0.20</b> | 2.57       | 0.00       |             |             |                            |
|                              |                                      |             | 0.11       | 0.00       |             |             |                            |
| <b>RMZ998</b>                | <b>0.00</b>                          |             | -0.51      | 2.42       | <b>0.00</b> | <b>1.00</b> |                            |
|                              |                                      | 1.00        | -0.02      | 0.04       |             | 0.00        |                            |
|                              |                                      | 0.00        | -0.72      |            |             |             |                            |
| <b>J6NUD7</b>                |                                      | <b>0.06</b> | -0.03      | 0.00       |             |             |                            |
| <b>Grand Median</b>          | 0.002                                |             | 0.09       |            | 0.002       |             |                            |
| <b>Median Abs Dev</b>        |                                      |             | 0.02       |            |             |             |                            |
| <b>Avg Within Lab SD</b>     | 0.000                                |             | 0.02       |            | 0.000       |             |                            |
| <b>Labs Included</b>         | 1                                    |             | 6          |            | 1           |             |                            |
| <b>Labs Reporting</b>        | 1                                    |             | 6          |            | 1           |             |                            |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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: mmolc/L |
|--------------------------|-------------------------------|--------|-------|--------------|--------|-------|--------------|--------|-------|---------------------|
|                          | SRWSRW1601                    |        |       | SRWSRW1602   |        |       | SRWSRW1603   |        |       |                     |
| AAUKBK                   | <b>0.889</b>                  | 0.062  | 0.000 | <b>0.048</b> | -0.092 | 0.000 | <b>0.226</b> | 0.000  | 0.000 |                     |
|                          |                               | 0.051  | 0.000 |              | -0.012 | 0.000 |              | 0.000  | 0.000 |                     |
| 83L8FJ                   | <b>0.849</b>                  | 0.013  | 0.113 | <b>0.016</b> | -0.350 | 0.040 | <b>0.115</b> | -0.548 | 0.116 |                     |
|                          |                               | 0.011  | 0.003 |              | -0.044 | 0.001 |              | -0.111 | 0.002 |                     |
| 2GK3BP                   | <b>0.757</b>                  | -0.099 | 1.211 | <b>0.130</b> | 0.562  | 2.052 | <b>0.227</b> | 0.003  | 2.191 |                     |
|                          |                               | -0.081 | 0.031 |              | 0.070  | 0.026 |              | 0.001  | 0.035 |                     |
| WGX7VT                   | <b>0.730</b>                  | -0.131 | 2.599 | <b>0.180</b> | 0.960  | 2.052 | <b>0.233</b> | 0.036  | 0.360 |                     |
|                          |                               | -0.108 | 0.066 |              | 0.120  | 0.026 |              | 0.007  | 0.006 |                     |
| QECBRZ                   | <b>0.863</b>                  | 0.031  | 0.606 | <b>0.060</b> | 0.003  | 1.343 | <b>0.227</b> | 0.003  | 2.597 |                     |
|                          |                               | 0.025  | 0.015 |              | 0.000  | 0.017 |              | 0.001  | 0.042 |                     |
| RMZ998                   | <b>0.869</b>                  | 0.037  | 1.744 | <b>0.059</b> | -0.003 | 1.137 | <b>0.195</b> | -0.155 | 0.288 |                     |
|                          |                               | 0.031  | 0.044 |              | 0.000  | 0.015 |              | -0.031 | 0.005 |                     |
| BMDAYP                   | <b>0.827</b>                  | -0.013 | 1.291 | <b>0.028</b> | -0.250 | 0.000 | <b>0.132</b> | -0.466 | 1.016 |                     |
|                          |                               | -0.011 | 0.033 |              | -0.031 | 0.000 |              | -0.094 | 0.016 |                     |
| TNQUE3                   | <b>0.827</b>                  | -0.014 | 0.229 | <b>0.023</b> | -0.289 | 0.448 | <b>0.200</b> | -0.128 | 0.000 |                     |
|                          |                               | -0.011 | 0.006 |              | -0.036 | 0.006 |              | -0.026 | 0.000 |                     |
| CPEWRJ                   | <b>0.913</b>                  | 0.092  | 0.736 | <b>0.069</b> | 0.078  | 0.284 | <b>0.245</b> | 0.091  | 0.195 |                     |
|                          |                               | 0.075  | 0.019 |              | 0.010  | 0.004 |              | 0.019  | 0.003 |                     |
| XHNEVW                   | <b>0.809</b>                  | -0.035 | 0.191 |              |        |       | <b>0.154</b> | -0.354 | 0.166 |                     |
|                          |                               | -0.029 | 0.005 |              |        |       |              | -0.072 | 0.003 |                     |
| 4JGF2L                   | <b>1.128</b>                  | 0.353  | 0.000 |              |        |       |              |        |       |                     |
|                          |                               | 0.290  | 0.000 |              |        |       |              |        |       |                     |
| MZGWVZ                   | <b>0.827</b>                  | -0.014 | 0.229 | <b>0.023</b> | -0.289 | 0.448 | <b>0.183</b> | -0.211 | 0.360 |                     |
|                          |                               | -0.011 | 0.006 |              | -0.036 | 0.006 |              | -0.043 | 0.006 |                     |
| ZZZ3WM                   | <b>29.920</b>                 | 35.389 |       | <b>1.210</b> | 9.176  |       | <b>6.014</b> | 28.566 |       |                     |
|                          |                               | 29.082 | 0.000 |              | 1.150  | 0.000 |              | 5.788  | 0.000 |                     |
| PHEWWY                   | <b>0.415</b>                  | -0.515 | 0.065 | <b>0.383</b> | 2.580  | 0.019 | <b>0.374</b> | 0.732  | 0.004 |                     |
|                          |                               | -0.423 | 0.002 |              | 0.323  | 0.000 |              | 0.148  | 0.000 |                     |
| J6NUD7                   | <b>7.440</b>                  | 8.034  |       | <b>0.390</b> | 2.636  |       | <b>1.450</b> | 6.041  |       |                     |
|                          |                               | 6.602  | 0.000 |              | 0.330  | 0.000 |              | 1.224  | 0.000 |                     |
| <b>Grand Median</b>      |                               | 0.84   |       |              | 0.060  |       |              | 0.23   |       |                     |
| <b>Median Abs Dev</b>    |                               | 0.04   |       |              | 0.036  |       |              | 0.03   |       |                     |
| <b>Avg Within Lab SD</b> |                               | 0.03   |       |              | 0.013  |       |              | 0.02   |       |                     |
| <b>Labs Included</b>     |                               | 14     |       |              | 12     |       |              | 13     |       |                     |
| <b>Labs Reporting</b>    |                               | 14     |       |              | 12     |       |              | 13     |       |                     |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 |
|--------------------------|------------|--------|-------------------------------|-------|--------|------------|-------|--------|---------------------|
|                          | SRWSRW1601 |        | SRWSRW1602                    |       |        | SRWSRW1603 |       |        |                     |
| AAUKBK                   | 0.061      | 0.034  | 0.134                         | 0.025 | 0.093  | 0.155      | 0.002 | -0.160 | 0.117               |
|                          |            | 0.003  | 0.001                         |       | 0.004  | 0.001      |       | -0.005 | 0.001               |
| 83L8FJ                   | 0.052      | -0.057 | 0.333                         | 0.020 | -0.042 | 0.064      | 0.001 | -0.209 | 0.000               |
|                          |            | -0.006 | 0.002                         |       | -0.002 | 0.000      |       | -0.007 | 0.000               |
| 2GK3BP                   | 0.100      | 0.436  | 3.557                         | 0.043 | 0.565  | 3.587      | 0.023 | 0.479  | 3.108               |
|                          |            | 0.042  | 0.026                         |       | 0.022  | 0.023      |       | 0.016  | 0.015               |
| WGX7VT                   | 0.010      | -0.491 | 0.000                         | 0.003 | -0.474 | 0.155      |       |        |                     |
|                          |            | -0.048 | 0.000                         |       | -0.018 | 0.001      |       |        |                     |
| QECBRZ                   | 0.060      | 0.024  | 0.000                         | 0.017 | -0.122 | 0.897      |       |        |                     |
|                          |            | 0.002  | 0.000                         |       | -0.005 | 0.006      |       |        |                     |
| RMZ998                   | 0.079      | 0.216  | 0.000                         | 0.021 | 0.000  | 0.000      | 0.007 | -0.015 | 0.000               |
|                          |            | 0.021  | 0.000                         |       | 0.000  | 0.000      |       | 0.000  | 0.000               |
| BMDAYP                   | 0.008      | -0.509 | 0.050                         | 0.008 | -0.343 | 0.000      | 0.008 | 0.015  | 0.000               |
|                          |            | -0.049 | 0.000                         |       | -0.013 | 0.000      |       | 0.000  | 0.000               |
| TNQUE3                   | 0.054      | -0.041 | 0.543                         | 0.019 | -0.053 | 0.647      |       |        |                     |
|                          |            | -0.004 | 0.004                         |       | -0.002 | 0.004      |       |        |                     |
| CPEWRJ                   | 0.015      | -0.445 | 0.000                         | 0.011 | -0.274 | 0.145      | 0.004 | -0.116 | 0.189               |
|                          |            | -0.043 | 0.000                         |       | -0.011 | 0.001      |       | -0.004 | 0.001               |
| XHNEVW                   | 0.056      | -0.019 | 0.024                         | 0.023 | 0.039  | 0.091      |       |        |                     |
|                          |            | -0.002 | 0.000                         |       | 0.002  | 0.001      |       |        |                     |
| 4JGF2L                   | 0.060      | 0.025  | 0.160                         | 0.022 | 0.016  | 0.098      |       |        |                     |
|                          |            | 0.002  | 0.001                         |       | 0.001  | 0.001      |       |        |                     |
| MZGWVZ                   | 0.080      | 0.230  | 1.345                         | 0.046 | 0.642  | 0.855      | 0.032 | 0.733  | 0.311               |
|                          |            | 0.022  | 0.010                         |       | 0.025  | 0.006      |       | 0.024  | 0.002               |
| 8FPFBG                   | 0.733      | 6.965  | 7.763                         | 0.333 | 8.029  | 8.967      | 0.233 | 6.869  | 11.747              |
|                          |            | 0.676  | 0.058                         |       | 0.312  | 0.058      |       | 0.226  | 0.058               |
| ZZZ3WM                   | 0.749      | 7.129  | 0.280                         | 0.290 | 6.905  | 0.179      | 0.038 | 0.911  | 0.265               |
|                          |            | 0.692  | 0.002                         |       | 0.268  | 0.001      |       | 0.030  | 0.001               |
| XYFCWR                   | 0.058      | 0.000  | 0.078                         | 0.026 | 0.127  | 0.237      | 0.136 | 3.907  | 0.352               |
|                          |            | 0.000  | 0.001                         |       | 0.005  | 0.002      |       | 0.128  | 0.002               |
| J6NUD7                   | 0.013      | -0.460 |                               | 0.005 | -0.422 |            | 0.001 | -0.200 |                     |
|                          |            | -0.045 | 0.000                         |       | -0.016 | 0.000      |       | -0.007 | 0.000               |
| <b>Grand Median</b>      |            | 0.058  |                               |       | 0.021  |            |       | 0.008  |                     |
| <b>Median Abs Dev</b>    |            | 0.021  |                               |       | 0.005  |            |       | 0.007  |                     |
| <b>Avg Within Lab SD</b> |            | 0.007  |                               |       | 0.006  |            |       | 0.005  |                     |
| <b>Labs Included</b>     |            | 15     |                               |       | 15     |            |       | 10     |                     |
| <b>Labs Reporting</b>    |            | 15     |                               |       | 15     |            |       | 10     |                     |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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) <span style="float: right;">Data units: mmol/L</span> |              |       |      |              |       |      |             |       |      |
|---|--------------|-------|------|--------------|-------|------|-------------|-------|------|
|   | SRWSRW1601   |       |      | SRWSRW1602   |       |      | SRWSRW1603  |       |      |
| <b>AAUKBK</b>   | <b>0.27</b>  | 0.00  | 0.05 | <b>0.19</b>  | -0.01 | 0.02 | <b>0.08</b> | -0.03 | 0.03 |
|   |              | -0.01 | 0.01 |              | -0.01 | 0.00 |             | -0.01 | 0.00 |
| <b>83L8FJ</b>   | <b>0.26</b>  | -0.01 | 0.01 | <b>0.19</b>  | -0.01 | 0.02 | <b>0.09</b> | 0.00  | 0.02 |
|   |              | -0.01 | 0.00 |              | -0.01 | 0.00 |             | 0.00  | 0.00 |
| <b>2GK3BP</b>   | <b>0.36</b>  | 0.07  | 0.37 | <b>0.40</b>  | 0.21  | 2.03 | <b>0.11</b> | 0.06  | 0.35 |
|   |              | 0.09  | 0.07 |              | 0.20  | 0.25 |             | 0.02  | 0.03 |
| <b>WGX7VT</b>   | <b>0.23</b>  | -0.04 | 0.20 | <b>0.19</b>  | 0.00  | 0.25 | <b>0.09</b> | 0.00  | 0.65 |
|   |              | -0.05 | 0.04 |              | 0.00  | 0.03 |             | 0.00  | 0.05 |
| <b>QECBRZ</b>   | <b>0.27</b>  | 0.00  | 0.03 | <b>0.19</b>  | 0.00  | 0.05 | <b>0.08</b> | -0.02 | 0.00 |
|   |              | 0.00  | 0.01 |              | 0.00  | 0.01 |             | -0.01 | 0.00 |
| <b>RMZ998</b>   | <b>0.30</b>  | 0.02  | 0.07 | <b>0.21</b>  | 0.02  | 0.03 | <b>0.09</b> | 0.01  | 0.00 |
|   |              | 0.03  | 0.01 |              | 0.02  | 0.00 |             | 0.00  | 0.00 |
| <b>BMDAYP</b>   | <b>0.04</b>  | -0.17 | 0.00 | <b>0.03</b>  | -0.17 | 0.01 | <b>0.01</b> | -0.19 | 0.02 |
|   |              | -0.23 | 0.00 |              | -0.16 | 0.00 |             | -0.08 | 0.00 |
| <b>TNQUE3</b>   | <b>0.29</b>  | 0.01  | 0.00 | <b>0.20</b>  | 0.01  | 0.00 | <b>0.09</b> | 0.00  | 0.00 |
|   |              | 0.02  | 0.00 |              | 0.01  | 0.00 |             | 0.00  | 0.00 |
| <b>MZGWVZ</b>   | <b>0.05</b>  | -0.17 | 0.05 | <b>0.02</b>  | -0.18 | 0.08 |             |       |      |
|   |              | -0.22 | 0.01 |              | -0.17 | 0.01 |             |       |      |
| <b>PHEWWY</b>   | <b>0.28</b>  | 0.00  | 0.07 | <b>0.20</b>  | 0.00  | 0.10 |             |       |      |
|   |              | 0.00  | 0.01 |              | 0.00  | 0.01 |             |       |      |
| <b>XYFCWR</b>   | <b>9.37</b>  | 6.92  | 3.29 | <b>6.84</b>  | 6.82  | 2.61 | <b>2.40</b> | 5.75  | 2.91 |
|   |              | 9.10  | 0.62 |              | 6.64  | 0.32 |             | 2.31  | 0.21 |
| <b>J6NUD7</b>   | <b>14.56</b> | 10.87 |      | <b>10.67</b> | 10.75 |      | <b>4.86</b> | 11.88 |      |
|   |              | 14.29 | 0.00 |              | 10.48 | 0.00 |             | 4.77  | 0.00 |
| <b>Grand Median</b>   |              | 0.27  |      |              | 0.19  |      |             | 0.09  |      |
| <b>Median Abs Dev</b>   |              | 0.03  |      |              | 0.01  |      |             | 0.01  |      |
| <b>Avg Within Lab SD</b>  |              | 0.19  |      |              | 0.12  |      |             | 0.07  |      |
| <b>Labs Included</b>  |              | 11    |      |              | 11    |      |             | 9     |      |
| <b>Labs Reporting</b>   |              | 11    |      |              | 11    |      |             | 9     |      |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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: mmol/L |
|------------------------------|-------------------------------|-------|------|-------------|-------|------|-------------|-------|------|--------------------|
|                              | SRWSRW1601                    |       |      | SRWSRW1602  |       |      | SRWSRW1603  |       |      |                    |
| <b>AAUKBK</b>                | <b>2.02</b>                   | 0.00  | 0.09 | <b>1.66</b> | 0.70  | 0.02 | <b>1.11</b> | 0.36  | 0.02 |                    |
|                              |                               | 0.00  | 0.01 |             | 0.09  | 0.00 |             | 0.06  | 0.00 |                    |
| <b>83L8FJ</b>                | <b>2.15</b>                   | 0.55  | 0.10 | <b>1.64</b> | 0.57  | 0.02 | <b>1.07</b> | 0.17  | 0.03 |                    |
|                              |                               | 0.13  | 0.01 |             | 0.07  | 0.00 |             | 0.03  | 0.00 |                    |
| <b>QECBRZ</b>                | <b>1.73</b>                   | -1.23 | 2.24 | <b>1.60</b> | 0.26  | 2.21 | <b>0.84</b> | -1.12 | 2.41 |                    |
|                              |                               | -0.29 | 0.23 |             | 0.03  | 0.26 |             | -0.20 | 0.25 |                    |
| <b>RMZ998</b>                | <b>2.02</b>                   | 0.00  | 0.48 | <b>1.54</b> | -0.26 | 1.00 | <b>1.01</b> | -0.17 | 0.28 |                    |
|                              |                               | 0.00  | 0.05 |             | -0.03 | 0.12 |             | -0.03 | 0.03 |                    |
| <b>TNQUE3</b>                | <b>2.05</b>                   | 0.16  | 0.83 | <b>1.54</b> | -0.26 | 0.33 | <b>1.11</b> | 0.38  | 0.34 |                    |
|                              |                               | 0.04  | 0.08 |             | -0.03 | 0.04 |             | 0.07  | 0.03 |                    |
| <b>MZGWVZ</b>                | <b>1.53</b>                   | -2.11 | 0.21 | <b>1.32</b> | -1.99 | 0.13 | <b>0.71</b> | -1.83 | 0.06 |                    |
|                              |                               | -0.49 | 0.02 |             | -0.25 | 0.02 |             | -0.33 | 0.01 |                    |
| <b>Grand Median</b>          |                               | 2.02  |      |             | 1.57  |      |             | 1.04  |      |                    |
| <b>Median Abs Dev</b>        |                               | 0.08  |      |             | 0.05  |      |             | 0.07  |      |                    |
| <b>Avg Within Lab SD</b>     |                               | 0.10  |      |             | 0.12  |      |             | 0.10  |      |                    |
| <b>Labs Included</b>         |                               | 6     |      |             | 6     |      |             | 6     |      |                    |
| <b>Labs Reporting</b>        |                               | 6     |      |             | 6     |      |             | 6     |      |                    |





## ALP Program - Participant Web Summary Report - Cycle 29

|             |                    |         |             |                    |         |             |                    |         |
|-------------|--------------------|---------|-------------|--------------------|---------|-------------|--------------------|---------|
| 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: |
|--------------------------|---|--------|-------|---|--------|-------|---------------|--------|-------|-------------|
|                          | SRWSRW1601                                |        |       | SRWSRW1602                                    |        |       | SRWSRW1603    |        |       |             |
| <b>AAUKBK</b>            | <b>-0.027</b>                             | 0.000  | 0.820 | <b>-0.068</b>                                 | -1.434 | 0.331 | <b>-0.046</b> | -0.765 | 0.194 |             |
|                          |   | 0.000  | 0.046 |   | -0.131 | 0.022 |               | -0.073 | 0.010 |             |
| <b>83L8FJ</b>            | <b>-0.044</b>                             | -0.227 | 0.253 | <b>0.062</b>                                  | -0.009 | 0.231 | <b>0.027</b>  | 0.000  | 0.457 |             |
|                          |   | -0.017 | 0.014 |   | -0.001 | 0.015 |               | 0.000  | 0.023 |             |
| <b>RMZ998</b>            | <b>-0.051</b>                             | -0.318 | 0.847 | <b>0.063</b>                                  | 0.000  | 1.542 | <b>0.063</b>  | 0.376  | 0.567 |             |
|                          |   | -0.024 | 0.047 |   | 0.000  | 0.102 |               | 0.036  | 0.028 |             |
| <b>TNQUE3</b>            | <b>0.030</b>                              | 0.740  | 1.570 | <b>0.103</b>                                  | 0.437  | 0.435 | <b>-0.013</b> | -0.423 | 0.615 |             |
|                          |   | 0.057  | 0.087 |   | 0.040  | 0.029 |               | -0.040 | 0.031 |             |
| <b>MZGWVZ</b>            | <b>0.133</b>                              | 2.088  | 1.040 | <b>0.200</b>                                  | 1.492  | 1.507 | <b>0.200</b>  | 1.809  | 2.013 |             |
|                          |   | 0.160  | 0.058 |   | 0.137  | 0.100 |               | 0.173  | 0.100 |             |
| <b>Grand Median</b>      |   | -0.027 |       |   | 0.063  |       |               | 0.027  |       |             |
| <b>Median Abs Dev</b>    |   | 0.024  |       |   | 0.040  |       |               | 0.040  |       |             |
| <b>Avg Within Lab SD</b> |   | 0.056  |       |   | 0.066  |       |               | 0.050  |       |             |
| <b>Labs Included</b>     |   | 5      |       |   | 5      |       |               | 5      |       |             |
| <b>Labs Reporting</b>    |   | 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 |         |         |

| Boron (SubTestCode 318)  | in the Other Property Groups |        |       |              |        |       |               |        |       | Data units: mg/L |
|--------------------------|------------------------------|--------|-------|--------------|--------|-------|---------------|--------|-------|------------------|
|                          | SRWSRW1601                   |        |       | SRWSRW1602   |        |       | SRWSRW1603    |        |       |                  |
| <b>AAUKBK</b>            | <b>0.009</b>                 | -0.032 | 0.103 | <b>0.038</b> | 0.010  | 0.734 | <b>45.467</b> | -0.371 | 0.485 |                  |
|                          |                              | -0.001 | 0.001 |              | 0.000  | 0.006 |               | -1.777 | 0.473 |                  |
| <b>83L8FJ</b>            | <b>0.010</b>                 | 0.000  | 0.000 | <b>0.017</b> | -0.452 | 0.159 | <b>49.503</b> | 0.472  | 0.514 |                  |
|                          |                              | 0.000  | 0.000 |              | -0.020 | 0.001 |               | 2.260  | 0.501 |                  |
| <b>WGX7VT</b>            | <b>0.002</b>                 | -0.403 | 0.127 | <b>0.018</b> | -0.427 | 0.385 | <b>47.933</b> | 0.144  | 1.203 |                  |
|                          |                              | -0.009 | 0.001 |              | -0.019 | 0.003 |               | 0.690  | 1.172 |                  |
| <b>QECBRZ</b>            | <b>0.033</b>                 | 1.105  | 1.034 | <b>0.050</b> | 0.289  | 2.307 | <b>57.833</b> | 2.213  | 2.643 |                  |
|                          |                              | 0.023  | 0.006 |              | 0.013  | 0.017 |               | 10.590 | 2.574 |                  |
| <b>RMZ998</b>            | <b>0.010</b>                 | 0.000  | 0.000 | <b>0.020</b> | -0.390 | 1.332 | <b>38.533</b> | -1.820 | 1.039 |                  |
|                          |                              | 0.000  | 0.000 |              | -0.017 | 0.010 |               | -8.710 | 1.012 |                  |
| <b>BMDAYP</b>            | <b>0.010</b>                 | 0.000  | 0.000 | <b>0.010</b> | -0.616 | 0.000 | <b>45.367</b> | -0.392 | 0.790 |                  |
|                          |                              | 0.000  | 0.000 |              | -0.027 | 0.000 |               | -1.877 | 0.770 |                  |
| <b>TNQUE3</b>            | <b>0.010</b>                 | 0.000  | 0.000 | <b>0.040</b> | 0.063  | 0.000 | <b>47.243</b> | 0.000  | 0.268 |                  |
|                          |                              | 0.000  | 0.000 |              | 0.003  | 0.000 |               | 0.000  | 0.261 |                  |
| <b>XHNEVW</b>            |                              |        |       | <b>0.037</b> | -0.010 | 0.126 | <b>47.554</b> | 0.065  | 0.108 |                  |
|                          |                              |        |       |              | 0.000  | 0.001 |               | 0.311  | 0.105 |                  |
| <b>4JGF2L</b>            |                              |        |       |              |        |       | <b>52.051</b> | 1.005  | 0.000 |                  |
|                          |                              |        |       |              |        |       |               | 4.808  | 0.000 |                  |
| <b>PHEWWY</b>            | <b>0.101</b>                 | 4.294  | 2.811 | <b>0.083</b> | 1.030  | 1.475 | <b>43.495</b> | -0.783 | 0.529 |                  |
|                          |                              | 0.091  | 0.016 |              | 0.046  | 0.011 |               | -3.748 | 0.515 |                  |
| <b>J6NUD7</b>            | <b>0.005</b>                 | -0.237 |       | <b>0.190</b> | 3.457  |       | <b>46.510</b> | -0.153 |       |                  |
|                          |                              | -0.005 | 0.000 |              | 0.153  | 0.000 |               | -0.733 | 0.000 |                  |
| <b>Grand Median</b>      |                              | 0.010  |       |              | 0.037  |       |               | 47.2   |       |                  |
| <b>Median Abs Dev</b>    |                              | 0.001  |       |              | 0.018  |       |               | 1.9    |       |                  |
| <b>Avg Within Lab SD</b> |                              | 0.006  |       |              | 0.008  |       |               | 1.0    |       |                  |
| <b>Labs Included</b>     |                              | 9      |       |              | 10     |       |               | 11     |       |                  |
| <b>Labs Reporting</b>    |                              | 9      |       |              | 10     |       |               | 11     |       |                  |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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) |              |                            | in the Other Property Groups |              |                            |                         |              |                         | Data units: mg/L |
|---|--------------|----------------------------|------------------------------|--------------|----------------------------|-------------------------|--------------|-------------------------|------------------|
| SRWSRW1601                                |              |                            | SRWSRW1602                   |              |                            | SRWSRW1603              |              |                         |                  |
| <b>83L8FJ</b>                             | <b>0.007</b> | -0.168<br>-0.008<br>-0.112 | 0.059<br>0.002<br>0.005      | <b>0.003</b> | -0.420<br>-0.021<br>-0.273 | 0.174<br>0.002<br>0.014 | <b>0.003</b> | 0.203<br>0.001<br>0.010 |                  |
| <b>XHNEVW</b>                             | <b>0.009</b> | -0.005<br>2.306            | 0.000<br>1.998               | <b>0.011</b> | -0.014<br>1.731            | 0.000<br>1.956          | <b>0.009</b> | 0.000<br>1.720          |                  |
| <b>4JGF2L</b>                             | <b>0.125</b> | 0.110<br>0.112             | 0.052<br>0.077               | <b>0.113</b> | 0.088<br>0.273             | 0.018<br>0.381          | <b>0.047</b> | 0.010                   |                  |
| <b>XYFCWR</b>                             | <b>0.020</b> | 0.005                      | 0.002                        | <b>0.039</b> | 0.014                      | 0.004                   |              |                         |                  |
| <b>Grand Median</b>                       |              | 0.015                      |                              |              | 0.025                      |                         |              | 0.009                   |                  |
| <b>Median Abs Dev</b>                     |              | 0.007                      |                              |              | 0.018                      |                         |              |                         |                  |
| <b>Avg Within Lab SD</b>                  |              | 0.026                      |                              |              | 0.009                      |                         |              | 0.006                   |                  |
| <b>Labs Included</b>                      |              | 4                          |                              |              | 4                          |                         |              | 3                       |                  |
| <b>Labs Reporting</b>                     |              | 4                          |                              |              | 4                          |                         |              | 3                       |                  |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 |
|--|------------------------------|-------|--------------|-------|--------------|------------|------------------|
| SRWSRW1601                                 |                              |       | SRWSRW1602   |       |              | SRWSRW1603 |                  |
| <b>AAUKBK</b>                              | <b>0.008</b>                 | 1.000 | <b>0.003</b> | 1.000 | <b>0.001</b> | 1.000      |                  |
|  |                              | 0.002 |              | 0.002 |              | 0.000      |                  |
| <b>Grand Median</b>                        | 0.008                        |       | 0.003        |       | 0.001        |            |                  |
| <b>Median Abs Dev</b>                      |                              |       |              |       |              |            |                  |
| <b>Avg Within Lab SD</b>                   | 0.002                        |       | 0.002        |       | 0.000        |            |                  |
| <b>Labs Included</b>                       | 1                            |       | 1            |       | 1            |            |                  |
| <b>Labs Reporting</b>                      | 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 |
|--------------------|---------|---------|--------------------|---------|---------|--------------------|---------|---------|
| Difference W/L STD |         |         | Difference W/L STD |         |         | Difference W/L STD |         |         |

| Nitrogen Combustion (Total) (SubTestCode 322)<br>SRWSRW1601 | in the Other Property Groups |             |      | Data units: mg/L |
|---|------------------------------|-------------|------|------------------|
|   | SRWSRW1602                   | SRWSRW1603  |      |                  |
| <b>PHEWWY</b>   | <b>52.7</b>                  | <b>23.0</b> |      |                  |
|   | 0.0                          | 0.0         |      |                  |
| <b>Grand Median</b>   | 52.7                         | 23.0        |      |                  |
| <b>Median Abs Dev</b>                                       |                              |             |      |                  |
| <b>Avg Within Lab SD</b>                                    | 0.0                          | 0.0         | 0.00 |                  |
| <b>Labs Included</b>  | 1                            | 1           | 0    |                  |
| <b>Labs Reporting</b>                                       | 1                            | 1           | 0    |                  |



## ALP Program - Participant Web Summary Report - Cycle 29

| 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 |         |         |

| Total Organic Carbon (SubTestCode 323)<br>SRWSRW1601 | in the Other Property Groups |              | Data units: mg/L |
|--|------------------------------|--------------|------------------|
|  | SRWSRW1602                   | SRWSRW1603   |                  |
| <b>PHEWWY</b>  | <b>777.5</b>                 | <b>784.7</b> | <b>780.0</b>     |
|  | 0.0                          | 0.0          | 0.0              |
| <b>Grand Median</b>                                  | 777.5                        | 784.7        | 780.0            |
| <b>Median Abs Dev</b>                                |                              |              |                  |
| <b>Avg Within Lab SD</b>                             | 0.0                          | 0.0          | 0.0              |
| <b>Labs Included</b>                                 | 1                            | 1            | 1                |
| <b>Labs Reporting</b>                                | 1                            | 1            | 1                |