**FSPIKE RECOVERY AND DETERMINING A METHOD DETECTION LIMIT (P-Ascorbic Acid)**

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Course\_\_\_\_\_\_ Section\_\_\_\_\_\_Date\_\_\_\_\_\_\_\_\_\_\_\_\_

Concentration of Standard Phosphorus Solution (mg P/L) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Calibration Curve**

|  |  |  |
| --- | --- | --- |
|  | Concentration (µg P/L) | Average Absorbance |
| Standard 1 |  |  |
| Standard 2 |  |  |
| Standard 3 |  |  |
| Standard 4 |  |  |
| Standard 5 |  |  |
| Standard 6 |  |  |
| Equation from Excel:  |

**MDL**

|  |  |  |
| --- | --- | --- |
|  | Absorbance | Concentration (µg P/L) |
| Aliquot 1 |  |  |
| Aliquot 2 |  |  |
| Aliquot 3 |  |  |
| Aliquot 4 |  |  |
| Aliquot 5 |  |  |
| Aliquot 6 |  |  |
| Aliquot 7 |  |  |

Standard Deviation of Replicate Aliquots (µg P/L) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

MDL (µg P/L) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Spike Recovery**

Concentration increase from spike (µg P/L) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Measured P in lake water (µg P/L) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Measured P in spiked lake water (µg P/L) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

% Recovery \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_