

## Instructions for: **WS Cyanide (Cat # PT-CN-WS)**

### **STANDARD DESCRIPTION**

- The WS Cyanide standard is provided in a vial that contains approximately 21 mL of concentrate.
- The WS Cyanide standard is unpreserved.
- Store the standard in the unopened vial at room temperature (~ 20 - 25°C).
- Avoid exposure of the vial to direct sunlight.

### **ADDITIONAL INFORMATION**

- The standard has been provided as a concentrate that must be diluted prior to analysis.
- Per NELAC and EPA requirements, the WS Cyanide is manufactured using simple cyanide (e.g., free, dissociable, amenable to chlorination). If you need a cyanide standard that contains complex cyanide, order Wibby Environmental's WP Cyanide standard (catalog # PT-CN-WP).

### **STANDARD PREPARATION, ANALYSIS and STORAGE**

1. For best results, the PT standards should be stored at room temperature (~ 20 - 25°C).
2. Add approximately 900 mL of ASTM Type 1 water to a 1000 mL Class A volumetric flask.
3. Transfer exactly 10.0 mL of the PT standard concentrate to the flask using a Class A volumetric pipette.
4. Add sufficient NaOH as a preservative to bring the pH of the standard to a pH >12.
5. Bring the flask to volume with ASTM Type 1 water.
6. Mix the solution by inverting the volumetric flask a minimum of three times.
7. The standard is now ready for preparation and analysis per the selected method(s).
8. The sample should be analyzed as soon as possible after dilution,
9. Report all results in mg/L per the reporting instructions contained in this booklet.
10. Store the diluted standard and any remaining concentrate at room temperature (~ 20 - 25°C).

### **CONCENTRATION RANGE and PTRL**

- After preparation per these instructions, the standard will contain the analytes in the following table at a certified Concentration within the ranges shown.
- The NELAC Proficiency Testing Reporting Limit (PTRL) is provided as guidance when analyzing NELAC PT standards. At a minimum, the laboratory should use a method that is sensitive enough to generate quantitative results at the PTRL shown.

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## Water Supply Proficiency Testing Concentration Ranges and PTRLs

### Definitions:

#### **PTRL**

NELAC Proficiency Testing Reporting Limits (PTRLs) are provided as guidance to laboratories analyzing NELAC PT samples. At a minimum, the laboratory should use a method that is sensitive enough to generate quantitative results at the PTRLs shown. (REF: NELAC PT FOT Tables)

#### **NA**

Not Applicable (NA) has been applied to analytes where a PTRL is not applicable and to state specific analytes that have not had a PTRL determined by the applicable accrediting agency.

### Cyanide (PT-CN-WS)

NELAC Code	Analyte	Units	Concentration Range	PTRL
1635	Cyanide (simple)	mg/L	0.100 - 0.500	0.0750