

## FY 2014 NWPG Measure Definitions US-Mexico Border

Measure Code: MB-SP23



**Measure Language:** Loading of biochemical oxygen demand (BOD) removed (cumulative million pounds/year) from the U.S.–Mexico Border area since 2003.

**Type of Measure:** Target Measure, reported annually, with a cumulative 2012 target.

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### Measure Definition

**Terms and phrases:** The *U.S.–Mexico Border area* is the area within 100km of the U.S.–Mexico border, in the United States or Mexico.

The measure represents the amount of pollutant (Biochemical Oxygen Demand) from wastewater that is removed as a result of program investments in wastewater infrastructure. Biochemical Oxygen Demand (BOD) can be used as a gauge of the effectiveness of wastewater treatment plants. It is listed as a conventional pollutant in the US Clean Water Act.

**Methodology for computation of results:** The measure is calculated based on program estimates of flows from new sanitary sewer connections or wastewater treatment plant upgrades resulting from the completion of a Border Environment Infrastructure Fund (BEIF) funded project. Site-specific estimates of influent and effluent concentrations of BOD from the corresponding treatment plants are then multiplied by these flows to estimate the removal of BOD on mass-basis. Projected targets are based on program estimates of annual project completions.

**Units:** Millions of pounds per year.

**Universe:** The universe is defined as the biochemical oxygen demand (BOD – millions of pounds per year) released into the environment in 2003 resulting from known homes lacking wastewater treatment as well as wastewater treatment plants lacking adequate treatment.

**Baseline:** The baseline of 0 is referenced to FY 2003 when, in relation to the 2003 universe described above, 0 pounds of BOD had been removed as a result of program investments in wastewater infrastructure.

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Measure Code: MB-SP24.N11

**Measure Language:** Number of additional homes provided safe drinking water in the U.S.–Mexico Border area that lacked access to safe drinking water in 2003.

**Type of Measure:** Target measure; Reported annually with a cumulative 2012 target

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### Measure Definition

**Terms and phrases:** The U.S.–Mexico Border area is the area within 100km of the U.S.–Mexico border, in the United States and Mexico.

**Methodology for computation of results:** Measure results are calculated based on project completions that increase the number of households that are provided access to safe drinking water through first–time household connections or treatment improvements that address primary drinking water quality standards violations.

**Units:** "Connections" – the number of existing households that are provided access (i.e., connected) to safe drinking water as a result of Border Environment Infrastructure Fund (BEIF)–supported projects, and are based on projects completed in a given fiscal year.

**Universe:** The *known* universe is the number of existing homes in the U.S.–Mexico border area lacking access to safe drinking water in 2003 (98,515 homes). The known universe was calculated from U.S. Census and the Mexican National Water Commission (CONAGUA) sources.

**Baseline:** The baseline of 0 is referenced to FY 2003, when 0 of the 98,515 homes representing the known universe of homes lacking access to safe drinking water in 2003 had received access to safe drinking water as a result of project completions.



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Measure Code: MB-SP25.N11

**Measure Language:** Number of additional homes provided adequate wastewater sanitation in the U.S.–Mexico Border area that lacked access to wastewater sanitation in 2003.

**Type of Measure:** Target measure; Reported annually with a cumulative 2012 target

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#### **Measure Definition**

**Terms and phrases:** The U.S.–Mexico Border area is the area within 100km of the U.S.–Mexico border, in the United States and Mexico.

**Methodology for computation of results:** Measure results are calculated based on project completions that increase the number of existing households that are provided access to adequate wastewater sanitation service through first–time household wastewater connections as a result of wastewater projects completed by the program.

**Units:** "Connections" – the number of existing households that are provided access (i.e., connected) to adequate wastewater sanitation as a result of Border Environment Infrastructure Fund (BEIF)–supported projects, and are based on projects completed in a given fiscal year.

**Universe:** The *known* universe is the number of existing homes in the U.S.–Mexico border area lacking access to adequate wastewater sanitation services in 2003 (690,723). The known universe of unconnected homes was calculated from U.S. Census and the Mexican National Water Commission (CONAGUA) sources.

**Baseline:** The baseline of 0 is referenced to FY 2003, when 0 of the 690,723 homes representing the known universe of homes lacking access to adequate wastewater sanitation in 2003 had received access to adequate wastewater sanitation as a result of project completions.