PILGRIM'S PRIDE WWTP
PERFORMANCE AUDIT INSPECTION

On April 14, 2011, Bipin Adhyaru, Drew Brown and Malton Prifti, Florida Department of Environmental Protection, Jacksonville, Florida, conducted a Performance Audit Inspection (PAI) at the Pilgrim's Pride Wastewater Treatment Facility.

Personnel:

Mr. Greg Sanders	Water System Manager
Mr. Harold Davis	Plant Operator

Laboratory Review at the Facility:

The self-monitoring analyses conducted at the facility included: pH, total residual chlorine (TRC), low level chlorine after dechlorination and Dissolved Oxygen (DO). Advance Environmental Laboratory in Gainesville is the contract laboratory for the facility.

Equipment:

Total Residual Chlorine (TRC):

The facility uses the Hach pocket colorimeter for TRC measurement. The meter was in good working condition. The facility uses Hach Gel standards for the calibration checks. Hach Gel standards were expired in February 2011. Facility had another set of Gel standard with expiration date August 2012. Mr. Harold Davis performed calibration verification for pocket colorimeter and was acceptable. Calibration checks records are not maintained. Standards and reagents lot number and expiration date are not documented. Maintenance records were not maintained. Total Residual Chlorine measurement and documentation should be performed as required by Rule 62-160, FAC. DEP-SOP-001/01 FT 2000 Field Measurement of Residual Chlorine.

Low-level chlorine:

Low-level chlorine analysis was performed using Hach DR-5000 meter. Equipment calibration was not verified. Maintenance records were not maintained. Low-level Chlorine measurement and documentation should be performed as required by Rule 62-160, FAC. DEP-SOP-001/01 FT 2000 Field Measurement of Residual Chlorine.

pH:

The facility uses a Hach Sension 1 pH meter. The pH meter calibration was performed by Mr. Harold Davis with pH 7.00, 10.00 and 4.00 buffer standards. The calibration standards are current. Standards buffers lot number and expiration dates are not documented. Calibration verification was performed during inspection. pH 7.00 buffer standard was used for calibration verification. 7.00 pH buffer standard read 7.33 which were outside the acceptance criteria of ± 0.2 SU. Facility does not verify calibration verification for acceptance criteria. A calibration records are not maintained. Maintenance logbook was not maintained. pH calibration, measurement and documentation should be performed as required by Rule 62-160, FAC. DEP-SOP-001/01 FT 1100 Field Measurement of Hydrogen Ion Activity (pH)

Dissolved Oxygen (DO):

Facility uses YSI DO55 meter. The DO meter calibration was performed incorrectly. Calibration verification was not performed. A calibration logbook was not maintained. Maintenance records were not maintained. Maintenance records should be maintained as required by Rule 62-160, FAC. DEP-SOP-001/01 FT 1500 Field Measurement of Dissolved Oxygen.

Field and laboratory chemical methods should follow approved methods. The latest approved FDEP Chemistry Section Standard Operating Procedures (SOPs) and Quality Assurance and Quality Control (QAQC) procedures are available and can be viewed and downloaded from the FDEP website at http://www.dep.state.fl.us/water/sas/sop/sops.htm

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