

	GILES CHEMICAL		
	COMPANY POLICY / PROCEDURE		
	PH Probe Calibration for Sewer Probe (Asset Tag #10035)	Page : 1 of 5	Revision : 00 Date : 05/11/09
	Author: Robert Willis/Jody Conner	Job Specific	

Safety:

All safety glasses and appropriate safety apparel is to be worn at all times. This includes wearing the appropriate protection for working at heights above six feet.

Purpose:

To outline steps to calibrate the PH probe located in the waste line (Asset Tag #10035) at the rear of the plant near the water recovery system

Procedure:

This calibration procedure should be conducted during the morning and checked in the afternoon if a new probe was installed.

1. Equipment:

- 3 – 250 ml Plastic Beakers
- Calibration buffers pH 4, and 7
- Deionized water
- pH meter with electrode
- wipes or tissue

2. Set-up and procedure

- Pour buffers and water in the containers
- After removing the reservoir cover, remove the probe from the holder, clean with De-ionized water and wipe dry with tissue.



- Place in 4 buffer and observe the reading.



- Press the Calibrate button on the controller box.



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- e. "0000" should appear in the screen. The first 0 is blinking
- f. Press the up arrow to enter 1, then press horizontal arrow, the next 0 blinks, press the up arrow again and the readout should now show "1100", now press enter.
- g. Cal-1 appears on the screen. Since the probe is in pH 4 buffer already just press enter.
- h. The meter should read the buffer for pH and mv after completing the process the meter will show Cal-2



- i. Remove the probe from the pH 4 buffer solution, rinse with clean DI water, dry with a tissue, then place in pH 7 buffer.



- j. Press enter then reads the pH and mv. After completing the test, the slope will appear on the screen. 90% and above is acceptable. 85 to 89% must discuss with Technical. Below 85% troubleshoot the system and replace the probe.



- k. After successfully calibrating press enter two times.
- l. Observe the reading in the buffer solution.



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m. Remove probe from buffer solution and rinse with DI water.



- n. Insert the probe back in the holder and check pH reading against the pH paper.
- o. Conduct this calibration procedure at least monthly, or more frequently if needed.



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TRAINING DOCUMENTATION

	EMPLOYEE	TITLE	SIGNATURE	DATE
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