DATE & TIME: Tuesday, October 18, 2016 at 11:30 AM
PLACE: Tillman Water Reclamation Plant
6100 Woodley Ave, Van Nuys, CA
COST: None. Pizza will be provided by the Chapter!

PROGRAM:
DONALD C TILLMAN WATER RECLAMATION PLANT TOUR

Notice to attendees:
Please bring your hardhat (if you have one) and NO open-toed shoes.
Bring a friend and your questions; we’ll have the answers

SIGN-UP FOR TOUR, Contact: Kook Dean at (323) 342-6221 or via email at kkdean@san.lacity.org

This chapter meets on the 3rd Tuesday of the Month. Upcoming meeting dates are: November 15, December—NO MEETING. 2017: January 17, February 21
DONALD C. TILLMAN WATER RECLAMATION PLANT TOUR

SCHEDULE
Tuesday, October 18, 2016 from 11:30 a.m. to 1:00 pm.

BACKGROUND INFORMATION

Donald C. Tillman Water Reclamation Plant
The plant provides tertiary treatment of domestic and industrial wastewaters for most of the West San Fernando Valley population. Phase I of the Donald C. Tillman Water Reclamation Plant was constructed in 1985 at a cost of approximately $120 million. It has a design dry weather flow treatment capacity of 40 million gallons per day. In 1991, the plant’s treatment capacity was increased by the construction of an identical treatment module (Phase II), bringing the plant’s total design dry weather flow treatment capacity up to 80 million gallons per day.

Wastewater is pumped from two main sewers by eight large screw pumps. After removal of grit and screenings (mostly rags and paper), the wastewater is allowed to settle for about 2 hours, during which time floatable and non-floatable solids are removed. This is called primary treatment.

The wastewater then flows to aeration basins, where it is mixed with air and microorganisms under turbulent conditions. The microorganisms remove the dissolved organic matter in the wastewater in a process known as secondary treatment or activated sludge treatment. This process takes about 6 hours and effectively simulates the natural treatment of water by microbes in the hydrologic cycle.

The wastewater is then allowed to settle so that the microorganisms can be removed. Some of the removed microorganisms are returned as seed material for the activated sludge process. After settling, the wastewater is mixed with coagulants (chemicals that aid in the removal of very fine remaining particles) and then filtered through beds of sand and anthracite coal. At this point, the water is extremely clear but may have some residual bacterial particles remaining. For this reason, sodium hypochlorite (the chemical contained in household bleach) is added to the water and allowed to react for 2 hours. This last step in the treatment process (tertiary treatment) produces a water that is free of bacteria and viruses. Any unreacted bleach in the water is then removed. This product water may then be used for a variety of purposes, including landscape irrigation and aquatic wildlife habitat support. The plant’s adjoining Japanese Garden is irrigated 100% by product water.
WHAT YOU WILL SEE ON THE TOUR
First, you’ll tour the 6.5-acre Japanese Garden and adjoining Shoin Building (a faithful replica of a 14th-century Japanese warlord’s residence). Next, you’ll be given a quick visual overview of the Donald C. Tillman Water Reclamation Plant’s treatment facilities from the Administration Building’s Observation Tower (the Administration Building is recognizable as Star Fleet Academy from the Star Trek: Next Generation television series). This will be followed by a visit to an operating aeration basin and the underground pipe gallery. Next, you’ll see the operation of the filter facility. Hard hats (which will be provided) must be worn while visiting the latter two sites.

WHAT TO WEAR
You should wear comfortable, non-skid shoes like tennis or hiking shoes/boots. Dress appropriately for weather conditions as you will be outside for most of the tour.

HOW TO SIGN-UP FOR THE TOUR
To sign-up for the tour of the Donald C. Tillman Water Reclamation Plant, please contact Kook Dean, City of Los Angeles/Bureau of Sanitation, at (323) 342-6221/ kkdean@san.lacity.org

DIRECTIONS
From the San Diego Freeway (405 FWY), exit at Burbank Boulevard, and go west on Burbank Boulevard. Turn right on Woodley Avenue, then look for the small Japanese Garden sign and turn right. At the fork in the road, go to the left following the signs to the Tillman Water Reclamation Plant. Before entering the parking lot, inform the guard that you are scheduled for a plant tour, and he/she will direct you where to park and where to meet for the tour.