



SOUTH COAST WATER DISTRICT

Providing Quality Water and Wastewater Services to the Coastal Communities

LIFT STATION

SEMI-ANNUAL MAINTENANCE PROCEDURES

IMPORTANT NOTE: The proper confined space entry procedures must be followed and a C-5 form must be filled out before entering the air vac manhole. All necessary safety equipment must be in place and used correctly. Proper ventilation must be established and maintained and an observer must be present whenever a worker is in the manhole.

- 1) Check the packing and replace it if necessary with the grade recommended by the manufacturer. Be sure that the seal cages are centered at the entrance of the stuffing box piping connection.
- 2) If the packing is being replaced, check the shaft and shaft sleeve for scoring while the packing is out of the stuffing box. Scores on the shaft or sleeve can accelerate packing wear.
- 3) Replace the air-vac located in a manhole at the South East corner of the building with the rebuilt air-vac from the shelf in the lift station. Do not proceed without a C-5 form. Two people must be present, the worker that will enter the manhole and an attendant.
 - Write the location, date and time on the C-5 sheet.
 - Test the atmosphere of the manhole for oxygen (O₂), methane (CH₄), hydrogen sulfide (H₂S) and carbon monoxide (CO) and enter the readings on the C-5 form.
 - After you have established that it is safe to enter the manhole, remove the lid with a manhole cover remover or popper.
 - Set up the tripod. The entrant will wear a harness with lifeline and approved SCBA.
 - Lower the entrant into the manhole.
 - Take atmospheric readings in the manhole every 15 minutes.
 - Close the 2" gate valve below the air-vac to isolate it and release excess pressure in the air-vac.
 - Remove the air-vac using two 24" pipe wrenches, one for backup and the other for removal.
 - Install rebuilt air-vac and make sure all plumbing is in good working order. Replace worn pipe and fittings as necessary.