

<b>Project Name:</b>	<b>Oil/Water Separators &amp; Sewer Treatment System Operations and Maintenance</b>
<b>Project Location:</b>	<b>Southeast, West, and Mid-West US (including Biloxi)</b>
<b>Project Duration:</b>	<b>1995 - Present</b>
<b>Project Value:</b>	<b>\$800,000/year</b>
<b>Client Name:</b>	<b>Williams TravelCenters, Inc.</b>
<b>Client Contact:</b>	<b>Mr. Ken Whatley</b>
<b>Client Phone Number:</b>	<b>(615) 346-2820</b>
<b>Technology Used:</b>	<b>Separation and Aeration</b>

### **Project Description**

SEMS, Inc. is responsible for the Operation and Maintenance and permit compliance of over 56 oil/water separator systems and 7 sewer treatment plants in a 15 state area for Williams TravelCenters, Inc.

SEMS has extensive knowledge in maintaining their proper operation and ensuring good communication with regulatory agencies. Currently all sites are visited a minimum of once/month.

A site visit consists of recording/evaluating fluid levels within the system/plant, collecting field measurements for pH, temperature, and dissolved oxygen, collecting discharge samples according to permit requirements, and shipping/delivery to lab for analysis, checking for proper operation, performing repairs as needed, and communicating with facility personnel on system/plant issues.

Other items addressed during site visits are making sure facility maintenance personnel are using inside/outside cleaners and oil dry products, which are compatible with the systems/plants/permit requirements. SEMS has done extensive research on the concrete cleaners/degreasers and oil dry products currently in use at these facilities and are confident of their application, regarding effectiveness and discharge quality.

Empty drums are kept onsite for containing OWS sludge, which is removed from the drains during the cleaning process. Currently these drums are evacuated during each cleanout event to eliminate disposal costs. Drums (3 or 4) are kept onsite for containerizing small gas/diesel spills, which must be disposed of according to all local, state, and federal regulations.

An important part of proper OWS operation is maintaining a cleaning system including the OWS drains and drain lines. Currently all OWS systems including drains and drain lines are pumped/cleaned on a quarterly basis. All fluids are pumped out into a vacuum truck(s) and chemical flocculent is used to help separate solids from the water. Product and solids are retained in the truck, while the cleaned water is returned to the system for normal discharge. This process has been valuable in maintaining good discharge water quality while minimizing costs related to water handling.

The types of cleaners used in/around the OWS must be compatible with its operation and not contain any surfactants, caustics or other compounds, which could jeopardize discharge water quality. Another

important issue is to maintain clean/uncluttered drains, which is currently done by facility personnel. If drains are allowed to clog, potential spills could not be captured by the OWS as designed and possibly create a larger, more expensive surface release liability. Unclean drains also contribute to high solids levels and reduced separation retention times within the OWS.

This contract/program has continued and grown rapidly since 1995. It has met or exceeded all client expectations and has kept them in compliance with all regulatory requirements.