

Bryan W. Shaw, Ph.D., *Chairman*  
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## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

*Protecting Texas by Reducing and Preventing Pollution*

October 21, 2013

Mr. M.T. Garrett, Jr., P.E.  
M.T. Garrett & Associates, LLC  
14781 Memorial Drive #161  
Houston, TX 77079

Re: AWS-Package STP – Submerged Fixed Bed Biofilm  
Reactor System – 50,000 GPD  
Process Design Review  
Permit No. N/A  
WWPR Log No. 0913/032

Dear Mr. Garrett:

We have reviewed the referenced final engineering design report dated September 2013 and received on September 10, 2013. These documents propose the construction of a transportable wastewater treatment plant having an average flow capacity of 50,000 gallons per day ( $Q_{peak}=150,000$  gallons per day) with influent BOD of 300 mg/l, TSS of 300 mg/l and Ammonia of 60 mg/l designed to meet permit monthly average requirements of 10 mg/l CBOD, 15 mg/l TSS, and 3 mg/l ammonia-N.

The plant consists of the following process units: fine screening, flow equalization tank (20,000 gals with 2 @ 80 cfm blowers), influent pumps (2 at 75,000 gpd), blowers (3 @360 cfm @ 5 psi, one is standby), aerated fixed film unit BRT1 (Vol. =19,792 gal; Media = 64,800 sf), aerated fixed film unit BRT2 (Vol. = 19,792 gal; Media = 76,800 sf), final settling tank FST2 (Area =192 sf; Vol. = 8,818 gal), chlorination and contact tank (456 cf), sludge holding tank (360 cf).

Our review indicates that the submittal is generally in compliance with the applicable minimum standards as set forth in 30 TAC, Chapter §217, of the Texas Commission on Environmental Quality (TCEQ) rules titled, Design Criteria for Wastewater Systems and the process appears capable of treating to the effluent standards stated.

**Please note, that this conditional approval does not relieve the applicant of any responsibilities to obtain all other necessary permits or authorizations, such as wastewater treatment permit or other authorization as required by Chapter 26 of the Texas Water Code.**

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This approval does not mean that future projects will be approved without a complete plans and specifications review. The TCEQ will provide a notification of intent to review whenever a project is to undergo a complete plans and specifications review. Please be reminded of §217.7(a) of the rules which states, "Approval given by the executive director or other authorized review authority does not relieve an owner of any liability or responsibility with respect to designing, construction, or operation a collection system or treatment facility in accordance with applicable commission rules and the associated wastewater permit."

If you have any comments or questions, please contact me at (512) 239-0486, or email at [Michael.Hines@TCEQ.texas.gov](mailto:Michael.Hines@TCEQ.texas.gov).

Sincerely,



C. Michael Hines, P.E.  
Wastewater Permits Section (MC 148)  
Water Quality Division  
Texas Commission on Environmental Quality

CMH/cmh/evm