



FLORIDA DEPARTMENT OF Environmental Protection

South District
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Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Noah Valenstein
Secretary

September 9, 2020

In the Matter of an
Application for Permit by:

Desoto County Board of County Commissioners
Bert Warner, Director of Utilities
2170 NE Roan St
Arcadia, Florida 34266-5025
b.warner@desotobocc.com

Desoto County – Domestic Wastewater
File Number FLA530808-009-DW1P
Desoto County Regional WWTF
Conversion from MLE to Extended Aeration

NOTICE OF PERMIT REVISION

This notice revises Permit Number FLA530808 to modify and operate the facility process from a 0.750 MGD Modified Ludzack-Ettinger (MLE) process to a 0.750 MGD Extended Aeration process. The modifications consist of the following:

The WASTEWATER TREATMENT description on page one of the permit is revised to read:

Operation of an existing 0.750 MGD Annual Average Daily Flow (AADF) activated sludge domestic wastewater treatment facility, consisting of: a manual bar screen with a flow splitter box, two anoxic tanks with a total volume of 117,500 gallons, two aeration tanks with a total volume of 822,500 gallons, two clarifiers with a total volume of 225,591 gallons with 2,514 square feet of total surface area, two chlorine contact chambers with a total of 28,338 gallons, and two biosolids holding tanks with a total volume of 264,000 gallons. This facility will be operated to produce secondary treatment with sodium hypochlorite for disinfection.

MODIFICATION: The permittee is authorized to convert the existing facility to a Category III, extended aeration process. The modifications include:

- Convert the existing pre-anoxic tanks into additional aeration tanks by removing the mixers and installing required drop piping.
- Replace all existing diffusers and drop pipes.
- Perform corrosion removal and treatment with high performance coating on all steel tanks.
- Install a sodium hydroxide feed system in order to adjust the pH of the influent which will aid in odor control and reduce corrosion caused by hydrogen sulfide.

MODIFICATION: The permittee is authorized to construct and operate a new 2.0 MGD AADF activated sludge (3-stage process) domestic wastewater treatment facility consisting of: two mechanical bar screens, two grit chambers with dewatering and odor control, two parallel oxidation ditches each consisting of one anaerobic zone of 78,000 gallons for a total volume of 156,000 gallons, one anoxic zone of 197,000 gallons for a total volume of 394,000 gallons and one aeration zone of 816,000 for a total volume of 1.632 million gallons, two clarifiers with a total volume of 806,000 gallons with 6,636 square

feet of total surface area, three disk filters with 5,400 square feet of filter surface area, two parallel chlorine contact chambers with a total of 79,500 gallons, and two biosolids dewatering tanks with a total volume of 500,000 gallons. Two cartridge disk filters having a combined capacity of 1,400 gallons per minute will be constructed for the filtration of return water from the reject storage system. This facility will be operated to produce Part III public access reuse water with sodium hypochlorite for disinfection. The permitted flow will be limited to 0.950 MGD AADF pending the permitting of an additional reuse/disposal site.

No other condition of the permit will be revised. Please be aware that Section VI, Items 1 and 2 are applicable to the modifications outlined above. These modifications shall not be placed in service until DEP Form 62-620.910(12), Notification of Completion of Construction is submitted to the Department.

This letter must be attached to the referenced permit and becomes a permanent part thereof.

The permittee shall continue to monitor and report in accordance with previously effective permit requirements.

Any party to this order (permit) has the right to seek judicial review of the permit action under Section 120.68, Florida Statutes, by the filing of a notice of appeal under Rules 9.110 and 9.190, Florida Rules of Appellate Procedure, with the Clerk of the Department of Environmental Protection, Office of General Counsel, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice of appeal must be filed within 30 days from the date when this document is filed with the Clerk of the Department.

EXECUTION AND CLERKING

Executed in Ft. Myers, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION



Jon M. Iglehart
Director of District Management

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this document and all attachments were sent on the filing date below to the following listed persons:

Ed Castle, P.E., Weiler Engineering Corp., edcastle@me.com

FILING AND ACKNOWLEDGMENT

FILED, on this date, pursuant to Section 120.52, F. S., with the designated Department Clerk, receipt of which is hereby acknowledged.



Clerk

September 9, 2020

Date