



**City of New Port
Richey WWTP**

Memo

To: Robert Rivera, DPW Director

From: Roger Goodwin, WWTP/Reuse Manager

CC:

Date: 12/12/2018

Re: Surface Water Discharge Study Task Order 17

Robert,

Attached for your review is a proposal to implement the Plan of Study for Cross Bayou as required by our operating permit.

Background:

As you know our new operating permit allows the City to discharge treated water to the bayou during high flows caused by heavy rain storms. This gives the City a permitted disposal option to use when we are unable to pump to the County due to distribution and storage deficiencies in the County system.

The outfall essentially has unlimited capacity and does not require pumping the water. Water gravity feeds to the outfall pipe, no electricity needed. There are no pumping capacity limitations as you would have with deep well injection or rapid infiltration basins. Those systems would most certainly have been overwhelmed at times by storm water. At that point we would be forced to the bayou and it would be an unpermitted discharge. The permitted discharge is the best option.

DEP found that the infrequent discharges will not negatively impact the water quality in the bayou but they still required the City to submit a plan of study to determine what future nitrogen and phosphorous limits should be, based on the water quality of the bayou.

It's been our hope that due to the infrequency of the discharges and the huge dilution affect from rain storms we would get nitrogen and phosphorous limits that we can meet with our current process. If the new limits are too stringent for us to meet we will need to upgrade the

process. Any new permit limits would only apply to water being discharged to the bayou and would not be incorporated into the permit until the next permit renewal in 2022.

The attached Task Order from Mckim and Creed is for the implementation of the Bayou Study and consists mainly of testing the Bayou waters all the way out to the open gulf. The testing is expected to take 12 to 18 months to complete at which time a report will be submitted to DEP.

The total cost is \$158,710 and will run into next FY. The fixed cost is \$36,140 for project management and reports. The water testing cost is somewhat variable depending on the number of discharges. The estimated cost is \$122,570 and will run into next FY. Regular progress payments as work is completed will be made to McKim & Creed Engineers.

Recommendation:

Recommend approval of McKim and Creed Task Order 17. This is a planned and budgeted expense. Funds are available in 401-0111-535.34-38. Under the terms of our interlocal agreement Pasco County will be responsible for about 69% of the cost.