

# St. Charles Wetland Assimilation Monitoring Report

*August 2018*



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## *Summary of Activities: August 2018*

### Site visits

**August 24, 2018:** Comite Resources field staff Jason Day and Joel Mancuso traveled to the Luling assimilation wetland to conduct monthly monitoring. Dissolved oxygen, conductivity, temperature, salinity and pH were measured at the Treatment, Mid, Out, and Reference sites as well as the discharge Pipe (see data below). Leaf litter biomass and water levels were collected from each site (Treatment, Mid, Out & Reference).



*Joel Mancuso collecting leaf litter at the Treatment site on August 24, 2018.*

Dissolved Oxygen was highest at Pipe (2.9 mg/L) and much lower at the assimilation sites (0.2-0.5 mg/L), which were similar to the Reference site (0.3 mg/L). Conductivity ranged from 221.6 mS at the Reference site to 801.5 mS at the Mid site. Water temperature ranged from 26.4 °C at the Reference site to 29.8 °C at the discharge Pipe, with the difference due to shading. Salinity ranged from 0.1 at the Reference site to 0.4 PSU at the Treatment site. pH fluctuated from 7.1 at the discharge Pipe to 6.4 at the Out site, with all sites with exception of the discharge Pipe having a pH below 7.0. Water level was 41.7 cm at the Tmt site, 45.3 cm at the Mid site, 8.0 cm at the Out site, and 44.9 cm at the Reference site. All these parameters are within expected normal ranges and there are no issues of concern.

*Discrete water quality probe data from the Luling assimilation wetlands on August 24, 2018.*

Site	DO (mg/L)	Cond (mS)	Temp. (°C)	Sal (PSU)	pH	Water Level (cm)
Pipe	2.9	763.3	29.8	0.3	7.1	.
Tmt	0.3	791.3	28.2	0.4	6.9	41.7
Mid	0.5	801.5	27.1	0.4	6.6	45.3
Out	0.2	376.8	27.6	0.2	6.4	8.0
Ref	0.3	221.6	26.4	0.1	6.7	44.9



*Joel Mancuso collecting leaf litter at the Reference site on August 24, 2018.*