

Lake Jesup Priority Reaches - Total Phosphorus

Based on detailed water quality analysis conducted by Bob Kelly & Joe Walter, as presented at the August 8, 2007, Lake Jesup BMAP Meeting

Subbasin	Priority Reach		Primary Land Use in Priority Reach Area	Jurisdictions in Priority Reach Area	Key Hydrologic Features in Priority Reach	Possible Nutrient Sources – Need Further Investigation	Comments
	Upstream Station (Lower TP)	Downstream Station (Higher TP)					
Howell Creek	Howell Creek (Red Bug Lake Rd.)	Howell Creek (SR434)	Med Density Urban & Commercial	Seminole County & Winter Springs (direct to Howell) Seminole County, Winter Springs, & Oviedo (Bear Gully)	Bear Gully Creek confluence	Howell Cr. Reach - Stormwater (unincorporated Sem. Co, Winter Springs) - Wastewater infrastructure - Reuse areas Bear Gully - Ag area (sod farm) - Wastewater infrastructure - Stormwater (portions of Oviedo, Winter Springs, & Sem. Co) - Reuse areas.	Current water quality samples from Bear Gully routinely demonstrate TP concentrations 2-5 times higher than Howell Creek. Data demonstrates consistently high TP concentrations at all stations from SR434 to the lake.
Gee Creek	GEE9 (Gee Creek between Fairy and Wildmere Lakes)	GEE2 (Gee Creek at powerline)	Med Density Urban & Commercial	Longwood, Casselberry, & Winter Springs	Fairy Lake Lake Kathryn, and discharge from Lake Triplett / Little Lake Triplett	- Stormwater (Winter Springs, Casselberry, Sem. Co.) - Wastewater (Winter Springs, Casselberry, Sem. Co.) - Reuse areas	Three-fold increase in average TP concentration in this reach.
Soldiers Creek	SOL2 (SR419)	SOL1 (Soldiers Creek and Gee Creek)	Urban & Wetland	Seminole County & Winter Springs	Gee Creek Intersect with Soldiers Creek	- Stormwater / wastewater from industrial area north of station SOL1 - Truck Wash - Reuse Areas,	Three-fold increase in average TP concentration in this reach.

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Sweetwater Creek	Upstream of SWEET2	Ag	Seminole County & Oviedo	Small drainage canals	- Ag areas (row crops, tree crops (citrus?), & ornamentals) - Stormwater (Oviedo)	Average TP is ~0.35 mg/L
Salt Creek	Upstream of SALT2	Wetland & Ag	Seminole County	Small drainage canals	Ag areas (row crops)	Average TP is ~0.35 mg/L
Six Mile Creek	Upstream of SIX1	Ag, Urban, Wetland	Sanford & Seminole County	Six Mile Creek splits into two forks just upstream of station SIX1	- Ag areas (improved pasture, ornamentals) - Stormwater (Sem. Co. & Sanford) - Wastewater (Sem. Co & Sanford; east of Lake Minnie)	Station SIX1 is upstream of the Sanford Canal