

FOSC Chemical WQ Monitoring – May 2019

Wheaton Lane

Flow volume was low. Two small fish seen, few birds heard. Substrate is lightly covered in algae. Ammonia-N level moderate at 0.15 mg/L. pH was more basic than usual - almost 9 - but temp was seasonally appropriate. Salinity/TDS/conductivity were low, and chlorine was at 0. Surfactants at 2.8 ppm, about their usual range here. Noise level above normal at 63 dB, but this was because it was mowing day at Parks, apparently.

Dennis Avenue

Volume was moderate to low here. Ammonia-N level at 0.08. Surfactants were about 1.8 mg/L. Chlorine levels lower were .03/.09/.06. Salinity/TDS/conductivity were about 10% higher than Wheaton. We saw about 15 juvenile fish. Substrate fairly clean, with little algae or silt. Noise levels around 61.5 dB, which is high, again because of mowing decks in the area.

Flora Lane

Moderate water flow this time, and substrate was cleaner than usual (no algae, mostly sand). Ammonia-N was 0.11, surfactants were 1.8 ppm. Free and total chlorine were .03 and .10, respectively. Conductivity, TDS and salinity were about double Wheaton and Dennis readings. About 15 juvenile fish spotted. Lots of bird and mosquito activity. Noise around 56 dB.

Dallas Avenue

Volume was low. Substrate clear. No tracks seen, but gnats and juvenile water striders in abundance, and a couple released a box turtle near the bridge (it had crawled up near their swimming pool). Ammonia-N levels at 0.9, surfactants were up at 2.8 ppm. Salinity, TDS and conductivity levels between Wheaton and Dennis readings. Chlorine levels low this time around. Noise levels were about 56 dB. Construction crew (Sligo pathway and foot bridges) nearby, with lots of walkers and bikers in the area.

Bennington Drive

Volume was moderate. Apron and pool relatively clean, though pool column somewhat cloudy. Ammonia-N levels at 0.42, which is pretty high. Surfactants at 1.9 ppm. Salinity, TDS and conductivity levels were all quite high, close to winter territory. Chlorine levels were a bit high (0.14 ppm for total chlorine). No snails, unusual for this late in the spring, but raccoon tracks seen in the apron's silt. Noise levels were about 51.5 dB.

Wayne Avenue

Volume was high, channel outfall pool was deep. Lots of orange iron floc on the outfall pipe. About 30 fish, mostly juveniles and fry, as well as lots of birds. Ammonia-N levels at 0.16, surfactants at 2.1 ppm. Salinity, TDS and conductivity levels were all high, similar to Bennington Drive's numbers. Chlorine levels were all fairly low. Noise levels were about 59 dB (normal here).

Fleetwood Terrace

Volume was moderate, water clear. No fish seen, very little algae. Several dragonfly pairs near the seep/slough, where water levels were high and consistent flow through to the

main channel appears now to be well-established. Ammonia-N levels at 0.09 ppm, surfactants steady here at 1.8 ppm. Salinity, TDS and conductivity levels were midrange, along the lines of Dallas Avenue. Chlorine levels were quite low, and noise levels were at 55.5 dB.

Maple Avenue

Volume was heavy, covering the entire remaining outfall spillway. Steady flow of sandy sediment from 01A and, to a lesser extent, 01B, through monitoring. 01B has very heavy iron floc throughout, and 01C also has steady flow (which appears to be the new normal for this pipe). Receiving pool was completely opaque with suspended sediment - could not see the bottom. Ammonia-N levels were 0.13 and 0.38, 01A/01B respectively. Surfactants were 2.7 and 0.6 ppm in 01A and 01B. Salinity, TDS and conductivity levels were moderately high and quite similar to one another. Chlorine levels were low in both pipes. Raccoon tracks in apron sediment/algae layer. Noise levels were about 57.3 dB.

Coliform Results

Location	E.coliform (cfu/100mL)	Total coliform (cfu/100mL)
Wheaton	300	700
Dennis	400	1,500
Flora	300	900
Dallas	0	1,500
Bennington	200	9,400
Wayne	5,300	6,400
Fleetwood	500	1,900
Maple 01A	200	700
Maple 01B	100	300
DI lab blank	0	0