

MEMO

TO: District Commissioners
FR: District Director
RE: December 2015 – Wet Weather Event

Gentlemen;

These figures are provided for informational purposes only, to illustrate how each segment of the Communities collection system responded to the extreme wet weather event of December 13 – 14, 2015. On these days the area received significant rainfall which resulted in excessive influent flows at the treatment plant. I have prepared some base flow, and peak flow information relative to this event for the treatment plant and each meter station.

The Treatment Plant was in a flow pattern of average midday influent flow values of approximately 5800 gallons per minute (gpm) in mid December, 2015.

During December 14th during the wet weather period the treatment plant received an influent peak flow of approximately 38,120 gpm (54.9 mgd).

This is a peaking factor of approximately 6.6

Meter Station # 1 – Kimberly

Early December average midday flows of approximately 550 gpm.

December 14th midday peak flow of 6,512 gpm.

Peaking factor of 11.8

Meter Station # 2 – Little Chute

Early December average midday flows of approximately 580 gpm.

December 14th midday peak flow of 4,938 gpm.

Peaking factor of 8.5

Meter Station # 3 – Little Chute

Early December average midday flows of approximately 760 gpm.

December 14th midday peak flow of 3,262 gpm.

Peaking factor of 4.3

Meter Station # 4 – Combined Locks

Early December average midday flows of approximately 212 gpm.

December 14th midday peak flow of 2,669 gpm.

Peaking factor of 12.6

Meter Station # 5N - Kaukauna

Early December average midday flows of approximately 107 gpm.

December 14th midday peak flow of 1,157 gpm.

Peaking factor of 10.8

continued

Meter Station # 5S - Kaukauna

Early December average midday flows of approximately 1,129 gpm.

December 14th midday peak flow of 8,888 gpm.

Peaking factor of 7.9

Meter Station # 6 - Kaukauna

Early December average midday flows of approximately 279 gpm.

December 14th midday peak flow of 1,271 gpm.

Peaking factor of 4.6

Meter Station # 9 - Kaukauna

Meter station 9 is a pumped lift station. On a average midday cycle a single pump pumps at approximately 350 gpm twice per hour. During the peak wet weather period both pumps were running continually at approximately 1250 gpm.

Meter Station # 10 - Kaukauna

Early December average midday flows of approximately 230 gpm.

December 14th midday peak flow of 2,764 gpm.

Peaking factor of 12.0

Meter Station # 7 – Darboy

Early December average midday flows of approximately 404 gpm.

December 14th midday peak flow of 2,739 gpm.

Peaking factor of 6.8