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Tuck Road Planned Urban Village  
4550 Tuck Road  
Loganville, Georgia 30052

June 24, 2024

RE: Water-Sewer Demands

To Whom It May Concern:

This letter is to confirm the water and sewer demands for a proposed Planned Urban Village project located at 4550 Tuck Road in Loganville, Georgia. The project is to include up to 100 single family lots, up to 60 townhome units, and 8 commercial lots.

Assuming:

100 Single Family Homes

60 Townhomes

Commercial lots are assumed to have up to 25 employees @ 25 gal/day per lot

Demand:  $100 \times 400 \text{ gal/day} = 40,000 \text{ gal/day}$

$60 \times 400 = 24,000 \text{ gal/day}$

$25 \text{ employees @ } 25 \text{ gal/day} = 625 \text{ gal/day}$ ,  $625 \text{ gal/day} \times 8 \text{ lots} = 5,000 \text{ gal/day}$

$40,000 + 24,000 + 5,000 = 69,000 \text{ gal/day} / 1440 = 47.92 \text{ gal/min}$

Peak Demand with pump station:  $69,000 (2.5) = 172,500 / 1440 = 119.79 \text{ gal/min}$

Sincerely,

Brian Wood, P.E.