

CAROL CHADWICK, P.E.

Civil Engineer

1208 S.W. Fairfax Glen

Lake City, FL 32025

307.680.1772

ccpewyo@gmail.com

www.carolchadwickpe.com

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re: Chestnut Springs Concurrency Impact Analysis

The site is located in an area currently use for single family homes. Calculations were based on 3 bedroom homes.

Criteria for analyses:

- Trip generation was calculated per the ITE Trip Generation Manual, 9th edition, ITE code 210
- Potable Water Analysis per Chapter 64E-6.008 Florida Administrative Code, Table 1
- Sanitary Sewer Analysis Chapter 64E-6.008 Florida Administrative Code, Table 1
- Environmental Engineering: A Design Approach, Sincero and Sincero, 1996

Summary of analyses:

- Trip generation: 38.28 ADT & 4.04 Peak PM trips
- Potable Water: 4800 gallons per day
- Sanitary Sewer: 4800 gallons per day
- Solid Waste: 5.48 tons per year

See attached Concurrency Worksheet.

Please contact me at 307.680.1772 if you have any questions.

Respectfully,



Carol Chadwick, P.E.

**REVISED CONCURRENCY
WORKSHEET**

Chestnut Springs
06/10/22

Trip Generation Analysis

ITE Code	ITE Use	ADT Multiplier	PM Peak Multiplier	Dwelling Units	Total ADT	Total PM Peak
210	Single Family Homes	9.57	1.01	4.00	38.28	4.04

Potable Water Analysis

Ch. 64E-6.008, F.A.C. Use	Ch. 64E-6.008, F.A.C. Gallons Per Day (GPD)	Ch. 64E-6.008, F.A.C. Multiplier*	Total (Gallons Per Day)
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Single Family Homes	400.00	12.00	4800.00
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* Multiplier is based upon Ch. 64E.6008, Florida Administrative Code and can vary from square footage, number of employees, number of seats, or etc. See Ch. 64E-6.008, F.A.C. to determine multiplier.

Sanitary Sewer Analysis

Ch. 64E-6.008, F.A.C. Use	Ch. 64E-6.008, F.A.C. Gallons Per Day (GPD)	Ch. 64E-6.008, F.A.C. Multiplier*	Total (Gallons Per Day)
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Single Family Homes	400.00	12.00	4800.00
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* Multiplier is based upon Ch. 64E.6008, F.A.C. and can vary from square footage, number of employees, number of seats, or etc. See Ch. 64E-6.008, F.A.C. to determine multiplier.

Solid Waste Analysis

Use	Tons Per Dwelling Unit**	Households	Total (Tons Per Year)
Single Family Homes	1.83	3.00	5.48

**0.73 tons per person per year x 2.5 person per household = 1.825 tons per dwelling unit