

Appendix A.  
TASK 2 – Future Growth Projections, Water Supply  
Demands and Wastewater Flows Report

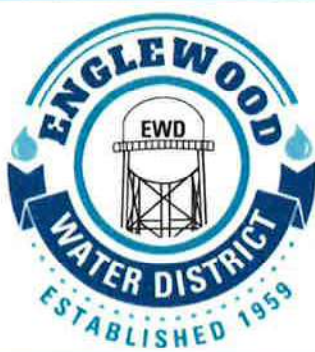


## TASK 2 — Future Growth Projections, Water Supply Demands and Wastewater Flows

Englewood Water District

Utility Master Plan

December 2016



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# 1.0 Introduction

The Englewood Water District (District) has retained HDR Engineering, Inc. (HDR) to provide professional services to develop a Utility Master Plan. This Utility Master Plan will assess the District's water, wastewater, and reclaimed water service and facility needs for the next 20-year planning period from 2016 through 2036. The purpose of this Technical Memorandum is to present the assumptions, methodologies and sources used to develop the District's water supply demands and wastewater flow projections over the 20 year planning period.

## 2.0 Background

The District was created in 1959 and is classified as a political sub-division of the State of Florida under Chapter 2004-439. The District owns and operates a public utility that provides water, wastewater and reclaimed water services within the unincorporated areas of Sarasota and Charlotte Counties generally known as Englewood, Grove City and Manasota Key. The District's current service area boundary encompasses approximately 44.5 square miles and is illustrated in Figure 2.1. Initially the District only provided potable water service to its customers; however, with the acquisition of the West Charlotte Utilities Wastewater Treatment Plant (WCU WWTP) in 1994, the District now provides wastewater collection and treatment for portions of its water customers who are connected to the sanitary sewer system, as well as reclaimed water through a public access system.

In addition, the District currently has three (3) interlocal agreements; one (1) for the delivery of potable water to Boca Utilities for the residents of Don Pedro and Knight/Palm Island in Charlotte County, and two (2) to provide sewer service through bulk agreements with Charlotte County Utilities and Utilities, Inc. of Sandalhaven.

It is noted that the District does not currently have a Water Supply Master Plan; however, their most recent Water Reclamation Facility Expansion Planning Report (CH2MHill) was completed in July 2006.

### 2.1 Existing Facilities

The District's current Water Use Permit (WUP) issued by the Southwest Florida Water Management District (SWFWMD) (WUP No. 20 004866.010) authorizes groundwater withdrawals of 5,360,000 gallons per day (annual average) and 6,590,000 gallons per day (peak month). These quantities were allocated to meet the District's potable water demand through 2019. The District's WUP expires on December 18, 2019. The District's water supply, treatment and distribution facilities generally include:

- Six (6) groundwater wellfields – Four (4) freshwater wellfields and two (2) brackish water wellfields;
- Two (2) Water Treatment Plants
  - One (1) Lime Softening Plant built in 1961 at 3.0 MGD design capacity;
  - One (1) Reverse Osmosis (RO) Plant built in 1981 at 3.0 design capacity;

- Four (4) finished water storage tanks with a combined capacity of 7.5 million gallons, and a 150' elevated storage tank with 0.1 million gallon capacity used to control pumping and pressures;
- One (1) Deep Injection Well; and
- Over 260 miles of water transmission and distribution pipelines and appurtenances, with emergency interconnections with Sarasota and Charlotte Counties.

The District's current Florida Department of Environmental Protection (FDEP) Domestic Wastewater Facility Permit authorizes a permitted treatment capacity of 3.00 MGD for annual average daily flow (AADF). The District's wastewater collection, treatment and disposal facilities generally include:

- Approximately 240 miles of gravity sewer lines and force mains ranging in size from two (2") to twenty-four (24") inches in diameter;
- Eighty-two (82) submersible pump stations;
- Nine (9) Vacuum Collection areas with over 3,800 vacuum pits, and over 116 miles of vacuum collection lines ranging in size from three (3") to ten (10") inches in diameter;
- Thirteen (13) low-pressure stations and one (1) vacuum booster station;
- One (1) extended aeration domestic wastewater treatment facility consisting of headworks, an odor control system, four steel circular package plants, two filter systems, a disinfection system, a sludge dewatering system, and an onsite storage system.
- The onsite storage system consists of two lined reject storage ponds (1.2MG and 4.0MG), one reclaimed water storage pond (3.6MG), one reclaimed water storage tank (1.0MG) and one 220MG aquifer storage and recovery (ASR) well.

## 3.0 Population Projections

### 3.1 Information Sources and Methodology

Population projections were developed for the District to facilitate the development of anticipated water supply demands and wastewater flow projections through 2036. Various information sources were gathered to compile a comprehensive view of the District's historical and future population estimates. The following referenced materials were used in the development of the population projections:

- Bureau of Economic and Business Research – Florida Estimates of Population 2015 (April 1, 2015);
- Bureau of Economic and Business Research – Florida Estimates of Population 2015 (Vol. 49, Bulletin 174, January 2016)
- Department of Commerce – Census Bureau – Methodology, Assumptions, and Inputs for the 2014 National Projections. (August 2016)
- Englewood Water District – Monthly Operating Reports (January 2006 - May 2016);

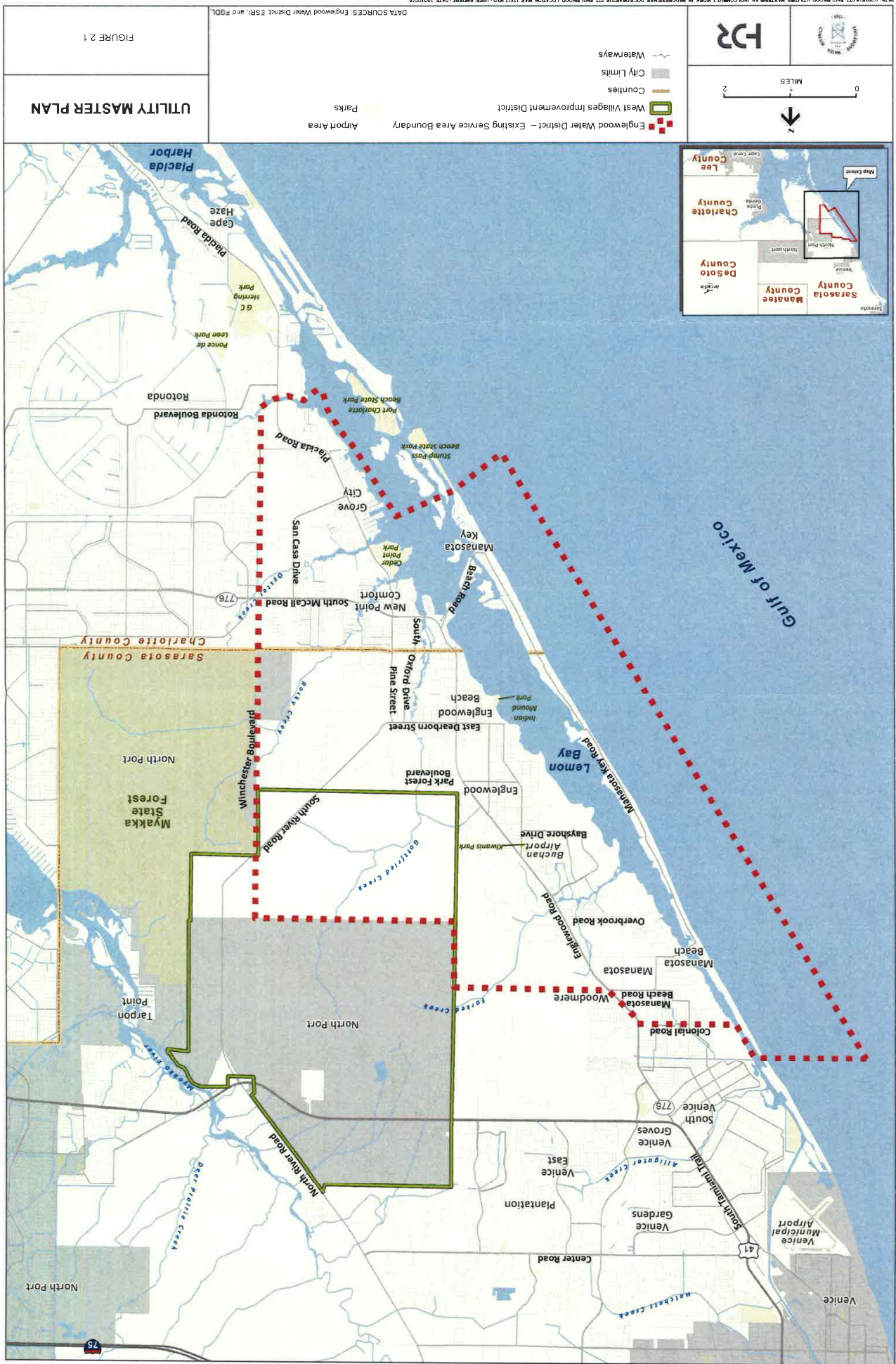


FIGURE 2.1

- Englewood Water District – Consumption Report (March, 2016);
- Southwest Florida Water Management District – 2015 Regional Water Supply Plan (Southern Planning Region);
- Southwest Florida Water Management District – 2015 Regional Water Supply Plan: Public Water Supply Demand Projections;
- Southwest Florida Regional Planning Council;
- Sarasota County – GIS data set - zoning and land use; and
- Charlotte County – GIS data set - Zoning

In addition to these materials, several meetings were held with local utility partners to discuss and coordinate future water, wastewater and reclaimed water services. These meetings included:

- City of North Port;
- Charlotte County;
- Sarasota County;
- Peace River Manasota Regional Water Supply Authority; and
- West Villages Improvement District.

### 3.2 Methodology

Several different population projection methodologies are used across the country for infrastructure planning. These methodologies can be broken down into the following general categories: Trend Based Methods; Ratio Methods; Component Methods; forecasts derived directly from specific estimates of economic projections (employment/labor); comparative or analogy to similar areas; and forecasts derived from assigning an ultimate holding capacity or build out limit and projecting to that limit.

Specific to population projection methodologies used in Florida, the most common data sources referenced by the Metropolitan Planning Organizations (MPOs), Water Management Districts (WMDs), County Planning Departments and Regional Planning Councils (RPCs) include the following:

- **University of Florida's Bureau of Economic and Business Research (BEBR):** Estimates are produced using the housing unit method, in which changes in population are based on changes in occupied housing units (or households);
- **US Census Bureau National Projections:** Estimates of annual projections of resident populations are produced using the Component Method and assumptions about demographic components of change (future trends in births, deaths and net international migration);

- **Traffic Analysis Zone (TAZ):** Florida Department of Transportation (FDOT) generates Traffic Analysis Zones (TAZ) as defined by the Bureau of the Census. The data contains selected fields providing information on total population, race, sex, age, and number of households. A TAZ is a statistical entity delineated by state and/or local transportation officials for tabulating traffic-related census data. Traffic analysis zones (TAZs) are basic spatial units of analysis facilitating the ability of transportation planners to forecast changes in commuting patterns, trip volumes, and modes of travel, and to develop plans to meet the changing demands for transportation facilities and capacities. Each TAZ represents an area containing similar kinds of land use and commuter travel.
- **Comprehensive Planning Documents:** Florida Statutes require that municipal entities prepare comprehensive plans on a regular basis (every five years), and that these plans shall be based upon permanent and seasonal population estimates and projections. Projections shall be based on either the University of Florida's BEBR population estimates, or generated by the local government based upon a professionally-acceptable methodology. If using BEBR, the plan must be based on at least the minimum amount of land required to accommodate the Medium projections of the University of Florida's Bureau of Economic and Business Research for at least a 10-year planning period unless otherwise limited under s. 380.05, including related rules of the Administration Commission.

An important part of the population forecasting process is the estimation of the actual population at or near the time the study is undertaken (the base year). If the study is undertaken at the same time as a census, or within one or two years of such a census, it may be acceptable to utilize the census counts with only gross adjustments. Since the United States census is performed only at 10-year intervals, and Florida does not make intermediate census determinations, a base year population estimate for the District was determined without utilizing census data.

The methodology used to determine the District's population projections through 2036 included determination of the base year (2015) population, with a "trend based" percent growth applied at 5 year incremental periods over the 20 year planning horizon.

### **3.3 Determination of the Base Year Population (2015)**

To determine the District's 2015 Base Year Population, four different sources of information were compiled and reviewed. Published population estimates from the SWFWMD; 2015 Census Tract and Block Data; Completion of the SWFWMD Worksheet B, Service Area Summary; and the District's 2015 Public Supply Annual Report (PSAR).

#### **3.3.1 Southwest Florida Water Management District (SWFWMD)**

First, the SWFWMD, as part of their 2015 Regional Water Supply Plan provided Adjusted Total Functional Populations from 2013 to 2040 for the Englewood Water District (*Adjusted\_SWFWMD\_2014\_PS\_Projection\_Summaries\_15OCT2015*). Table 3.1 below illustrates these projections. This population projection utilized the "component based" method,



which disaggregates BEBR projections to land parcel levels with a geographic information system (GIS) overlay.

**Table 3.1 SWFWMD Population Projections**

County	WUP Number	Utility Name	Adjusted Total Functional Population 2013	Adjusted Total Functional Population 2015	Adjusted Total Functional Population 2020	Adjusted Total Functional Population 2025	Adjusted Total Functional Population 2030	Adjusted Total Functional Population 2035	Adjusted Total Functional Population 2040
Sarasota	4866	Englewood Water District	35,109	35,276	35,812	36,331	36,828	37,304	37,783
% Increase over previous				0.48% Increase	1.52% Increase	1.45% Increase	1.37% Increase	1.29% Increase	1.28% Increase

This Total Functional Population of **35,276** for 2015 was compared to the following three additional estimates for the District's Base Year 2015 population determination.

### 3.3.2 GIS Overlay of 2015 Census Tract and Block Data

Similar to the methodology developed by the SWFWMD, a geographic information system (GIS) based map, illustrated in Figure 3.1, was produced to overlay the US Census Tract and Block data onto the District's existing service area boundary. A query of the US Census database was performed to provide the data in Table 3.2. It is noted that the 2015 population estimate for the Census Tracts within the District's service boundary was 36,133.

**Table 3.2 Census Tract Populations**

US Census Bureau 2015 Report			
Tract	Population	Population Square Mean	Households
030402	834	455.7	415
030301	900	756.3	502
002605	776	2,282.4	383
002718	2,701	77.6	1149
002604	1,199	1,557.1	540
030302	1,379	1,044.7	680
002602	1,102	1450	555
030301	1,085	1,409.1	533
002604	1,587	1,211.5	916
002603	521	1,578.8	267
030401	585	1,329.5	324
002602	798	2,751.7	451
030302	1,012	2,248.9	473
002602	752	1,446.2	356
002603	1,192	1,027.6	561
030301	787	1,457.4	457
030401	1,398	1,109.5	747
002605	1488	1583	741



002509	1,596	1,970.4	792
002601	1,392	644.4	694
002718	4,012	328.9	1,674
002601	1,185	877.8	567
002509	1,297	2,882.2	561
002508	1,273	1,069.7	569
030302	769	2,563.3	466
030200	2,667	1,333.5	1,187
030503	1,257	433.4	554
030302	589	1,732.4	347
<b>Total</b>	<b>36,133</b>		<b>17,461</b>

### 3.3.3 Southwest Florida Water Management District Worksheet B: Service Area Summary

The third method used to estimate the Base Year 2015 population was to complete the SWFWMD's Worksheet B: Service Area Summary utilizing the Englewood Water District's 2015 Public Supply Annual Report data. The total functional service area population using this method was estimated at **35,357**. A copy of this Worksheet is provided in Appendix A.

### 3.3.4 Southwest Florida Water Management District 2015 Public Supply Annual Report

As a condition of the District's Water Use Permit (WUP), a Public Supply Annual Report (PSAR) must be submitted to the SWFWMD. This Report contains documentation of the number and type of residential and non-residential water service categories. In 2015, the District's estimated functional population was calculated to be 38,071. A copy of the District's 2015 PSAR is provided in Appendix B.

### 3.3.5 Determination of Base Year (2015) Population

It is noted that of the four methods listed above, only two (the 2015 population estimate for the Census Tract data within the District's service boundary and the 2015 PSAR) included the addition of a recent bulk-service customer for the District, Japanese Gardens. Prior to 2015, Japanese Gardens had self-supplied their potable water needs and were excluded from the SWFWMD's population estimates for the District. The SWFWMD estimated the build-out population of Japanese Gardens at 804 (*Adjusted\_SWFWMD\_2014\_PS\_Projection\_Summaries\_22OCT2014*).

Adjusting the estimates from SWFWMD to account for the addition of the Japanese Gardens population to the District's, and averaging the resulting estimates provides the following Base Year (2015) determination:

$$((35,276+804) + (36,133) + (35,357+804) + 38,071)/4 = 36,611 = \text{Base Year (2015) Population}$$

It is noted that this population projection is for the area within the District's service area, and does not include populations within the areas currently serviced with bulk water or sewer agreements including Bocilla Utilities, Utilities, Inc. of Sandalhaven or Charlotte County.

US Census

DATA SOURCES: Englewood Water District ES&I, FGDL

0 2 MILES

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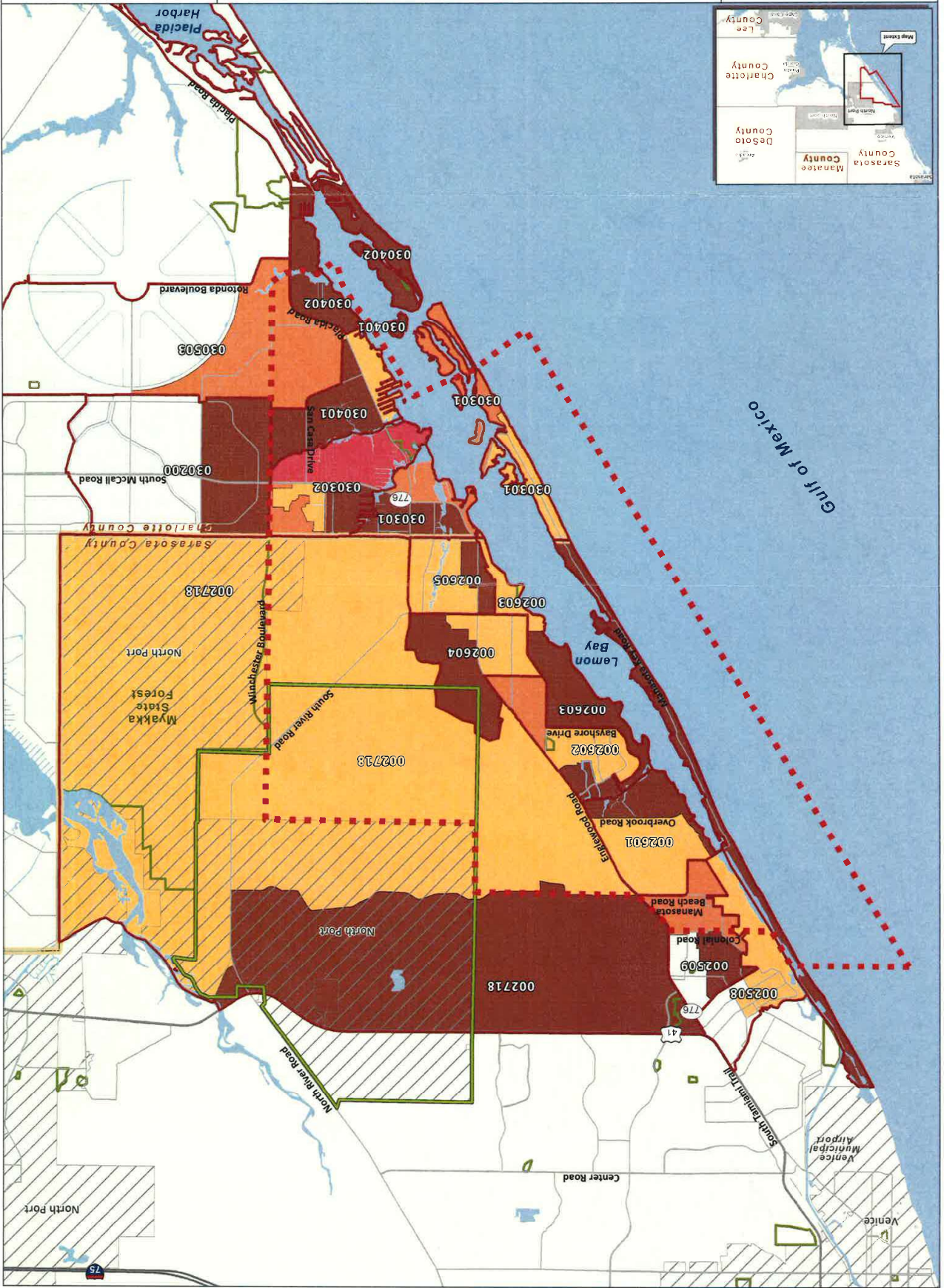
- Englewood Water District - Existing Service Area Boundary
- West Villages Improvement District
- Counties
- Parks
- Census Tract

Block Group

1 2 3 4

2015 CENSUS TRACT AND BLOCK

FIGURE 3.1



### 3.4 Population Projections

To determine the “percent-growth” or “trend-based” projections, evaluations of three different data sets were completed: Projections developed by the University of Florida’s Bureau of Economic and Business Research (BEBR) on a County-wide basis; Historical water demand and wastewater flows within the District; and Projections developed by the SWFWMD in the 2015 Regional Water Supply Plan.

#### 3.4.1 Countywide Population Projections - BEBR

The population projections developed by BEBR are generally accepted as the standard throughout Florida. These projections are made at the County level and can be used to project future growth trends. BEBR develops three projections for each county: “low”, “medium” and “high”. Table 3.3 identifies BEBR’s population projections for Sarasota and Charlotte Counties. An annual average growth rate was calculated based on their respective 5-year incremental rates of increase. Figures 3.2 and 3.3 graphically illustrate Charlotte and Sarasota County’s population projections respectively.

Table 3.3 Countywide Population Estimates – BEBR 2015

County	Census Estimates		Projections						Annual Average	
	2010	2015	2020	2025	2030	2035	2040	2045		
Charlotte										
Total Population	159,978	167,141	Low	167,400	169,000	170,000	169,800	169,100	167,900	
			Medium	178,200	187,900	195,900	202,700	209,600	216,000	
			High	187,800	203,700	219,300	234,300	249,900	265,900	
Medium Projection Increase (%)		4.48%		6.62%	5.44%	4.26%	3.47%	3.40%	3.05%	0.97%
Sarasota										
Total Population	379,448	392,090	Low	395,000	399,500	403,200	403,000	400,300	397,200	
			Medium	415,900	436,600	453,900	467,000	478,100	489,300	
			High	434,300	467,300	499,200	528,400	556,100	584,700	
Medium Projection Increase (%)		3.33%		6.07%	4.98%	3.96%	2.89%	2.38%	2.34%	0.83%

Figure 3.2 BEBR Population Projections: Charlotte County

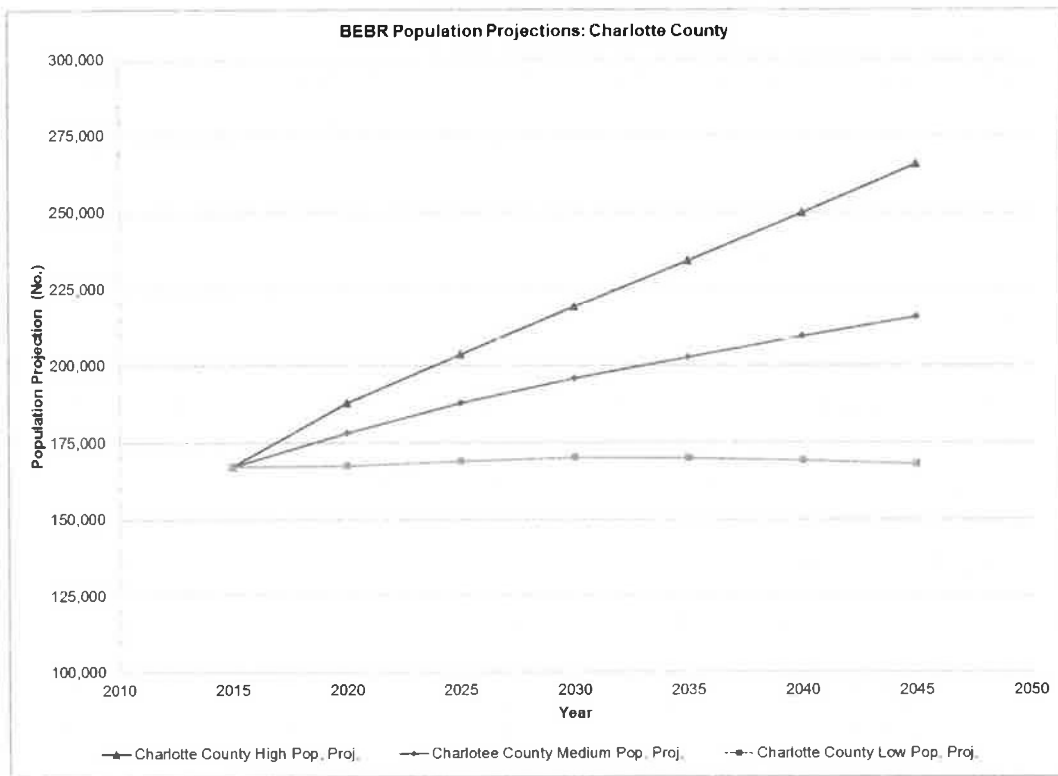
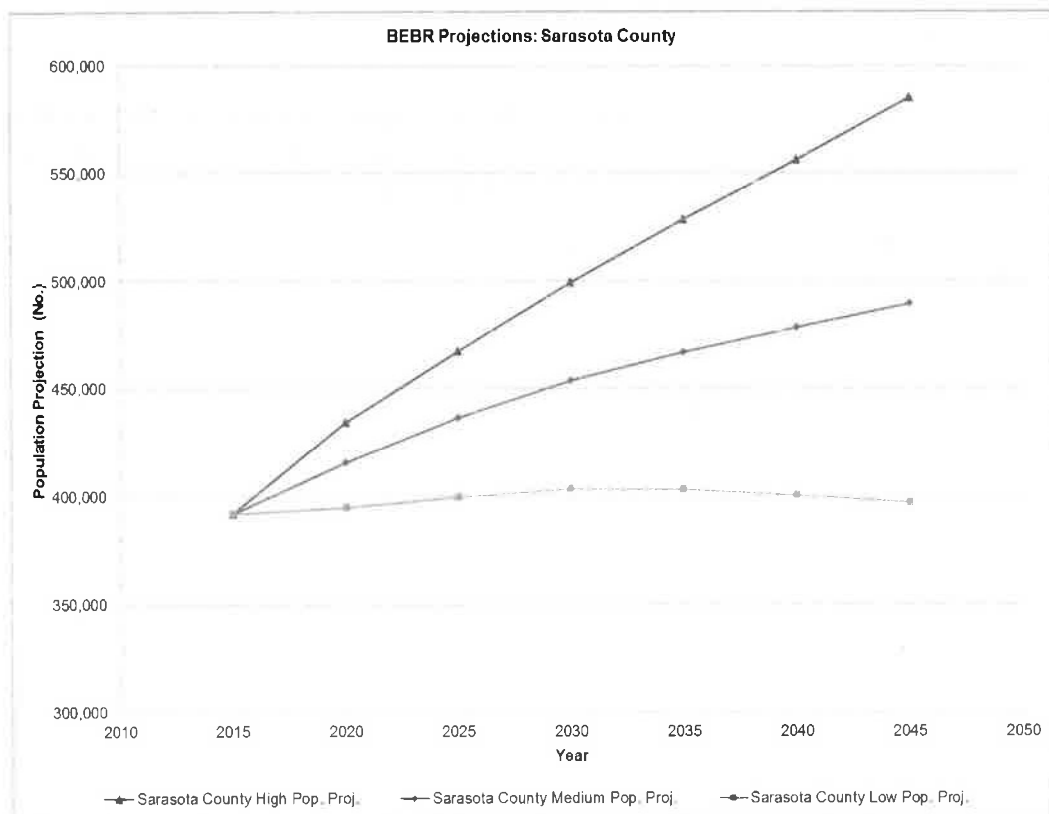


Figure 3.3 BEBR Population Projections: Sarasota County



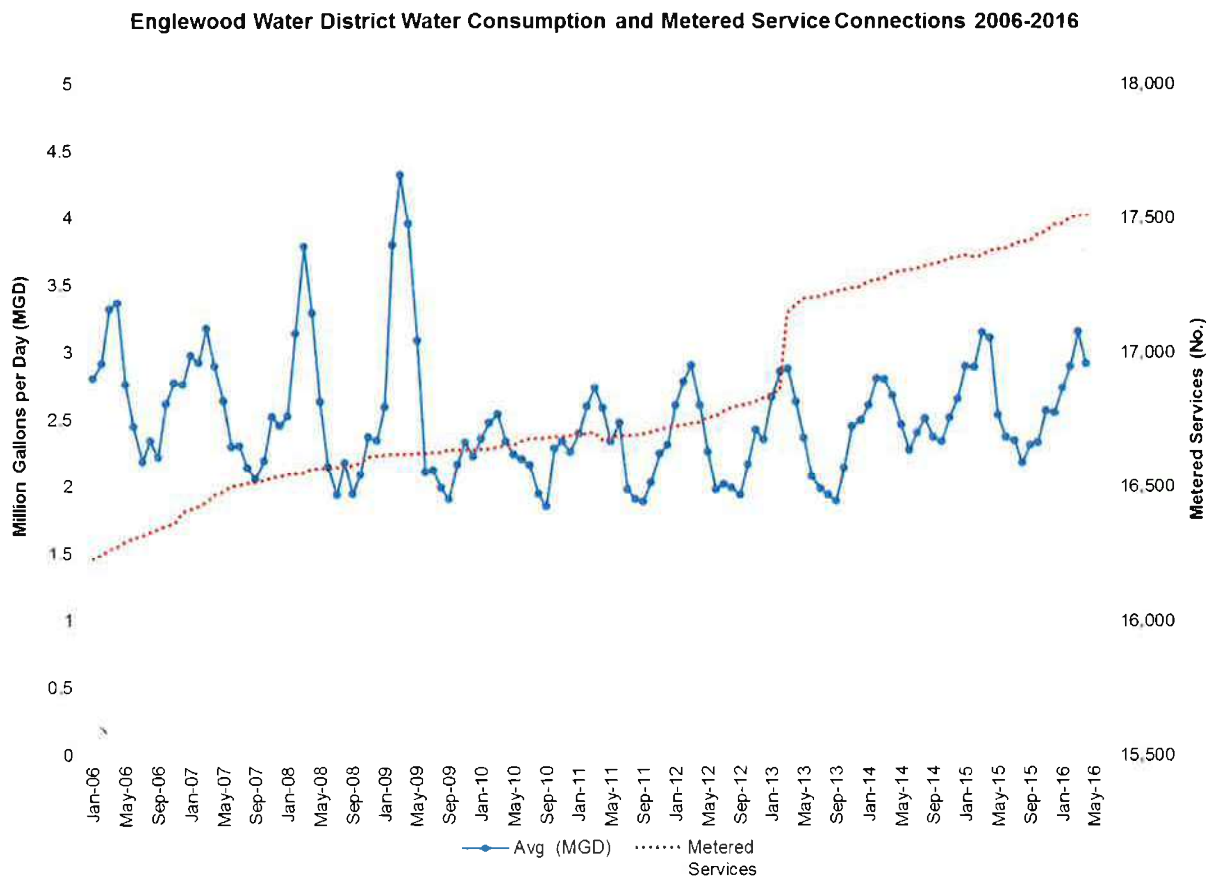


### 3.4.2 Historical Water Demand and Wastewater Flows – Population Projections

Based on the District's last 10 years of monthly operating reports, and as illustrated in Figure 3.4 below, the annual average rate of increase of metered water service connections from May, 2006 through May, 2016 is approximately 0.8%. The District saw an increase of approximately 1,220 new metered services over the last decade. The annual rates of increase in metered services range from a low of 0.12% in 2012 and a high of 2.38% in 2013.

In contrast, as illustrated in Figure 3.4 and Table 3.4, the annual average rate of increase for water consumption over the same 10 year period has fluctuated, and that the 2015 annual average water demand of 2.60 MGD is less than the 2006 annual average demand of 2.70 MGD. This decrease in water demand may be attributed to two noted events. First, 2006 and into 2007, the southwest Florida coast suffered a significant drought, which coupled with the lack of irrigation water to most residents within the District's service area, may have significantly increased the amount of water demand on the system. Second, as seen in many areas of Florida, the Great Recession of 2008 and 2009 left many areas with a higher than normal foreclosure rate and left many homes vacant or uninhabited.

**Figure 3.4 Water Consumption and Metered Service Connections**



**Table 3.4 Annual Average Water Demand and Maximum Month**

Year	Annual Average Treated to System (MOR's)	Maximum Month	Maximum Month Ratio
2006	2.705	3.751	1.12
2007	2.544	3.802	1.28
2008	2.528	4.169	1.10
2009	2.713	4.75	1.10
2010	2.245	2.896	1.24
2011	2.286	3.658	1.48
2012	2.330	3.358	1.16
2013	2.359	3.229	1.13
2014	2.529	3.998	1.69
2015	2.599	3.677	1.18

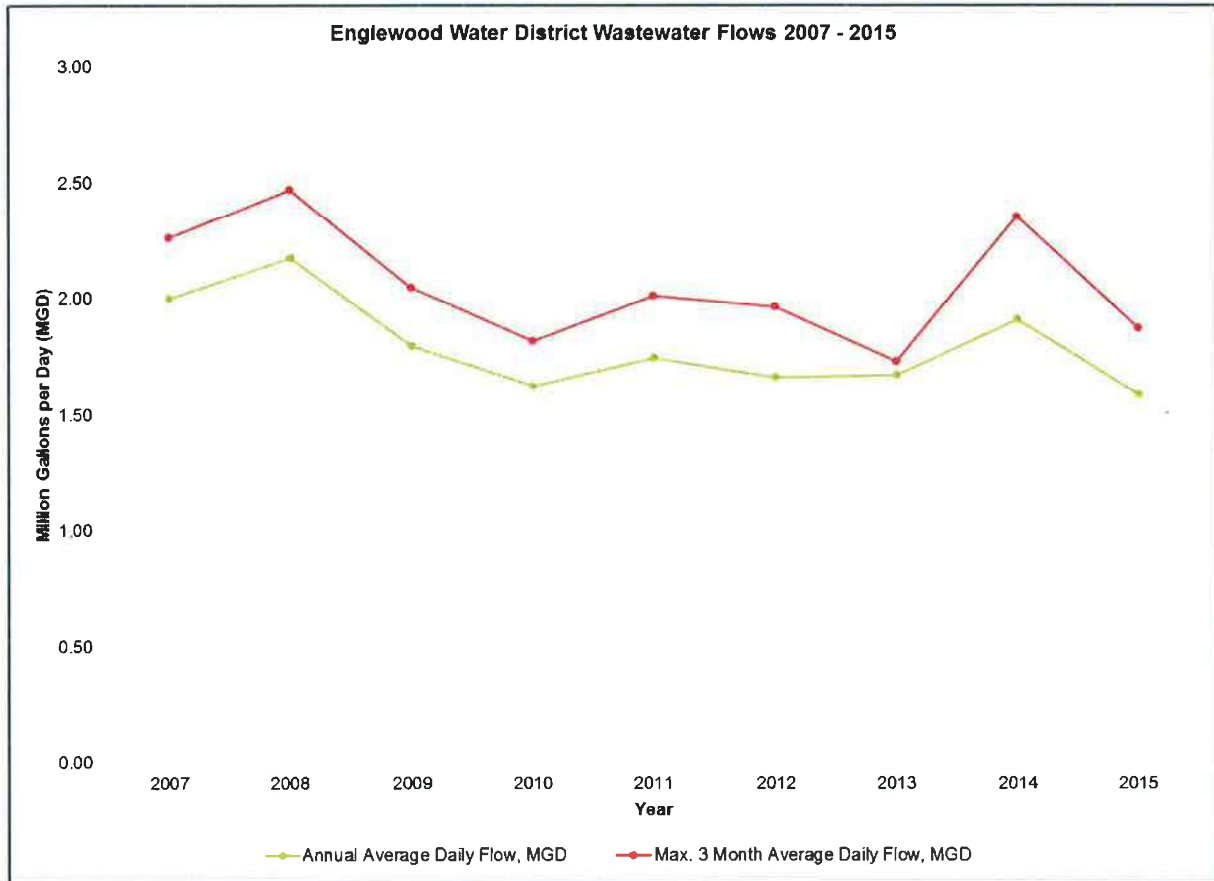
Similarly, Table 3.5 and Figure 3.5 shown below, illustrate the District's last 9 years of wastewater flow data and indicate that the flows have been relatively unchanged. In addition, the ratio of the maximum 3-month average daily flow in relation to the annual average daily flow is approximately 1.15. It is noted that October of 2008 and 2014 had the two highest maximum 3-month average flow determinations at 2.471 and 2.354 MGD respectively. A cursory review of rainfall data during these time periods reveals a correlation between flow and higher than average rainfall events. The months of August, September and October of 2008 and 2014 reported rainfall amounts of 5.49", 5.18" and 4.68" for 2008 and 6.31", 11.23" and 2.30" for 2014 respectively. These data, similar to the total water demand data discussed above, indicate that the District has seen a general decrease in the amount of non-rainfall related wastewater flow since 2007.

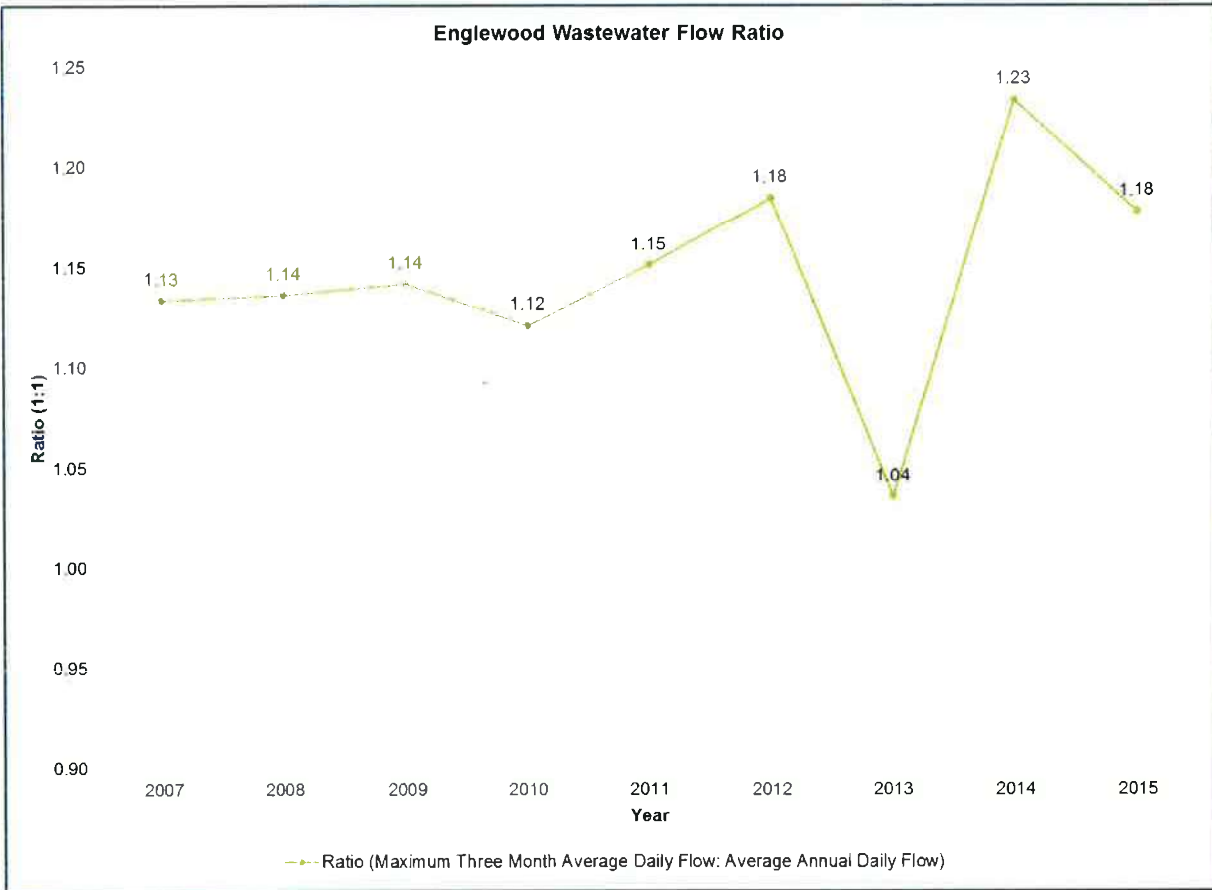
**Table 3.5 Historical Wastewater Flows**

<b>Englewood Water District Wastewater Flows</b>									
	2007	2008	2009	2010	2011	2012	2013	2014	2015
Annual Average Daily Flow (AADF), MGD	1.998	2.175	1.793	1.621	1.745	1.658	1.669	1.908	1.587
Max. 3-Month Average Daily Flow (3-MMADF), MGD	2.265	2.471	2.047	1.818	2.009	1.964	1.729	2.354	1.870
Ratio (3-MMADF: AADF)	1.13	1.14	1.14	1.12	1.15	1.18	1.04	1.23	1.18
Month 3-MMADF Occurred	May	October	January	April	June	April	December	October	April



Figure 3.5 Wastewater Flows 2007-2015



**Figure 3.6 Wastewater Flow Ratio**

### 3.4.3 Southwest Florida Water Management District – Population Projections

As discussed in Section 3.3.1 above and shown again in Table 3.6, the SWFWMD's population projections for the District through 2040 have an average annual rate of growth of approximately 0.3%.

**Table 3.6 SWFWMD Population Projections (2015 RWSP)**

County	WUP Number	Utility Name	Adjusted Total Functional Population 2013	Adjusted Total Functional Population 2015	Adjusted Total Functional Population 2020	Adjusted Total Functional Population 2025	Adjusted Total Functional Population 2030	Adjusted Total Functional Population 2035	Adjusted Total Functional Population 2040
Sarasota	4866	Englewood Water District	35,109	35,276	35,812	36,331	36,828	37,304	37,783
% Increase over previous				0.48% Increase over 2 years	1.52% Increase over 5 years	1.45% Increase over 5 years	1.37% Increase over 5 years	1.29% Increase over 5 years	1.28% Increase over 5 years

### 3.4.4 Trend Based Population Projections

As shown in Table 3.7, a comparison of the population projection methodologies and their associated annual average growth rate was used to determine the variability in the methods.

**Table 3.7 Annual Average Growth Rate by Methodology**

Annual Average Growth Rate (%)					
	Countywide BEBR Projections	Historical Water Demand	Metered Water Service Connections	Historical Wastewater Flows	SWFWMD 2015 RWSP
Charlotte County	0.97	-	0.8	-	0.3
Sarasota County	0.83				

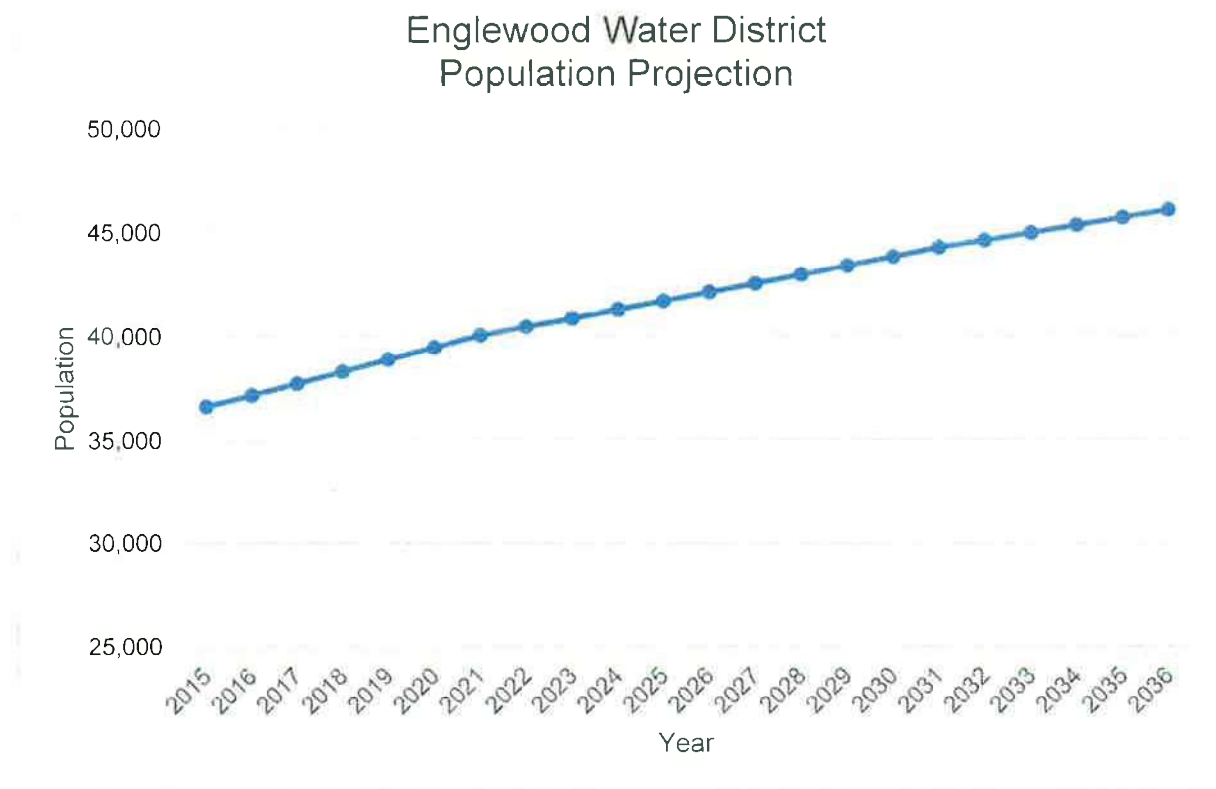
Examining the data sources listed above, it appears that population within the District's service area is most likely to experience annual increases between 0.3% and 1.02% over the 20 year planning horizon. This growth rate range covers the District's historical growth patterns as well as the BEBR and SWFWMD projected population growth rates. As previously illustrated in the BEBR high, medium and low population projections, as well as the SWFWMD projections, the higher near-term growth rates are reduced at the later stages of the planning horizon.

This trend pattern is further supported given that the District has identified several existing and/or planned developments (Table 6.1 in Section 6 of this report lists these known developments) within the service area. It is anticipated that the District will see a similar trend of a higher growth rate in the near term (1-5 years) as service to these new developments is initiated, with a tapering or leveling-off of growth as in-fill and build out of the developments occur in later years.

Therefore, a trend based population projection will be applied as shown in Table 3.8 and Figure 3.7, with a 1.5%, 1.0% and 0.8% growth rate for the near term (1-5 year), mid-term (6-10 year) and long term (11-20 year) planning horizons respectively. This equates to an annual average growth rate of 1.19%.

**Table 3.8 Englewood Water District Population Projections**

	Total Functional Population 2015 (Base Year)	Total Functional Population 2016	Total Functional Population 2021	Total Functional Population 2026	Total Functional Population 2031	Total Functional Population 2036
Annual %		1.5	1.5	1.0	1.0	0.8
<b>Population</b>	<b>36,611</b>	<b>37,160</b>	<b>40,032</b>	<b>42,074</b>	<b>44,220</b>	<b>46,018</b>

**Figure 3.7 Englewood Water District Population Projections**

## 4.0 Water Supply Demand Projections

### 4.1 Methodology and Demand Projections

Just as with population projection methodologies, several general methods of water supply demand forecasting can be used. These methods include:

- Per Capita Models;
- Extrapolation Models;
- Multiple Regression or Multivariate Models;
- Land Use Models; and
- Univariate Forecasting Models.

For the purpose of the District's Utility Master Plan, the Per Capita Model for forecasting water supply demands was used. The Per Capita Model calculates the total production or consumption per capita for a historical period, and applies the current year per capita consumption to the population projections for future periods. This is the simplest forecasting method and requires only historical production or consumption data, historical population, and a forecast of population through the planning horizon. This approach produces satisfactory

results as long as the population forecast is reasonable, and the customer mix does not change substantially (which could change historical per-capita demands/flows).

Utilizing the District's historical (January 2006 to January 2016) records of production data as well as the Historical Functional Population Served reported on the District's Public Supply Annual Reports (PSARs) to the SWFWMD, a determination of per capita usage was calculated as shown in Table 4.1. It is noted that the PSARs for years 2006 and 2007 were not available.

**Table 4.1 Historical Public Supply Annual Reports** \*Includes Bocilla Utilities Exported Water

Year	MOR Annual Average Treated to System (MGD)	PSAR Functional Population (people served)	Gallons per capita/day (GPCD)
2006	2.7046	N/A	-
2007	2.5444	N/A	-
2008	2.5280	51,863	48.75
2009	2.7125	44,223	61.34
2010	2.2449	41,229	54.44
2011	2.2855	34,413	66.42
2012	2.3299	31,899	73.96
2013	2.3594	37,585	62.77
2014	2.5272*	37,696	67.04
2015	2.4559*	38,071	64.51

Since 2008, the per capita usage has varied from a low of 48.75 gpcd in 2008 to a high of 73.96 gpcd in 2012. Within the SWFWMD's 2015 Regional Water Supply Plan, a 5-year (2008-2012) average per capita use rate was established for the District at 61 GPCD, which is lower than the District's actual observed per capita rates for the past five years.

The demographics of the District's service area, as evidenced by the 2015 Census Data, indicates that the median age of residents is 61.2 and the average household (all homes) size is 1.9 people, with the average family size (homes identified with 2 or more residents) of 2.4 people per family. The District has identified numerous single family and multi-family developments that are either currently under construction or are anticipated to be constructed within the next five years. As such, it is expected that the current median age will decrease as more families move into the area, and that the average household size will increase. These new developments, as well as their anticipated water demands, are identified in Section 6 of this Report.

With the anticipated increase in the demographic percentage of family size, and the associated water usage patterns, an estimated average per capita water demand of 70 gallons per capita/day was established. It is noted that Sarasota County utilizes a conservative average per capita demand factor of 100 gpcd to account for any potential changes in water use patterns or shifts in demand.

Table 4.2 illustrates the resulting projected annual average water supply demands for the Engewood Water District within its current service boundary in 5-year increments from 2016 to 2036.

**Table 4.2 Projected Annual Average Water Demands within the District**  
**\*Not Including Bocilla Utilities**

Year	Projected Functional Population	2011-2015 Average GPCD	Projected Annual Average Water Demands (MGD)*
2015	36,611	70	2.563
2016	37,160	70	2.601
2021	40,032	70	2.802
2026	42,074	70	2.945
2031	44,220	70	3.095
2036	46,018	70	3.221

#### 4.2 Additional Water Demands

The District currently provides potable water to Bocilla Utilities through a bulk service agreement for the residents of Don Pedro, Knight/Palm Island in Charlotte County. Currently, Bocilla Utilities services approximately 400 residences on the island. The District's billing records for 2015 indicate that the average daily usage was 143,140 gpd. Aerial photographs of the island suggest that it is approximately 75% built out. Assuming the Island would be 100% built out with 533 residences at the end of the 20 year planning period, the ultimate water demand is estimated to be 190,734 gpd.

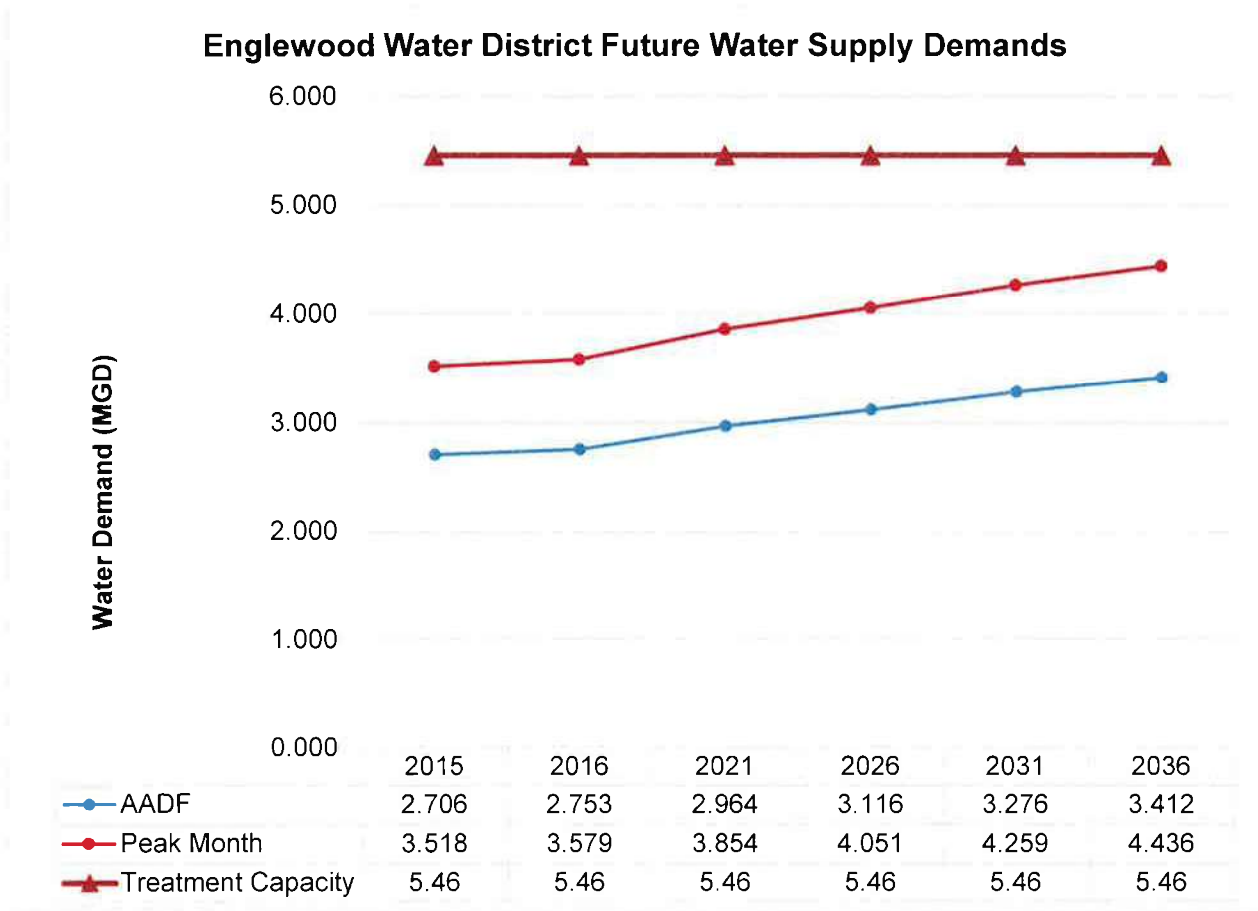
Table 4.3 illustrates the total projected annual average and peak month (based on the average maximum month peaking factor shown in Table 3.4 of 1.3) water supply demands for the District over the 20 year planning period.

**Table 4.3 Total Projected Water Supply Demands**  
**\*Historical Annual Average to Maximum Month Peak Ratio of 1.3**

Year	Projected Functional Population	2011-2015 Average GPCD	Projected Annual Average Water Demands (MGD)	Bocilla Utilities Projected Annual Average Water Demands (MGD)	Total Annual Average Water Demands (MGD)	Projected Peak Month Water Demands (MGD)*
2015	36,611	70	2.563	0.143	2.706	3.518
2016	37,160	70	2.601	0.152	2.753	3.579
2021	40,032	70	2.802	0.162	2.964	3.854
2026	42,074	70	2.945	0.171	3.116	4.051
2031	44,220	70	3.095	0.181	3.276	4.259
2036	46,018	70	3.221	0.191	3.412	4.436



Figure 4.1 Englewood Water District Projected Water Supply Demands



## 5.0 Wastewater Flow Projections

### 5.1 Methodology

To determine future wastewater flows, the population projections presented in Section 3.0 will be converted to equivalent residential connections (ERCs) based on the average family household size of 2.4 determined in the 2015 Census data. To determine the flows associated with each ERC, a comparison was made between the previously published 121 GPD/ERC in the District's 2005 Capacity Analysis Report, (CH2MHill) and the 2015 Annual Average Daily Flows. The Annual Average Daily flow in 2015 was 1.471 MGD (Total 1.587 MGD – Sandalhaven and Charlotte County flows of 0.105 and 0.001 respectively). The estimated 2015 Base Population is 36,611. This equals approximately 40 gpcd. Using 2.4 people per household equates to an estimated flow of 96 GPD/ERC.

In developing a final flow rate, consideration was given to the anticipated areas of growth within the District. Several new developments have been identified that are zoned primarily single family residential, which would indicate that the reported household size of 2.4 may increase as

more families move into the area. As a conservative approach, the previously used 121 GPD/ERC will be applied for determination of future wastewater flows.

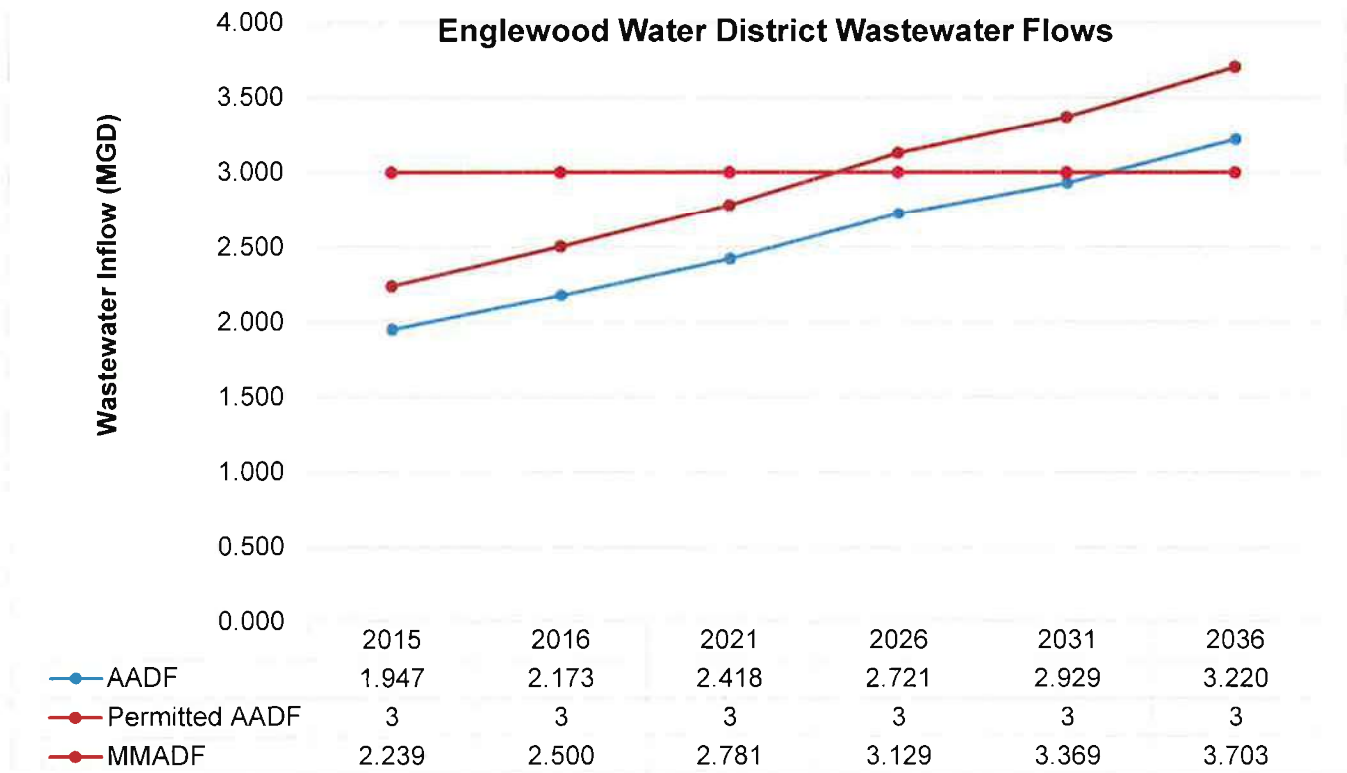
## 5.2 Future Wastewater Flow Projections

In addition to the areas within the District's service boundary, additional wastewater flows will be collected from Charlotte County and Utilities, Inc. of Sandalhaven. Charlotte County's original bulk sewer agreement was for 400,000 gpd, but has since been amended with no capacity limit. The Utilities, Inc. of Sandalhaven agreement with the District has an amended contract limit of 500,000 gpd, however at the time of this report have only paid for 300,000 gpd of capacity. Utilizing the population projections presented in Section 3.0 of this Report, the assumption of 2.4 people per household and 121GPD/ERC, and the established 1.15 ratio of 3-MMADF to AADF, Table 5.1 identifies the projected wastewater flows within the District, as well as incremental flows from Charlotte County and Sandalhaven.

**Table 5.1 Total Projected Wastewater Flows**

Year	Population (District Service Area)	ERC	Projected District Wastewater Flows (AADF) (MGD)	Charlotte County Allocation (MGD)	Sandalhaven Allocation (MGD)	Total Projected AADF (MGD)	Total Projected 3-MMADF (MGD)
2015	36,611	15255	1.846	0.001	0.1	1.947	2.239
2016	37,160	15483	1.873	0.1	0.2	2.173	2.500
2021	40,032	16680	2.018	0.1	0.3	2.418	2.781
2026	42,074	17531	2.121	0.2	0.4	2.721	3.129
2031	44,220	18425	2.229	0.3	0.4	2.929	3.369
2036	46,018	19174	2.320	0.4	0.5	3.220	3.703

Figure 5.1 Englewood Water District Projected Wastewater Flow



## 6.0 Allocation of Future Demands and Flows

As previously discussed, the District has identified several developments that are either currently under construction or are anticipated to begin construction within the 20-year planning horizon. Table 6.1 below identifies those developments, in addition to their estimated water demands and wastewater flows.

Table 6.1 New Developments and Projected Water Demands and Wastewater Flows

	Development	Water	Sewer	Proposed Units	Assumed Build-out % per 5 year Increments				Ultimate Water Demand (GPD)	Ultimate Wastewater Flow (GPD)
					0-5	5-10	10-15	15+		
1	Beachwalk Preserve	x	x	325	50%	50%			45,500	36,400
2	Boca Royale 12	x	x	142	100%				19,880	15,904
3	Boca Royale 13	x	x	120	100%				16,800	13,440
4	Boca Royale 14	x	x						0	0
5	Heritage Oaks Assisted Living	x	x	70	100%				9,800	7,840

6	Island Lake Estates	x	x	400	50%	50%			56,000	44,800
7	Japanese Gardens		x	414	100%				Currently Served	50,094
8	Keyway Place	x	x	35	100%				4,900	3,920
9	Korp Property (Boca Royale)	x	x	133	100%				18,620	14,896
10	Lemon Bay Apartments	x	x	64	100%				8,960	7,168
11	Myakka Pines	x	x	877				100%	Not Within Planning Horizon	
12	Park Forest 6B	x	x	31	100%				4,340	3,472
13	Park Forest 6C	x	x	39	100%				5,460	4,368
14	Park Forest 6D	x	x	11	100%				1,540	1,232
15	Park Forrest	x	x	53	50%	50%			7,420	5,936
16	Sandalhaven		x						0	0
17	Tromble Bay	x	x	72	50%	50%			10,080	8,064
18	V9-C		x	300	100%				42,000	33,600
19	Villages of Manasota Beach	x	x	1563	25%	25%	25%	25%	218,820	175,056
20	Winchester Lakes	x	x	169	25%	50%	25%		23,660	18,928
<b>Total ERC's</b>				<b>3,527</b>					493,780	395,024

Comparing the estimated 3,527 ERC's identified in Table 6.1 above to the estimated population increase identified in Section 3 of approximately 8,857 (approximately 3,691 ERC's at 2.4 pphh), it appears that adequate projections of future water supply demands and wastewater flows are provided for these developments.

## 7.0 Future Reuse and Reject Disposal

### 7.1 Reuse System

Through an existing 3.5 MGD annual average daily flow permitted capacity slow-rate public access system, the District supplies reclaimed water for irrigation to customers in accordance with the Florida Department of Environmental Protection (FDEP) permit number FLA014126-032 Land Application R-001. The reuse system consists of users within Southwest Sarasota and Northwest Charlotte Counties. The District provides reclaimed water to golf courses, a sports complex/recreational area, and a spray field within its service area. In addition, reclaimed water is provided to Charlotte County Utilities (CCU) where it is blended with reclaimed water produced by CCU and distributed within their reuse system.

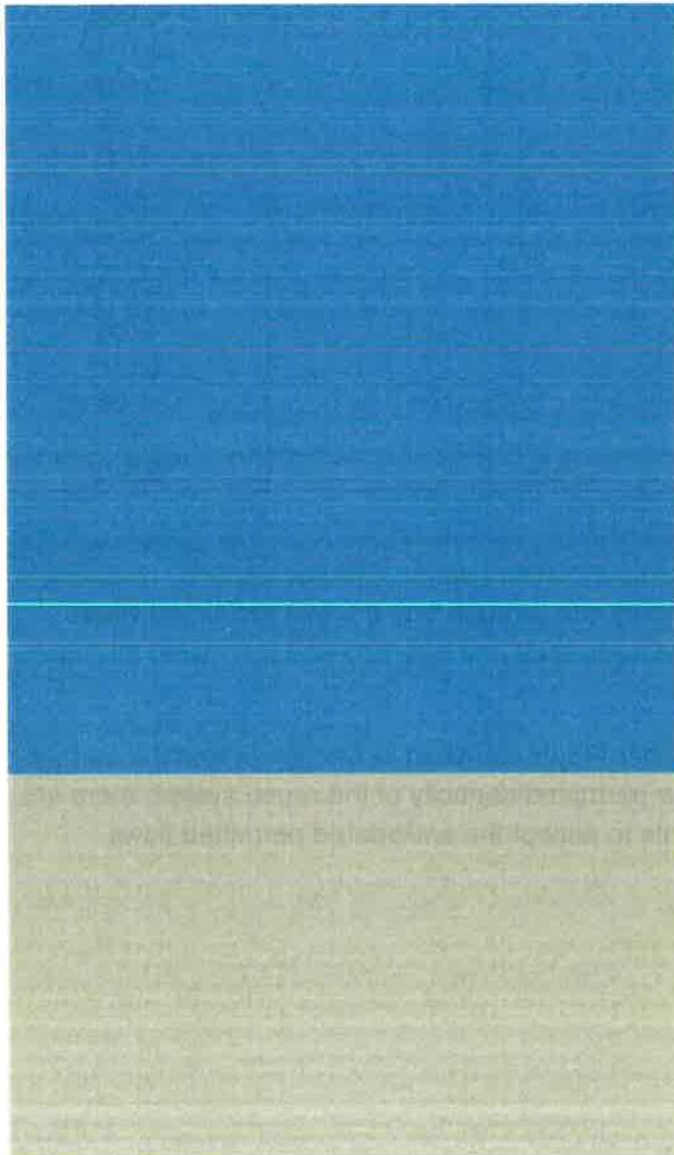
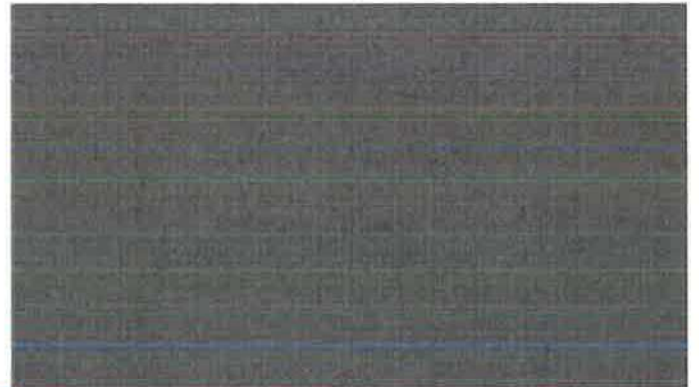
The following Table 7.1 identifies the reclaimed water customers and their associated capacity identified in the District FDEP Wastewater Permit.

**Table 7.1 Reclaimed Water Customers and Capacity**

Reclaimed Water Customer Name	Capacity (MGD)
Lemon Bay Golf Club	0.41
Myakka Pines Golf Course	0.33
Oyster Creek Golf Course	0.40
Charlotte Co. Utilities Interlocal (Rotunda)	0.38
Englewood Sports Complex	0.27
Spray Irrigation at the EWD WRF	0.36
Boca Royale Golf Club	0.40
Gran Paradiso	0.60
Oak Forest	0.07
Foxwood	0.065
Lemon Bay High School	0.019
Oyster Creek Regional Park	0.015
Park Forest Phase I	0.05
Park Forest Phase II	0.05
Park Forest Phase III	0.05
Park Forest Phase IV	0.05
Park Forest Phase V	0.03
Stillwater I and II	0.012
Stillwater III and IV	0.06
Handi Phil	0.001
SITC Inc. (TrustCo Bank Plaza)	0.01
Wal-mart	0.011
<b>Total Reuse Commitments</b>	<b>3.643</b>

It is the District's goal to utilize 100 percent of its reclaimed water. Storage capacity is available within the reuse system at the wastewater facility site through one 3.6 MG reclaimed water storage pond, one 1.0 MG reclaimed water storage tank and one 220-MG (permitted storage) aquifer storage and recovery (ASR) well.

Based on the District's Total Project Wastewater Flows identified in Section 5, and the current permitted 3.5 MGD annual average daily flow permitted capacity of the reuse system there are enough existing reclaimed water commitments to accept the anticipated permitted flows.



# A

## Appendix A – SWFWMD Worksheet B – Service Area Summary



## Worksheet B: Service Area Summary

Page 1 of 3

Permittee Name: Englewood Water District

Permit Number(s): 20 004866-010

Service Area Name: Englewood Water District

Census Data Year: 2010

Year of Interest: 2016

Data Entry Required in Solid Bordered Cells	
Calculated Output in Dashed Bordered Cells	
Optional Survey Data Entry in Double Outlined Cells	

### 1. Service Area Residential Housing Account Data Required (From Worksheet A)

Residential  
Account  
Housing Units  
Year of  
Interest

**RESUNITS**

18750

From 2015 PSAR

### 2. Census Data Required for All Census Blocks in Service Area (From Worksheet C)

Sum of Census Population in House- Holds	Sum of Census House- Holds	Sum of Group Quarters Population	Sum of Total Housing Units
CPOPNNH	CHH	CGRUPPOP	CHOUSUNITS
25912	13594	118	20034

### 3. Permanent Resident Persons/Household (PERMPPH) - Choose One Only

		Optional Ap- proved Survey Method
	Census <b>PERMPPH</b>	<b>PERMPPH</b>
(CPOPNNH/CHH) =	1.91 1.94	

### 4. Seasonal Resident Persons Per Household (SEASPPH) - Choose One Only

	Optional Ap- proved Survey Method
Default <b>SEASPPH</b>	<b>SEASPPH</b>
1.95	

**Worksheet B: Service Area Summary Worksheet (Cont'd)**

Page 2 of 3

Permittee Name: Englewood Water District  
Permit Number(s): 20 004866 010  
Service Area Name: Englewood Water District  
Census Data Year: 2010  
Year of Interest: 2016

**5. Service Area Peak Seasonal Resident Ratio (SEASRR)**

(From Worksheet D Part 1)

SEASRR

(not required if using survey data)

1.21

**6. Calculation of Service Area Census Year Seasonal Households (SEASHH)**

(not required if using survey data)

SEASHH

((SEASRR - 1) x CPOPNNH) / SEASPPH =

2790.53

**7. Calculation of Seasonal Households to Total Households Ratio (SEAS/TOTHH)**Optional Ap-  
proved Survey  
Method

SEASHH / (CHH + SEASHH) =

SEAS/TOTHH

or

SEAS/TOTHH

0.170314925

**8. Calculation of Seasonal Resident Peak Population - Yr. of Interest (SEASPKPOP)**

SEASPKPOP

RESUNITS x SEAS/TOTHH x SEASPPH =

6227.13945

**9. Calculation of Permanent Resident Population for Yr. of Interest (PERMPOP)**

PERMPOP

(1 - SEAS/TOTHH) x RESUNITS x PERMPPH =

29713.09674

**10. Seasonal Proportional Residence Time (SEASPROP)**

Beach Destination County	or Non-Beach Destination County	or Optional Approved Survey Method
Default=0.442	Default=0.567	

SEASPROP SEASPROP SEASPROP

0.442

**Worksheet B: Service Area Summary (Cont'd)**

Page 3 of 3

Permittee Name: Englewood Water District  
Permit Number(s): 20 004866-010  
Service Area Name: Englewood Water District  
Census Data Year: 2010  
Year of Interest: 2016

**11. Calculation of Seasonal Resident Adjustment Factor (SEASADJ)**

$$((\text{SEASPROP} \times 132) + ((1 - \text{SEASPROP}) \times (132 - 69.3))) / 132 = \text{SEASADJ}$$

0.70705

**12. Calculation of Functional Seasonal Resident Population for Year of Interest (FSEASPOP)**

$$\text{SEASPKPOP} \times \text{SEASADJ} = \text{FSEASPOP}$$

4402.898948

**13. Calculation of Group Quarters Population for Year of Interest (GRUPPOP)**

$$(\text{CGRUPPOP} / \text{CHOUSUNITS}) \times \text{RESUNITS} = \text{GRUPPOP}$$

110.4372567

**14. Calculation of Total Required Functional Population for Year of Interest (REQPOP)**

$$\text{PERMPOP} + \text{FSEASPOP} + \text{GRUPPOP} = \text{REQPOP}$$

34,226.43

**15. Optional Total Functional Tourist Population for Year of Interest (FTOURPOP)**

Must include documentation of sources and calculations

(From Worksheet G)

FTOURPOP  
1131.5295

**16. Optional Functional Net Commuter Population for Year of Interest (FNETCOM)**

(From Worksheet I)

FNETCOM


Total Required and Optional Functional Service Area Population  
For the Year of Interest = REQPOP + FTOURPOP + FNETCOM =

35,357.96



# B

## Appendix B – SWFWMD 2015 Public Supply Annual Report for the Englewood Water District





2601 Cattleman Drive  
Sarasota, FL 34232  
941.342.2700

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# Southwest Florida Water Management District

## 2015 Public Supply Annual Report – PART A

### For Individual Permits Over 100,000 GPD Annual Average Quantities

Please submit water use information for January 1 – December 31, 2015. Completion of this form plus providing the required attachments and documentation is required as a condition on your Water Use Permit. Requirements are given in detail in Section 4.4.4.2 of Part B of the WUP Applicant's Handbook.

<b>WUP No(s):</b> 4866.009		<b>Reporting period (mo/yr-mo/yr):</b> 01/15-12/15	
<b>Issue Date (of the most recent revision of the WUP):</b> 12/18/2009		<b>Contact Phone #:</b>	
<b>Permittee Name:</b> Englewood Water District		<b>Contact Name:</b>	
<b>Address:</b> 201 Selma Avenue, Englewood FL 34223		<b>County:</b> Sarasota	

	Equation Component	WATER USE CATEGORY	Annual Average Quantity
1	WD	<b>Total Withdrawals</b> ground water, surface water and stormwater. Attach meter readings and pumpage from 1/1/2015 through 12/31/2015.	3,426,019 gpd
2	IM	<b>Imported Water</b> Supply itemized list of quantities per supplier. If applicable, include the WUP number (CUP No.) of each supplier listed.	0 gpd
3	EX	<b>Exported Water</b> Supply itemized list of quantities per receiver. If applicable, include the WUP number (CUP No.) of each receiver listed.	143,140 gpd
4	TL	<b>Water Treatment Loss</b> (Provide documentation of each type claimed.)	827,019 gpd
5	<b>Gross Water Use: WD + IM – EX – TL</b>		2,455,860 gpd
6	FP	<b>Functional Population Served</b> (Supply Supporting Calculations, see instructions.)	38,071 # people
7	<b>Unadjusted Gross Per Capita = <math>\frac{(WD + IM - EX - TL)}{FP}</math></b>		65 = 69.5 gpcd
8	SU	<b>Significant Uses</b> Provide documentation of deductions as required in the Basis of Review and Attach Part C to summarize significant uses.	0 gpd
9	GC	<b>Golf Course Deduction</b> (See definitions for requirements and limitations.)	649,140 gpd
10	EM	<b>Environmental Mitigation</b> if required by the District per your water use permit (attach documentation of quantities used).	0 gpd
11	<b>Adjusted Gross Per Capita = <math>\frac{(WD + IM - EX - TL - SU - GC - EM)}{FP}</math></b>		47 gpcd
12	ST	<b>Stormwater Deduction</b> (See definitions for requirements and limitations.)	0 gpd
13	RW	<b>Reclaimed Water Deduction</b> (See definitions for requirements and limitations.)	4,861 gpd
14	<b>Compliance Per Capita = <math>\frac{(WD + IM - EX - TL - SU - GC - EM - ST - RW)}{FP}</math></b>		47 gpcd
15	<b>Low Persons Per Household Adjusted Population and Compliance Per Capita</b> (See definitions for requirements and limitations.) (Additional supporting calculations must be provided, see instructions.)		# people gpcd
16	<b>Water Rate Structure and Customer Billing Information:</b> Attach a description of your current water rate structure and customer billing information.		<input checked="" type="checkbox"/> Attached
17	<b>Per Capita Noncompliance Report:</b> A report explaining why a utility had a Compliance Per Capita rate greater than 150 gpd. The report shall describe measures currently used and proposed to bring the Compliance Per Capita rate to $\leq$ 150 gpd.		<input type="checkbox"/> Attached <input checked="" type="checkbox"/> N/A
18	<b>Water Audit:</b> Attach a description of any ongoing audit program to address reductions in water losses. If the total water loss rate (reported on Part B) is more than 10 % of the total distribution quantities, a water audit (as described in Section 4.4.8 of Part B of the WUP Applicant's Handbook) shall be conducted and submitted by the following October 1.		<input type="checkbox"/> Attached <input type="checkbox"/> N/A <input type="checkbox"/> Will submit results by following October 1
19	<b>Service Area Map:</b> If your service area has changed (see instructions), submit a map or file, which shows the current service area as defined in the Basis of Review, Part B, Chapter 2 and complete attached service area information forms.		<input type="checkbox"/> Attached <input checked="" type="checkbox"/> Unchanged



**Instructions regarding Per Capita:** Only complete the per capita calculations that show a per capita rate of 150 gpd or less. If this is at the Unadjusted Gross Per Capita, the Adjusted Gross Per Capita does not have to be calculated. If the Adjusted Gross Per Capita rate is 150 gpd or less, then the Compliance Per Capita does not have to be calculated.

**WD – Raw Water Pumpage:** Annual average gallons per day ground water, surface water and stormwater withdrawals as metered at the wellhead(s), wellfield's departure point, or surface water intake facility.

**Imported Water:** Annual average water imported or purchased from other supplier(s). Irrigation water, excluding reclaimed water, provided to the applicant's service area by a separate utility shall be counted as imported water.

**Exported Water:** Annual average gallons per day of water transferred in bulk quantities from your utility to other potable water suppliers. Determine quantities at the departure point from your service area.

**Water Treatment Loss:** Annual average gallons per day which are lost in routine treatment for potability. Examples of treatment loss types are desalination reject, membrane cleaning and sand filtration backwash. Treatment losses are calculated as raw water into the plant minus treated water out of the plant. In addition, no more than 1% of treated water volume delivered to the distribution system for flushing distribution lines for potability may be deducted. Treated water volume delivered to the distribution system includes water from withdrawals plus imports, minus exports, minus treatment losses. Treatment loss and line flushing quantities shall be separately calculated and documented.

**Functional Population:** The served permanent population as adjusted by the seasonal resident, tourist, group quarters and net commuter population within a utility's service area as determined in accordance with "Requirements for the Estimation of Permanent and Temporal Service Area Populations," dated January 1, 2007, as set forth in Part D of the WUP Applicant's Handbook.

**Significant Uses:** Note: Whether or not any single significant use is deducted, all single significant uses must be reported as provided in the "SU" section, Part C, of the Per Capita section of the Annual Report.

There are five options: **A:** Single Significant Use; **B:** District-Wide Percent I/C Use; **C:** Combined Regional Government and Higher Education Facilities; **D:** Individual Regional Health Facilities; **E:** Individual Industrial/Commercial Facilities Where Water Is the Primary Ingredient or Final Product. Definitions and exclusions of each type are given in Section 2.4.8.3 of Part B of the WUP Applicant's Handbook. [http://www.swfwmd.state.fl.us/files/database/site\\_file\\_sets/14/wup\\_part\\_b\\_-\\_WUP\\_Applicant's\\_Handbook.pdf](http://www.swfwmd.state.fl.us/files/database/site_file_sets/14/wup_part_b_-_WUP_Applicant's_Handbook.pdf)

**Environmental Mitigation Use:** Annual average quantities used by a utility to mitigate withdrawal-related stress to a specified environmental feature as required by the utility's Water Use Permit (WUP).

**Golf Course Deduction:** Separately metered golf course irrigation quantities from ground water, surface water, reclaimed water or stormwater provided to golf courses inside the service area. The quantities provided may be deducted only if they are included in the permitted quantities for the service area and reported as withdrawals (WD) in the Annual Report. The "GC" withdrawal quantities deducted shall not exceed those actually provided, or those that would be permitted for use by the District, whichever is less.

**Reclaimed Water Deduction:** 50% of reclaimed water that has received at least secondary treatment and is provided as reclaimed water for a beneficial purpose as set forth in Section 2.1 of Part B of the WUP Applicant's Handbook 1. To be deducted, it must be provided to:

- a. any metered use located outside the utility potable service area boundary,
- b. any single-site separately-metered use within the utility potable service area boundary that uses 25,000 gallons per day or more on an annual average basis during the per capita reporting period, except that no deduction shall be taken for quantities used for residential irrigation (single family, multi-family or mobile home) or for common area irrigation, including entranceways, parking lots, irrigated areas within roadway right-of ways (e.g., road and sidewalk medians), open spaces, community areas, and public parks. This deduction shall not be taken if the reclaimed water replaces existing demand on the permittee's potable system.

**Stormwater Deduction:** Separately metered and reported stormwater quantities captured by the permittee that are included in the utility's permitted quantities for uses inside the service area other than for golf course irrigation. The stormwater withdrawal quantities deducted shall not exceed the quantities actually provided, or those that would be permitted for the use by the District, whichever is less. Stormwater quantities deducted as golf course (GC) use above may not be included in this deduction for stormwater. The surface withdrawal points from the stormwater catchments shall be permitted on the provider's water use permit and must be reported as withdrawals in the Annual Report to be deducted. The stormwater deduction shall not be taken where the quality of the ground water source to be permitted or replaced is of lower water quality but is suitable for the intended use, unless the use of the stormwater in such cases reduces adverse impact to the water resources.

**Service Area Map:** Please review the public supply service area maps currently in the District's Geographic Information System (GIS) to determine if updating is necessary. Make any changes relative to the existing boundaries in the District's layer and complete the service area information forms attached. If updating is not necessary, please indicate so. Maps may be downloaded from the 'Utility Demographics Resources' section of <http://www.swfwmd.state.fl.us/data/demographics/> or simply viewed using the "Map Viewer."

**Low Persons Per Household Adjustments:** After completing all of the per capita calculations, if the per capita rate is still greater than 150 gallons per day and the service area Census persons per household is below 2.01 (calculated as PERMPPH in Part D of the Water User Permit Information Manual), then the applicant may adjust the PERMPPH and SEASPPH to a value of 2.01 and recalculate the Functional Population and the compliance per capita. Supplemental Documentation must be provided for all calculations in accordance with "Requirements for the Estimation of Permanent and Temporal Service Area Populations," dated January 1, 2007, as set forth in Part D of the WUP Applicant's Handbook.

**Southwest Florida Water Management District**  
**2015 Public Supply Annual Report – PART B**  
**For Individual Permits Over 100,000 GPD Annual Average Quantities**

Please submit water use information for January 1 – December 31, 2015.

<b>WUP No(s):</b> 4866.009	<b>Reporting period (mo/yr-mo/yr):</b> 01/15-12/15
<b>Permittee Name:</b> Englewood Water District	<b>Contact Name:</b>
<b>Address:</b> 201 Selma Avenue, Englewood FL 34223	<b>County:</b> Sarasota

**SERVICE CATEGORIES:** Quantities to be reported are **annual average gallons per day** (total number of gallons supplied per reporting period, divided by 365 days per year) and are to include both indoor and outdoor use, whether separately metered or not. On a separate sheet, permittees are to document the methodology used to determine the number of dwelling units by type and their quantities used. Estimates of water use based on meter size will not be accepted. When using "Requirements for the Estimation of Permanent and Temporal Service Area Populations," dated January 1, 2007, as set forth in Part D of the Water Use Permit Information Manual, total dwelling units served from Basis of Review Appendix C, Worksheet A must equal the total units reported below in line 5.

Residential Water Service Category	Number of Dwelling Units	Number of Metered Connections	Annual Average (gpd)	% of Total	Documentation on an Attached Sheet
1. Single Family Dwelling Units	15,824	15,824	1,550,468	63.13%	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2. Multiple Family Dwelling Units	2,926	403	345,082	14.05%	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3. Mobile Home Dwelling Units	0	0	0	0.00%	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
4. Residential Irrigation Accounts	N/A	65	277,576	11.30%	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5. Subtotal of Residential Service	18,750	16,292	2,173,126	88.49%	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Non-Residential Water Service Category		Number of Metered Connections	Annual Average Gallons Per Day	% of Total	
6. Industrial/Commercial Uses		1,047	334,139	13.61%	
7. Agricultural Uses		0	0	0.00%	
8. Recreational/Aesthetic Uses		56	1,094	0.04%	
9. Golf Course Irrigation		0	0	0.00%	
10. Fire and Other Accounted Uses		98	84	0.00%	
11. SUBTOTAL (Add items 5 through 10)		17,493	2,508,443	102.14%	
12. Water Loss			-52,583	-2.14%	
TOTAL (Add items 11 and 12)( = line 5 on Part A)			2,455,860	100.00%	

## Definitions for Part B:

**Note:** Utilities serving municipalities shall provide dwelling unit, use, and connection data for all accounts regardless of whether they are categorized as "inside" or "outside" city for rate purposes. Dwelling units that are intended as public accommodations shall not be included in dwelling unit counts if they are also used in the calculation of tourist population.

**Single Family Dwelling Units:** These are single, detached dwelling units intended for private residential use, whether individually or master-metered. If the utility categorizes mobile homes or duplexes as single family dwelling units that is acceptable if noted and they are not counted in other dwelling unit categories. Provide the number of single family units served (not accounts/connections) and the number of metered connections serving these units.

**Multiple Family Dwelling Units:** These are attached dwelling units in structures containing two or more residences, whether individually or master-metered. Provide the number of dwelling units served (not accounts/connections) and the number of metered connections serving these units. If the utility categorizes mobile homes as multi-family units, that is acceptable if noted and they are not counted in other dwelling unit categories. Data associated with multifamily dwelling units such as water use and metered connections must be reported as residential, even though classified as commercial by the utility.

**Mobile Home Dwelling Units:** Dwelling units capable of being moved from one location to another. This excludes manufactured or prefabricated housing that are not intended to be moved. If mobile homes are counted as single family dwelling units by your utility, they can be included under the single family dwelling unit category, but not both mobile home and single family. Mobile homes can be counted as multiple family dwelling units if so categorized by your utility, but not both mobile home and multiple family. Please note how mobile homes are being categorized if other than in the mobile home category.

**Indoor/Outdoor Residential Use:** Most residential water use is not metered separately for a customer's indoor and outdoor use. Thus, the metered water quantities on the single or master meter will include both use types. However, if there is a separate meter for outdoor use (irrigation water for associated lawn and ornamentals) for any type of dwelling unit, that "outdoor" quantity is to be documented under the residential irrigation accounts water use.

**Industrial/Commercial Use:** Include retail/wholesale, manufacturing, processing, government buildings, libraries, airports, universities, and other such accounts in this category. Permittees are not to include multi-family connections that are classified internally as commercial accounts in this category; rather, these are to be counted in the Multiple Family Dwelling Units category, and the number of dwelling units provided. Include lawn & landscape irrigation quantities associated with this category.

**Agricultural Use:** Provision of water for the irrigation of hay fields, row crops, citrus, etc., or other agricultural use. This does not include quantities associated with irrigation of a lawn that is connected with a residential account or irrigation of grounds associated with multiple family or mobile home dwelling units.

**Recreational/Aesthetic Use:** Provision of separately metered water for the irrigation of commercial entities, parks, theme parks (water parks, recreational attractions), aquariums or other use for recreational purposes or for visual enhancement (excluding the irrigation for golf courses and associated clubhouse grounds). Note: irrigation accounts associated with residential development use should be counted in the appropriate residential category.

**Golf Course Irrigation:** Provision of separately metered water for the irrigation of golf courses and associated clubhouse grounds.

**Water Loss:** The total water system output minus all accounted uses. Water losses include: leakage associated with transmission and distribution mains, overflow and leakage from storage tanks, leakage near service connections, illegal connections, flushing of distribution lines in excess of 1% of the total distribution volume delivered to the distribution system, unmeasured flows associated with fire suppression, as well as un-metered system testing, under-registration of meters, and other discrepancies between the metered amount of finished water output from the treatment plant less the metered amounts specified herein.

See Section 4.4.4.2 of Part B of the WUP Applicants Handbook for complete definitions.

# Southwest Florida Water Management District

## 2015 Public Supply Annual Report – PART C

### For Individual Permits Over 100,000 GPD Annual Average Quantities

#### Significant Water Use Deductions

Permittees may deduct non-residential significant uses from their Gross Water Use (Line 5 on Part A) if documentation, appropriate water audits, and conservation plans are submitted. Several types of significant uses can be used; however, there are combinations that are disallowed. See Section 2.4.8.3.1 of Part B of the WUP Applicant's Handbook for expanded explanations of deductions allowed. Information to assist the Permittee is given in italics on this form.

**Exclusions:** *Water supplied for the following may not be included in significant use deductions:*

1. *Service Area population-related water uses such as irrigation of common areas, parks, residential lawn and landscape irrigation.*
2. *Golf course irrigation and multi-family residential use, even if classified by the utility as commercial customers.*

**Quantities** referred to in this form are standard annual average daily quantities. These are total gallons in a calendar year divided by 365 days/year. All quantity information requested in this form should be shown in gallons per day (gpd) for the previous calendar year.

WUP No(s): 4866.009

Permittee Name: Englewood Water District

#### **TYPE A - SINGLE SIGNIFICANT USE**

A single industrial/commercial (I/C) facility or other non-residential, non-governmental facility that is supplied with greater than or equal to 25,000 gpd of water annually or a quantity equal to 5% or more of the utility's calendar year annual average use. Either the 25,000 gpd criteria or the 5% criteria may be chosen, but not both. The facility may consist of one or more buildings under common ownership, maintenance and management control at a single site or campus. However, buildings that are not related under common ownership, maintenance, and management control cannot be combined to meet a single significant use threshold.

**Exclusion:** This deduction cannot be taken with **Type B** or if **net commuter population** is included in the calculation of Functional Population.

☒ This type of significant use deduction is not being taken. **Skip to Type B.**

1. Indicate the criteria used: ☐ 25,000 gpd criteria ☐ 5% criteria
2. Complete the chart below. Meter readings or copies of bills that show the gallons supplied are required.

Name of User	Contact Person	Email Address	Telephone	Annual Average Quantities Provided (gpd)
Total				0 gpd

☐ Meter readings attached

☐ Copies of bills attached

3. **Water Conservation Plan:** Attach a water conservation plan developed by this utility and the user that describes the specific water conservation programs for each user. ☐ Attached

4. **Water Audit:** Attach a separate water audit for each significant user listed above that documents the type(s) of water uses that occur within the significant user's facility, quantities used per type, leak detection and other water conservation activities undertaken by the user. ☐ Attached

**Public Supply Annual Report for General and Individual Permits Part C: Significant Water Use Deductions**

**TYPE B - DISTRICT-WIDE PERCENT I/C USE**

Utilities with a large number of smaller I/C uses (below the thresholds set in A, above) may combine these smaller uses and compare their I/C use with the District-wide, three-year average percent I/C use. The calculations are given below in the chart. The District-wide, three-year average I/C use percent is available from the District at

<http://www.swfwmd.state.fl.us/data/demographics>.

**Exclusions:** This deduction cannot be taken with **Type A, C, D, or E** or if **net commuter population** is included in the calculation of Functional Population.

☐ This type of significant use deduction is not being taken. **Skip to TYPE C.**

- Please complete the chart below for the previous calendar year and submit documentation of the actual quantities supplied to each I/C customer included in the total. You may use an Excel spreadsheet for this instead; however, I/C uses must be accounted for by meter size and number of connections.

I/C Use (gpd)	Meter size (inches)	Number of connections
	5/8	
	5/8 x 3/4	
	3/4	
	1	
	1.5	
	2	
	3	
	4	
	6	
	8	
	10	
	12	
	Other =	

- |    |                      |  |
|----|----------------------|--|
| a. | 0 gpd                | Sum your total actual use for I/C.   |
| b. | 2,455,860 gpd        | Gross Water Use (Line 5 in Part A).  |
| c. | (a ÷ b) x 100 0.00 % | This is your percent I/C use.  |
| d. | %                    | District 3-yr. average I/C % Use (years referenced: _____, _____, _____).        |
| e. | (c - d) 0.00 %       | This is the difference between your I/C use and the District three-year average. |

If the number in **e.** is positive, you have an eligible deduction; continue to **f.** If the number is negative, you do not have an eligible deduction.

- |    |               |                              |
|----|---------------|------------------------------|
| f. | (e x b) 0 gpd | This is the deduction total. |
|----|---------------|------------------------------|

- Water Conservation Plan:** Group the types of I/C uses into similar business types and submit a water conservation plan for each group that shows the water conserving activities that have been required of your I/C customers.  
☐ Attached

**TYPE C - COMBINED REGIONAL GOVERNMENT AND HIGHER EDUCATION FACILITIES**

*This deduction is applicable to water quantities provided to regional, state and federal government administrative and maintenance facilities and to public or private college and universities located within your service area that also serve persons who live outside your service area. Water quantities for K-through-12 schools that do not serve any of the service area population may be deducted by the applicant. The facilities may consist of one or more buildings under common ownership, maintenance and management. Both governmental and educational facilities may be deducted.*

**Exclusions:** This deduction cannot be taken with **Type B** or if **net commuter population** is included in the calculation of Functional Population.

☒ This type of significant use deduction is not being taken. **Skip to TYPE D.**

1. Please provide the following information for the previous calendar year:

Name of Facility	Contact Person / Address / Telephone Number	GPD Provided*

\* Provide documentation such as meter or billing information

2. Complete the calculation table below:

- a.  gpd Sum the GPD provided in the table above.
- b.  % From the most recent U.S. Census for your county, calculate the percent of the permanent county population **not** living in your service area.
- c.  0 gpd This is your deduction.

3. **Water Conservation Plan:** Attach a water conservation plan specific to each use type that shows the water conserving activities that have been required. ☐ Attached

**TYPE D - INDIVIDUAL REGIONAL HEALTH FACILITIES**

*This deduction is applicable to water quantities provided to regional hospitals or specialty clinics located within your service area that also serve persons who live outside your service area. The regional health facilities may consist of one or more buildings at a single site or campus.*

**Exclusions:** This deduction cannot be taken with **Type B** or if **net commuter population** is included in the calculation of Functional Population.

☒ This type of significant use deduction is not being taken. **Skip to TYPE E.**



**Public Supply Annual Report for General and Individual Permits Part C: Significant Water Use Deductions**

1. Please list the facility and provide the full name, mailing address, telephone number, and contact person name for the facilities included in this type of significant use deduction. For each facility included, show the gpd provided for each major type of water use within the facility (e.g., potable [including cafeteria], cleaning, etc.)

List Ref.	Name of Facility	Contact Person Address / Telephone	Type of Water Use	GPD Provided for the Use*
1.				
2.				
3.				
4.				

\* Documentation required.

2. Complete the table below with information for the previous calendar year. Use "List Ref." to associate the two tables. Documentation of gallons provided must be attached.

A	B	C	D	E	F
List Ref.	Total Number of Patients	Number of Patients w/ Postal Zip Code Outside Service Area	Divide Col. C by Col. B	Total GPD (sum each use type from the table above)	Multiply Col. E by Col. D (This is the gpd deduction for the referenced facility.)
1.				0	0
2.				0	0
3.				0	0
4.				0	0
				0 Total	0 gpd

The total of Column F may be deducted from the Gross Water Use (line 5 in Part A).

3. **Water Conservation Plan:** Attach a water conservation plan developed by this utility and the user that describes the specific water conservation programs for each user. ☐ Attached
4. **Water Audit:** Attach a separate water audit for each health facility significant user listed above that documents the type(s) of water uses that occur within the significant user's facility, quantities used per type, leak detection and other water conservation activities undertaken by the user. ☐ Attached

**TYPE E - INDIVIDUAL I/C FACILITIES WHERE WATER IS THE PRIMARY INGREDIENT OF THE FINAL PRODUCT**

100% of the water contained in the product for brewers, soft-drink bottlers, juice reconstitution plants, and/or bottled water plants may be deducted. Provide meter readings for water quantities provided or copies of bills that quantify gallons provided for the previous year.

**Exclusion:** This deduction cannot be taken with **Type B**.

☐ This type of significant use deduction is not being taken.

1. If this type of significant use is being taken, please provide the following:

a. **Name of Facility:** \_\_\_\_\_

(1) Type of Facility: \_\_\_\_\_

(2) Address: \_\_\_\_\_

(3) Contact Person and telephone number: \_\_\_\_\_

(4) GPD provided for the previous calendar year\*: \_\_\_\_\_

\* Documentation required. ☐ Attached

(5) Percent\*\* of water included in the final product = \_\_\_\_\_%

\*\* Attach a statement from the facility substantiating this percent. ☐ Attached

(6) Allowable deduction: Multiply (4) times (5) = 0 gpd

b. **Name of Facility:** \_\_\_\_\_

(1) Type of Facility: \_\_\_\_\_

(2) Address: \_\_\_\_\_

(3) Contact Person and telephone number: \_\_\_\_\_

(4) GPD provided for the previous calendar year\*: \_\_\_\_\_

\* Documentation required. ☐ Attached

(5) Percent\*\* of water included in the final product = \_\_\_\_\_%

\*\* Attach a statement from the facility substantiating this percent. ☐ Attached

(6) Allowable deduction: Multiply (4) times (5) = 0 gpd

2. Add the gpd in rows (6) (above and on copies of this page) for the **total deduction:** 0 gpd

3. **Water Conservation Plan:** Attach a water conservation plan developed by this utility and the user that describes the specific water conservation programs for each user. ☐ Attached

4. **Water Audit:** Attach a separate water audit for each significant user listed above that documents the type(s) of water uses that occur within the significant user's facility, quantities used per type, leak detection and other water conservation activities undertaken by the user. ☐ Attached

**Southwest Florida Water Management District**  
**2015 Public Supply Annual Report – PART D**  
**For Individual Permits Over 100,000 GPD Annual Average Quantities**

**Providers of Alternative Water Supplies Other Than Reclaimed Water**

Please submit information for January 1 – December 31, 2015. For all information requested, if you need more room, you may copy the appropriate page.

<b>WUP No(s):</b> 4866.009
<b>Permittee Name:</b> Englewood Water District

1. ☐ Check here if you do not provide AWS other than reclaimed water to customers and do not complete this form.
2. **Customer information:** Please complete **TABLE I**, below with information on the AWS other than reclaimed water quantities supplied to bulk customers (entities under a single management company) for non-potable use. If the flow is not metered, leave the meter ownership unchecked, and on an attachment describe how the quantities are calculated for billing purposes.

**TABLE I**

Customer (Account) Name				
Type of AWS* Provided				
Contact Person				
Customer WUP No.				
Customer Address				
County				
Telephone No.				
Month/Year First Served				
Meter Ownership	<input type="checkbox"/> utility <input type="checkbox"/> customer	<input type="checkbox"/> utility <input type="checkbox"/> customer	<input type="checkbox"/> utility <input type="checkbox"/> customer	<input type="checkbox"/> utility <input type="checkbox"/> customer
Customer Meter Location**				
Latitude/Longitude				
Pressurized (P) or Non Pressurized (NP)				
Rate Charged per 1,000 gallons or Flat Fee				
Interruptible Service (Y/N)				
Proposed Annual Flow (gpd)				

\* Types of AWS include stormwater stored in an impoundment or catchment basin (ST), ~~desalinated~~ brackish water (DBR), desalinated seawater (DSEA), and aquifer storage and recovery (ASR).

\*\* Degrees, minutes, seconds. The latitude and longitude can be obtained from a map where the latitude and longitude is annotated in the margins. (A GPS device does not have to be used.)

**Public Supply Annual Report for General and Individual Permits Part D: Significant Water Use Deductions**

3. Complete **TABLE II** below with actual flow quantity information for each customer listed in TABLE I. Attach actual meter readings of quantities of reclaimed water delivered each month during 2015.

**TABLE II**

Gallons Supplied				
Customer Name				
Customer's Use*				
January				
February				
March				
April				
May				
June				
July				
August				
September				
October				
November				
December				
Total Gallons	0	0	0	0
Divide by 365 for Annual gpd	0 gpd	0 gpd	0 gpd	0 gpd

\* Customer's Use: Provide information on the categories of use (R for Residential irrigation (bulk metered developments); C or Commercial; RA for Recreation/Aesthetic irrigation; M for Mining; and A for Agriculture) and the customer's stated use for the water (such as irrigation).

4. Attach a map depicting the Area of Alternative Use Service. This map should include any areas projected to be added within the next year, if possible. ☐ Attached

**Southwest Florida Water Management District**  
**2015 Public Supply Annual Report – PART E**  
**For Individual Permits Over 100,000 GPD Annual Average Quantities**

### Suppliers of Reclaimed Water Report

This form is only for Permittees that have a wastewater treatment facility with an annual average design capacity less than 100,000 gpd. Such Permittees may opt to complete the "SWFWMD Annual Reclaimed Water Supplier Report," Form No. LEG-R.026.00, which is an excel spreadsheet and for which information is required for a fiscal year. On this form, submit information for January 1 – December 31, 2015. For all information requested, if you need more room, you may copy the appropriate page.

**WUP No(s):** 4866.009

**Permittee Name:** Englewood Water District

- 1. Bulk customer information:** Please complete **TABLE I**, below with information on your bulk reclaimed water customers. Because your customer may go by a name different from what may be on their Water Use Permit (WUP), please ask them for their WUP number. If they do not have one, put N/A in that space. Provide information on the major category of use (R for Residential irrigation (bulk metered developments); C for Commercial; RA for Recreation/Aesthetic irrigation; M for Mining; and A for Agriculture) and the customer's stated use for the water (such as irrigation). Give the month and year service was first provided, the diameter of your line, ownership of the meter, whether it is pressurized or free-flowing, and the location where your line enters the customer's property (latitude and longitude or a number referenced to map).

**TABLE I**

<b>Customer (Account) Name</b>				
<b>Contact Person</b>				
<b>WUP No.</b>				
<b>Customer Address</b>				
<b>Telephone No.</b>				
<b>Use Category (R, C, RA, M or A)</b>				
<b>Month/Year First Served</b>				
<b>Line Size</b>				
<b>Meter Ownership Information</b>	<input type="checkbox"/> utility <input type="checkbox"/> customer	<input type="checkbox"/> utility <input type="checkbox"/> customer	<input type="checkbox"/> utility <input type="checkbox"/> customer	<input type="checkbox"/> utility <input type="checkbox"/> customer
<b>Meter Location</b>				
<b>Pressurized (P) or Non Pressurized (NP)</b>				

## Public Supply Annual Report Part E: Suppliers of Reclaimed Water

### For Individual Permits greater than 100,000 gpd

2. **MONTHLY ACTUAL FLOW:** Complete **TABLE II** below with quantity information for each customer listed in TABLE I. Attach actual meter readings of quantities of reclaimed water delivered each month during 2015.

**TABLE II**

Gallons Supplied				
Customer Name				
January				
February				
March				
April				
May				
June				
July				
August				
September				
October				
November				
December				
Total Gallons	0	0	0	0
Divide by 365 for gpd	0 gpd	0 gpd	0 gpd	0 gpd



3. **Residential Irrigation:** In **TABLE III**, please summarize monthly gallons per day information on quantities of reclaimed water provided for residential irrigation within your service area where the individual residence is metered.

**TABLE III**

January	February	March	April	May	June
gpd	gpd	gpd	gpd	gpd	gpd
July	August	September	October	November	December
gpd	gpd	gpd	gpd	gpd	gpd

4. **Disposal Information:** Please complete **TABLE IV** with information per disposal site on quantities of treated effluent disposed. Location information, if provided as a latitude and longitude, should be for the point of disposal, if one exists, or for the entrance to the property if a disposal point does not exist. Alternatively, location information may be submitted in this TABLE as a reference number to an attached map if a corresponding reference dot is placed on the map. If a map is submitted, it should be of a scale of no less than 1 inch = 2 miles (or 1"= 10,000'), and be clearly referenced to county, section, township and range. You may use the map the District has in its Geographic Information System for your WUP if it suffices to show this information. Please Contact Conservation Projects District staff for assistance.

**TABLE IV**

Disposal Site Name	Contact Person Name	Area Code Telephone No.	Location	Method of Disposal	Annual Average Quantity
					gpd
					gpd
					gpd
					gpd

## Public Supply Service Area General Information Form Instructions

### SECTION 1. UTILITY AND CONTACT INFORMATION

#### Utility Name

Please enter the commonly used name for the utility, not the service area name (if there are multiple service areas), nor is it the permittee name unless they are the same. For utility companies with multiple unconnected public supply service areas under the same ownership but are managed and regulated as separate utilities, such as Aquasource or the Florida Governmental Utility Authority, the utility name shall include both the corporate name and the utility's location name. Example: Aloha Utilities – Seven Springs and Aloha Utilities – Tahitian Gardens.

#### Project/Service Area Name

For utilities that have separate, unconnected and distinct service areas that are regulated separately, please enter the Project/Service Area Name. This is the commonly used name of that service area. Example: for the Northeast Regional Service Area of Polk County Utilities, the Project/Service Area Name shall be "Northeast Regional Service Area."

**WUP No.** – Please enter the primary Water Use Permit Number

#### Multiple Permits?

If there are multiple permits for commonly owned withdrawal facilities that serve the service area, are interconnected, and transfers of water among the permits are routine (not emergency interconnects), indicate "yes". Otherwise, indicate "no." Other utilities that sell water to the utility in question or purchase water from it are not to be included in the determination of Multiple Permits or Associated WUPS. They will be addressed as wholesale sale(s) or purchase(s).

#### Associated WUPS

List all WUPS associated with the service area as defined in "Multiple Permits" above.

#### County

Please enter the county in which the utility is primarily located.

#### Utility Address, City, State & Zip Code

Please enter the mailing address information for the utility.

#### DEP PWSI No(s).

The Department of Environmental Protection's Public Water Supply Identifier number(s) for all the treatment facilities supplied by the primary permit and associated WUPS as defined above.

#### Is the contact information on the PS\_SERVICEAREAS Map current?

Check the utility and map contact information submitted against the utility and map contact information in the PS\_SERVICEAREA GIS layer on the District's website. If information has not changed, select "yes". Proceed to Section 2. If the contact information has changed, please enter the new information.

#### Utility Contact Name, Title, Phone Number, Extension and Email Address

Please provide the person at the utility authorized to answer general utility questions. This is not necessarily the utility director. If such a person is not assigned, the utility director shall be listed.

#### Map Contact Name, Title, Phone Number, Extension and Email Address

Please provide the person at the utility authorized to answer public supply service area map questions. If such a person is not assigned, the utility contact will be the map contact.

#### Map Source (For District use only) – Please select one of the following:

*Boundary delineated by Utility on Supplied Map Hard Copy from Utility Map Original Digital Data Original SWFWMD Data Other OVERLAP*

#### Digitizing Method (For District use only) – Please select one of the following:

*Converted from AutoCAD Drawing Converted from Shapefile Digitized from Hard Copy (Supplied Map) Digitized from Hard Copy (Utility) Digitized from Hard Copy (SWFWMD Map) Other OVERLAP*

## PUBLIC SUPPLY SERVICE AREA INFORMATION

Date: \_\_\_\_\_

Section 1 of 4

### UTILITY & CONTACT INFORMATION

Utility Name: Englewood Water District

Project/Service Area Name: \_\_\_\_\_

WUP No.: 4866.009

Multiple Permits? ☐ Yes ☐ No

Associated WUPs: \_\_\_\_\_

County: Sarasota

Utility Address: 201 Selma Avenue, Englewood FL 34223

City: Englewood State: FL

Zip Code: 34223

DEP PWSI No(s): \_\_\_\_\_

Is the contact information in the PS\_SERVICEAREA map current?

☒ Yes, then go to Section 2 (next page) ☐ No

Utility Contact Name: Pat Zoeller, P.E.

Utility Contact Title: Technical Operations Support

Contact Phone Number: 941-474-3217 Ext. 313

Contact Email Address: pzoeller@ewdfl.com

Map Contact Name: Carlos Core

Map Contact Title: GIS Technician

Map Contact Phone Number: 941-474-3217 Ext. 322

Map Contact Email Address: ccore@ewdfl.com

*For District Use Only*

Map Source: \_\_\_\_\_

Digitizing Method: \_\_\_\_\_

Service Area Type: \_\_\_\_\_

Service Area ID: \_\_\_\_\_ Utility Information ID: \_\_\_\_\_

## SECTION 2. WATER PURCHASES

This form is to document sources of water purchased wholesale by the utility and provide a cross-check of information provided by other utilities. Only wholesale purchases from other utilities for resale in the retail service area of the utility should be identified here.

Purchases water from any other utility? Yes ☐ or No ☐

Check as appropriate.

**Last Year:** Last calendar year.

**Previous Year:** Previous-to-last calendar year.

### **Source X Utility/Authority Name**

The name of the utility selling the water to the utility in question.

### **Source X WUP No.**

The Water Use Permit number.

**Source X Utility Information ID # (For District Use only)** See description above under "Utility Information ID".

### **Emergency connect only? Yes or No.**

Check as appropriate. If "Yes", move on to complete next source information if applicable.

### **Approximate last year purchases in gallons per day**

The approximate amount of purchases over the last year from Source X in gallons per day.

### **Approximate previous year purchases in gallons per day**

The year in which the above purchases were made from Source X.

## PUBLIC SUPPLY SERVICE AREA INFORMATION

Section 2 of 4

### WATER PURCHASE INFORMATION

Purchases water from any other utility?

Yes ☐

No ☒

(If no, please go to Section 3.)

Last Year = \_\_\_\_\_

Previous Year = \_\_\_\_\_

#### Source 1

1) Utility/Authority Name: \_\_\_\_\_

2) WUP No: \_\_\_\_\_

*For District Use Only*

Utility Information ID: \_\_\_\_\_

3) Emergency interconnect only? Yes ☐ (If yes, skip 4-5.) No ☐

4) Approximate last year purchases in gallons per day: \_\_\_\_\_

5) Approximate previous year purchases in gallons per day: \_\_\_\_\_

#### Source 2

6) Utility/Authority Name: \_\_\_\_\_

7) WUP No: \_\_\_\_\_

*For District Use Only*

Utility Information ID: \_\_\_\_\_

8) Emergency interconnect only? Yes ☐ (If yes, skip 9-10.) No ☐

9) Approximate last year purchases in gallons per day: \_\_\_\_\_

10) Approximate previous year purchases in gallons per day: \_\_\_\_\_

#### Source 3

11) Utility/Authority Name: \_\_\_\_\_

12) WUP No: \_\_\_\_\_

*For District Use Only*

Utility Information ID: \_\_\_\_\_

13) Emergency interconnect only? Yes ☐ (If yes, skip 14-15.) No ☐

14) Approximate last year purchases in gallons per day: \_\_\_\_\_

15) Approximate previous year purchases in gallons per day: \_\_\_\_\_

### SECTION 3. WATER SALES

This form is to document wholesale sales of water by the utility and provide a cross-check of information provided by other utilities. Only wholesale sales to other utilities for resale in their retail service areas of should be identified here.

**Sells Water to any other utility?** Yes ☐ or No ☐

Check as appropriate.

**Last Year:** Last calendar year.

**Previous Year:** Previous-to-last calendar year.

**Utility Customer X Name**

The name of the wholesale customer purchasing the water from the utility in question. This information can be obtained in the service area layer.

**Customer X WUP No.**

The Water Use Permit number.

**Customer X Utility Information ID # (For District Use only)** See description above under "Utility Information ID".

**Approximate last year sales in gallons per day**

The approximate amount of purchases by the wholesale customer last year from the utility in question in gallons per day.

**Approximate previous year sales in gallons per day**

The approximate amount of purchases by the wholesale customer last year from the utility in question in gallons per day.



## PUBLIC SUPPLY SERVICE AREA INFORMATION

Section 3 of 4

### WATER SALE INFORMATION

Sells water to any other utility?

Yes ☒

No ☐ (If no, please go to Section 3.)

Last Year = 0

Previous Year = 0

#### Customer 1

1) Utility/Authority Name: Peace River Manasota Regional Water Supply Authority

2) WUP No: 20010420.008

For District Use Only

Utility Information ID:

3) Emergency interconnect only? Yes ☒ (If yes, skip 4-5.) No ☐

4) Approximate last year sales in gallons per day: 0

5) Approximate previous year sales in gallons per day: 0

#### Customer 2

6) Utility/Authority Name: Sarasota County Utilities

7) WUP No: 20008836.013

For District Use Only

Utility Information ID:

8) Emergency interconnect only? Yes ☒ (If yes, skip 9-10.) No ☐

9) Approximate last year sales in gallons per day: 0

10) Approximate previous year sales in gallons per day: 0

#### Customer 3

11) Utility/Authority Name: Bocilla Utilities

12) WUP No: PWS ID #6084079

For District Use Only

Utility Information ID:

13) Emergency interconnect only? Yes ☐ (If yes, skip 14-15.) No ☒

14) Approximate last year sales in gallons per day: 141,189

15) Approximate previous year sales in gallons per day: 74,562

## SECTION 4. ACQUISITIONS

This form is to document acquisition of other public supply service areas. The acquirer is now responsible for providing retail water service to the residents of the acquired public supply service area.

Are there proposed changes to the public supply service area related to the acquisition of another utility? Yes ☐ or No ☐  
Check as appropriate.

### Acquisition X Utility/Authority Name

The name of the acquired public supply service area. This information can be obtained from the service area layer.

### Acquisition X WUP No.

See description above under "WUP No.".

### Acquisition X Associated WUPs

See description above under "Associated WUPs".

### Acquisition X DEP PWSI No(s).

See description above under "DEP PWSI No(s)".

### Acquisition X Contact Name, Title, Phone Number, Extension, and Email Address

The contact information of the person at the acquired public supply service area who will verify the acquisition.

### Utility Information ID # *(For District use only)*

See description above under "Utility Information ID".

### Service Area ID # *(For District use only)*

See description above under "Service Area ID".

## PUBLIC SUPPLY SERVICE AREA INFORMATION

Section 4 of 4

### ACQUISITIONS OF PUBLIC SUPPLY SERVICE AREAS

Are there proposed changes to the public supply service area related to the acquisition of another utility? Yes ☐ No ☒

If no, section complete. Please submit. If yes, please complete acquisition information.

#### Acquisition 1

- 1) Utility/Authority Name: \_\_\_\_\_
- 2) WUP Number: \_\_\_\_\_
- 3) Associated WUPs: \_\_\_\_\_
- 4) DEP PWSI No(s): \_\_\_\_\_
- 5) Acquisition 1 Contact Name: \_\_\_\_\_
- 6) Acquisition 1 Contact Title: \_\_\_\_\_
- 7) Acquisition 1 Phone Number: \_\_\_\_\_ Ext.: \_\_\_\_\_
- 8) Acquisition 1 email address: \_\_\_\_\_

**Please attach documentation of acquisition.**

*For District Use Only* Utility Information ID: \_\_\_\_\_

Service Area ID: \_\_\_\_\_

#### Acquisition 2

- 1) Utility/Authority Name: \_\_\_\_\_
- 2) WUP Number: \_\_\_\_\_
- 3) Associated WUPs: \_\_\_\_\_
- 4) DEP PWSI No(s): \_\_\_\_\_
- 5) Acquisition 2 Contact Name: \_\_\_\_\_
- 6) Acquisition 2 Contact Title: \_\_\_\_\_
- 7) Acquisition 2 Phone Number: \_\_\_\_\_ Ext.: \_\_\_\_\_
- 8) Acquisition 2 email address: \_\_\_\_\_

**Please attach documentation of acquisition.**

*For District Use Only* Utility Information ID: \_\_\_\_\_

Service Area ID: \_\_\_\_\_



# ENGLEWOOD WATER DISTRICT

## Plant Operational Summary

### 1-A Total Withdrawals 1/1/2015 to 12/31/2015

#### WELLFIELD PRODUCTION DATA

MONTH YEAR	JAN 2015	FEB 2015	MAR 2015	APR 2015	MAY 2015	JUN 2015	JUL 2015	AUG 2015	SEPT 2015	OCT 2015	NOV 2015	DEC 2015	TOTAL YEAR
WELLFIELD #1	0.000	0.000	0.000	0.000	0.000	10.482	8.966	11.016	10.119	0.000	0.000	2.903	43.485
WELLFIELD #2	20.014	12.942	12.687	14.596	17.593	3.426	0.000	0.000	0.000	12.234	19.232	16.594	129.307
WELLFIELD #3	19.340	19.852	20.400	16.103	2.284	0.000	0.000	0.000	0.000	18.760	16.549	15.313	128.601
WELLFIELD #5	0.000	0.000	0.000	0.000	17.030	16.131	21.929	24.500	21.912	1.590	0.000	0.000	103.093
WELLFIELD #4	35.900	33.477	36.874	48.524	37.793	29.532	23.517	24.811	24.711	23.583	23.358	22.949	385.027
WELLFIELD #2*	47.087	47.909	48.560	53.664	34.593	30.646	37.115	31.148	31.389	30.984	46.267	41.622	789.513
													1,250,497,000
													3,426,019

MONTH YEAR	JAN 2015	FEB 2015	MAR 2015	APR 2015	MAY 2015	JUN 2015	JUL 2015	AUG 2015	SEPT 2015	OCT 2015	NOV 2015	DEC 2015	TOTAL YEAR
TOTAL TO SYSTEM/MG	89.705	80.844	97.378	93.076	78.418	70.943	72.470	87.519	69.284	72.046	76.816	79.037	947.535
													347,536,000
													2,599,000

Total Withdrawals  
Total to System  
Treatment Loss

GPD  
GPD  
GPD

Total Withdrawals  
Minus exported water  
Minus Treatment loss  
Gross Water Use

GPD  
GPD  
GPD  
GPD

Part A - 3 Exported water

ACCOUNT CONSUMPTION HISTORY

PREPARED 3/02/16  
PROGRAM UT475L  
ENGLEWOOD WATER DISTRICT

PAGE: 1

CUSTOMER: 459790

BOCILLA UTILITIES INC  
ATT: R CRAIG NODEN  
7025-A PLACIDA RD  
ENGLEWOOD

FL 34224

LOCATION: 198525  
CYCLE/ROUTE: 25-00  
STATUS: A

BOCILLA INTERCONNECT

WATER METER NUMBER: 00000262413 METER SIZE: 01

DATE	READING TYPE	DAYS	BILLING PERIOD/DATE	ACTUAL CONSUMPTION	ACTUAL DEMAND	ORIGINAL CONSUMPTION	ORIGINAL DEMAND
12/23/15	REG	29	12/15	837500.00	.00		
11/24/15	REG	32	11/15	922110.00	.00		
10/23/15	REG	30	10/15	862050.00	.00		
9/23/15	REG	29	9/15	831380.00	.00		
8/25/15	REG	32	8/15	938090.00	.00		
7/24/15	REG	30	7/15	858800.00	.00		
6/24/15	REG	29	6/15	861760.00	.00		
5/26/15	REG	32	5/15	922490.00	.00		
4/24/15	REG	29	4/15	819610.00	.00		
3/26/15	REG	29	3/15	837840.00	.00		
2/25/15	REG	29	2/15	869030.00	.00		
1/27/15	REG	32	1/15	944690.00	.00		

TOTALS: 362

10505350.00

AVERAGE DAILY USAGE:

29020.30

CONSUMPTION PARAMETERS FOR WATER

EXCEPTION REPORT FLAG : .00  
CONSUMPTION ESTIMATE : .00  
DEMAND CONSUMPTION ESTIMATE : 114513.16  
AVERAGE CONSUMPTION : .00  
AVERAGE DEMAND CONSUMPTION : 83365580.00  
TOTAL CONSUMPTION : .00  
TOTAL DEMAND CONSUMPTION : 728



PREPARED 3/02/16  
PROGRAM UT475L  
ENGLEWOOD WATER DISTRICT

ACCOUNT CONSUMPTION HISTORY

PAGE: 1

CUSTOMER: 459790 BOCILLA UTILITIES INC  
ATT: R CRAIG NODEN  
7025-A PLACIDA RD  
ENGLEWOOD FL 34224

LOCATION: 198525 BOCILLA INTERCONNECT  
CYCLE/ROUTE: 25-00  
STATUS: A

METER NUMBER: 00070283073 METER SIZE: 05

READING DATE	TYPE	DAYS	BILLING PERIOD/DATE	ACTUAL CONSUMPTION	ACTUAL DEMAND	ORIGINAL CONSUMPTION	ORIGINAL DEMAND
12/23/15	REG	29	12/15 12/31/15	.00	.00		
11/24/15	REG	32	11/15 11/25/15	.00	.00		
10/23/15	REG	30	10/15 10/28/15	.00	.00		
9/23/15	REG	29	9/15 9/25/15	15200.00	.00		
8/25/15	REG	32	8/15 8/27/15	.00	.00		
7/24/15	REG	30	7/15 7/29/15	.00	.00		
6/24/15	REG	29	6/15 6/26/15	.00	.00		
5/26/15	REG	32	5/15 5/28/15	.00	.00		
4/24/15	REG	29	4/15 4/29/15	.00	.00		
3/26/15	REG	29	3/15 3/31/15	.00	.00		
2/25/15	REG	29	2/15 2/27/15	.00	.00		
1/27/15	REG	32	1/15 1/29/15	.00	.00		

TOTALS: 362

AVERAGE DAILY USAGE: 41.98  
TOTALS: 15200.00 .00

CONSUMPTION PARAMETERS FOR WATER  
EXCEPTION REPORT FLAG . . . . .00  
CONSUMPTION ESTIMATE . . . . .00  
DEMAND CONSUMPTION ESTIMATE . . . . .00  
AVERAGE CONSUMPTION . . . . .14513.16  
AVERAGE DEMAND CONSUMPTION . . . . .00  
TOTAL CONSUMPTION . . . . .83365580.00  
TOTAL DEMAND CONSUMPTION . . . . .00  
TOTAL READING DAYS . . . . .728

PREPARED 3/02/16  
PROGRAM UT475L  
ENGLEWOOD WATER DISTRICT

ACCOUNT CONSUMPTION HISTORY

PAGE: 1

CUSTOMER: 459790

BOCILLA UTILITIES INC  
ATT: R CRAIG NODEN  
7025-A PLACIDA RD  
ENGLEWOOD

FL 34224

LOCATION: 198525  
CYCLE/ROUTE: 25-00  
STATUS: A

BOCILLA INTERCONNECT

WATER METER NUMBER: 00070262413 METER SIZE: 07

DATE	READING TYPE	DAYS	BILLING PERIOD/DATE	ACTUAL CONSUMPTION	ACTUAL DEMAND	ORIGINAL CONSUMPTION	ORIGINAL DEMAND
12/23/15	REG	29	12/15 12/31/15	3003000.00	.00		
11/24/15	REG	32	11/15 11/25/15	3526000.00	.00		
10/23/15	REG	30	10/15 10/28/15	3333000.00	.00		
9/23/15	REG	29	9/15 9/25/15	3473000.00	.00		
8/25/15	REG	32	8/15 8/27/15	3298000.00	.00		
7/24/15	REG	30	7/15 7/29/15	3975000.00	.00		
6/24/15	REG	29	6/15 6/26/15	2831000.00	.00		
5/26/15	REG	32	5/15 5/28/15	3740000.00	.00		
4/24/15	REG	29	4/15 4/29/15	4133000.00	.00		
3/26/15	REG	29	3/15 3/31/15	3759000.00	.00		
2/25/15	REG	29	2/15 2/27/15	2860000.00	.00		
1/27/15	REG	32	1/15 1/29/15	3365000.00	.00		

TOTALS: 362

41296000.00

AVERAGE DAILY USAGE:

114077.34

CONSUMPTION PARAMETERS FOR WATER  
EXCEPTION REPORT FLAG . . . :  
CONSUMPTION ESTIMATE . . . :  
DEMAND CONSUMPTION ESTIMATE . . :  
AVERAGE CONSUMPTION . . . :  
AVERAGE DEMAND CONSUMPTION . . :  
TOTAL CONSUMPTION . . . :  
TOTAL DEMAND CONSUMPTION . . . :  
TOTAL READING DAYS . . . : 728

.00  
.00  
114513.16  
.00  
83365580.00  
.00  
728

# Part A a Golf course Deduction

PREPARED 3/02/16  
PROGRAM UT475L  
ENGLEWOOD WATER DISTRICT

ACCOUNT CONSUMPTION HISTORY

PAGE: 1

CUSTOMER: 244700 MYAKKA PINES GOLF  
PO BOX 126

ENGLEWOOD FL 34295

LOCATION: 156425 MYAKKA PINES GOLF  
CYCLE/ROUTE: 24-0:  
STATUS: A

METER NUMBER: 0C070218006 METER SIZE: 08

DATE	PEADING TYPE	DAYS	BILLING PERIOD/DATE	ACTUAL CONSUMPTION	ACTUAL DEMAND	ORIGINAL CONSUMPTION	ORIGINAL DEMAND
12/23/15	REG	29	12/15	4053000.00	.00		
11/24/15	REG	32	11/15	5981000.00	.00		
10/23/15	REG	30	10/15	2356000.00	.00		
9/23/15	REG	29	9/15	2051000.00	.00		
8/25/15	REG	32	8/15	1673000.00	.00		
7/24/15	REG	30	7/15	5932000.00	.00		
6/24/15	REG	29	6/15	.00	.00		
5/26/15	REG	32	5/15	9801000.00	.00		
4/24/15	REG	29	4/15	10400000.00	.00		
3/26/15	REG	29	3/15	7389000.00	.00		
2/25/15	REG	29	2/15	2863000.00	.00		
1/27/15	REG	32	1/15	5008000.00	.00		

TOTALS: 362

58507000.00

AVERAGE DAILY USAGE:

161621.54

CONSUMPTION PARAMETERS FOR WATER  
EXCEPTION REPORT FLAG . . . .  
CONSUMPTION ESTIMATE . . . .  
DEMAND CONSUMPTION ESTIMATE . . . .  
AVERAGE CONSUMPTION . . . .  
AVERAGE DEMAND CONSUMPTION . . . .  
TOTAL CONSUMPTION . . . .  
TOTAL DEMAND CONSUMPTION . . . .  
TOTAL READING DAYS . . . .

.00  
.00  
217773.97  
1199459000.00  
5508

PREPARED 3/02/16  
PROGRAM UT475L  
ENGLEWOOD WATER DISTRICT

ACCOUNT CONSUMPTION HISTORY

PAGE: 1

CUSTOMER: 315840 BOCA ROYALE GOLF INC  
1 S GOLFWVIEW DR

ENGLEWOOD FL 34223

LOCATION: 180665 BOCA ROYALE REUSE  
CYCLE/ROUTE: 24-01  
STATUS: A

METER NUMBER: 00070226317 METER SIZE: 08

DATE	READING TYPE	DAYS	BILLING PERIOD/DATE	ACTUAL CONSUMPTION	ACTUAL DEMAND	ORIGINAL CONSUMPTION	ORIGINAL DEMAND
12/23/15	REG	29	12/15 12/31/15	8690000.00	.00		
11/24/15	REG	32	11/15 11/25/15	7165000.00	.00		
10/23/15	REG	30	10/15 10/28/15	5818000.00	.00		
9/23/15	REG	29	9/15 9/25/15	7475000.00	.00		
8/25/15	REG	32	8/15 8/27/15	6591000.00	.00		
7/24/15	REG	30	7/15 7/29/15	9620000.00	.00		
6/24/15	REG	29	6/15 6/26/15	9636000.00	.00		
5/26/15	REG	32	5/15 5/28/15	14410000.00	.00		
4/24/15	REG	29	4/15 4/29/15	8942000.00	.00		
3/26/15	REG	29	3/15 3/31/15	8848000.00	.00		
2/25/15	REG	29	2/15 2/27/15	8219000.00	.00		
1/27/15	REG	32	1/15 1/29/15	10087000.00	.00		

TOTALS: 362

105501000.00

.00

AVERAGE DAILY USAGE:

291439.22

.00

CONSUMPTION PARAMETERS FOR WATER

EXCEPTION REPORT FLAG . . . :  
CONSUMPTION ESTIMATE . . . :  
DEMAND CONSUMPTION ESTIMATE . . . :  
AVERAGE CONSUMPTION . . . :  
AVERAGE DEMAND CONSUMPTION . . . :  
TOTAL CONSUMPTION . . . :  
TOTAL DEMAND CONSUMPTION . . . :  
TOTAL READING DAYS . . . :  
4354

PREPARED 3/02/16  
PROGRAM UT47SL  
ENGLEWOOD WATER DISTRICT

ACCOUNT CONSUMPTION HISTORY

PAGE: 1

CUSTOMER: 267140 OYSTER CREEK GOLF CLUB LLC  
ATTN: JOEL KING  
6651 ORIOLE BLVD  
ENGLEWOOD FL 34224

LOCATION: 139895 OYSTER CREEK-GOLF REUSE  
CYCLE/ROUTE: 24-00  
STATUS: A

WATER METER NUMBER: 00020030984 METER SIZE: 07

DATE	READING TYPE	DAYS	BILLING PERIOD/DATE	ACTUAL		ORIGINAL CONSUMPTION	ORIGINAL DEMAND
				CONSUMPTION	DEMAND		
12/23/15	REG	29	12/15 12/31/15	6546000.00	.00		
11/24/15	REG	32	11/15 11/25/15	5475000.00	.00		
10/23/15	REG	30	10/15 10/28/15	5277000.00	.00		
9/23/15	REG	29	9/15 9/25/15	4135000.00	.00		
8/23/15	REG	32	8/15 8/27/15	4269000.00	.00		
7/24/15	REG	30	7/15 7/29/15	7961000.00	.00		
6/24/15	REG	29	6/15 6/26/15	5010000.00	.00		
5/26/15	REG	32	5/15 5/28/15	8357000.00	.00		
4/24/15	REG	29	4/15 4/29/15	7666000.00	.00		
3/26/15	REG	29	3/15 3/31/15	7163000.00	.00		
2/25/15	REG	29	2/15 2/27/15	4115000.00	.00		
1/27/15	REG	32	1/15 1/29/15	5007000.00	.00		

TOTALS: 362 70981000.00 .00  
AVERAGE DAILY USAGE: 196080.11

CONSUMPTION PARAMETERS FOR WATER  
EXCEPTION REPORT FLAG . . . . .00  
CONSUMPTION ESTIMATE . . . . .00  
DEMAND CONSUMPTION ESTIMATE . . . . .00  
AVERAGE CONSUMPTION . . . . .188570.72  
AVERAGE DEMAND CONSUMPTION . . . . .00  
TOTAL CONSUMPTION . . . . .986602000.00  
TOTAL DEMAND CONSUMPTION . . . . .00  
TOTAL READING DAYS . . . . .5232

Part A 13 Reclaimed water Deduction

PREPARED 3/02/16  
PROGRAM UT475L  
ENGLEWOOD WATER DISTRICT

ACCOUNT CONSUMPTION HISTORY

PAGE: 1

CUSTOMER: 174530 LEMON BAY GOLF COURSE INC  
9600 EAGLE PRESERVE DR

ENGLEWOOD FL 342249172

LOCATION: 139885 9600 EAGLE PRESERVE DR REUSE  
CYCLE/ROUTE: 24-01  
STATUS: A

METER NUMBER: 00070223791 METER SIZE: 07

READING DATE	TYPE	DAYS	BILLING PERIOD/DATE	ACTUAL CONSUMPTION	ACTUAL DEMAND	ORIGINAL CONSUMPTION	ORIGINAL DEMAND
12/23/15	REG	29	12/15 12/31/15	5879000.00	.00		
11/24/15	REG	32	11/15 11/25/15	8060000.00	.00		
10/23/15	REG	30	10/15 10/28/15	8451000.00	.00		
9/23/15	REG	29	9/15 9/25/15	5089000.00	.00		
8/25/15	REG	32	8/15 8/27/15	6246000.00	.00		
7/24/15	REG	30	7/15 7/29/15	7804000.00	.00		
6/24/15	REG	29	6/15 6/26/15	5727000.00	.00		
5/26/15	REG	32	5/15 5/28/15	10935000.00	.00		
4/24/15	REG	29	4/15 4/29/15	9261000.00	.00		
3/26/15	REG	29	3/15 3/31/15	7788000.00	.00		
2/25/15	REG	29	2/15 2/27/15	5634000.00	.00		
1/27/15	REG	32	1/15 1/29/15	7138000.00	.00		

TOTALS: 362

87990000.00

.00

AVERAGE DAILY USAGE:

243066.29 ÷ 5076

CONSUMPTION PARAMETERS FOR WATER  
EXCEPTION REPORT FLAG . . . . .  
CONSUMPTION ESTIMATE . . . . .  
DEMAND CONSUMPTION ESTIMATE . . . . .  
AVERAGE CONSUMPTION . . . . .  
AVERAGE DEMAND CONSUMPTION . . . . .  
TOTAL CONSUMPTION . . . . .  
TOTAL DEMAND CONSUMPTION . . . . .  
TOTAL READING DAYS . . . . .

.00  
.00  
186951.71  
.00  
1029730000.00  
.00  
5508

4,861

0.00

243066.29  
5076  
4861.00

## 27.0 SERVICE FEES AND CHARGES

### A. WATER RATES - Water Customers per ERC/month.

1. Base Facility Charge \$ 15.62 /ERC/month

Note: May increase a maximum of 4% annually on October 1.

2. Usage Charges
  - 0-6,000 = \$1.93/1,000 gallons
  - 6,001-8,000 = \$2.57/1,000 gallons
  - 8,001-12,000 = \$5.14/1,000 gallons
  - 12,001-18,000 = \$8.56/1,000 gallons
  - Over 18,000=\$13.38/1000 gallons

3. Usage Charges w/Conservation Charge
  - 0-6,000 gal. = \$1.93/1,000 gal
  - 6,001 – 8,000 = \$2.84/1000 gallons
  - 8,001-12,000 = \$5.67/1000 gallons
  - 12,001-18,000 = \$12.00/1000 gallons
  - Over 18,000 = \$20.00/1000 gallons

4. Dedicated Irrigation and Temporary Meters

- a. Usage Charges
  - 0-12,000 = \$5.67/1000 gallons
  - 12,001-18,000 = \$8.56/1000 gallons
  - Over 18,000 = \$13.38/1000 gallons

- b. Usage w/Conservation Surcharge
  - 0-12,000 = \$5.67/1000 gallons
  - 12,001-18,000 = \$12.00/1000 gallons
  - Over 18,000 = \$20.00/1000 gallons

5. Government/ Bulk Rate \$25.00 Billing Charge and \$2.98/1000 gal.

### B. WASTEWATER RATES – Wastewater Customers per ERC/month.

1. Base Facility Charge \$ 22.72/ERC/month

Note: May increase a maximum of 4% annually on October 1.

2. Usage Charge per ERC/month All Usage = \$3.00/1,000 gallons
3. Wastewater Only (no water meter) Use 196 gal X 365 days/12 = 5,962 gal/month/  
ERC to calculate Usage, plus Base Charge.
4. Inflow & Infiltration (I&I) 50% Surcharge 1.5 times the total wastewater bill

### C. BULK WASTEWATER SERVICE – Master meters and non-District collection systems.

1. Treatment & Disposal Charge
  - a. Billing off Water Meter \$ 5.83/1000 gallons
  - b. Billing off Wastewater Meter \$ 7.28/1000 gallons

2. Bulk Wastewater Customers must purchase capacity in wastewater transmission and plant capital systems in addition to the monthly treatment and disposal charges.

### D. REUSE WATER (a wastewater treatment product)

1. Usage to Isolated Pond \$ 0.15/1,000 gallons
2. Pressurized Usage \$ 0.19/1,000 gallons



E. OTHER FEES

1. LATE PAYMENT (on past due balances exceeding \$10.00)
  - a. Un-paid balance up to \$133.00 \$ 2.00
  - b. Un-paid balance over \$133.00 1.5% of cumulative balance
2. RETURN CHECK CHARGE
  - a. Standard Check or Bank Draft returned, canceled, or stopped payment. 5% of check amount, \$30 minimum
  - b. Internet or Online Item Return \$ 5.00
3. USAGE REPORT (to Non-Customers) \$ 0.25/each account; minimum \$5.00
4. ADDITIONAL METER (after CCC is paid) Actual Cost
5. TEMPORARY WATER CUSTOMER
  - a. Meter Deposit \$ 500.00
  - b. Rental \$ 15.62
  - c. Usage See 27 A(4) above
  - d. Trip Charge (each move) \$ 25.00/each
  - e. Tap (Administration Fee) \$ 500.00
  - f. Construction Costs Paid by Applicant
6. FIRE LINE - Note: No Capital Capacity Charge
  - a. Administration Fee \$ 500.00
  - b. Monthly Availability Charge Line Diameter:
    - up to 8" \$ 15.00/month
    - greater than 8" to 12" \$ 20.00/month
    - greater than 12" \$ 25.00/month
  - c. Construction Costs Paid by Applicant
7. TAMPERING with EWD Property \$ 500.00 maximum
  - a. Replace locking device \$ 50.00
  - b. Locking Device \$ 10.00
  - c. Chain & Locking Device \$ 15.00
8. RESEARCH & COPIES
  - a. One Side \$ 0.15/page
  - b. Two Side \$ 0.20/page
  - c. Minutes of meeting (uncertified) \$ 0.15/page
  - d. Minutes of meeting (certified) \$ 1.00/page
  - e. Research or monitoring (1 hr min) \$ 20.00/hour
  - f. Large maps \$ 1.00/sheet
  - g. Blue prints \$ 1.00/page
  - h. Auto Cad Disk \$ 5.00/each
  - i. FAX request \$ 1.00/page
  - j. Plan Review \$ 10.00/sheet
  - k. Mailing Labels & Computer Time \$ 30.00 + \$15.00/hour
  - l. Bid Documents As Advertised
9. TURN ON/TURN OFF (ADMINISTRATIVE)
  - a. 48 hour notice (1 on and 1 off annually) No Charge
  - b. Additional with 48 hour notice \$ 15.00/trip (Monday-Friday 7 a.m. to 5 p.m.)

After working hours and weekends	\$ 50.00/trip (Monday-Friday AFTER 5 p.m. all day Saturday and Sunday)
c. Less than 48 hour notice	\$ 30.00/trip (Monday-Friday 7 a.m. to 5 p.m.)
After working hours	\$ 50.00/trip (Monday-Friday AFTER 5 p.m. all day Saturday and Sunday)
d. Holidays	\$ 150.00/trip (Excluding EWD observed holidays)
10. ACCOUNT RE-ACTIVATION	
a. Lock removal:	
Disconnection/turn off non- payment (site visit/collection)	\$ 20.00/trip
Re-connection/turn-on non payment	\$ 20.00/trip
- After working hours and weekends	\$ 75.00/trip (Monday-Friday AFTER 5 p.m. all day Saturday and Sunday)
- Holidays	\$ 225.00/trip (Excluding EWD observed holidays)
b. Administrative Account Re-Activation	\$ 60.00
c. Meter Re-Installation	
- During working hours	\$ 60.00 (Monday-Friday 7 a.m. to 5 p.m.)
- After working hours and weekends	\$ 100.00 (Monday-Friday AFTER 5 p.m. all day Saturday and Sunday)
- Holidays	\$ 200.00 (Excluding EWD observed holidays)
- Plus cost of new meter if applicable.	
11. PAYMENT DEADLINE EXTENSION	\$ 10.00/each occurrence
12. SERVICE CALL-OUTS	
a. Regular working hours	\$ 30.00/trip (Monday-Friday 7 a.m. to 5 p.m.)
b. After working hours and weekends	\$ 50.00/trip (Monday-Friday AFTER 5 p.m. all day Saturday and Sunday)
c. Holidays	\$ 150.00/trip (Excluding EWD observed holidays)
d. Sewer Repairs (unoccupied properties)	Actual Cost
13. METER TEST WITHIN TOLERANCE	
a. 5/8" meter	\$ 40.00
b. 1" or 1 1/2" meter	\$ 50.00
14. BACKFLOW TESTING by EWD	\$ 100.00
15. SEWER CAP/UNCAP CHARGE	\$ 30.00/each occurrence
16. AIR INTAKE REPAIR	\$ 100.00
17. SPECIAL BILL/METER READ	\$ 30.00/each
18. TESTING/INSPECTIONS	
a. Un-certified Fire Flow Test	\$ 175.00/each
b. Bacteriological Tests	\$ 40.00/each
c. Service Tie-in (initial)	No Charge
d. Service Re-inspection	\$ 30.00/each
e. Service Location (initial)	No Charge
f. Additional Locates/Tie-in	\$ 30.00/each

19. FINANCING TERMS FOR CAPITAL CAPACITY CHARGES (see paragraph 13.2.3b)

a. Interest	5%
b. Term	15 years
c. Down Payment	None

20. INITIAL METER INSTALLATION FEE

a. The standard District meter shall be a Neptune T-10 Radio Read. Meters 5/8" and 1" in size will typically be placed in trafficable non-metal meter boxes. Meters larger than 1" will only be above-ground and must always be a RPBA.

b. District installed service & box. There will be an additional Customer cost for an above-ground Reduced Pressure Backflow Assembly (RPBA) provided by a plumber.

Size	
5/8 inch	\$380.00
1.0 inch	\$605.00
1.5 inch	\$765.00
2.0 inch	\$903.00

c. Developer installed service & box (using District provided meter). There will be an additional Customer cost for a RPBA as required. The Charge includes the cost of a District provided meter and an initial inspection fee; any re-inspection fee will be \$30.00.

Size	
5/8 inch	\$300.00
1.0 inch	\$300.00
1.5 inch	\$400.00
2.0 inch	\$500.00

3.0 inch and larger meters (service, meter vault and backflow device provided and installed by Customer. The initial Inspection Fee will be \$50.00 and any re-inspection will be \$30.00.

21. CLEARING METER BOX OBSTRUCTIONS - Will be billed at Actual-Cost (see NOTES below) with a minimum charge of \$30.00 after failure to comply with written request to remove obstruction.

22. CAPITAL CAPACITY CHARGES

a. Water (per ERC):

1. Plant Capacity/Transmission System as of:	1 January 15	\$ 2,073.96
2. Distribution System as of:	1 January 15	\$ 1,200.00

b. Wastewater (per ERC)

1. Plant Capacity/Transmission System as of:	1 January 15	\$ 2,849.94
2. Collection System as of:	1 January 15	\$ 5,817.00

**23. NOTES.**

- a. EWD Actual-Cost Billing. Equipment billing rates will be per the current McGraw Hill Equipment Blue Book hourly rates. Billing for salaried personnel will be at hourly rates with benefits. A 25% mark-up of total personnel, material and equipment costs will be added for general overhead and administration.
- b. Average District usage per ERC.

Water = 196 gallons/day

Wastewater = 157 gallons/day

**28.0 EFFECTIVE DATE**

These Customer Rules and Regulations of the Englewood Water District shall become effective upon the date of passage hereof and shall supersede the revised November 3, 2011 Customer Rules and Regulations of the Englewood Water District and any other rules, resolutions and regulations of the District over the same subject matter in conflict with the foregoing Customer rules and regulations from the effective date hereof.

# Part B 1 Single Family Dwelling Units

Date 2/9/2016

## Single Family - SF # of Units

Rate Class	Meter Size	Total (Units) No.9	Count (Location ID) No.1
SF	01	15755.00	15750
SF	02	61.00	61
SF	03	2.00	2
SF	04	6.00	6
6		15824.00	

number of Dwelling Units

## SINGLE FAMILY YEARLY USAGE

Month	Year	Rate Class	Total (Actual Consumption) No.2
1	15	SF	53342603.00
2	15	SF	49274142.00
3	15	SF	55723572.00
4	15	SF	61357893.00
5	15	SF	51594131.00
6	15	SF	41073162.00
7	15	SF	45980505.00
8	15	SF	35397410.00
9	15	SF	37480840.00
10	15	SF	41662660.00
11	15	SF	39519907.00
12	15	SF	53514253.00
			565,921,078

$$\div 365$$

$$1,550,468$$

Annual average GPD

Part B

2 multi family Dwelling Units

Date: 2/9/2016

**Multi - Commercial (M2) # of Units**

Rate Class	Meter Size	Total (Units) No.9	Count (Location ID) No.1
M2	01	56.70	34
M2	02	54.40	21
M2	03	36.50	3
3		147.60	

147.60

575.30

2.203.10

2.225.0081

number of Dwelling Units





Date 2/9/2016

### Multi Family (MF) # of Units

Rate Class	Meter Size	Total (Units) No.9	Count (Location ID) No.1
MF	01	497.30	228
MF	02	54.00	14
MF	04	24.00	2
2		575.30	

Date: 2/9/2016

### Multi Family - AC (Apt Complex) # of Units

Rate Class	Meter Size	Total (Units) No.9	Count (Location ID) No.1
AC	01	14.10	3
AC	02	118.00	14
AC	03	525.00	51
AC	04	606.00	27
AC	05	477.00	3
AC	06	242.00	2
AC	07	221.00	1
1		2203.10	

X

Date 2/9/2016

## M2= Multi Family FAMILY YEARLY USAGE

Month	Year	Rate Class	Total (Actual Consumption) No.2
1	15	M2	915070.00
2	15	M2	991130.00
3	15	M2	1036440.00
4	15	M2	1064910.00
5	15	M2	891330.00
6	15	M2	847190.00
7	15	M2	1220300.00
8	15	M2	577540.00
9	15	M2	807600.00
10	15	M2	1047160.00
11	15	M2	480090.00
12	15	M2	1144450.00
			<b>11,023,210</b>

## 2015 MULTI FAMILY

Location ID	Year	Rate Class	Meter Size	Total (Actual Consumption) No.2	Units
85	15	IR	01	654,200	3.60
13835	15	IR		0	1.00
19375	15	IR		323,150	4.50
46315	15	IR		396,100	3.30
46405	15	IR		646,200	4.90
46495	15	IR		429,900	6.30
51335	15	IR		492,850	6.50
66615	15	IR		18,890	1.00
66725	15	IR		1,620	1.00
76595	15	IR		0	1.00
96585	15	IR		32,000	1.00
99255	15	IR		300	1.00
100825	15	IR		350	1.00
100865	15	IR		266,750	9.20
120135	15	IR		42,800	1.00
131195	15	IR		645,600	14.50
137115	15	IR		115,550	1.50
140335	15	IR		169,350	1.00
152995	15	IR		68,050	1.00
154755	15	IR		567,900	7.50
157755	15	IR		303,150	1.70
162345	15	IR		2,750	1.00
168625	15	IR		24,850	1.00
169415	15	IR		142,150	2.30
171545	15	IR		303,600	3.80
174775	15	IR		481,400	4.10
175135	15	IR		239,150	3.00
177165	15	IR		7,200	1.00
182785	15	IR		441,810	5.70
184435	15	IR		130,500	2.70
186625	15	IR		15,750	1.00
186925	15	IR		26,100	1.00
187345	15	IR		14,500	1.00
188375	15	IR		706,800	11.10
197035	15	IR		4,950	1.00
				7,716,220	113.20
13815	15	IR	02	853,020	9.50
46395	15	IR		421,390	14.20

# 2015 MULTI FAMILY

Date: 2/9/2016

Location ID	Year	Rate Class	Meter Size	Total (Actual Consumption) No 2	Units
47505	15	IR	02...	25,750	1.00
51345	15	IR		732,370	11.00
52685	15	IR		155,770	3.70
96615	15	IR		937,330	1.00
100685	15	IR		0	1.70
134905	15	IR		258,730	1.00
156315	15	IR		1,763,580	22.30
156455	15	IR		840,010	2.10
176745	15	IR		0	1.00
177535	15	IR		0	1.00
180845	15	IR		197,270	4.90
183845	15	IR		254,880	2.40
185995	15	IR		408,650	11.30
190195	15	IR		0	1.00
194505	15	IR		495,710	4.00
195675	15	IR		29,590	1.60
195925	15	IR		124,200	1.00
199185	15	IR		337,730	1.00
				7,835,980	96.70
81615	15	IR	03	31,500	1.00
85095	15	IR		149,800	1.00
176985	15	IR		772,500	11.60
178305	15	IR		652,200	5.80
196145	15	IR		1,609,600	37.00
				3,215,600	56.40
19795	15	IR	04	78,000	10.10
24165	15	IR		270,500	6.30
56695	15	IR		300	2.30
170135	15	IR		1,394,500	12.50
186095	15	IR		804,500	10.90
				2,547,800	42.10
				not correct CUMULATIVE	308.40

# Part B 4 Residential Irrigation Accounts

Date: 2/9/2016

## Irrigation # of Units

Rate Class	Meter Size	Total (Units) No.9	Count (Location ID) No.1
IR	01	113.20	35
IR	02	96.70	20
IR	03	56.40	5
IR	04	42.10	5
		308.40	65

number of  
metered connections

**COMMERCIAL COUNT**

Rate Class	Count (Customer Location Status) No.2
AU	35
BB	26
BK	21
BL	6
BR	8
CG	8
CH	30
CL	5
CS	2
CW	3
C1	3
DK	16
DS	18
D1	6
EL	58
EW	63
FD	6
FP	1
FT	5
GA	1
GH	3
GT	1
GV	9
HB	2
HM	11
HP	1
IC	2
IN	35
LD	5
LS	2
MA	17
MD	95
MH	15
MN	20
NH	4
NM	6
OF	89
OM	2
OR	7
O1	15



**2015 COMMERCIAL CONSUMPTION**

Rate Class	Total (Actual Consumption) No.2
AU	1614360.00
BB	1085180.00
BK	2854380.00
BL	576830.00
BR	538950.00
CG	1121130.00
CH	3172110.00
CL	75700.00
CS	153900.00
CW	2190290.00
C1	391270.00
DK	1071010.00
DS	969220.00
D1	96620.00
EW	8120.00
FD	604650.00
FP	36830.00
FT	58250.00
GA	45000.00
GH	23020.00
GT	63650.00
GV	579400.00
HB	343560.00
HM	9691184.00
HP	9182090.00
IC	849120.00
IN	993750.00
LD	1505890.00
LS	0.00
MA	2515770.00
MD	8354880.00
MH	6334040.00
MN	800040.00
NH	5191400.00
OF	2771400.00
OM	71960.00
OR	1640740.00
O1	794870.00
O2	83630.00
PK	3744970.00

## 2015 COMMERCIAL CONSUMPTION

Rate Class	Total (Actual Consumption) No 2
PN	1011550.00
PS	118750.00
PT	76160.00
RC	3666930.00
RN	50730.00
RS	20966460.00
RT	4545590.00
RV	47610.00
SC	6327960.00
SP	5988120.00
ST	281510.00
SU	3807660.00
TT	0.00
UT	301120.00
VA	39700.00
VS	47490.00
VT	1580480.00
WH	398910.00
WP	466900.00
WT	38050.00
	121,960,844
	365

334,139 Annual Average GPD

Part B 10 Fire & other accounted uses

Date: 2/9/2016

**Fire Line - FL # of Units**

Rate Class	Meter Size	Total (Units) No 9	Count (Location ID) No 1
FL	01	95.00	95
FL	04	3.00	3
3		98.00	number of metered connections

## FIRE AND OTHER ACCOUNT USE

Month	Year	Rate Class	Total (Actual Consumption) No 2
1	15	FL	3350.00
2	15	FL	3580.00
3	15	FL	2300.00
4	15	FL	1860.00
5	15	FL	1690.00
6	15	FL	2180.00
7	15	FL	3450.00
8	15	FL	2480.00
9	15	FL	2570.00
10	15	FL	2580.00
11	15	FL	2330.00
12	15	FL	2070.00
			30,440

- 365

84 Annual Average GPD

Boalla 2014 74,562 GROSS 2,527,181  
 2013 — 2,356,438  
 2012 —  
 2011 —  
 2010  
 2009