

Regular Workshop – October 15, 2012
Agenda Item 6
Consent Item

Agenda Item: Proposed Resolution 2012-19, Providing for Transmittal of the 10-year Potable Water Supply Work Plan

Presenter: Town Manager

Summary: Florida Statutes require the Town to maintain a 10-year potable water supply work plan which must be updated every five years by the Town in conjunction with the update by the Southwest Florida Water Management District.

Resolution 2012-19 has been forwarded from the September 18, 2012 Planning & Zoning (P&Z) Board Meeting with approval unanimously recommended. The Resolution provides for transmittal of the updated Infrastructure Element and supplemental Data and Analysis (D&A) to the Department of Economic Opportunity, other regulatory agencies, and local governments for review and comment.

Attachments: 9-19-12 Memo, Planner to Manager;
9-19-12 Memo, P&Z Board Chair to Town Commission;
9-06-12 Staff Report, Planner to P&Z Board;
9-18-12 Draft P&Z Board minutes; and
Proposed Resolution 2012-19.

Recommended Action: Approval of the Consent Agenda will forward Resolution 2012-19 to the November 5, 2012 Regular Meeting for public hearing and formal action.

M E M O R A N D U M

DATE: September 19, 2012

TO: Dave Bullock, Town Manager

FROM: Ric Hartman, Town Planner
Planning, Zoning and Building Department

SUBJECT: Resolution 2012-19: Comprehensive Plan Amendment - Update to 10-year Potable Water Supply Work Plan

Florida Statutes require that the Town maintain a potable water supply work plan (work plan), covering at least a ten year planning period, which identifies water supply sources and projects necessary to serve existing and new development. The plan is required to be updated every five years by the regional water authority (Southwest Florida Water Management District aka SWFWMD) and by the Town within eighteen months of the regional update.

The attached Infrastructure Element and supplemental Data and Analysis (D&A) were modified as necessary in order to update the current work plan. The attached documents were presented to the Planning and Zoning Board at the September 18, 2012, meeting for recommendation to the Town Commission. All recommended revisions to the existing Comprehensive Plan and supporting D&A are in legislative format (strike-through/underlined) and highlighted in yellow.

At that meeting, the Planning and Zoning Board recommended that the Town Commission adopt the resolution proposing amendments to the Infrastructure Element and supplemental D&A. Adoption would authorize transmittal of the resolution to the Department of Economic Opportunity (DEO), acting as the state land planning agency, and other required regulatory agencies and governments for review and comment. Once comments are received, an ordinance for adoption of the updated work plan will be presented to the Board and to the Commission.

M E M O R A N D U M

DATE: September 19, 2012

TO: Honorable Mayor and Town Commission

THROUGH: Dave Bullock, Town Manager

FROM: BJ Webb, Chair
Planning and Zoning Board

SUBJECT: RESOLUTION 2012-19, UPDATE TO THE 10-YEAR POTABLE
WATER SUPPLY WORK PLAN

During the public hearing held on September 18, 2012, the Planning and Zoning Board recommended APPROVAL of Resolution 2012-19, amending the Town's Comprehensive Plan to update the 10-year Potable Water Supply Work Plan. The specific motion of the P&Z Board is as follows:

MR. WILD MOVED TO RECOMMEND APPROVAL OF RESOLUTION 2012-19 AS WRITTEN. MS. GOLDNER SECONDED THE MOTION. MOTION CARRIED ON ROLL CALL VOTE: AITKEN, AYE; DALY, AYE; GOLDNER, AYE; HACKETT, AYE; HIXON, AYE; SYMANSKI, AYE; WEBB, AYE; WILD, AYE.

Enclosed, for your review and consideration, please find the following support documentation:

1. Staff Report, dated 9-6-12, Planner to P&Z Board;
2. Draft minutes from the 9-18-12 regular P&Z Board meeting on this issue; and
3. Proposed Resolution 2012-19.

If you should have any questions, or desire any additional information, please do not hesitate to contact me.

BJW/dmc

M E M O R A N D U M

DATE: September 6, 2012

TO: Planning and Zoning Board

FROM: Ric Hartman, Town Planner
Planning, Zoning and Building Department

RE : Resolution 2012-19: Comprehensive Plan Amendment - Update to 10-year Potable Water Supply Work Plan

Florida Statutes require that the Town maintain a potable water supply work plan (work plan), covering at least a ten year planning period, which identifies water supply sources and projects necessary to serve existing and new development. The plan is required to be updated every five years by the regional water authority (Southwest Florida Water Management District aka SWFWMD) and by the Town within eighteen months of the regional update.

The attached Infrastructure Element and supplemental Data and Analysis (D&A) were modified as necessary in order to update the current work plan. The attached documents are presented to the Planning and Zoning Board for recommendation to the Town Commission at this time. All revisions are in legislative format (strike-through/underlined) and highlighted in yellow.

Upon approval by the Town Commission, the amended Infrastructure Element and supplemental D&A will be forwarded for review and comment to the Department of Economic Opportunity (DEO), acting as the state land planning agency, and other required regulatory agencies and adjacent governments. Once comments are received, an ordinance for adoption of the work plan will be presented to the Board and to the Commission.

AGENDA ITEM #2
RESOLUTION 2012-19, TRANSMITTAL OF THE UPDATE TO THE 10-YEAR WATER
SUPPLY PLAN

Pursuant to published notice, the public hearing was opened.

Ric Hartman, planner, discussed the staff report noting:

- the update was done every five years
- the Southwest Florida Water Management District (SWFWMD) updated their plan, and the Town was required to update our plan within 18 months from SWFWMD's update

Mr. Aitken referred to Policy 4.2.2, Exhibit 'B,' which discussed potable water capacity and water consumption pointing out that water consumption had gone down. Discussion ensued with staff explaining that the capacity with Manatee County was something the Town should retain; there was a distinction between where they were at now, but when the growth picks up, it was the Town's policy to acknowledge that. Anne Ross, engineer with the Public Works Department, explained that in 2003 the Town went to a tiered rate system so those who used more water paid a higher price; as years went by they have seen some decrease due to economy. The Town was allowed 2.5 million gallons per day through Manatee County.

The following discussions took place with staff:

- When the Colony Beach and Tennis Resort reopened would there be expansion available for the Longboat Key Club project and other future growth (Staff noted the Colony Beach capacity was already included in the calculations)
- Whether the Town was only paying the actual usage, and not the maximum usage; there was a monthly service fee and a volume fee. The Town was required to pay a certain amount per thousand gallons, and if they went over 2.5 million gallons, the county would impose a penalty
- That the facility fee was a one-time fee if it was shown there was a need, and if it was due to new development, the fee would be paid by the developer
- Concerning Exhibit 'A' in Policy 2.3.3, it discussed future facility sites or necessary rights-of-way and there was concern with the language 'not feasible;' it was suggested the wording be deleted, because it should always be feasible. The language was included so the Town did not restrict themselves if there was some unknown future need

MR. AITKEN MOVED TO STRIKE THE LAST TWO WORDS, "IF FEASIBLE," FROM THE END OF POLICY 2.3.3 IN OBJECTIVE 2.3. MR. WILD SECONDED THE MOTION.

Mr. Symanski asked if there were any possible future water facility sites. Juan Florensa, Public Works Director, referred to Policy 2.3.3 and pointed out that it provided flexibility to the Town. He explained that if a development developed their street system, it allowed the applicant the flexibility to work with the Town so the right-of-way (ROW) could be accommodated without the Town having to pay for the property, or require someone to move something out of the way.

Mr. Symanski believed the ordinance was referring to on-site, but if the language was removed, then the Town was ordering the applicant to provide the ROW and the Town would have to pay for it. Mr. Florensa responded the Town may or may not have to pay, because it depended upon interpretation.

Mr. Aitken withdrew his motion and Mr. Wild withdrew his second.

MR. WILD MOVED TO RECOMMEND APPROVAL OF RESOLUTION 2012-19 AS WRITTEN. MS. GOLDNER SECONDED THE MOTION.

Mr. Daly referred to Policy 1.1.11 and asked for an explanation as to why it was being proposed for elimination. Ms. Ross explained that Policy 1.1.11 referred to a program that was in place at the Public Works Department for reimbursement to the town residents as they installed rain sensors with irrigation systems. The program was no longer budgeted and had to be removed from the policies.

MOTION CARRIED ON ROLL CALL VOTE: AITKEN, AYE; DALY, AYE; GOLDNER, AYE; HACKETT, AYE; HIXON, AYE; SYMANSKI, AYE; WEBB, AYE; WILD, AYE.

RESOLUTION 2012-19

A RESOLUTION OF THE TOWN OF LONGBOAT KEY, FLORIDA, APPROVING FOR TRANSMITTAL FOR INITIAL REVIEW AS REQUIRED BY SECTION 163.3184(3), FLORIDA STATUTES, AMENDMENTS TO THE GOALS, OBJECTIVES, AND POLICIES AND RELATED DATA AND ANALYSIS OF THE INFRASTRUCTURE ELEMENT OF THE COMPREHENSIVE PLAN IN SUPPORT OF A 10-YEAR POTABLE WATER SUPPLY WORK PLAN; PROVIDING FOR SEVERABILITY; PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, the Community Planning Act, Sections 163.3161 through 163.32466, Florida Statutes, ("Act") authorizes and requires the Town of Longboat Key to adopt and amend a Comprehensive Plan in accordance with the Act; and

WHEREAS, Section 163.3177(6)(c), Florida Statutes, requires that every five years, at a minimum, the Town adopt and transmit to the state land agency a potable water supply work plan covering at least a 10-year planning period to serve existing and new development; and

WHEREAS, pursuant to the Act, Chapter 33 of the Town Code designates the Town of Longboat Key Planning and Zoning Board as the local planning agency responsible for the preparation of the local Comprehensive Plan and amendments thereto; and

WHEREAS, the Town provided due public notice of the Planning and Zoning Board public hearing on September 18, 2012, which was conducted in a manner that afforded public participation to the fullest extent possible for the review of the amended Infrastructure Element and Supplemental Data and Analysis report in support of the proposed 10-year potable water supply work plan; and

WHEREAS, at the public hearing on September 18, 2012, the Planning and Zoning Board recommended that the Town Commission approve the Comprehensive Plan amendments; and

WHEREAS, the Town Commission of the Town of Longboat Key, at a duly noticed public hearing on November 5, 2012, considered the proposed Comprehensive Plan amendments as recommended by the Planning and Zoning Board; and

WHEREAS, the Town Commission of the Town of Longboat Key, after review of the recommendations of the Planning and Zoning Board, comments made at public hearings, and careful consideration of the issues, finds that the proposed Comprehensive Plan amendments are consistent with the existing Comprehensive Plan and are in the best interest of the health, safety, and welfare of the citizens of Longboat Key; and

WHEREAS, the Town Commission of the Town of Longboat Key, after due public hearing, wishes to transmit the proposed Comprehensive Plan Amendments to the Florida Department of Economic Opportunity as the state planning agency, the Southwest Florida Regional Planning Council, Manatee County, Sarasota County, the

Florida Department of Environmental Protection, the Florida Department of Transportation, the Southwest Florida Water Management District, and the Florida Department of State for their review and comment pursuant to the Act.

NOW, THEREFORE, BE IT ORDAINED BY THE TOWN OF LONGBOAT KEY, FLORIDA, THAT:

SECTION 1. The Whereas clauses above are ratified and confirmed as true and correct.

SECTION 2. The proposed Comprehensive Plan amendments attached hereto and incorporated herein are hereby approved by the Town of Longboat Key for transmission to the Florida Department of Economic Opportunity as the state planning agency, the Southwest Florida Regional Planning Council, Manatee County, Sarasota County, the Florida Department of Environmental Protection, the Florida Department of Transportation, the Southwest Florida Water Management District, and the Florida Department of State.

SECTION 3. If any section, subsection, sentence, clause or provision of this Resolution is held invalid, the remainder of the Resolution shall not be affected.

SECTION 4. This Resolution becomes effective upon adoption in accordance with Law and the Charter of the Town of Longboat Key.

ADOPTED at a meeting of the Town Commission of the Town of Longboat Key this _____ day of _____, 2012.

James L. Brown, Mayor

ATTEST:

Trish Granger, Town Clerk

- Exhibit A-1: 2012 Amendments to the Potable Water sub-element of the Infrastructure Element in support of the 10-year Potable Water Supply Work Plan – Legislative Version.
- Exhibit A-2: 2012 Amendments to the Potable Water sub-element of the Infrastructure Element in support of the 10-year Potable Water Supply Work Plan – Clean Version.
- Exhibit B-1: 2012 Amendments to the Infrastructure Element Supplemental Data and Analysis report in support of the 10-year Potable Water Supply Work Plan – Legislative Version.
- Exhibit B-2: 2012 Amendments to the Infrastructure Element Supplemental Data and Analysis report in support of the 10-year Potable Water Supply Work Plan – Clean Version.

EXHIBIT "A-1"

RESOLUTION 2012-19

2012 Amendments to the Potable Water sub-element of the Infrastructure Element in support of the 10-year Potable Water Supply Work Plan

Legislative Version

**INFRASTRUCTURE
POTABLE WATER SUB-ELEMENT**

GOAL 1

The Town adopts a level of service (LOS) of 120 gallons per capita per day, ~~in accordance with the Town's Concurrency Management System,~~ based on ~~functional population pursuant to the Town's most recent Southwest Florida Water Management District (SWFWMD) Consumptive Water Use Permit.~~

OBJECTIVE 1.1

To meet and further reduce the per-capita usage of potable water by implementing and expanding the Town's water conservation program.

Policy 1.1.1

The Town will use the tiered pricing water rate structure as a primary incentive to limit potable water consumption. The Town will periodically review the tiered pricing system and may make adjustments to further conservation efforts.

Policy 1.1.2

The Town encourages the use of shallow wells, cisterns and/or retained stormwater for individual homeowners, as appropriate, for use as irrigation sources. Water of the lowest quality acceptable for the intended use will be used.

Policy 1.1.3

Water-conserving plumbing fixtures are required in all new development by state law, and the replacement of old fixtures with new water-conserving fixtures will be encouraged.

Policy 1.1.4

The Town will annually evaluate, and as appropriate pursue, grant opportunities from state and regional agencies to further the Town's water conservation programs.

Policy 1.1.5

In the development of water conservation plans and programs, the Town will use the **guiding principles of SWFWMD's Southern Water Use Caution Area (SWUCA) Recovery Plan Strategy.**

Policy 1.1.6

The Town will continue its public water conservation education effort on the issues affecting potable water supply, demand, and quality.

Policy 1.1.7

The Town will coordinate with the Southwest Florida Water Management District (SWFWMD) to locate and plug abandoned wells.

Policy 1.1.8

The Town will explore the availability of reclaimed or other alternative water with all of the local governments of Manatee and Sarasota Counties, and SWFWMD. If reclaimed water is available and it is determined by the Town Commission to be practical, economically feasible, environmentally sound, and technically possible, the Town will pursue all available funding, including grants, to assist in developing a reclaimed water system.

Policy 1.1.9

The Town will prohibit the installation of new irrigation meters on potable water lines.

Policy 1.1.10

The Town has implemented the water conservation conditions that are part of SWFWMD's Water Use Permit, issued in ~~2003~~ 2012.

~~Policy 1.1.11~~

~~The Town will augment its commitment to assist property owners in retrofitting existing irrigation systems with technology that increases efficiency and/or reduces consumption through a budgeted reimbursement program.~~

GOAL 2

The Town will provide efficient potable water service that is compatible with the conservation of natural resources.

OBJECTIVE 2.1

To implement the wholesale customer contract between the Town and Manatee County for the purchase of bulk potable water.

Policy 2.1.1

Pursuant to the bulk water contract with Manatee County, approved February, 2007, Manatee County will allocate 2.5 million gallons per day (mgd) reserve capacity in the County's potable water system for Town use.

Policy 2.1.2

~~Beginning On~~ October 1, 2007, ~~the Town may purchase~~ additional reserve capacity from Manatee County ~~became available for the Town to purchase~~, subject to the provisions in the bulk water contract, as amended.

Policy 2.1.3

By July 1 ~~in~~ each year that the bulk water contract is effective, Manatee County will provide the Town with estimated utility rates for the upcoming fiscal year.

Policy 2.1.4

The bulk water contract between the Town and Manatee County expires September 30, 2031, and includes a provision for one additional renewal period of ten (10) years.

OBJECTIVE 2.2

The Town will **develop and continue to maintain a database cross-referencing information on water use, asset age, and location maps of the distribution system.**

Policy 2.2.1

The Town will continue to collect data. Data will be collected and maintained on water use and the water distribution system. The data on water use will contain includes total Town water use; estimates of water use per connection; and, water use per capita. The data on the distribution system will includes a list of the system's components, locations, age and condition of the facilities, and useful life of the various components of the system.

Policy 2.2.2

An evaluation of the Town's potable water use database, collected in accordance with Policy 2.2.1, will be updated annually. If this evaluation confirms a need for potable water supply in excess of 2.5 million gallons per day (MGD), and is consistent with the Town's contract for bulk water purchase from Manatee County, the Town will negotiate with Manatee County to increase the Town's potable water supply allocation to reserve sufficient capacity to accommodate the Town's existing and future needs.

OBJECTIVE 2.3

The Town will **continue to maintain a 10-Year Potable Water Supply Facilities Work Plan.**

Policy 2.3.1

The Town has adopted a 10-Year Potable Water Supply Facilities Work Plan (10-year Work Plan) that meets the requirements of Chapters 163.3177 and 163.3191, Florida Statutes (FS), and SWFWMD. The 10-Year Potable Water Supply Facilities Work Plan will be contained within the Potable Water Sub-element of the Infrastructure Element in the Comprehensive Plan Capital Improvements Element.

Policy 2.3.2

The Public Works Department will updates and maintains a the 10-Year Potable Water Supply Facilities Work Plan and will use the work plan to prioritize projects to ensure the adopted LOS. The work plan will include projections of the capacity needed for existing and future population needs and a timetable for scheduling maintenance, replacements, and improvements. The 10-Year Water Supply Facilities Work Plan will be updated, at a minimum, within 18 months after the water management district SWFWMD approves an updated regional water supply plan.

Policy 2.3.3

The 10-Year Water Supply Facilities Work Plan will be coordinated with the Future Land

Use plan. If any future water facility sites or necessary rights-of-way for water infrastructure use are identified, they should be protected from development, if feasible.

Policy 2.3.4

The 10-Year Water Supply Facilities Work Plan will be coordinated with the Capital Improvements Element Plan so to ensure that plans for renovations, improvements, or new facilities will be identified in both plans. Project additions to the plans documents will be ranked in order of importance, with public health and safety considerations given the most importance. Improvements to the service area will be considered second.

Policy 2.3.5

The Town will coordinate with SWFWMD, Peace River Manasota Regional Water Supply Authority, Manatee County, Sarasota County, and the local governments in Sarasota and Manatee counties regarding water supply and the 10-Year Water Supply Facilities Work Plan, as appropriate.

OBJECTIVE 2.4

To promote the consideration of new technology and management practices and to increase the efficiency of the water system and water conservation.

Policy 2.4.1

The Town will participate with SWFWMD, and the Peace River Manasota Regional Water Supply Authority, and the Water Alliance in the investigation and promotion of new technologies and management practices that reduce costs and/or enhance water conservation.

Policy 2.4.2

Efficient potable water service will be promoted by maintaining the water distribution system in good working condition through timely maintenance, repairs, and improvements.

OBJECTIVE 2.5

To maintain adequate water pressure and to improve water quality.

Policy 2.5.1

By 2010, the existing water distribution system will be is interconnected into a the regional system, by its connection connecting to the City of Sarasota's water system at the Town's southern terminus, subject to the approved (August 2006) interlocal agreement with the City. The connection will enables the Town to continue uninterrupted service during an emergency.

Policy 2.5.2

The Town will continues to maintain the appropriate water pressure to ensure adequate fire flows and other public health, safety, and welfare purposes.

Policy 2.5.3

The Town will flush potable waterlines that are not part of the looped system to improve water quality.

GOAL 3

To coordinate with local governments and agencies to create efficient regional plans for efficient water resource management.

OBJECTIVE 3.1

The Town will coordinate with all appropriate governmental entities on studies of new technologies, which may be too expensive for one local government to consider on its own.

Policy 3.1.1

The Town will coordinate with SWFWMD, the Peace River Manasota Regional Water Supply Authority, and the Water Alliance, and other regional resource groups that investigate, evaluate, and promote resource conservation through new technologies, local policies, and public awareness campaigns consistent with SWFWMD's Regional Water Supply Plan and SWUCA Recovery Plan Strategy.

OBJECTIVE 3.2

The Town will cooperate with all appropriate state, regional and/or local entities on regional water resource management policies.

Policy 3.2.1

The Town will participate with the SWFWMD, Peace River Manasota Regional Water Supply Authority, and the Water Alliance, and other regional committees that to develop and promote regional resource management policies.

Policy 3.2.2

The Town will participate in regional surface water or groundwater monitoring projects or programs.

Policy 3.2.3

The Town will support and promote regional policies that encourage water conservation.

OBJECTIVE 3.3

To identify alternatives for potable water supply in emergency or disaster circumstances.

Policy 3.3.1

The Town will coordinate with SWFWMD, Peace River Manasota Regional Water Supply Authority, and the local governments in Sarasota and Manatee Counties during a local or regional emergency water shortage, to comply with approved potable water consumption restrictions. Actions by the Town must be consistent with the Town’s bulk water contract with Manatee County.

Policy 3.3.2

~~By 2010, the~~ **The** existing water distribution system ~~will be~~ **is** interconnected into **a the** regional system, by **its connection** ~~connecting~~ to the City of Sarasota’s water system at the Town’s southern terminus, subject to the ~~approved (August 2006)~~ interlocal agreement with the City. The connection **will** ~~enables~~ the Town to continue uninterrupted service during an emergency.

OBJECTIVE 3.4

If it is determined that there are any high or prime aquifer recharge areas within the Town, the Town will coordinate with SWFWMD to develop appropriate protections.

Policy 3.4.1

The Town will coordinate with SWFWMD to address appropriate protection for high or prime recharge areas.

GOAL 4
To identify and develop reliable sources of funding for improvements and expansions to the Town’s potable water system.

OBJECTIVE 4.1

The Town will maintain an adequate utility fund for water system improvements by adjusting rates, charges, and connection fees to reflect anticipated capital improvements.

Policy 4.1.1

The Town will periodically review charges and fees to ensure that they adequately cover anticipated repairs, maintenance, and improvement costs.

OBJECTIVE 4.2

The Town will require new development to be responsible for all costs incurred with expanding the water distribution system, and all costs incurred in additional potable water above that approved in the Town’s bulk water contract with Manatee County.

Policy 4.2.1

With the exception of development on Jewfish Key, the Town will require applicants to provide all facilities necessary to connect development to the Town's central water system.

Policy 4.2.2

The Town is at or near potable water capacity. A development project that requires additional potable water capacity will be required to pay the commensurate Facility Investment Fee for capacity improvements then in effect under the terms of the water agreement between the Town and Manatee County or its successor.

OBJECTIVE 4.3

The Town will seek new and innovative methods of financing public facilities.

Policy 4.3.1

The Town will explore innovative funding programs for public facilities, including intergovernmental coordination at the local, regional, and state levels, and coordination between the public and private sectors at the local level.

EXHIBIT "A-2"

RESOLUTION 2012-19

**2012 Amendments to the Potable Water sub-element of the Infrastructure Element
in support of the 10-year Potable Water Supply Work Plan**

Clean Version

**INFRASTRUCTURE
POTABLE WATER SUB-ELEMENT**

GOAL 1

The Town adopts a level of service (LOS) of 120 gallons per capita per day based on the Town's most recent Southwest Florida Water Management District (SWFWMD) Water Use Permit.

OBJECTIVE 1.1

To meet and further reduce the per-capita usage of potable water by implementing and expanding the Town's water conservation program.

Policy 1.1.1

The Town will use the tiered pricing water rate structure as a primary incentive to limit potable water consumption. The Town will periodically review the tiered pricing system and may make adjustments to further conservation efforts.

Policy 1.1.2

The Town encourages the use of shallow wells, cisterns and/or retained stormwater for individual homeowners, as appropriate, for use as irrigation sources. Water of the lowest quality acceptable for the intended use will be used.

Policy 1.1.3

Water-conserving plumbing fixtures are required in all new development by state law, and the replacement of old fixtures with new water-conserving fixtures will be encouraged.

Policy 1.1.4

The Town will annually evaluate, and as appropriate pursue, grant opportunities from state and regional agencies to further the Town's water conservation programs.

Policy 1.1.5

In the development of water conservation plans and programs, the Town will use the guiding principles of SWFWMD's Southern Water Use Caution Area (SWUCA) Recovery Strategy.

Policy 1.1.6

The Town will continue its public water conservation education effort on the issues affecting potable water supply, demand, and quality.

Policy 1.1.7

The Town will coordinate with the Southwest Florida Water Management District (SWFWMD) to locate and plug abandoned wells.

Policy 1.1.8

The Town will explore the availability of reclaimed or other alternative water with all of the local governments of Manatee and Sarasota Counties, and SWFWMD. If reclaimed water is available and it is determined by the Town Commission to be practical, economically feasible, environmentally sound, and technically possible, the Town will pursue all available funding, including grants, to assist in developing a reclaimed water system.

Policy 1.1.9

The Town will prohibit the installation of new irrigation meters on potable water lines.

Policy 1.1.10

The Town has implemented the water conservation conditions that are part of SWFWMD's Water Use Permit, issued in 2012.

GOAL 2

The Town will provide efficient potable water service that is compatible with the conservation of natural resources.

OBJECTIVE 2.1

To implement the wholesale customer contract between the Town and Manatee County for the purchase of bulk potable water.

Policy 2.1.1

Pursuant to the bulk water contract with Manatee County, approved February, 2007, Manatee County will allocate 2.5 million gallons per day (mgd) reserve capacity in the County's potable water system for Town use.

Policy 2.1.2

On October 1, 2007, additional reserve capacity from Manatee County became available for the Town to purchase, subject to the provisions in the bulk water contract, as amended.

Policy 2.1.3

By July 1 in each year that the bulk water contract is effective, Manatee County will provide the Town with estimated utility rates for the upcoming fiscal year.

Policy 2.1.4

The bulk water contract between the Town and Manatee County expires September 30, 2031, and includes a provision for one additional renewal period of ten (10) years.

OBJECTIVE 2.2

The Town will continue to maintain information on water use, asset age, and location maps of the distribution system.

Policy 2.2.1

The Town will continue to collect data on water use and the water distribution system. The data on water use includes total Town water use; estimates of water use per connection; and, water use per capita. The data on the distribution system includes a list of the system's components, locations, age and condition of the facilities, and useful life of the various components of the system.

Policy 2.2.2

An evaluation of the Town's potable water use data, collected in accordance with Policy 2.2.1, will be updated annually. If this evaluation confirms a need for potable water supply in excess of 2.5 million gallons per day (MGD), and is consistent with the Town's contract for bulk water purchase from Manatee County, the Town will negotiate with Manatee County to increase the Town's potable water supply allocation to reserve sufficient capacity to accommodate the Town's existing and future needs.

OBJECTIVE 2.3

The Town will continue to maintain a 10-Year Potable Water Supply Facilities Work Plan.

Policy 2.3.1

The Town has adopted a 10-Year Potable Water Supply Facilities Work Plan (10-year Work Plan) that meets the requirements of Chapters 163.3177 and 163.3191, Florida Statutes (FS), and SWFWMD. The 10-Year Work Plan will be contained within the Potable Water sub-element of the Infrastructure Element in the Comprehensive Plan.

Policy 2.3.2

The Public Works Department updates and maintains the 10-Year Work Plan and will use the work plan to prioritize projects to ensure the adopted LOS. The work plan will include projections of the capacity needed for existing and future population needs and a timetable for scheduling maintenance, replacements, and improvements. The 10-Year Water Supply Facilities Work Plan will be updated, at a minimum, within 18 months after SWFWMD approves an updated regional water supply plan.

Policy 2.3.3

The 10-Year Water Supply Facilities Work Plan will be coordinated with the Future Land Use plan. Future water facility sites or necessary rights-of-way for water infrastructure use should be protected from development, if feasible.

Policy 2.3.4

The 10-Year Work Plan will be coordinated with the Capital Improvements Element to ensure that plans for renovations, improvements, or new facilities will be identified in both

plans. Project additions to the documents will be ranked in order of importance, with public health and safety considerations given the most importance. Improvements to the service area will be considered second.

Policy 2.3.5

The Town will coordinate with SWFWMD, Peace River Manasota Regional Water Supply Authority, Manatee County, Sarasota County, and the local governments in Sarasota and Manatee counties regarding water supply and the 10-Year Water Supply Facilities Work Plan, as appropriate.

OBJECTIVE 2.4

To promote the consideration of new technology and management practices and to increase the efficiency of the water system and water conservation.

Policy 2.4.1

The Town will participate with SWFWMD, and the Peace River Manasota Regional Water Supply Authority, and the Water Alliance in the investigation and promotion of new technologies and management practices that reduce costs and/or enhance water conservation.

Policy 2.4.2

Efficient potable water service will be promoted by maintaining the water distribution system in good working condition through timely maintenance, repairs, and improvements.

OBJECTIVE 2.5

To maintain adequate water pressure and to improve water quality.

Policy 2.5.1

The existing water distribution system is interconnected into the regional system, by its connection to the City of Sarasota's water system at the Town's southern terminus, subject to the interlocal agreement with the City. The connection enables the Town to continue uninterrupted service during an emergency.

Policy 2.5.2

The Town continues to maintain appropriate water pressure to ensure adequate fire flows and other public health, safety, and welfare purposes.

Policy 2.5.3

The Town will flush potable waterlines that are not part of the looped system to improve water quality.

GOAL 3

To coordinate with local governments and agencies to create regional plans for efficient water resource management.

OBJECTIVE 3.1

The Town will coordinate with all appropriate governmental entities on studies of new technologies, which may be too expensive for one local government to consider on its own.

Policy 3.1.1

The Town will coordinate with SWFWMD, the Peace River Manasota Regional Water Supply Authority, and the Water Alliance, and other regional resource groups that investigate, evaluate, and promote resource conservation through new technologies, local policies, and public awareness campaigns consistent with SWFWMD's Regional Water Supply Plan and SWUCA Recovery Strategy.

OBJECTIVE 3.2

The Town will cooperate with all appropriate state, regional and/or local entities on regional water resource management policies.

Policy 3.2.1

The Town will participate with SWFWMD, Peace River Manasota Regional Water Supply Authority, and the Water Alliance, and other regional committees to develop and promote regional resource management policies.

Policy 3.2.2

The Town will participate in regional surface water or groundwater monitoring projects or programs.

Policy 3.2.3

The Town will support and promote regional policies that encourage water conservation.

OBJECTIVE 3.3

To identify alternatives for potable water supply in emergency or disaster circumstances.

Policy 3.3.1

The Town will coordinate with SWFWMD, Peace River Manasota Regional Water Supply Authority, and the local governments in Sarasota and Manatee Counties during a local or regional emergency water shortage, to comply with approved potable water consumption restrictions. Actions by the Town must be consistent with the Town's bulk water contract with Manatee County.

Policy 3.3.2

The existing water distribution system is interconnected into the regional system, by its connection to the City of Sarasota's water system at the Town's southern terminus, subject to the interlocal agreement with the City. The connection enables the Town to continue uninterrupted service during an emergency.

OBJECTIVE 3.4

If it is determined that there are any high or prime aquifer recharge areas within the Town, the Town will coordinate with SWFWMD to develop appropriate protections.

Policy 3.4.1

The Town will coordinate with SWFWMD to address appropriate protection for high or prime recharge areas.

GOAL 4
To identify and develop reliable sources of funding for improvements and expansions to the Town's potable water system.

OBJECTIVE 4.1

The Town will maintain an adequate utility fund for water system improvements by adjusting rates, charges, and connection fees to reflect anticipated capital improvements.

Policy 4.1.1

The Town will periodically review charges and fees to ensure that they adequately cover anticipated repairs, maintenance, and improvement costs.

OBJECTIVE 4.2

The Town will require new development to be responsible for all costs incurred with expanding the water distribution system, and all costs incurred in additional potable water above that approved in the Town's bulk water contract with Manatee County.

Policy 4.2.1

With the exception of development on Jewfish Key, the Town will require applicants to provide all facilities necessary to connect development to the Town's central water system.

Policy 4.2.2

The Town is at or near potable water capacity. A development project that requires additional potable water capacity will be required to pay the commensurate Facility Investment Fee for capacity improvements then in effect under the terms of the water agreement between the Town and Manatee County or its successor.

OBJECTIVE 4.3

The Town will seek new and innovative methods of financing public facilities.

Policy 4.3.1

The Town will explore innovative funding programs for public facilities, including intergovernmental coordination at the local, regional, and state levels, and coordination between the public and private sectors at the local level.

EXHIBIT "B-1"

RESOLUTION 2012-19

**2012 Amendments to the Infrastructure Element Supplemental Data and Analysis
report in support of the 10-year Potable Water Supply Work Plan**

Legislative Version

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INFRASTRUCTURE

I. POTABLE WATER SUBELEMENT AND 10-YEAR WATER SUPPLY FACILITIES WORK PLAN

A. POTABLE WATER SYSTEM

The Town of Longboat Key owns and operates a potable water distribution system. The Town purchases potable water from Manatee County through a wholesale contract. The wholesale water contract between Longboat Key and Manatee County, signed February 6, 2007, will be effective until the year 2031. A copy of the wholesale water contract is presented as Appendix A. The water contract allocates 2.5 million gallons per day (MGD) reserve capacity in the County's potable water system for Town use. The wholesale contract is the vehicle that the Town and Manatee County utilize for coordinating water supply and demand needs. Per Item No. 2 in the agreement, additional reserve capacity is an option should the Town demonstrate a need and pay a Facility Investment Fee (FIF). The Town, as the water purveyor, resells the water to its residents.

The Town's water facilities include 42 miles of water lines, 345 fire hydrants, and 3 pumping stations. The three pumping stations are the Mid-Key Station No. 1, the South Key Station No. 2, and the Inline Booster Station No. 3 (Appendix B: Figure 1). The water storage facilities consist of a 1.0-million-gallon tank at the South Key Station and a 1.5-million-gallon tank at the Mid-Key Station. The main potable pipeline providing water service from Manatee County traverses Longboat Pass via the Longboat Pass Bridge. The 16-inch diameter pipeline was put into operation in 1984. A secondary potable pipeline is east of the Longboat Pass Bridge and was constructed in 1971. A secondary backup water interconnect source from the City of Sarasota was completed in 2008. The sub-aqueous pipelines were inspected in January 2007 October 2011 and found to be in good condition. This potable pipeline is not utilized but is kept under pressure for emergency purposes. Replacement of the main potable pipeline with a subaqueous pipeline is planned for 2014. A secondary backup water interconnect source from the City of Sarasota was completed in 2008.

B. LONGBOAT KEY POTABLE WATER SOURCE - MANATEE COUNTY POTABLE WATER SYSTEM

The Town of Longboat Key purchases potable water from Manatee County through a wholesale contract. Manatee County Public Works Department's Cortez Pumping Station is used to maintain flow and pressure to Anna Maria Island and Longboat Key. The pumping station consists of two small pumps, one large pump, and a one million gallon ground storage tank. A copy of the wholesale water contract is presented as Appendix A. Detailed information regarding Manatee County's Water Supply Plan is presented in through the Manatee County Final Water Supply Facilities Work Plan, May 2008.

C. GEOGRAPHIC SERVICE AREA

The geographic service area of the Longboat Key water system is limited to includes the Longboat Key corporate limits, excluding Jewfish Key. Jewfish Key is within the Island Preserve Land Use category, designated as one home per five acres and can accommodate a total of thirteen home sites, which will require water wells for domestic purposes. The existing four residences located on Jewfish Key are using wells for potable water and it has been the Town's policy to does not require hook-up to the system. Domestic water wells for each home site on Jewfish Key will result in a withdrawal of 200 gallons per day from ground water resources, assuming 100 gallons per capita per day (gpcd). Domestic water wells of this nature are anticipated to tap the Intermediate Aquifer or the Floridan Aquifer system for potable water. Since at build out these wells will have a minimal collective withdrawal rate of 2,600 gallons per day, they are not anticipated to create or cause harm to the natural environment.

D. CAPACITY ANALYSIS AND WATER SUPPLY AND DEMAND PROJECTIONS

The Manatee County Lake Manatee Water Treatment Plant is the primary source of drinking water for the Town of Longboat Key. Longboat Key can receive an average of 2.5 MGD from Manatee County. The 2009 2011 functional population of Longboat Key is 17,224 16,810, based on the SWFWMD Water Use Permit Information Manual: Requirements for the Estimation of Permanent and Temporal Service area Populations in the Southern Water Use Caution Area, Appendix C dated November 20, 2009. Based upon the Town's 2011 2009 Water Use Public Supply Survey the Town's water use was 98.7 gallons per capita day (gpcd).

The Town of Longboat Key is virtually built out, unless and until redevelopment or revitalization occur, with most construction centering focused on redevelopment. Analysis of Ppopulation projections indicates that a shift in demographics is occurring. A portion of tThe Town's tourism component is being replaced by low-density residential development, which results in a slight increase in residential development population coupled with a decrease in tourism population. Overall, the Town's population is declining. The need for new Wwater facilities consumption is not expected to increase significantly nor require new water supply facilities for the 10-year planning horizon, unless and until redevelopment or revitalization occurs. The Hilton Hotel has proposed using a portion of the previously approved 250 tourism units to construct an additional 80 tourism units in 2014 at its local facility. Although Key Club Associates received site plan approval from the Town Commission in 2009 for the development of 8 residential villas with 52 dwelling units, 70 multifamily residential dwelling units, 103 residential/tourism units, and 196 tourism units in the Mixed Use Community – 1 (Bay Isles) (MUC-1), that approval has been challenged in the courts. The timing of this development cannot be ascertained until the end of all legal proceedings but it is anticipated to come on line before 2025.

Longboat Key anticipates a small increase in potable water demand for tourism units as a result of the referendum vote of March 16, 2008, in which the Town approved the

adoption of land development regulations that provide a process to allow for a limited increase of density and intensity standards for the development of no more than a total of 250 tourism units islandwide to help restore the historic balance between residential and tourism uses. Based on the potable water level of service and census density per dwelling unit, the maximum expected water demand from the 250 tourism units is expected to be 60,000 gallons per day, when and if redevelopment or revitalization occur that use the available units.

As requests for development of the 250 tourism units are brought to the Town, any approvals in excess of 500 gallons per day shall require the developer to secure the requisite increased capacity from Manatee County and pay the appropriate Facility Investment Fee in accordance with a developer's agreement. By ordinance, a development that requires an increase in demand for potable water in excess of 500 gallons per day would invoke the provisions of the water agreement with Manatee County for increasing reserve capacity/available supply. The contract allows for increased the reserve capacity to be annually increased from the previous year's capacity purchased on a yearly basis in 1,000 gallon per day increments.

The total expected increase in demand presented by the additional tourism units will not require any capital improvements. The existing water distribution system is adequate to accommodate this increase. The Town anticipates no the additional development of 80 tourism units for the proposed Hilton development in the first two to three years because of the approval and construction processes, followed by a spike of 50 to 60 units the next year, then a slow progression of tourism development on the magnitude of five to ten 10 to 20 units per year over the remainder of the 10-year planning horizon or until the 250 units are committed. The decrease in the anticipated use and development of the available tourism units is based on the lack of development proposals since the 250 units became available several years ago.

According to the Town's Land Use Element, the permanent population is not projected to slightly increase between 2010~~2~~ and 201~~25~~⁷, by seven individuals however and the functional population is projected to increase slightly, by 400 498 individuals. Coupling this information with the recently adopted 250 tourism unit increase (550 capita equivalent), Table 1 provides the water demand and population projections for the 10 year Water Supply Plan.

**TABLE 1
WATER DEMAND AND POPULATION PROJECTIONS
BY YEAR**

Year	Permanent Population	Functional Population	Water Demand (mgd)
2009	7,770	17,224	2.50
2010	7,770	17,224	2.50
2011	7,770	17,224	2.50

2012	7,770 6,888	17,224 16,344	2.50
2013	7,770 6,888	17,224 16,344	2.50
2014	7,770 6,888	17,224 16,424	2.50
2015	7,770 6,895	17,819 16,441	2.55 2.51
2016	7,770 6,895	17,846 16,451	2.56 2.51
2017	7,770 6,895	17,873 16,461	2.57 2.51
2018	7,770 6,895	17,900 16,471	2.58 2.51
2019	7,770 6,895	17,927 16,481	2.59 2.51
2020	7,770 6,895	17,954 16,491	2.60 2.52
2025	7,770 6,947	17,954 16,842	2.60 2.56

Note: 2011 Permanent Population based on 2010 U. S. Census Bureau data.

2009 2011 Functional Population based on SWFWMD calculation method in the Town of Longboat Key 2009 2011 Water Use Public Supply Survey.

E. ALTERNATIVE WATER SOURCES AND SUPPLY PROJECTS

Alternative water sources are not required to meet projected demands for the Town of Longboat Key. The Town relies on Manatee County as its supplier for alternative sources. However, the Town has a continued commitment to exploring alternative water source options with the local governments of Manatee and Sarasota Counties, and the Southwest Florida Water Management District (SWFWMD). As a consecutive system to Manatee County and approaching build out status, unless and until redevelopment or revitalization occurs, the Town does not have a specific future project identified in the Water Supply Development Option in the SWFWMD 2006 2010 Regional Water Supply Plan. However, the SWFWMD Plan contains a reference to an emergency potable water interconnect between the Town and the City of Sarasota that has been completed. ~~However, t~~The Town continues to ~~does~~ monitor the region's water issues to support other local governments and to explore opportunities available to the Town.

~~The Town has secured an emergency alternative water source.~~ The Town of Longboat Key and the City of Sarasota have interconnected their respective potable water systems through an interlocal agreement entered into an interlocal agreement to interconnect their respective potable water systems. The interconnection provides an additional water source to the Town in case of emergencies or low water pressure. Construction of the interconnect commenced in 2007 and was completed in 2008. Funding for the interconnect accumulated annually since FY 2005 and totaled \$1.5 million. This interconnection project is supported by SWFWMD and the Peace River/Manasota Regional Water Supply Authority (PRMWSA). Fund matching was provided by the Manasota Basin Board of SWFWMD through the Cooperative Funding Initiative. The PRMWSA ranked the interconnect as a priority short list project through the Regional System Planning and Engineering Study, August 2005.

The Town implemented a Water Conservation Plan in 2004 to promote responsible

consumption. The Water Conservation Plan has been effective and the overall water consumption has decreased an average of **26 27.8%** from 2003 to **2009 2011**. Table 2 presents the annual average daily water consumption.

**TABLE 2
WATER CONSUMPTION BY YEAR**

Year	Average Daily Consumption (mgd)
2003	2.30
2004	2.15
2005	1.86
2006	1.91
2007	1.87
2008	1.83
2009	1.70
2010	1.68
2011	1.66

The Town water conservation program is ongoing. Funding is provided through the Town utility system and has an annual budget of \$2,000. As a part of the **W**ater **C**onservation **p**rogram **P**lan, the Town utilizes:

- **Inverted rate structure:**
A tiered structure of increasing rates with increasing volume of water utilized is employed. The tiered structure is designed to promote efficient use of water.
- **Low flow plumbing fixtures:**
Low flow plumbing fixtures are available to residents to promote efficient water use.
- **Shut-off devices for irrigation systems:**
Ordinance 05-15 requires the use of an automatic rain shut off device for all automated irrigation systems.
- **Landscape ordinance for irrigation efficiency:**
Ordinance 06-14 requires the use of efficient irrigation practices in the planning and maintenance of landscaped areas.
- **Watering restrictions:**
Irrigation on Longboat Key is allowed only once per week. This restriction is enforced by the Longboat Key Police Department.
- **Outreach education:**
The Town promotes efficient water use through many outreach programs such as education seminars, presentations to homeowner associations and local clubs, and booth participation at local conferences and expos.

F. PERMITS AND REGULATIONS

The impact of the potable water supply system on the water resources is regulated by the SWFWMD under its consumptive use permitting program. To ensure that the water resources are adequately protected, withdrawal quantities and the length of the permit duration are determined by SWFWMD staff hydrologists through a water use permit (WUP). The quantity of water withdrawn is regulated by SWFWMD under Chapter 40D-2, FAC, Consumptive Use. The Town of Longboat Key coordinates with SWFWMD directly through a WUP and indirectly through its water supplier Manatee County's WUPs. Longboat Key is located within a highly scrutinized area designated as the Most Impacted Area (MIA) of the Southwest Water Use Caution Area (SWUCA). This designation is based on an area where water resources are or will become critical.

Longboat Key operates under WUP No. 20010963.002003 issued April 28, 2004 January 24, 2012 and is subject to renewal in 2014. Special Condition No. 40 6 identifies that the permit quantities are based on a the current standard of 100 gpcd but and also sets an upper limit of 120 gpcd. The Town sets peak season adopts a potable water levels of service at 120 gpcd. Based upon the Town's 2011 Water Use Public Supply Survey, the annual water use was 98.7 gpcd, significantly below the permit limit.

Manatee County has a series of WUPs allowing the withdrawal of surface water and groundwater. The WUPs that Manatee County operates under are discussed in detail in the Manatee County's Water Supply Plan, Manatee County Final Water Supply Facilities Work Plan, May 2008.

G. CONDITION OF FACILITIES, PERFORMANCE, AND CAPITAL IMPROVEMENTS

The Town's potable water distribution system is capable of providing the Town's adopted level of service. An aggressive five-year Capital Improvement Plan (CIP) is utilized to maintain and increase the efficiency of the distribution system. The five-year schedule of improvements, the long range (years 6-10) capital projects, and the demonstration of financial feasibility is provided in the Capital Improvements Element's (CIE) Data and Analysis. The CIE will be updated on an annual basis. The 10-year Water Supply Work Plan contained in the Infrastructure Element will be updated within 18 months after SWFWMD approves its Regional Water Supply Plan 2010 Update. The Town's water system is generally in good to fair condition. Needed rehabilitation and maintenance of the water storage facilities and select piping networks is currently underway were completed in 2011. The planned improvements will increased efficiency, reliability, and emergency capabilities. These improvements are were a part of an adopted five-year CIP adopted by the Town and updated annually.

H. LOCAL REGULATIONS

The Town of Longboat Key regulates water use under Town Code Chapters 50 through 54. All buildings within the Town's service area are required to connect to the Town's water system with the exception of single-family residences using acceptable private

water sources on Jewfish Key. Under Chapter 53 of the Town Code, the Town Commission can declare an emergency drought condition; can define the boundaries of the affected area; and can limit water use through restrictions on the quantity, purpose, and timing of water use. Chapter 54 of the Code contains water shortage regulations for water shortage emergencies declared in any part of Manatee County or Sarasota County by SWFWMD. The water-use restrictions adopted by SWFWMD, as outlined in Chapter 40D-21, FAC, are subject to enforcement action by law enforcement officials of the county or municipality. Town water-use restrictions are enforced to the extent that they are more restrictive than and are not inconsistent with SWFWMD's restrictions. Violations are subject to fines and imprisonment.

EXHIBIT "B-2"

RESOLUTION 2012-19

**2012 Amendments to the Infrastructure Element Supplemental Data and Analysis
report in support of the 10-year Potable Water Supply Work Plan**

Clean Version

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A. POTABLE WATER SYSTEM

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C. GEOGRAPHIC SERVICE AREA

The geographic service area of the Longboat Key water system is limited to the Longboat Key corporate limits, excluding Jewfish Key. Jewfish Key is within the Island Preserve Land Use category, designated as one home per five acres and can accommodate a total of thirteen home sites, which require water wells for domestic purposes and the Town's policy does not require hook-up to the system. Domestic

water wells for each home site on Jewfish Key will result in a withdrawal of 200 gallons per day from ground water resources, assuming 100 gallons per capita per day (gpcd). Domestic water wells of this nature are anticipated to tap the Intermediate Aquifer or the Floridan Aquifer system for potable water. Since at build out these wells will have a minimal collective withdrawal rate of 2,600 gallons per day, they are not anticipated to create or cause harm to the natural environment.

D. CAPACITY ANALYSIS AND WATER SUPPLY AND DEMAND PROJECTIONS

The Manatee County Lake Manatee Water Treatment Plant is the primary source of drinking water for the Town of Longboat Key. Longboat Key can receive an average of 2.5 MGD from Manatee County. The 2011 functional population of Longboat Key is 16,810, based on the SWFWMD Water Use Permit Information Manual: Requirements for the Estimation of Permanent and Temporal Service area Populations in the Southern Water Use Caution Area, Appendix C dated November 20, 2009. Based upon the Town's 2011 Water Use Public Supply Survey the Town's water use was 98.7 (gpcd).

The Town of Longboat Key is virtually built out, unless and until redevelopment or revitalization occurs, with most construction centering on redevelopment. Analysis of population projections indicates a shift in demographics. A portion of the Town's tourism component is being replaced by low-density residential development, which results in a slight increase in residential population coupled with a decrease in tourism. Overall, the Town's population is declining. The need for new water facilities is not expected to increase significantly nor require new water supply facilities for the 10-year planning horizon, unless and until redevelopment or revitalization occurs. The Hilton Hotel has proposed using a portion of the previously approved 250 tourism units to construct an additional 80 tourism units in 2014 at its local facility. Although Key Club Associates received site plan approval from the Town Commission in 2009 for the development of 8 residential villas with 52 dwelling units, 70 multifamily residential dwelling units, 103 residential/tourism units, and 196 tourism units in the Mixed Use Community – 1 (Bay Isles) (MUC-1), that approval has been challenged in the courts. The timing of this development cannot be ascertained until the end of all legal proceedings but it is anticipated to come on line before 2025.

Longboat Key anticipates a small increase in potable water demand for tourism units as a result of the referendum vote of March 16, 2008, in which the Town approved the adoption of land development regulations that provide a process to allow for a limited increase of density and intensity standards for the development of no more than a total of 250 tourism units islandwide to help restore the historic balance between residential and tourism uses. Based on the potable water level of service and census density per dwelling unit, the maximum expected water demand from the 250 tourism units is expected to be 60,000 gallons per day, when and if redevelopment or revitalization occur that use the available units.

As requests for development of the 250 tourism units are brought to the Town, any approvals in excess of 500 gallons per day shall require the developer to secure the

requisite increased capacity from Manatee County and pay the appropriate Facility Investment Fee in accordance with a developer's agreement. By ordinance, a development that requires an increase in demand for potable water in excess of 500 gallons per day would invoke the provisions of the water agreement with Manatee County for increasing reserve capacity/available supply. The contract allows for the reserve capacity to be annually increased from the previous year's capacity in 1,000 gallon per day increments.

The total expected increase in demand presented by the additional tourism units will not require any capital improvements. The existing water distribution system is adequate to accommodate this increase. The Town anticipates the additional development of 80 tourism units for the proposed Hilton development in the first two to three years because of the approval and construction processes, followed by a spike of 50 to 60 units the next year, then a slow progression of tourism development on the magnitude of five to ten units per year over the remainder of the 10-year planning horizon or until the 250 units are committed. The decrease in the anticipated use and development of the available tourism units is based on the lack of development proposals since the 250 units became available several years ago.

According to the Town's Land Use Element, the permanent population is projected to slightly increase between 2012 and 2025, by seven individuals and the functional population is projected to increase by 498 individuals. Coupling this information with the recently adopted 250 tourism unit increase (550 capita equivalent), Table 1 provides the water demand and population projections for the 10 year Water Supply Plan.

**TABLE 1
WATER DEMAND AND POPULATION PROJECTIONS
BY YEAR**

Year	Permanent Population	Functional Population	Water Demand (mgd)
2012	6,888	16,344	2.50
2013	6,888	16,344	2.50
2014	6,888	16,424	2.50
2015	6,895	16,441	2.51
2016	6,895	16,451	2.51
2017	6,895	16,461	2.51
2018	6,895	16,471	2.51
2019	6,895	16,481	2.51
2020	6,895	16,491	2.52
2025	6,947	16,842	2.56

Note: 2011 Permanent Population based on 2010 U. S. Census Bureau data.

2011 Functional Population based on SWFWMD calculation method in the Town of Longboat Key 2011 Water Use Public Supply Survey.

E. ALTERNATIVE WATER SOURCES AND SUPPLY PROJECTS

Alternative water sources are not required to meet projected demands for the Town of Longboat Key. The Town relies on Manatee County as its supplier for alternative sources. However, the Town has a continued commitment to exploring alternative water source options with the local governments of Manatee and Sarasota Counties, and the Southwest Florida Water Management District (SWFWMD). As a consecutive system to Manatee County and approaching build out status, unless and until redevelopment or revitalization occurs, the Town does not have a specific future project identified in the Water Supply Development Option in the SWFWMD 2010 Regional Water Supply Plan. However, the SWFWMD Plan contains a reference to an emergency potable water interconnect between the Town and the City of Sarasota that has been completed. The Town continues to monitor the region's water issues to support other local governments and to explore opportunities available to the Town.

The Town of Longboat Key and the City of Sarasota have interconnected their respective potable water systems through an interlocal agreement. The interconnection provides an additional water source to the Town in case of emergencies or low water pressure. Construction of the interconnect commenced in 2007 and was completed in 2008. Funding for the interconnect accumulated annually since FY 2005 and totaled \$1.5 million. This interconnection project is supported by SWFWMD and the Peace River/Manasota Regional Water Supply Authority (PRMWSA). Fund matching was provided by the Manasota Basin Board of SWFWMD through the Cooperative Funding Initiative. The PRMWSA ranked the interconnect as a priority short list project through the Regional System Planning and Engineering Study, August 2005.

The Town implemented a Water Conservation Plan in 2004 to promote responsible consumption. The Water Conservation Plan has been effective and the overall water consumption has decreased an average of 27.8% from 2003 to 2011. Table 2 presents the annual average daily water consumption.

TABLE 2
WATER CONSUMPTION BY YEAR

Year	Average Daily Consumption (mgd)
2003	2.30
2004	2.15
2005	1.86
2006	1.91
2007	1.87
2008	1.83
2009	1.70
2010	1.68
2011	1.66

The Town water conservation program is ongoing. Funding is provided through the Town utility system and has an annual budget of \$2,000. As a part of the water conservation program, the Town utilizes:

- **Inverted rate structure:**
A tiered structure of increasing rates with increasing volume of water utilized is employed. The tiered structure is designed to promote efficient use of water.
- **Low flow plumbing fixtures:**
Low flow plumbing fixtures are available to residents to promote efficient water use.
- **Shut-off devices for irrigation systems:**
Ordinance 05-15 requires the use of an automatic rain shut off device for all automated irrigation systems.
- **Landscape ordinance for irrigation efficiency:**
Ordinance 06-14 requires the use of efficient irrigation practices in the planning and maintenance of landscaped areas.
- **Watering restrictions:**
Irrigation on Longboat Key is allowed only once per week. This restriction is enforced by the Longboat Key Police Department.
- **Outreach education:**
The Town promotes efficient water use through many outreach programs such as education seminars, presentations to homeowner associations and local clubs, and booth participation at local conferences and expos.

F. PERMITS AND REGULATIONS

The impact of the potable water supply system on the water resources is regulated by the SWFWMD under its consumptive use permitting program. To ensure that the water resources are adequately protected, withdrawal quantities and the length of the permit duration are determined by SWFWMD staff hydrologists through a water use permit (WUP). The quantity of water withdrawn is regulated by SWFWMD under Chapter 40D-2, FAC, Consumptive Use. The Town of Longboat Key coordinates with SWFWMD directly through a WUP and indirectly through its water supplier Manatee County's WUPs. Longboat Key is located within a highly scrutinized area designated as the Most Impacted Area (MIA) of the Southwest Water Use Caution Area (SWUCA). This designation is based on an area where water resources are or will become critical.

Longboat Key operates under WUP No. 20010963.003 issued January 24, 2012 and is subject to renewal in 2014. Special Condition No. 6 identifies that the permit quantities are based on a 100 gpcd and also sets an upper limit of 120 gpcd. The Town adopts a potable water level of service at 120 gpcd. Based upon the Town's 2011 Water Use Public Supply Survey, the annual water use was 98.7 gpcd, significantly below the permit limit.

Manatee County has a series of WUPs allowing the withdrawal of surface water and

groundwater. The WUPs that Manatee County operates under are discussed in detail in the Manatee County Water Supply Facilities Work Plan.

G. CONDITION OF FACILITIES, PERFORMANCE, AND CAPITAL IMPROVEMENTS

The Town's potable water distribution system is capable of providing the adopted level of service. An aggressive five-year Capital Improvement Plan (CIP) is utilized to maintain and increase the efficiency of the distribution system. The five-year schedule of improvements, the long range (years 6-10) capital projects, and the demonstration of financial feasibility is provided in the Capital Improvements Element's (CIE) Data and Analysis. The CIE will be updated on an annual basis. The 10-year Water Supply Work Plan contained in the Infrastructure Element will be updated within 18 months after SWFWMD approves its Regional Water Supply Plan update. The Town's water system is generally in good to fair condition. Needed rehabilitation and maintenance of the water storage facilities and select piping networks were completed in 2011. The improvements increased efficiency, reliability, and emergency capabilities. These improvements were part of an adopted five-year CIP.

H. LOCAL REGULATIONS

The Town of Longboat Key regulates water use under Town Code Chapters 50 through 54. All buildings within the Town's service area are required to connect to the Town's water system with the exception of single-family residences using acceptable private water sources on Jewfish Key. Under Chapter 53 of the Town Code, the Town Commission can declare an emergency drought condition; can define the boundaries of the affected area; and can limit water use through restrictions on the quantity, purpose, and timing of water use. Chapter 54 of the Code contains water shortage regulations for water shortage emergencies declared in any part of Manatee County or Sarasota County by SWFWMD. The water-use restrictions adopted by SWFWMD, as outlined in Chapter 40D-21, FAC, are subject to enforcement action by law enforcement officials of the county or municipality. Town water-use restrictions are enforced to the extent that they are more restrictive than and are not inconsistent with SWFWMD's restrictions. Violations are subject to fines and imprisonment.



End of Agenda Item