

One Water





One Water

General Drainage, Potable Water, Sanitary Sewer, and Natural Groundwater Aquifer Recharge Element per Chapter 163

Introduction

ne Water represents a holistic and integrated approach to planning for potable water, wastewater, stormwater, and the natural environment within Hillsborough County. The concept rests on the knowledge that all water is interrelated, and all water has value. Matching the right water resource to the right use can be used as an innovative solution to meet growing population demands. Viewing water holistically enables the County to be more flexible and quick to address threats like storm surge, changing rainfall patterns, and the increased need for resiliency.

The One Water Chapter synthesizes and modernizes the water resources-related language that previously lived in siloed Elements. The Chapter combines the Potable Water, Sanitary Sewerage, and Stormwater Elements as well as water resource related language from the Conservation and Aquifer Recharge, Future Land Use, Coastal Management, and Capital Improvements Elements. In addition, the Chapter contains new language that is on the forefront of water resources management, such as green infrastructure, multi-use projects, and coordinated water infrastructure planning.



The Chapter is a collaboration between stakeholders from the One Water Working Group, which represent staff from across the County: the Water Resources Department, Environmental Management Division, Development Services Department and Engineering and Operations Department. Via this integrated approach to Comprehensive Planning, the One Water Chapter sets the stage for implementation of creative programming by the County. The Chapter ensures projects consider the impact of one resource on another and take a holistic view to optimize resources and maximize benefits across the County.

Goals

- 1 Protect and preserve water resources.
- 2 Increase water conservation.
- Pursue opportunities for integrated water resource management.
- The planning and construction of water resources infrastructure should encourage fiscal sustainability and the efficient use and redevelopment of land.
- Water resource infrastructure and programs will be constructed and managed in a fiscally and environmentally sustainable manner.
- 6 Expand the use of Low Impact Development (LID) principles in the built environment.





No matter who we are, where we live, or what we do, water connects all of us.

When we embrace
the belief that water
in all its forms has
value—water in our
lakes, seas, rivers,
streams, drinking
water, wastewater,
and stormwater—the
full water life cycle
can be optimized
to build strong
economies, vibrant
communities,
and healthy
environments.

- US Water Alliance

Protect and preserve water resources.

1

Objective 1.1

Protect, and where feasible, improve water resources via a robust regulatory framework.

- 1.1.1 Meet or exceed regulatory standards for all water systems.
- 1.1.2 Maintain technical design standards for water resources infrastructure that protect human health, safety and the environment.
- 1.1.3 Stormwater technical design standards will address the cumulative impacts on flooding and water quality.
- 1.1.4 For new development, there shall be no direct discharge into riverine systems, lakes, streams or creeks from adjacent development without first providing adequate water quality treatment.
- 1.1.5 Encourage and support Low Impact Development (LID) or green infrastructure type treatment systems, and work with other agencies and stakeholders to address further implementation measures as appropriate.
- 1.1.6 Prevent the introduction of harmful materials and/or chemicals into the County wastewater and stormwater system.
- 1.1.7 New development and nonresidential and nonagricultural redevelopment/ expansions shall meet water quality standards and shall have a runoff rate and duration that is substantially similar to that for predevelopment conditions.

- 1.1.8 Support the reclassification of surface waters and groundwater aquifers to accommodate higher standards, where it can be demonstrated that improved water quality conditions will prevail in the future.
- 1.1.9 Minimize the impact of maintenance work on natural features of storage and conveyance areas.

Objective 1.2

Continue to collaborate with state, regional and local agencies to ensure the provision and protection of water resources.

- 1.2.1 Coordinate with the Southwest Florida Water Management District (SWFWMD) to ensure minimum freshwater flows and levels are scientifically determined and maintained to support natural optimal diversity and productivity in estuarine areas; that new and existing water supply development projects are permitted at quantities that will not violate established permit limits. Implement recovery strategies where applicable; and assist with the Quality Water Improvement Program (QWIP) through the identification of abandoned wells.
- 1.2.2 Collaborate with the Environmental Protection Commission (EPC) and SWFWMD to ensure that consumptive use of groundwater or drainage does not adversely lower water tables or surface water levels, reduce base flows, adversely affect lakes or wetlands, or increase current levels of saltwater intrusion by including these agencies in the appropriate development approval processes.
- 1.2.3 Coordinate with appropriate regulatory agencies to require municipal and industrial point sources of water pollution or sources of significant loadings to establish and implement water quality management plans. These plans shall include nutrient monitoring and control programs that eliminate or improve discharges or significant nutrient loadings into Tampa Bay and its tributaries.
- 1.2.4 Collaborate with state, local and regional agencies to ensure compliance with the Underground Storage Tank (UST) Program, especially in areas of demonstrated high aquifer recharge/contamination potential, by including these agencies in the appropriate development approval processes.

- 1.2.5 Address agricultural activities' water quality impacts through coordination with SWFWMD, Florida Department of Environmental Protection (FDEP), Florida Department of Agriculture and Consumer Services, and the EPC of Hillsborough County. Water quality impacts may also be subject to the County's Stormwater Quality Management Ordinance as applicable and consistent with state law.
- 1.2.6 Evaluate options for joint stormwater planning with adjacent jurisdictions to coordinate cross-jurisdictional drainage issues.
- 1.2.7 Evaluate and implement projects which contribute to the goals and priorities of the Tampa Bay Estuary Program (TBEP), National Pollutant Discharge Elimination System (NPDES), the Surface Water Improvement and Management (SWIM) program of SWFWMD, as developed in Basin Management Action Plans for the implementation of Total Maximum Daily Loads (TMDLs), and as otherwise needed to meet TMDL requirements.

Objective 1.3

Protect surface water and groundwater quantity and quality for current and future use.

- 1.3.1 Manage land and water resources in a manner that protects, enhances, conserves, improves and restores terrestrial and aquatic ecological systems; while ensuring surface and groundwater resources functions of potable water supplies are maintained for future use.
- 1.3.2 All stormwater management projects will seek to maximize, to the greatest extent practicable, improvements to wetland habitat and water quality and groundwater recharge functions.
- 1.3.3 Support public education and effective Best Management Practices (BMPs) to address water quality issues resulting from urban and agricultural runoff, including but not limited to impacts from fertilizer and sediment. Urban BMPs shall be evaluated for effectiveness; continue to evaluate non-structural BMPs as an option for WMMP implementation.

- 1.3.4 Review, update, and maintain regulatory criteria, standards, methodologies and procedures that consider land use types and densities, impervious surface limitations, stormwater management plans, and innovative site planning and engineering techniques to protect and conserve surface water, groundwater, aquifer recharge areas, and public water supply wellfields.
- 1.3.5 Protect water quality and quantity by restricting activities and land uses which would adversely affect the quality and quantity of sources of public water supply through the land development review process. Continue to prohibit excavations that would breach the confining layers of the Floridan aquifer.
- 1.3.6 Review, update, and maintain criteria, regulations, standards, methodologies, and procedures to maximize recharge to aquifers. Such regulations and performance standards may include, but are not limited to: control of land use types and densities, impervious surface limitations, additional requirements for onsite retention of stormwater, and groundwater discharge controls.
- 1.3.7 Information on high aquifer recharge/contamination potential will be considered in planning and regulation; areas with a high potential for groundwater contamination and/or aquifer recharge will be protected from adverse impacts of development through land use categories and performance standards.
- 1.3.8 Continue a comprehensive wellhead and surface water protection program to protect public potable water supplies, as depicted on adopted maps within the Comprehensive Plan:
 - a. Wellhead Resource Protection Areas (WRPAs) surrounding public potable water supply wells with a daily permitted amount of 100,000 gallons per day or greater.
 - b. Surface Water Resource Protection Areas (SWRPAs) surrounding surface waters used for public potable supply based on the 100-year floodplain, and any buffers as may be required to protect the surface water resource.

- 1.3.9 Review, update, and maintain regulations, criteria, standards, methodologies and procedures for new development and redevelopment within WRPAs and SWRPAs. Such regulations, etc. shall be designed to prevent potential degradation of public potable water supplies.
- 1.3.10 Protect existing and planned future sources of public potable supply through the identification of prohibited activities in WRPAs and SWRPAs, as established in the Land Development Code (LDC) or other regulatory documents.
- 1.3.11 Review, update, and maintain a permitting, inspection and enforcement program for the County's policies and regulations to protect public potable water supplies in WRPAs and SWRPAs.
- 1.3.12 No additional areas shall be designated with industrial land use plan categories within the SWRPAs and WRPAs.
- 1.3.13 Protect Potable Water Wellheads with a 500 foot radial setback, as outlined and implemented in the Land Development Code (LDC).

Increase water conservation.

2

Objective 2.1

Continue and enhance a comprehensive water conservation program.

- 2.1.1 Encourage water conservation in new and existing development via regulatory modifications or incentives.
- 2.1.2 Focus water conservation education and information to those users with the greatest water savings potential.
- 2.1.3 Continue an inverted block rate structure or other water conservation inclined user fees. Routinely evaluate the effectiveness of the rate structure and opportunities to enhance conservation practices.
- 2.1.4 Support and contribute to public education initiatives regarding water conservation.
- 2.1.5 Implement a code enforcement strategy to ensure compliance with watering restrictions, landscape standards and building code requirements; assist the Southwest Florida Water Management District in enforcing water conservation measures.
- 2.1.6 Require low flow plumbing fixtures for all new development and continue to fund retrofits of older fixtures and devices in existing development.

Objective 2.2

Maximize water conservation opportunities for irrigation and other non-potable uses.

- 2.2.1 Development shall utilize the lowest quality water reasonably, safely and feasibly available for irrigation and industrial uses.
- 2.2.2 New development shall prioritize meeting irrigation needs through demand management strategies, water reuse (if available), rainwater or stormwater and potentially community ground water wells. Incentives shall be developed to provide irrigation from non-potable sources.
- 2.2.3 Continue to implement and refine land development regulations that require incorporating Florida-Friendly LandscapingTM principles, proper plant selection and siting, limitations on shallow-rooted turfgrass, preservation of existing vegetation and use of native plants, rain sensors, efficient irrigation systems and appropriate maintenance procedures to prevent wasteful practices.
- 2.2.4 A low volume irrigation system shall be used whenever feasible.
- 2.2.5 Promote rainwater harvesting and rain barrels/cisterns for irrigation.
- 2.2.6 Evaluate incentives for development to provide irrigation from non-potable sources.

Pursue opportunities for integrated water resource management.

Objective 3.1

Develop and implement coordinated water resource management programs across departments.

- 3.1.1 Work across traditional organizational boundaries to foster a collaborative water resources approach to planning, design, operations and construction of County infrastructure and programs.
- 3.1.2 Explore private, local, state and federal funding for integration and multibenefit projects.
- 3.1.3 Maintain and update Watershed Management Master Plans, Potable Water Services, Water Reuse, Stormwater and Wastewater Master Plans to address the infrastructure needs and capital projects generated by the corresponding levels of existing development and planned growth within the County.
- 3.1.4 Planning approaches, programs and regulatory frameworks shall be routinely reviewed and updated to ensure they reflect and utilize best practices, emerging technologies and best available data for water resources.

Objective 3.2

Utilize a multifaceted approach to match the right resource to the right use.

- 3.2.1 Consider a full range of water uses in the development and implementation of public facilities and services.
- 3.2.2 Support the development of new and alternative water sources, in cooperation with Tampa Bay Water where appropriate, while protecting natural resources.
- 3.2.3 Maximize all efficient uses of water; utilize non-potable sources where economically feasible and appropriate as determined by the County.
- Support and plan for innovative and flexible potable, wastewater, 3.2.4 stormwater, and alternative water supply programs.
- 3.2.5 Meet potable water demand under all future scenarios through water reuse, conservation and appropriate use of groundwater, surface water, desalination and other alternative sources.
- 3.2.6 Stormwater management facilities will seek to maximize aquifer recharge functions to the greatest extent practicable.

The planning and construction of water resources infrastructure should encourage fiscal sustainability and the efficient use and redevelopment of land.

Objective 4.1

Ensure that land use and area-based planning initiatives are closely coordinated with water resources planning.

- 4.1.1 Direct water resources infrastructure investment to encourage redevelopment/infill of existing vacant or underutilized property.
- 4.1.2 Evaluate regional or areawide stormwater infrastructure as an option for redevelopment areas, or other areas where increases in density and intensity would be desirable.
- 4.1.3 Explore place or impact-based incentives for potable water, wastewater or stormwater to help achieve growth management, redevelopment and fiscal goals.
- 4.1.4 Development in both floodways and the 100-year floodplain shall continue to be regulated in order to protect floodplain functions; continue to prevent net loss of 100-year floodplain storage volume in Hillsborough County.
- 4.1.5 Maintain higher performance standards that mitigate stormwater runoff in areas defined by Hillsborough County as "volume or peak sensitive."
- 4.1.6 New County, community and franchise wastewater treatment facilities are prohibited in the Coastal High Hazard Area.
- 4.1.7 All Watershed Management Master Plans shall include evaluations of flood conditions within sub-basins or watersheds; expand the scope to include the water quality and environmental conditions within these areas.

Objective 4.2

Within the Urban Service Area, connect existing and future development to public potable water and wastewater systems.

- New development within the Urban Service Area shall connect to public 4.2.1 potable water and wastewater systems. Private well and septic shall continue to be prohibited except in very limited cases as determined by the LDC. Any subdivision of land is required to connect to a public wastewater system where technically feasible as determined by the County's utility staff.
- 4.2.2 Continue to convert existing low-pressure sewer systems, private/franchise water and wastewater systems and individual wells to County utilities where operationally and financially feasible within the Urban Service Area.
- 4.2.3 Develop regulations, incentives or programmatic enhancements to increase connections to existing potable water and wastewater lines within the Urban Service Area.
- 4.2.4 New potable and wastewater treatment infrastructure and facilities shall be publicly owned and operated. Exceptions will be limited and evaluated and determined on a case by case basis by the Board of County Commissioners. Any exceptions will be subject to the following limitations:
 - a. Any private, franchise or interim infrastructure and facilities developed under this policy shall be built to County standards.
 - b. Ensure adequate maintenance programs, as reviewed and approved by Hillsborough County Public Utilities, shall be part of the conditions of approval for any private, franchise or interim infrastructure and facilities.

Objective 4.3

Limit public potable water and wastewater lines from being extended into the Rural Area, except under specified conditions.

- 4.3.1 Public potable water and wastewater lines shall not be permitted to be extended into the Rural Area unless this extension occurs to:
 - a. Serve a planned village (RP-2 or WVR-2), or Planned Environmental Community ½ as described in this Plan;
 - **b.** Serve a project that has established vested rights for the use of these facilities;
 - Address a public health hazard documented by the Health Department or other regulatory agency;
 - d. Provide for the extension of centralized potable water or wastewater infrastructure to serve Hillsborough County Public Schools operated by the Hillsborough County School Board, so long as the service lines are designed to accommodate solely the service demands of the school, consistent with the Interlocal Agreement for School Facilities Planning and Siting and School Concurrency;
 - e. Allow properties located within the Wellhead Resource
 Protection Areas or Tampa Bay Water Wellfield Mitigation
 Areas to be served by public utilities if adequate capacity
 is available and when public water or sewer service
 provides an additional level of protection to potable
 water resources. All such properties shall conform to the
 following criteria:
 - (1) New Development:
 - a) Be the subject of an approved Planned Development Zoning;

- b) Contain building lots of not less than one-half (1/2) acre each;
- c) Located within 1.000 feet of the Urban Service Area boundary (inclusive of road rights-of-way and riverine systems);
- d) Maximum residential density cannot exceed 80% of the maximum density permitted under the Comprehensive Plan for properties where wetlands comprise less than 25% of the property; and
- e) Maximum residential density cannot exceed 90% of the maximum density permitted under the Comprehensive Plan for properties with at least 25% wetlands onsite (using wetland density calculations).
- (2) Existing Development:
 - Located within 1,000 feet of the Urban a) Service Area boundary, (inclusive of road rights-of-way and riverine systems).
- (3)Provisions 4.3.1.e(1) & (2) shall not be available for use within the boundaries of the Keystone-Odessa Community Plan.
- (4) Utilization of this provision could result in clustered development, achieving a greater amount of common open space in a project than projects using wells/septic systems. Such open space shall be identified on the zoning site plan as permanent conservation either through platting or other mechanism approved by Hillsborough County.

- 4.3.2 Connections to existing water/wastewater systems in the Rural Area may be considered on a very limited basis, so long as such connections do not foster a development pattern that is in conflict with other Plan policies. The intent of this policy is to allow some utilization of existing infrastructure for those properties located along existing lines, not to allow extensions to those systems. Details of implementation shall be outlined in the LDC. Connections to the Limited Access Transmission Main are prohibited.
- 4.3.3 Any extension or utilization of existing potable water/wastewater lines under the previous Policies outlined in this Objective are subject to the following criteria:
 - New development shall be responsible for infrastructure a. and services outside the current Urban Service Area. Any such connection and extension of lines shall be at the expense of the party requesting such service and permitted at the discretion of Hillsborough County.
 - b. The only jurisdiction permitted to extend lines into the Rural Area shall be Hillsborough County, unless provided for in a pre-existing service area agreement or a public health issues as identified in Policy 4.3.1(c) above.
 - Any extension or connection shall not be considered c. a justification for increases in densities or intensities through the Future Land Use Map amendment process, nor shall these provisions be used as a basis for a rezoning to allow uses that require public utility connections but would be incompatible with the surrounding development pattern or inconsistent with other Rural Area policies.
- 4.3.4 The policies in this section do not prohibit the placement of transmission infrastructure through the Rural Area to serve development within the Urban Service Area. Nor shall these policies prohibit any maintenance of existing infrastructure systems within the Rural Area and/or other improvements intended to improve operational efficiency of those systems.

Water resource infrastructure and programs will be constructed and managed in a fiscally and environmentally sustainable manner.

Objective 5.1

Ensure water resources services and infrastructure serve the current and future population in Hillsborough County.

- 5.1.1 Develop, support, maintain, and implement capital projects that address the provision of water resource services and infrastructure; remedy any potable water, water reuse, wastewater or stormwater facility deficiencies, and coordinate the acquisition, expansion, and construction of infrastructure to meet future needs. This shall be accomplished in cooperation with Tampa Bay Water, where appropriate. This includes, but is not limited to:
 - a. A managed system of stormwater infrastructure which will minimize the occurrences of damage due to flooding, improve the quality of surface waters, reestablish and create wetland habitat, enhance aquifer recharge, and provide opportunities for water reuse and recreational benefits. Maintenance and asset protection shall occur on a regular, routine basis to ensure flood protection and water quality functions.
 - A potable and wastewater collection, transmission, water reuse and treatment system within designated service areas; existing and programmed infrastructure shall be utilized before extending the service area.
- 5.1.2 Meet or exceed the adopted Levels of Service for potable water, wastewater and stormwater as outlined in the Capital Improvements Element.

- 5.1.3 Implement programs and projects serving a public purpose that reduce or mitigate flooding and improve water quality as determined by the Watershed Management Master Plans. Stormwater detention and retention infrastructure will continue to serve as the preferred alternatives to alleviate flooding issues.
- 5.1.4 Promote the co-location of water resources infrastructure and other County facilities to enhance the efficient use of land, reduce public costs, and minimize impact on the community.
- 5.1.5 Incorporate adaptation and mitigation measures into planning decisions for water resources infrastructure.
- 5.1.6 Continue coordination with FEMA as a cooperative technical partner to update Flood Insurance Rate Maps.

Objective 5.2

Minimize adverse impacts of septic tanks.

- 5.2.1 If wastewater service is not available or feasible, properly sited, permitted, and maintained septic tanks are a suitable alternative. Septic tanks are permitted for use in accordance with all adopted regulations and the other Goals, Objectives and Policies of this Plan.
- 5.2.2 Maintain siting criteria, performance standards, density limitations, separation distances and other development regulations for septic systems to ensure the protection of surface and groundwater water quality; special criteria and standards shall be maintained for those septic systems located in areas adjacent to Class I Waters, Class I Treated Waters, Class II Waters and Outstanding Florida Waters.
- 5.2.3 Septic tank and drain field installation shall be prohibited within 200 feet of the jurisdictional wetland lines of rivers and their tributaries, except in such cases where the 200-foot criterion cannot be met due to vested lot size or configuration.

- 5.2.4 Septic tanks are prohibited for new development in the Coastal High Hazard Area. Exceptions may be granted for development that is vested under criteria, standards and procedures established by the LDC.
- 5.2.5 Where current or future connection to wastewater infrastructure is not feasible, as determined by the County, encourage the use of Distributed Wastewater Treatment Systems in lieu of septic tanks, and as a replacement for existing septic tanks.
- 5.2.6 Implement a comprehensive program to convert existing septic to County wastewater within the Urban Service Area.
- 5.2.7 Coordinate with the Hillsborough County Health Department and/or the Florida Department of Environmental Protection (FDEP) to ensure that non-compliant septic systems connect to County wastewater facilities and conveyance systems where feasible.
- 5.2.8 In conjunction with the appropriate regulatory agencies, explore potential updates to septic siting and wastewater connection policy, the technical and financial feasibility of updating criteria for limited wastewater extension, or other solutions to address potential environmental impacts of septic.

Objective 5.3

Coordinate with local, state and regional agency partners on water resources infrastructure planning and projects.

- 5.3.1 Coordinate with SWFWMD to ensure consistency between the Comprehensive Plan and SWFWMD's Regional Water Supply Plan via the 10-Year Water Supply Facilities Work Plan (WSFWP). The WSFWP shall be updated every five years and within 18 months of the update of SWFWMD's Regional Water Supply Plan.
- 5.3.2 The annual update to the Capital Improvement Program shall be coordinated with the WSFWP, Tampa Bay Water's Master Water Plan and Capital Improvements Program, and SWFWMD's Regional Water Supply Plan.

- 5.3.3 Coordinate with adjacent jurisdictions to ensure any adverse impacts from major stormwater conveyance systems are minimized or addressed.
- 5.3.4 Collaborate with the SWFWMD, Tampa Bay Water, the Cities of Tampa,
 Plant City and Temple Terrace and the Hillsborough County City-County
 Planning Commission to ensure coordination, and where appropriate,
 consistency of water supply and demand projections and population data.
- 5.3.5 Any area in the unincorporated County which by interlocal agreement is part of the area for which a city has the responsibility for providing potable water or wastewater service, but, in which the city does not provide that service to retail customers, shall be periodically reviewed by County staff for recommendation to the BOCC regarding the most cost effective and efficient provision of potable water or wastewater service.
- 5.3.6 Coordinate with SWFWMD, FDEP, Florida Department of Agriculture and Consumer Services, the EPC of Hillsborough County, and the Agriculture Economic Development Council where water resources infrastructure planning may have an effect on agriculture.

Expand the use of Low Impact Development (LID) principles in the built environment.

Objective 6.1

Explore opportunities to incorporate green infrastructure or other LID principles in public projects and on publicly owned land.

- 6.1.1 Create demonstration projects to illustrate the value and effectiveness of green infrastructure and/or LID.
- 6.1.2 Where feasible, design County green infrastructure projects so that they serve multiple functions. Examples include stormwater infrastructure that also serve as public natural spaces, or linear parks along roadways that serve as pedestrian/bicycle facilities as well as stormwater management.
- 6.1.3 Determine opportunities during the planning and development phase of Capital Improvement Program projects for LID and green infrastructure in Hillsborough County, such as alternative roadway designs, swales, bioretention, curb extensions, and innovative/permeable pavement solutions.
- 6.1.4 Ensure that publicly-owned land and right-of-way landscaping is designed to serve multiple functions, utilizing Florida-Friendly LandscapingTM whenever practicable. This landscaping should be designed to allow for the capture, treatment and utilization of stormwater runoff and incorporate a treatment train approach where feasible.

Objective 6.2

Evaluate incentives and regulatory modifications to enhance the use of green infrastructure and/or LID principles in private development.

- Coordinate with private sector stakeholders to identify opportunities 6.2.1 and obstacles for utilization of green infrastructure/LID in new development and redevelopment.
- 6.2.2 Develop manuals, guidance and technical specifications for utilization of green infrastructure/LID in new development, redevelopment and capital projects by 2024.
- 6.2.3 Explore incentives for development projects utilizing green infrastructure and/or LID.
- 6.2.4 Stormwater management infrastructure should utilize the existing topography of the site and minimize disturbance of existing natural features and hydrology to the greatest extent feasible.
- 6.2.5 When effective pretreatment measures can be provided, and treatment enhances the wetland system, wetlands may be used for stormwater treatment when appropriate.

HILLSBOROUGH COUNTY 10-YEAR WATER SUPPLY FACILITIES WORK PLAN

PROJECT	PROJECT TITLE	TOTAL ESTIMATED COST	PRIOR EXPENSES	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22-26 (TOTAL)	PROJECT COMPLETION DATE
C31982000	19th Ave. Water Transmission Main (I-75 to US 41)	\$5,000	\$5,000	80	0\$	\$0	0\$	80	\$0	Dec 2018
C31995000	Backflow Upgrade Program	\$11,000	1,000	1,000	1,000	1,000	1,000	1,000	5,000	Ongoing
C10247000	Boyette And Rhodine Water Transmission Main	\$4,000	4,000	0	0	0	0	0	0	Mar 2019
C31986000	Countywide Potable Water Main Extension Program	\$24,000	4,000	2,000	2,000	2,000	2,000	2,000	10,000	Ongoing
C31987000	Countywide Potable Water Quality Monitoring	\$2,000	2,000	0	0	0	0	0	0	Dec 2018
C31981000	Countywide Removal & Replacement Of AC & SCH. 40 PVC Piping Master Proj.	\$18,000	12,000	5,000	1,000	0	0	0	0	Dec 2018
C31977000	Countywide Water Transmission / Distribution Line R&R Master Proj.	\$31,437	18,937	3,500	1,000	1,000	1,000	1,000	5,000	Ongoing
C31983000	Environmental Laboratory Replacement	\$7,200	7,200	0	0	0	0	0	0	Mar 2018
C31957000	Fire Flow Deficiency (Master Project)	\$29,461	26,461	3,000	0	0	0	0	0	Dec 2018
C31988000	Franchise Systems Acquisition and Improvements	\$24,404	20,904	3,500	0	0	0	0	0	Sep 2020
C31997000	Gibsonton Area Potable Water Main Replacement	\$11,000	0	1,000	5,000	5,000	0	0	0	Sep 2020
C31989000	Kings Point Potable Water Valve Installation/Replacement	\$5,000	5,000	0	0	0	0	0	0	Mar 2019
C31985000	Large Water Meter Replacement	\$4,700	2,700	1,000	1,000	0	0	0	0	Dec 2018
C31998000	Linebaugh Ave. HDPE Potable Transmission Main Replacement	\$2,000	200	1,500	0	0	0	0	0	Sep 2019
C31992000	Palm River Utility Expansion Program	\$10,500	10,500	0	0	0	0	0	0	Sep 2021
C31978000	Public Utilities SCADA Operations Support Center	\$5,052	5,052	0	0	0	0	0	0	Sep 2018
C31969000	South County Water Repump Station Water Transmission Main To 19Th Ave	\$6,750	6,750	0	0	0	0	0	0	Dec 2018
C31945000	Utility Relocation (Master Project)	\$38,012	13,012	2,500	2,500	2,500	2,500	2,500	12,500	Ongoing
C30116000	Water Treatment R&R (Master Project)	\$31,089	15,089	2,500	1,500	1,500	1,500	1,500	7,500	Ongoing
	Lithia Emergency Connection	\$700	0	700	0	0	0	0	0	Dec 2017
	US Hwy 41 Water Transmission Main Replacement	\$10,000	0	0	0	2,000	8,000	0	0	Dec 2020
	Lutz Franchises Water Main Extensions	\$5,000	0	0	0	1,000	4,000	0	0	Dec 2020
	South County Repump Station Expansion	\$5,000	0	0	0	1,000	4,000	0	0	Dec 2020
	East Brandon Area Potable Water Main Replacement	\$30,000	0	0	0	5,000	10,000	15,000	0	Dec 2022

HILLSBOROUGH COUNTY 10-YEAR WATER SUPPLY FACILITIES WORK PLAN

PROJECT COMPLETION DATE	Dec 2025	Dec 2025	Dec 2025	Dec 2025	Dec 2018	Jul 2018	Dec 2018	Apr 2017	Apr 2019	Ongoing	Ongoing	Sep 2020	Sep 2019	Mar 2018	Dec 2018	May 2019	Dec 2025	Dec 2025	Dec 2025	
FY 22-26 (TOTAL)	30.000	3,500	25,000	22,000	0	0	0	0	0	5,000	2,500	0	0	0	0	0	5,000	20,000	5,000	\$158,000
FY 21	0	0	0	0	0	0	0	0	0	1,000	200	0	0	0	0	0	0	0	0	\$24,500
FY 20	0	0	0	0	0	0	0	0	0	1,000	200	3,500	0	0	0	0	0	0	0	\$47,000
FY 19	0	0	0	0	0	0	0	0	0	1,000	200	2,500	0	0	0	0	0	0	0	\$28,000
FY 18	0	0	0	0	0	0	0	0	0	1,000	200	3,000	3,000	0	0	0	0	0	0	\$22,500
FY 17	0	0	0	0	0	0	0	0	0	1,000	200	0	3,900	0	0	0	0	0	0	\$33,900
PRIOR EXPENSES	0	0	0	0	5,000	1,000	17,119	3,300	4,250	3,400	3,946	12,700	1,000	3,000	6,500	3,791	0	0	0	\$225,109
TOTAL ESTIMATED COST	\$30,000	\$3,500	\$25,000	\$22,000	\$5,000	\$1,000	\$17,119	\$3,300	\$4,250	\$13,400	\$8,946	\$21,700	\$7,900	\$3,000	\$6,500	\$3,791	\$5,000	\$20,000	\$5,000	\$539,009
PROJECT TITLE	Apollo Beach Potable Water Main Replacement	Williams Rd Transmission Main from US 92 to Dove Field PI	New South County Treatment Facility	Balm Transmission Mains	19th Avenue Reclaimed Water Transmission Main	Bloomingdale Avenue Reclaimed Water Transmission Main Extension	Dale Mabry Diversion Reclaimed Water Transmission Main (NWRWRF to DM)	Northdale Reclaimed Water Transmission Main	Northwest Hillsborough Area Recharge Project (NHARP)	Reclaimed Water Pump Station & Remote Telemetry Monitoring	RWTM Ext. To New Developments & RWIU'S (Master Project)	South Hillsborough Aquifer Recharge Expansion (SHARE)	Sun City Center Golf Courses Reclaimed Water Expansion	Tate Lane Reclaimed Water Main Relocation	Waterset Sports Complex Reclaimed Water Pump Station/Storage Tank	Westchase High Density Polyethylene RWTM Replacement	North Hillsborough Aquifer Recharge Expansion (NHARE)	South County Transmission Mains	South County Reclaimed Pump Station Expansion	Totals Per Fiscal Year(s)
PROJECT NUMBER					C10217000	C10234000	C10237000	C10216000	C10238000	C10795000	C19017000	C10259000	C10270000	C10260000	C10242000	C10192000				

Note: Source: Hillsborough County Public Utilities Department, June 2016. Funding amounts are in thousands. Blue = potable water projects. Purple = reclaimed water projects.

County FY16-FY21 CIP. Project funding listed beyond FY 20-21 is not confirmed and is subject to approval by the Hillsborough County Board of County Commissioners. Please note This WSFWP table includes significant potable and reclaimed water capital projects at the time of plan preparation, and reflects information from the adopted Hillsborough that the projects and funding in this table may be modified over time. The funding source for all the projects in this table are Enterprise funds. *These will be added to the **Definitions** section in the final version of the Comprehensvive Plan.

One Water **Definitions**

Distributed Wastewater Treatment System

A Distributed Wastewater Treatment System (DWTS) is a category of "Domestic Wastewater Treatment Facility," consisting of multiple individual Distributed Wastewater Treatment Units (DWTU), each of which are "Treatment Works" that treat domestic waste to secondary treatment standards, and all of which are (1) commonly owned, (2) wirelessly networked together and individually (remotely) controllable (e.g. though a SCADA system), (3) operated and maintained by licensed wastewater operators, and (4) subject to the standard inspection, monitoring and reporting requirements in Chapter 62-600, F.A.C.

Green Infrastructure

Systems and practices that use or mimic natural processes to infiltrate, evapotranspirate, or utilize stormwater or runoff on the site where it is generated.

Limited Access Transmission Main

As defined in County technical manuals.

Low Impact Development (LID)

An approach to land development (or re-development) that works with nature to manage stormwater as close to its source as possible.

Potable Water Wellheads

The site of one or more water wells which supply potable water for human consumption to a water system which serves at least 15 service connections used by year-round residents or regularly serves at least 25 year-round residents. Florida Department of Environmental Protection Chapter 62-521, as amended, protection measures shall apply in the protection area. The potable water wells and the 500- foot radial setback shall be shown on a map adopted as part of the Comprehensive Plan.

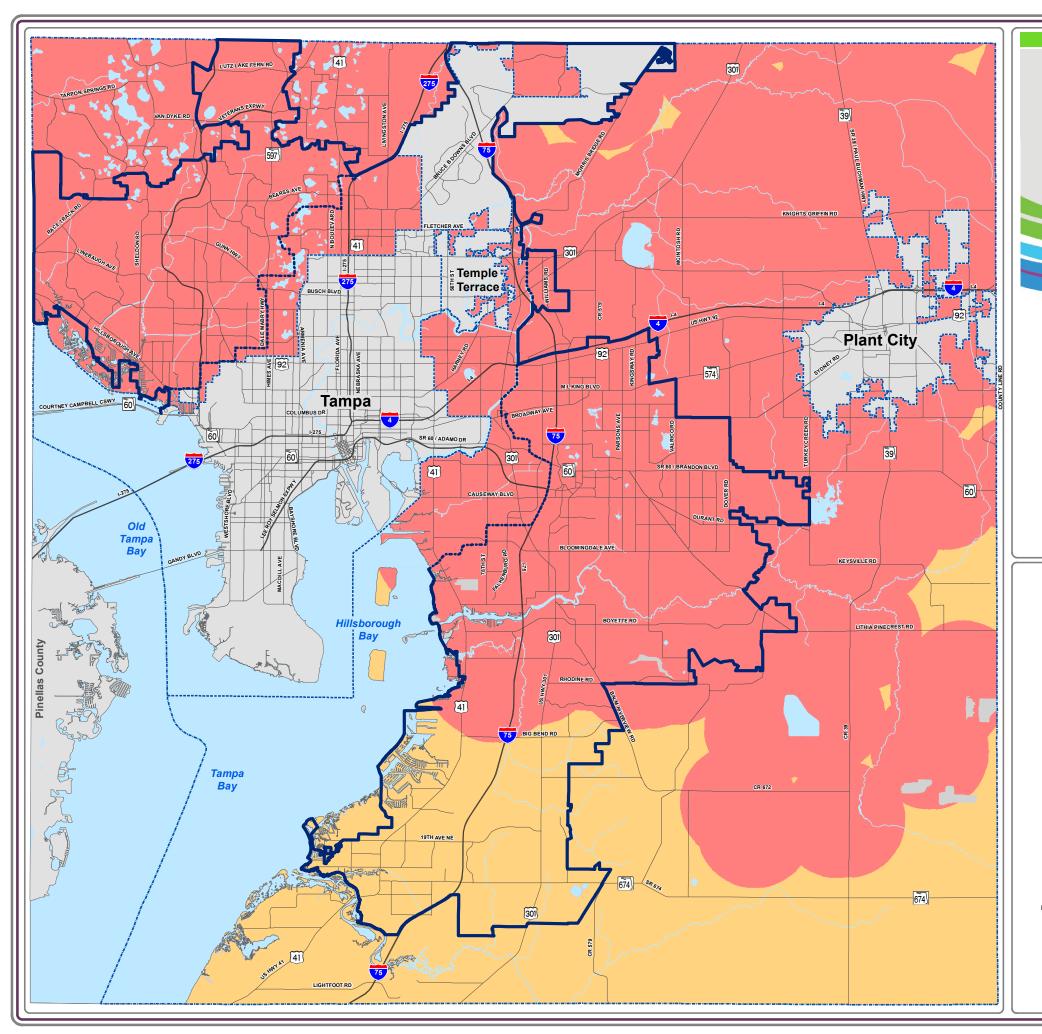


One Water Definitions

Water Reuse

Also known as water recycling, water reuse is the process of intentionally capturing wastewater or stormwater and cleaning it as needed for a designated beneficial freshwater purpose such as drinking, irrigation, industrial processes, surface or ground water replenishment, and watershed restoration.





Unincorporated Hillsborough County

AREAS SUSCEPTIBLE TO GROUNDWATER CONTAMINATION **ADOPTED**

Legend

Relative Vulnerablity

More Vulnerable



Vulnerable

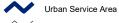
Roads and Boundary Lines

County Boundary

/ Jurisdiction Boundary



Tampa Service Area



Existing Major Road Network



Limited Access Roads

Location Diagram and Reference Information





DATA SOURCES AND LIMITATIONS:

GROUND WATER CONTAMINATION: Florida Department of Environmental Protection (FDEP)

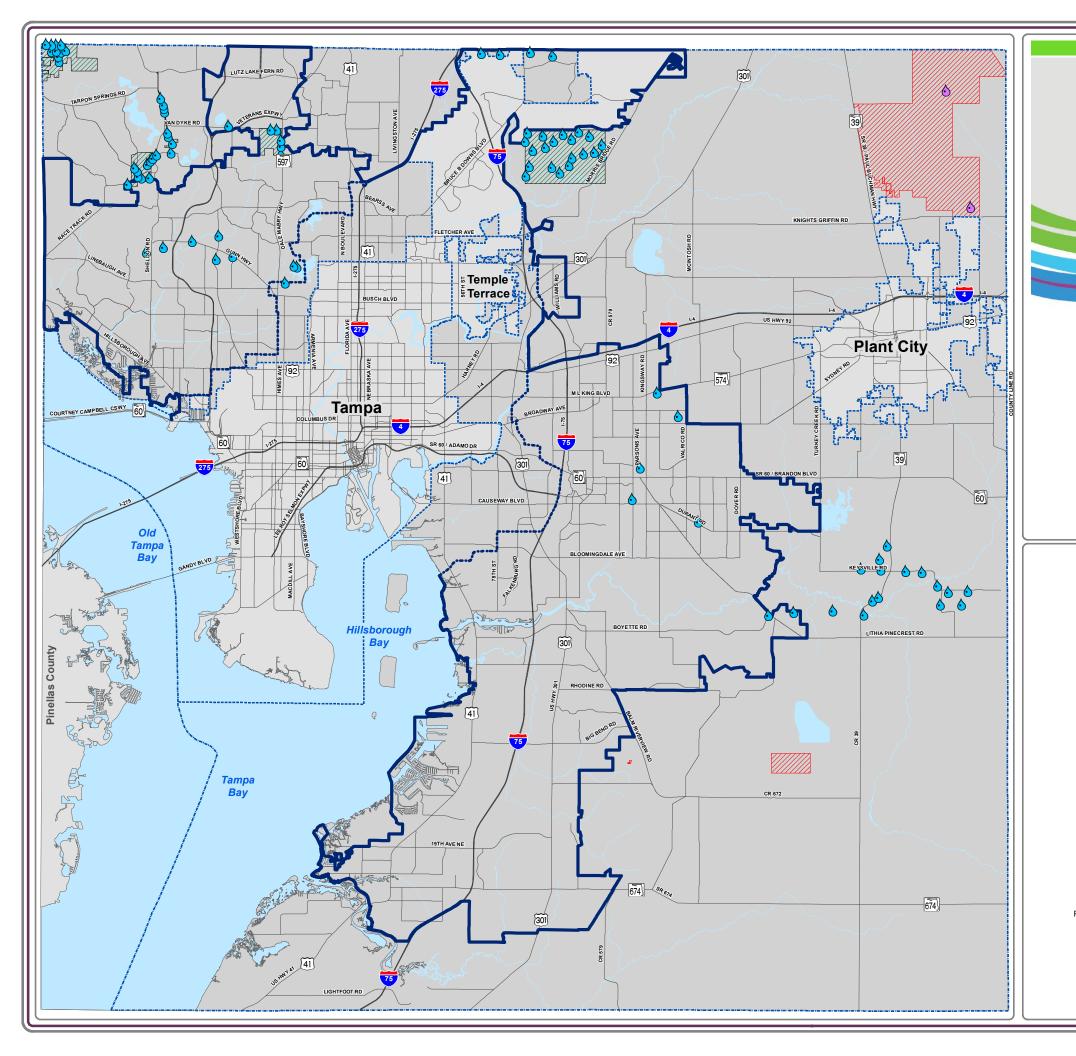
Author: CWelsh

Date: 4/23/2020

 $Path: G: lgisroot! Projects \\ Cathy \\ Arcmap! NEW_MXD \\ CompPlaUnpdate_2020 \\ Care_2020 \\ Undc_areas_susceptible_to_ground_water_contamination_2020_2.mxd$



For more information about our organization visit website: www.planhillsborough.org



Unincorporated Hillsborough County **EXISTING AND PROPOSED**

WELLS AND WELLFIELDS

ADOPTED FUTURE LAND USE MAP SERIES

Legend

(-)

Existing Public Production Wells



Future Public Production Wells



Future Wellfields

Existing Wellfields

Roads and Boundary Lines

County Boundary

Jurisdiction Boundary

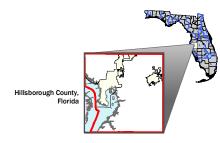
Tampa Service Area

Urban Service Area

Existing Major Road Network

Limited Access Roads

Location Diagram and Reference Information





DATA SOURCES AND LIMITATIONS:

WELLS AND WELLFIELDS: Tampa Bay Water

MAJOR ROADS: See Adopted MPO Long Range Transportation Plan for specific improvements

REPRODUCTION: This sheet may not be reproduced in part or full for sale to anyone without specific

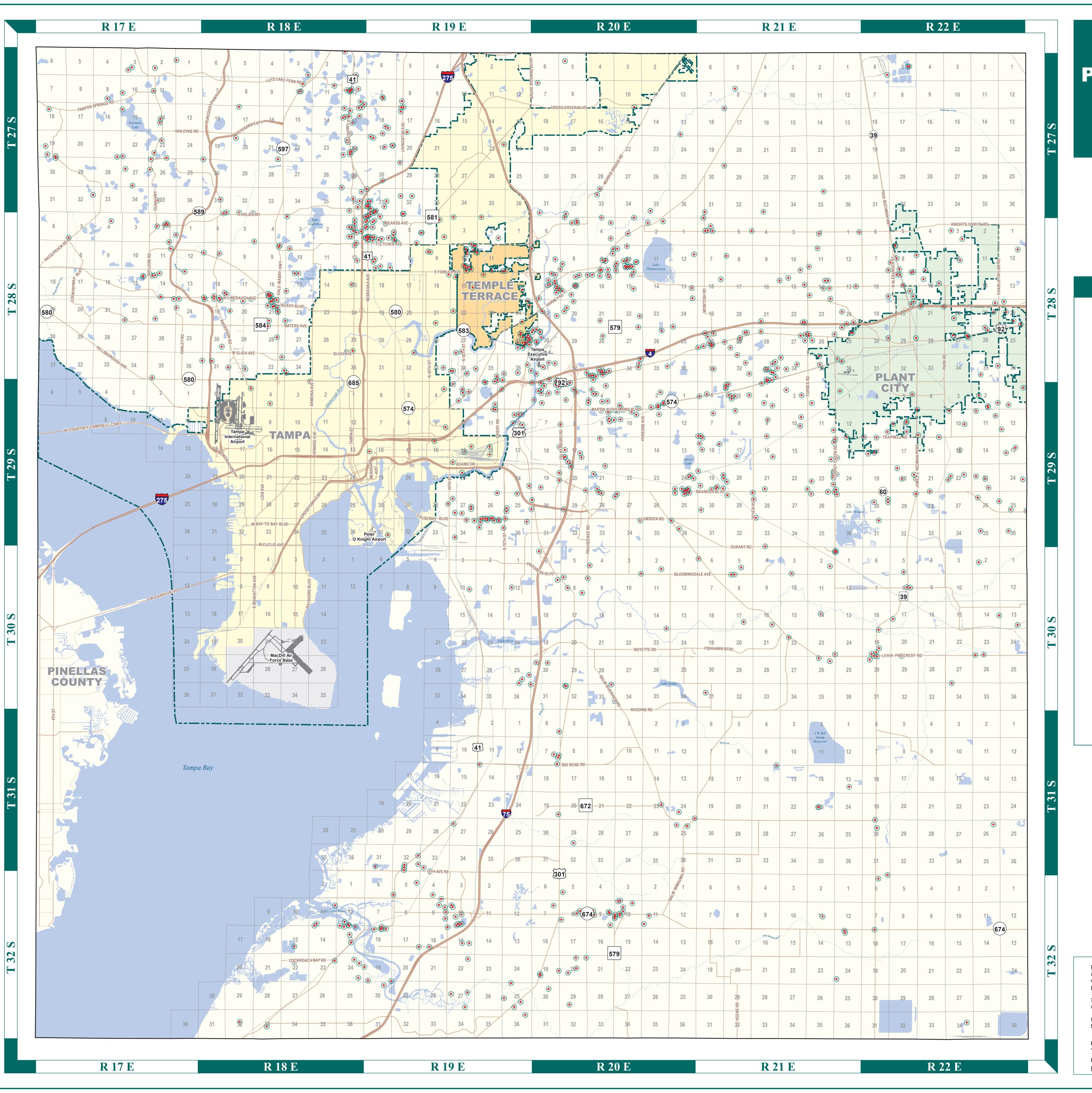
CCURACY: It is intended that the accuracy of the base map comply with U.S. national map accuracy andards. However, such accuracy is not guaranteed by the Hilbsborugh County City-County Planni ommission. This map is for illustrative purposes only for the cities of Tampa, Temple Terrace and best Cities.

Author:

Date: 4/30/2020



For more information about our organization visit website: www.planhillsborough.org



HILLSBOROUGH COUNTY POTABLE WATER WELLFIELD PROTECTION AREAS Adopted



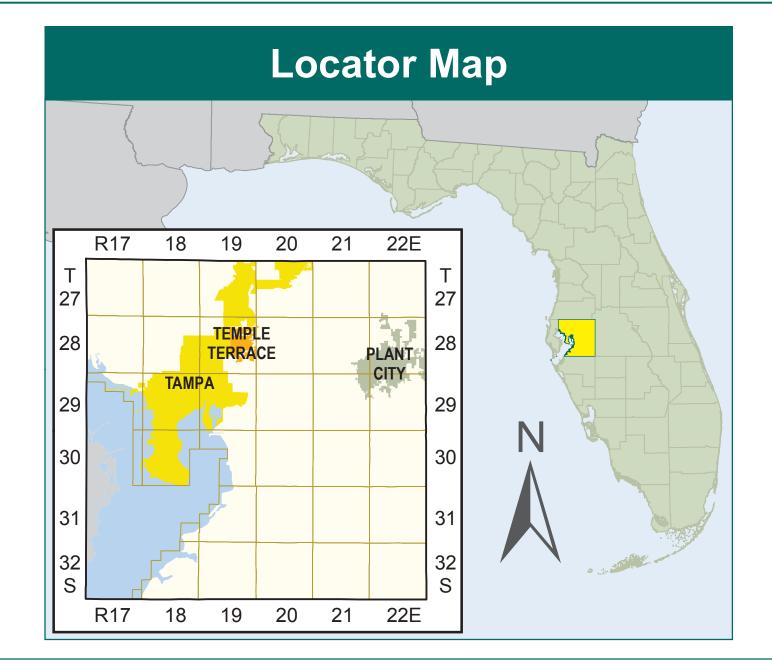
Legend

- Potable Wells
- Potable Wells Protection Area-500 ft Buffer

City Limits

- Plant City
- Tampa
- Temple Terrace

Effective October 1, 2004 Revision Adopted June 10, 2004 to Comprehensive Plan, Amendment CPA 04-07 for the Wellhead and Surface Water Resource Protection Update



NOTE: Every reasonable effort has been made to assure the accuracy of this map. Hillsborough County does not assume any liability arising from use of this map. THIS MAP IS PROVIDED WITHOUT WARRANTY OF ANY KIND, either expressed or implied, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose.

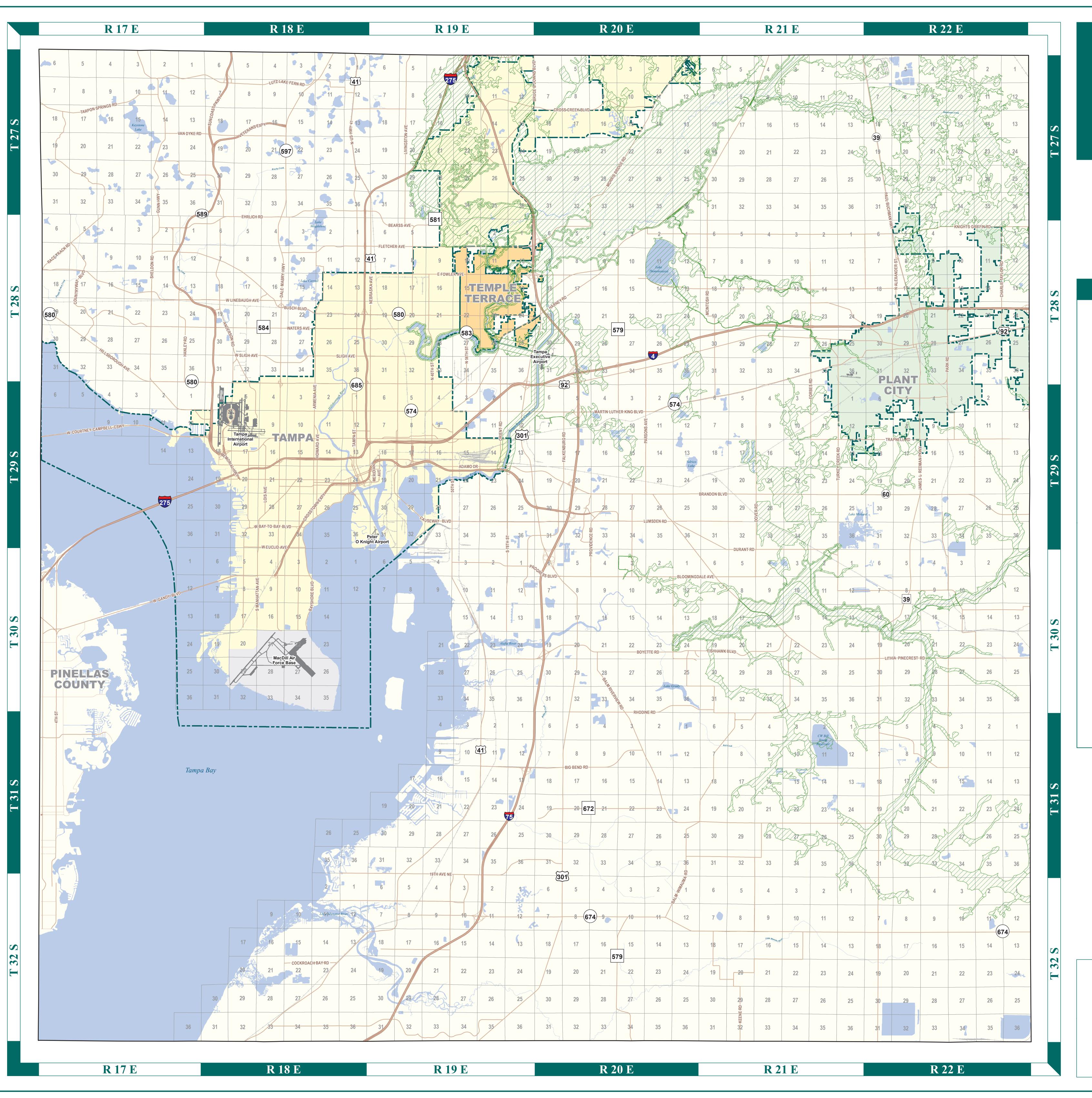
SOURCE: This map has been prepared for the inventory of real property found within Hillsborough County and is compiled from recorded deeds, plats, and other public records; it has been based on BEST AVAILABLE data.

Users of this map are hereby notified that the aforementioned public primary information sources should be consulted for verification of the information contained on this map.

601 E Kennedy Blvd Tampa, FL 33602

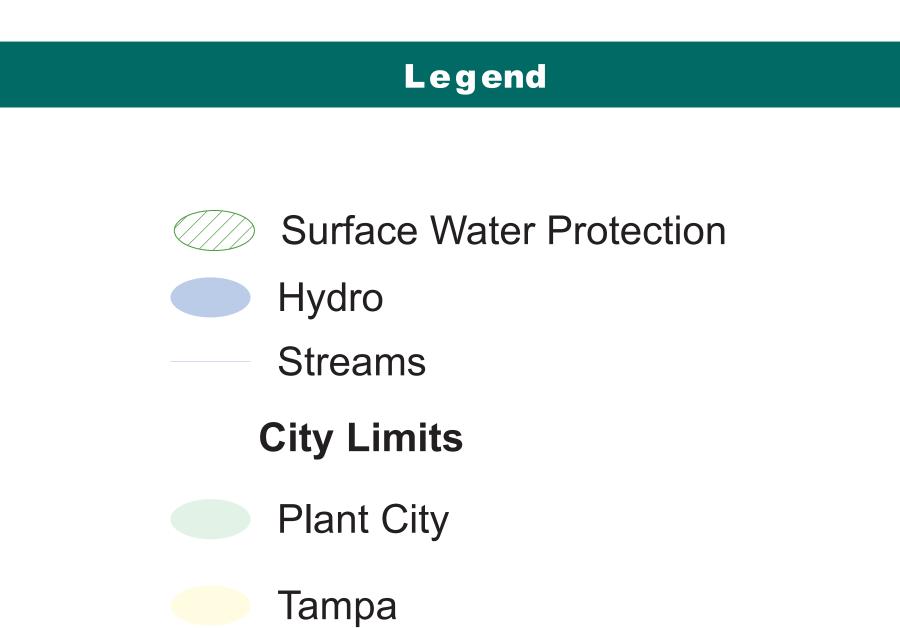
(813) 272-5900 printroom@hillsboroughcounty.org

Date: 05/11/2020 Path: W:\Planning_Commission\G20-7501_CompPlanMaps\Maps\CARE_PotableWater_2020.mxd



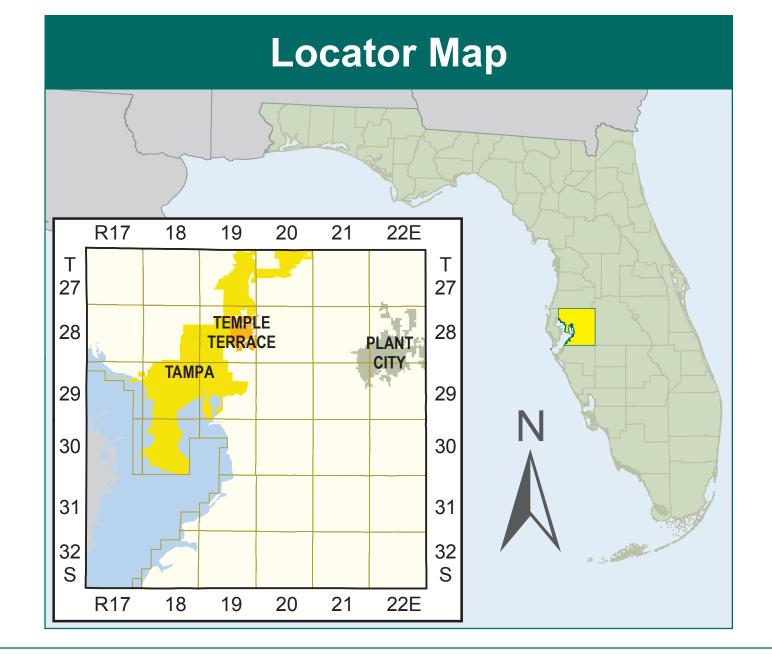
HILLSBOROUGH COUNTY SURFACE WATER PROTECTION AREAS Adopted





Temple Terrace

Effective October 1, 2004
Revision Adopted June 10, 2004
to Comprehensive Plan, Amendment CPA 04-07
for the Wellhead and Surface Water
Resource Protection Update



NOTE: Every reasonable effort has been made to assure the accuracy of this map. Hillsborough County does not assume any liability arising from use of this map. THIS MAP IS PROVIDED WITHOUT WARRANTY OF ANY KIND, either expressed or implied, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose.

SOURCE: This map has been prepared for the inventory of real property found within Hillsborough County and is compiled from recorded deeds, plats, and other public records; it has been based on BEST AVAILABLE data.

Users of this map are hereby notified that the aforementioned public primary information sources should be consulted

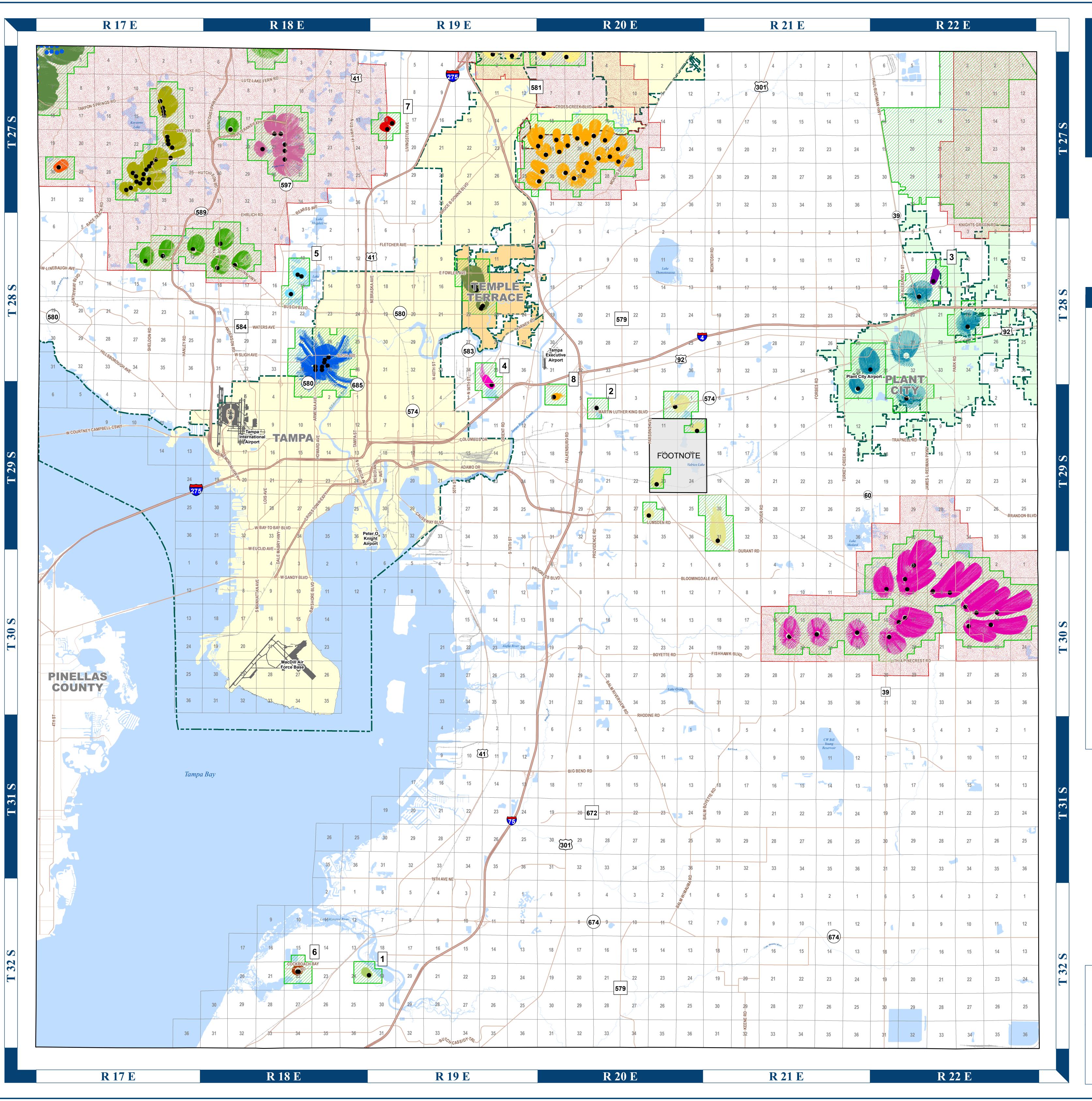
for verification of the information contained on this map.

601 E Kennedy Blvd

Tampa, FL 33602 (813) 272-5900 printroom@hillsboroughcounty.org

Miles

Date: 05/11/2020 Path: W:\Planning_Commission\G20-7501_CompPlanMaps\Maps\CARE_SurfaceWater_2020.mxd

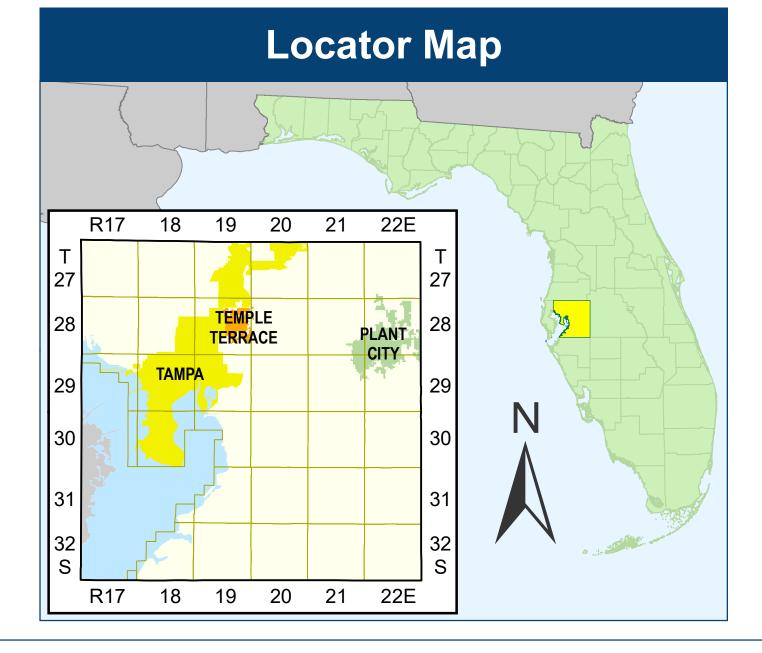


HILLSBOROUGH COUNTY WELLHEAD RESOURCE PROTECTION AREAS Adopted (FLUE Map Series)



Effective July 30, 2021, Revision Adopted June 17, 2021 per Comprehensive Plan Amendment HC/CPA 21-03

Legend **FOOTNOTE** A revised wellhead protection zone for the Tampa Bay **Public Production Wells** Water Brandon Urban Dispersed wellfield was re-evaluated by County staff utilizing revised well Aloha Utilities locations and well pumpage rates. Cypress Bridge South Pasco Pasco County Utilities Eldridge-Wilde Potable Water Supply Wells >= 100,000 gpd Potable Water Protection Impact Zone - Zone 1 Public Potable Water Supply Well Protection Zone - Zone 2 Pinellas Wellhead Protection Zone **Capture Zones** (1) Cax Riverside LLC Cosme-Odessa (2) Charles E. Springer Cypress Bridge = (3) CM GL Services Eldridge-Wilde (4) Eastlake Water Service Morris Bridge (5) Severn Trent Northwest Hillsborough (6) Wilder Mobile Homes Plant City = (7) Windemere Utility Section 21 (8) UniProp Income Fund II South Central Hillsborough Brandon Urban Dispersed South Pasco City of Tampa ASR — Temple Terrace — The Eagles



NOTE: Every reasonable effort has been made to assure the accuracy of this map. Hillsborough County does not assume any liability arising from use of this map. THIS MAP IS PROVIDED WITHOUT WARRANTY OF ANY KIND, either expressed or implied, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose.

SOURCE: This map has been prepared for the inventory of real property found within Hillsborough County and is compiled from recorded deeds, plats, and other public records; it has been based on BEST AVAILABLE data.

Users of this map are hereby notified that the aforementioned public primary information sources should be consulted

for verification of the information contained on this map.

printroom@hillsboroughcounty.org

601 E Kennedy Blvd Tampa, FL 33602 (813) 272-5900

Miles

Date: 8/26/2021 Path: W:\Planning_Commission\G21-7501_WellheadProtectionMap_Amendment\Maps\WellheadProtectionAreas_2021.mxd