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TAMPA BAY WATER
Supplying Water To The Region

Tampa Bay Water

Special District Public Facilities Report

March 1, 2013

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Pursuant to Subsection 189.415, Florida Statutes

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TAMPA BAY WATER
SPECIAL DISTRICT PUBLIC FACILITIES REPORT
PURSUANT TO SUBSECTION 189.415, FLORIDA STATUTES

March 1, 2013

Beginning March 1, 1991, pursuant to state law enacted in the 1989 legislative session, [Chapter 89-169, Laws of Florida (Chapter 189, F.S.)], special districts such as Tampa Bay Water are required to file special district public facilities reports with each local government in which the special districts are located. The purpose of the report is to provide local governments with information that may be pertinent to the development and updating of the local governments' comprehensive plans.

TAMPA BAY WATER

HISTORY

Tampa Bay Water was first established as the West Coast Regional Water Supply Authority on October 25, 1974 as a result of state enabling legislation (74-114, Laws of Florida) and a five-party agreement among Hillsborough, Pinellas, and Pasco counties and the cities of St. Petersburg and Tampa. It was the first such entity organized under the provisions of Chapter 373, Florida Statutes – Water Resources. The City of New Port Richey joined the agency in 1984. In 1998, Tampa Bay Water was formed by the six Member Governments and is governed by the Amended and Restated Interlocal Agreement and Master Water Supply Contract.

THE MASTER WATER PLAN AND LONG-TERM WATER SUPPLY PLAN

Tampa Bay Water's Board of Directors approved the original Master Water Plan in December 1995. The Tampa Bay Water Board of Directors approves projects for implementation that are economically feasible, technically sound, and environmentally sustainable. In November 1998, the Board approved System Configuration I of the Master Water Plan for implementation. This $680 million program was co-funded by the Southwest Florida Water Management District in the amount of $183 million and included the addition of surface water and seawater desalinated water to the Tampa Bay Water system.

System Configuration II of the Master Water Plan was completed in 2011. This program involved expanding the treatment and pumping capacity of Tampa Bay Water's Regional Surface Water Treatment system. System Configuration II provides an environmentally sound and economically feasible supply. It is estimated that the Tampa Bay Water Regional System, including the System Configuration II enhancements, will meet the Member Governments' water supply needs for at least 10-15 years.

The District, the Tampa Bay-area Basin Boards, and the State funded $122 million of the $226 million System Configuration II capital costs. This funding commitment illustrates that a real difference can be made across the state in how potable water supply is developed when the water management districts, the state, and regional water supply authorities work together.

The Master Water Plan also includes public information and involvement along with an aggressive demand management component to reduce anticipated potable demand across the region. Tampa Bay Water worked closely with its Member Governments to ensure that projected average annual potable demand was reduced by 10 million gallons per day by 2000, and that a total potable demand reduction of 18 mgd was achieved by 2005. A total reduction of 27 mgd was achieved through 2012

The Board of Directors finalized its first Future Needs Analysis in September 2003. This detailed analysis helps determine the capacity and timing of future supplies needed by comparing existing supply sources and their expected future production reliability, to probabilistic-based future water supply demand projections. The purpose of the Future Needs Analysis is to determine the timing and quantity of supply needs. Using this information, construction can be optimized so that projects are completed on time with limited future rate impacts, while assuring that demands are met. Tampa Bay Water updates major components of the Future Needs Analysis on an annual basis and uses this tool to confirm the schedule of its water supply development program.

An update to the Long-Term Water Supply Plan and the Master Water Plan is conducted every five years. In 2007, the comprehensive project list was updated and over 300 projects were evaluated based on public input and with the advice of a Planning Advisory Committee. Every project in the Southwest Florida Water Management District's Regional Water Supply Plan was again considered. The Tampa Bay Water Board approved the update to the Long-Term Master Water Supply Plan in December 2008. The Board directed that three policy planning areas and seven projects be further studied. The major alternative water supply project ideas in the District's Regional Water Supply Plan are included in the Master Water Plan. Tampa Bay Water has completed the three policy planning studies that were approved by the Board of Directors during the 2008 update including an overview of Regional Reclaimed Water planning, and the creation of a Source Water Protection Plan. An update to the Demand Management Plan is scheduled for completion in 2013.

Tampa Bay Water is in the process of updating the Long-Term Master Water Supply Plan this year. The update will be completed in December. During this planning cycle, no new water supply projects will have to be chosen and constructed due to lower demand projections for the region. It is anticipated that new project selection will next be considered during the 2018 update to the Plan.

TABLE I
EXISTING WATER SUPPLY FACILITIES

Facility	Current/Permitted/Rated/ or Design Capacity	Current Water Use Permit	Location
Cosme-Odessa Wellfield	Consolidated Permit Wellfield*	Consolidated Water Use Permit Issued January 25, 2011. Expires January 25, 2021. Permittee - Tampa Bay Water	Northwest Hillsborough County, along Racetrack Road and Gunn Highway. 19 wells.
Cross Bar Ranch Wellfield	Consolidated Permit Wellfield*	Consolidated Water Use Permit Issued January 25, 2011. Expires January 25, 2021. Permittee - Tampa Bay Water	North-Central Pasco County, east of US 41, north of SR 52 and south of CR 578. 17 wells.
Cypress Bridge Wellfield	Consolidated Permit Wellfield*	Consolidated Water Use Permit Issued January 25, 2011. Expires January 25, 2021. Permittee - Tampa Bay Water	South-Central Pasco County, Wesley Chapel Area, and North-Central Hillsborough County in the vicinity of I-75 and CR 581. 10 wells.
Cypress Creek Wellfield	Consolidated Permit Wellfield*	Consolidated Water Use Permit Issued January 25, 2011. Expires January 25, 2021. Permittee - Tampa Bay Water	Central Pasco County, east of US 41 and CR 583, south of SR 52, north of SR 54. 13 wells, pump station site and storage facilities.
Morris Bridge Wellfield	Consolidated Permit Wellfield*	Consolidated Water Use Permit Issued January 25, 2011. Expires January 25, 2021. Permittee - Tampa Bay Water	North-Central Hillsborough County. 20 wells.
Eldridge-Wilde Wellfield	Consolidated Permit Wellfield*	Consolidated Water Use Permit Issued January 25, 2011. Expires January 25, 2021. Permittee - Tampa Bay Water	Northeast corner of Pinellas County and northwest corner of Hillsborough County at the Pasco County line. 34 wells.
North Pasco Regional Wellfield	Consolidated Permit Wellfield*	Consolidated Water Use Permit Issued January 25, 2011. Expires January 25, 2021. Permittee - Tampa Bay Water	West-Central Pasco County, immediately south of SR 52 and east of CR 587. 2 wells.

For the 11 Consolidated Permit Wellfields (Water Use Permit No. 20011771.001), compliance is assessed on a 12-month running average basis at a quantity of 90 mgd, with compliance assessed on the first day of each calendar month. Tampa Bay Water's Optimized Regional Operations Plan (OROP) controls pumpage based on current environmental conditions.

Facility	Current Permitted/Rated/ or Design Capacity (mgd)	Current Water Use Permit	Location
Northwest Hillsborough Regional Wellfield	Consolidated Permit Wellfield*	Consolidated Water Use Permit Issued January 25, 2011. Expires January 25, 2021. Permittee - Tampa Bay Water	Northwest Hillsborough County, along Gunn Hwy and south of CR 589. 7 wells and 2 subdivision wells (Crystal Lake Manor).
Section 21 Wellfield	Consolidated Permit Wellfield*	Consolidated Water Use Permit Issued January 25, 2011. Expires January 25, 2021. Permittee - Tampa Bay Water	Northwest Hillsborough County, in Lake Park at the southwest corner of the intersection of Dale Mabry Highway and Van Dyke Road. 5 wells.
South-Central Hillsborough Regional Wellfield	24.10	WUP 20004352.006 issued November 26, 2007 with letter modification (WUP 20004352.007) issued February 7, 2011. Expires December 31, 2020. Permittee - Tampa Bay Water	Southeast Hillsborough County, in the vicinity of Lithia-Pinecrest, Keysville and Nichols Roads. 17 wells.
South Pasco Wellfield	Consolidated Permit Wellfield*	Consolidated Water Use Permit Issued January 25, 2011. Expires January 25, 2021. Permittee - Tampa Bay Water	South-Central Pasco County, south of SR 54. 8 wells.
Starkey Wellfield	Consolidated Permit Wellfield*	Consolidated Water Use Permit Issued January 25, 2011. Expires January 25, 2021. Permittee - Tampa Bay Water	West Pasco County, between SR 54 and SR 587. 14 wells.
Brandon Urban Dispersed Wells	6	WUP 20011732.003 issued November 20, 2009. Expires November 20, 2019. Permittee-Tampa Bay Water	South-Central Hillsborough County, south of SR 54, north of Durant Road. 5 wells.
Eagles Wells	0.198	WUP 206312.003 issued September 3, 1993, extended July 1998. Expires September 3, 2017. Permittee - Tampa Bay Water	Northwest Hillsborough County, north of Race Track Road, west of Boy Scout Road. 2 wells.
Carrollwood Wells	0.82	WUP 20005886.004 issued October 11, 2010. Expires October 11, 2030. Permittee - Tampa Bay Water	Northwest Hillsborough County, east of Dale Mabry Highway, north of Busch Blvd. 3 wells.
Cypress Creek Pump Station and Water Treatment Plant	165	Not Applicable	Central Pasco County, east of US 41 and SR 583, south of SR 52.
Morris Bridge Booster Station	30	Not Applicable	Northern Hillsborough County, east of I-75 and CR 581.
South-Central Hillsborough Intertie Booster Station	180	Not Applicable	South-Central Hillsborough County on Boyette Road between Carr Road and Bell Shoals Road
Offstream Reservoir Pump Station	120	Not Applicable	South Hillsborough County at Regional Reservoir Site
Regional Surface Water Treatment Plant	90 operating /120 rated	Not Applicable	Central Hillsborough County, south of Columbus Drive extension between US 301 and Falkenburg Road
Regional High Service Pump Station	135	Not Applicable	Central Hillsborough County, south of Columbus Drive extension between US 301 and Falkenburg Road
Repump Station	180	Not Applicable	Central Hillsborough County, south of Columbus Drive extension between US 301 and Falkenburg Road

For the 11 Consolidated Permit Wellfields (Water Use Permit No. 20011771.001), compliance is assessed on a 12-month running average basis at a quantity of 90 mgd, with compliance assessed on the first day of each calendar month. Tampa Bay Water's Optimized Regional Operations Plan (OROP) controls pumpage based on current environmental conditions.

Facility	Current Permitted/Rated/ or Design Capacity (mgd)	Current Water Use Permit	Location
Lake Bridge Water Treatment Plant	6.9	Not Applicable	North-Central Hillsborough County at Hillsborough-Pasco County Line.
South Pasco Water Treatment Plant	28	Not Applicable	South Pasco County
Eldridge-Wilde H2S Removal Facility (AKA Keller H2S Water Treatment Plant)	45	Not Applicable	North-East Pinellas County
Morris Bridge Booster Pump Station	30	Not Applicable	East of I-75 and Bruce B. Downs Boulevard.
Tampa Bypass Canal @ Harney Road Pumping Station	20	WUP 20006675.006 issued May 26, 2011. Expires May 26, 2031. Permittee-Tampa Bay Water	Central Hillsborough County. Tampa Bypass Canal at Harney Road.
Tampa/Hillsborough Interconnect Pump Station	15	Not Applicable	Northwest Hillsborough County, north Tampa area.
System Interconnect: South-Central Hillsborough Infrastructure Project (Phase 2)	9.24	Not Applicable	South-Central Hillsborough County
Tampa Bypass Canal Water Supply	259	WUP 20011796.002. Issued August 28, 2007. Expires December 31, 2030. Permittee-Tampa Bay Water.	Tampa Bypass Canal at Martin Luther King Boulevard in Hillsborough County.
Alafia River Pump Station	60	WUP 20011794.01. Issued November 27, 2012. Expires November 27 2032. Permittee - Tampa Bay Water	Bell Shoals Road at the Alafia River in Hillsborough County.
Tampa Bay Regional Water Treatment Facilities	120	Not Applicable	Southeast corner of Broadway and U.S. 301 in Hillsborough County.
Tampa Bay Desalination Plant	28.75	Not Applicable	Apollo Beach area, Hillsborough County.
C.W. Bill Young Regional Reservoir	15.5 billion gallons	Not Applicable	South Hillsborough County between CR 39 and Boyette Road.

For the 11 Consolidated Permit Wellfields (Water Use Permit No. 20011771.001), compliance is assessed on a 12-month running average basis at a quantity of 90 mgd, with compliance assessed on the first day of each calendar month. Tampa Bay Water's Optimized Regional Operations Plan (OROP) controls pumpage based on current environmental conditions.

TABLE II
EXISTING PIPELINES

Facility	Diameter	Material	Length	Location	Comments
Cypress Creek Transmission Main	84" 84" 72" 66" 64" 60"	WSP PCCP PCCP PCCP DIP PCCP PCCP	28,845' 36,385' 492' 4,210' 21,000' 460' 11,458'	The route follows the abandoned CSX railroad line corridor southwest from the Cypress Creek Wellfield in the Land O' Lakes area of Pasco County, crossing under SR 54, through the Trinity Communities development to Pinellas County. The Trinity line was rebuilt as 21,000' of 64" DIP in 1996/1997. 4,210' of 66" cement pipe plus replacement of 40,000' of Interpace pipe have been completed. 28,845' of 84" PCCP was replaced with 84" WSP in February 2007.	These mains carry treated water from the Cypress Creek Water Treatment Plant in Pasco County to Central and West Pasco County distribution systems, Pinellas County's transmission system, and the St. Petersburg/South Pasco Wellfield Connector. Water comes from Cypress Creek, Cross Bar Ranch, Morris Bridge, Cypress Bridge Wellfields, and the Regional Surface Water and groundwater treatment plants. The original construction was completed in 1975. Full replacement of the pipeline was completed in 2007.
Cross Bar Ranch Transmission Main & Wellfield Collection Lines	60" 36" 30" 24" 16"	PCCP PCCP PCCP PCCP PCCP	50,096' 1,582' 2,620' 1,185' 20,602'	The transmission main route generally follows a southeast direction, carrying raw water from the Cross Bar Ranch Wellfield, crossing under SR 52, and then connecting to the Cypress Creek Water Treatment Plant. The wellfield collection system contains 16" to 36" pipe connectors.	This main carries raw water from the Cross Bar Ranch Wellfield to the Cypress Creek Water Treatment Plant. Both of these facilities are in Pasco County. The line was constructed in 1980.
Cypress Bridge Transmission Main and Collection Mains	66" 64" 48" 36" 30" 24" 20" 18" 16"	WSP DIP DIP DIP DIP DIP DIP DIP DIP	30,000' 23,000' 24' 11,945' 3,381' 750' 1,760' 30,808' 4,900'	The transmission main (66" & 64") pipeline route travels southeast from the Cypress Bridge Wellfield to the Topp of Tampa Airport, under I-75, then south to the Lake Bridge Water Treatment Plant. The collection mains collect raw water from the Cypress Bridge Wellfield for transmission.	These transmission mains connect the Cypress Bridge Wellfield to the Lake Bridge Water Treatment Plant in Hillsborough County and to the Cypress Creek Water Treatment Plant. The collection mains collect well water for treatment at the Lake Bridge Water Treatment Plant. Construction was completed in 1996.
Morris Bridge Transmission Main	64"	DIP	19,400'	The pipeline route generally travels along the western side of Trout Creek to the Cypress Bridge Wellfield.	The pipeline connects the Morris Bridge Booster Pump Station to the Cypress Bridge Transmission Main. This project interconnects the City of Tampa's Morris Bridge Water Treatment Plant and the Regional System.
North Pasco Wellfield Transmission Main	36" 16"	DIP DIP	17,800' 2,700'	The route travels south from the North Pasco Wellfield, along the Florida Power powerline corridor to the Starkey Wellfield.	These pipelines carry raw water from the North Pasco Wellfield to the Starkey Wellfield. Water is then delivered to New Port Richey's George Maytum Water Plant and Pasco County's Water Treatment Plant.

* PCCP Prestressed Cylindrical Concrete Pipe
WSP Welded Steel Pipe
DIP Ductile Iron Pipe
RCP Reinforced Concrete Pipe
CI Cast Iron
HDPE High Density Polyethylene

Facility	Size	Material*	Length	Location	Comments
Keller Connector Transmission Main	64" and 66"	WSP	8,129'	The pipeline connects the Cypress Creek Transmission Main at the Pinellas/Pasco County border and travels due south to Pinellas County's Keller Water Treatment Plant site.	The pipeline carries treated water from the Cypress Creek Water Treatment Plant in Pasco County to Pinellas County's distribution system.
Northwest Hillsborough Collection Main	36" 30" 24" 16"	PCCP PCCP PCCP DIP	390' 10,700' 4,400' 13,052'	Located in Northwest Hillsborough County. The pipeline route travels northwest, roughly paralleling Gunn Highway (CR 587) from Anderson Road to Manhattan Drive, then south along the Upper Tampa Bay Trail and west to Sheldon Road (CR 589).	These mains carry raw water from the Northwest Hillsborough Regional Wellfield to Sheldon Road Transmission Main. Construction was completed in 1985.
Northwest Hillsborough Transmission Main	36"	PCCP	16,910'	Located in Northwest Hillsborough County. Begins at the Gunn Highway and Manhattan Drive intersection and continues north to Race Track Road and St. Petersburg's Cosme Water Treatment Plant.	The pipeline carries treated water in either direction and connects the Northwest Hillsborough Pipeline and Cosme transmission main.
South-Central Hillsborough Regional Wellfield Transmission Mains and Collection Mains	54" 48" 42" 36" 30" 24" 20" 16"	PCCP PCCP PCCP DIP DIP DIP PCCP DIP	31,000' 11,600' 1,350' 1,500' 2,500' 1,400' 4,700' 14,500'	The pipeline travels west from the Keysville area of southern Hillsborough County, south of SR 60, north of Lithia-Pinecrest Road to the Lithia Water Treatment Plant.	These mains carry raw water from the South-Central Hillsborough Regional Wellfield to the Lithia Water Treatment Plant.
Starkey Wellfield Transmission Main and Collection Mains	42" 36" 30" 24" 16" 12" 8"	PCCP DIP PCCP DIP DIP DIP DIP	26,548' 4,100' 6,000' 2,629' 21,655' 325' 575'	Collects water in the Starkey Wellfield and travels west from the Starkey Wellfield to Decubellis Rd.	The transmission main carries raw water from the Starkey Wellfield to Pasco County's Water Treatment Plant and New Port Richey's Water Treatment Plant.
Tampa Bypass Canal/ Harney Transmission Main	42" 30"	DIP DIP	670' 6'	Moves water from east to west along the south side of the Tampa Bypass Canal across Flood Control Structure #161.	These pipelines carry raw surface water from the Tampa Bypass Canal Pump Station across Flood Control Structure #161 into the Hillsborough River Reservoir. The line was completed in 1991.

*DIP Ductile Iron Pipe
CI Cast Iron
HDPE High Density Polyethylene
PCCP Prestressed Cylindrical Concrete Pipe
RCP Reinforced Concrete Pipe
WSP Welded Steel Pipe

Facility	Size	Material*	Length	Location	Comments
South Pasco Transmission Main	42" 36" 30" 42"	RCP PCCP PCCP DIP	59,580' 4,200' 3,136' 6,685'	Travels south from the Cypress Creek 84" Transmission Main the Lake Park Water Treatment Plant and the Cosme Water Treatment Plant.	Links the South Pasco Wellfield and Cypress Creek Transmission Main, then the Lake Park Water Treatment Plant and the Cosme Water Treatment Plant.
North-Central Hillsborough Intertie	84"	WSP	65,000'	The pipeline route travels south from Morris Bridge along the Tampa Bypass Canal levee, then through Sabal Park to the Regional Water Treatment Plant.	This Transmission Main conveys treated and blended surface water, groundwater, and desalinated seawater from the Regional Water Treatment Plant to the regional system near Morris Bridge.
South-Central Hillsborough Intertie	72"	WSP	67,330'	The pipeline route travels south from the Tampa Bay Water Regional Facilities site at U.S. 301/Broadway Ave. adjacent to Falkenburg Road, then west in the TECO easement to the Alafia River pump station located at Bell Shoals Road and the Alafia River in Hillsborough County.	This Transmission Main conveys excess raw water from the Tampa Bypass Canal and Hillsborough River sources to the C.W. Bill Young Regional Reservoir. It also conveys raw water from the Alafia River pump station and the C.W. Bill Young Regional Reservoir to the Tampa Bay Water Regional Surface Water Treatment Plant (SWTP).
Tampa Bay Desalination Plant Pipeline	42"	DIP	74,000'	Located in Hillsborough County in a TECO easement from TECO's Big Bend Station to the southeast corner of Broadway & US 301, then north to the Tampa Bay Water Regional Facilities site.	Transmission of product water to Tampa Bay Water's Regional Facilities site.
Gunn Highway Well Collection Main	24" 20" 16"	PCCP PCCP PCCP	18,500' 1,300' 2,650'	The pipeline route travels south on Gunn Highway from about one mile north of Van Dyke Road to the Cosme Water Treatment Plant.	This collection main links dispersed wells in the Cosme-Odessa Wellfield to the collector main for the facility.
Cosme Treated Water Interconnection	48"	DIP	20'	Cosme Water Treatment Plant	Receive treated water from Cosme Water Treatment Plant to the Cosme 66" Transmission Main.
Cosme-Odessa Collection Mains	42" 36"	PCCP PCCP	6,600' 6,600'	Located within the Cosme-Odessa Wellfield Property.	These are the collection main transmission lines for the Cosme-Odessa Wellfield.
Eldridge-Wilde Collection Mains	42" 36" 30" 24" 20" 16" 12" 10" 8"	RCP RCP & DIP RCP & DIP RCP & DIP CI & DIP CI & DIP CI & DIP CI & DIP CI & DIP	10,650' 3,050' 6,405' 2,830' 5,250' 8,330' 6,969' 3,017' 600'	Located in Northeast Pinellas County and Northwest Hillsborough County.	The collection mains connect 34 wells in the Eldridge-Wilde Wellfield to Pinellas County's Keller Water Treatment Plant.

*DIP Ductile Iron Pipe
CI Cast Iron
HDPE High Density Polyethylene
PCCP Prestressed Cylindrical Concrete Pipe
RCP Reinforced Concrete Pipe
WSP Welded Steel Pipe

Facility	Size	Material*	Length	Location	Comments
Morris Bridge Wellfield Collection Mains	48" 36" 30" 24" 20" 16" 12"	PCCP PCCP PCCP PCCP DIP DIP DIP	6,460' 12,431' 10,110' 4,410' 2,150' 8,860' 11,560'	Located in the Morris Bridge Wellfield.	The collection main links the Morris Bridge Wellfield to the Morris Bridge Booster station and the City of Tampa water treatment plant on Bruce B. Downs Blvd.
Brandon Transmission Main	36" 30"	DIP DIP	28,000' 30,000'	This pipeline begins near Miller and Durant Roads, traveling north on Durant, Lithia-Pinecrest and Kingsway. From Kingsway, it heads west along Wheeler and Broadway, then south along I-75, then west on Columbus to the Regional Water Treatment Plant.	This finished water Transmission Main connects the Tampa Bay Water Regional Facilities site and Hillsborough County's Lithia Water Treatment Plant via the Brandon South-Central Connection.
BUD 5R Collection Main	16"	DIP	5534'	Interconnect replacement production well BUD 5R	South Central Hillsborough County; well is located in Ridge Crest Subdivision. Collection main runs along Wheeler Road from Seffner Valrico Road to Rutherford Drive.
Cypress Creek Wellfield Collection Mains	48" 42" 36" 30" 24" 16" 12"	PCCP PCCP PCCP PCCP PCCP PCCP DIP	7,119' 7,203' 4,606' 4,384' 4,523' 1,418' 330'	Located within the Cypress Creek Wellfield.	These mains collect raw water within the Cypress Creek Wellfield.
South Pasco Wellfield Collection Mains	42" 24" 20" 16" 12"	PCCP DIP DIP DIP DIP	6,264' 3,092' 2,053' 1,355'	Located within the South Pasco Wellfield.	These pipelines collect raw water within the South Pasco Wellfield.
Tampa Bypass Canal Transmission Main	84"	PCCP	9,629'	Located between the Tampa Bypass Canal Pump Station and the Tampa Bay Water Regional Facilities site.	This Transmission Main transports surface water to the Tampa Bay Water Regional Facilities site for treatment at the Tampa Bay Water Surface Water Treatment Plant.

* PCCP Prestressed Cylindrical Concrete Pipe
WSP Welded Steel Pipe
DIP Ductile Iron Pipe
RCP Reinforced Concrete Pipe
CI Cast Iron
HDPE High Density Polyethylene

Facility	Size	Material*	Length	Location	Comments
Section 21 Collection Mains	24" 12"	DIP DIP	2,855' 4,138'	Located within the Section 21 Wellfield.	These mains collect raw water within the Section 21 Wellfield.
Cosme Transmission Main	66"	WSP	43,900'	Located in Northwest Hillsborough County.	This transmission main connects the Regional System to the Cosme Water Treatment Plant.
Eagles Wells Collection Mains	8"	DIP	15,550'	Located in Northwest Hillsborough County.	This collection main collects water from the Eagles Wells and delivers it to the Cosme Water Treatment Plant.
Brandon/South-Central Connection	30"	DIP	33,300'	Located in South-Central Hillsborough County.	This transmission main connects the Brandon Transmission Main at Miller and Durant Roads to the Lithia Water Treatment Plant site.
Regional Reservoir Transmission Main	84"	WSP	42,240'	Located in South Hillsborough County.	Connects the C.W. Bill Young Regional Reservoir to the Alafia River Intake & Pump Station and the South-Central Hillsborough Intertie.
South-Central Hillsborough System Interconnect	30" 24"	DIP DIP	1,380' 60'	Located in South-Central Hillsborough County at the Lithia Water Treatment Plant.	This yard piping allows treated regional water to be provided to Hillsborough County at their Lithia Water Treatment Plant site.
West Pasco Infrastructure Project Transmission Main	42" 36" 	DIP Steel DIP Steel	11,927' 5,196' 18,893' 855'	Located in western Pasco County.	This transmission main connects the Starkey and North Pasco Wellfields.
Carrollwood Collection Main	10" 12" 10" 12"	DIP DIP HDPE HDPE	2,835' 13,596' 1,379' 3,266'	Located in Northwest Hillsborough County	This transmission main connects the Carrollwood wells to the Northwest Hillsborough collector main.
Central Pasco Infrastructure Project	42" 36" 30" 24" 6"	DIP DIP DIP DIP DIP	178' 764' 433' 585' 225'	Located in Central Pasco County	Increase capacity of delivery to Pasco County system
Point of Connection Improvement for Central Hillsborough County	36" 30"	DIP DIP	106' 52'	Located at the Tampa Bay Water Regional Facility Site in Hillsborough County	New connection point to provide water to Hillsborough County from regional system.
Point of Connection Addition for City of Tampa	36" 4"	DIP DIP	188' 65'	Located at the Tampa Bay Water Regional Facility Site in Hillsborough County	New connection point to provide water from regional system to City of Tampa.
Northwest Hillsborough Well #7 Connection	24" 24" 16" 12" 12"	DIP HDPE DIP DIP HDPE	4,630' 5,311' 700' 1,705' 383'	Northwest Hillsborough County	Interconnects NWH Well #7 to the Section 21 Wellfield pipeline.

Facility	Size	Material*	Length	Location	Comments
System Interconnect: South-Central Hillsborough Infrastructure Project Pipeline (Phase 2)	24" 24" 20" 20" 12" 10" 10"	DIP HDPE DIP HDPE DIP DIP HDPE	1,774' 992' 8,772' 6,110' 266' 3,156' 2,097'	Pipeline has two branches originating from the Brandon Urban Dispersed Wellfield. The first branch travels from Lithia-Pinecrest Rd. east on Dew Bloom Rd. and north on Oakwood Ave. to Centennial Lodge Dr. The second branch travels from Kingsway Road east on Wheeler Rd., south on Seffner-Valrico Rd., west on Clay Ave. and south on Oakwood Ave. to Centennial Lodge Dr.	The pipeline interconnects Brandon Urban Dispersed Wells (BUDW) 2, 4 and 6 to the BUDW 5 Water Treatment Plant and then carries potable water to the Brandon TM.
Qdessa Emergency Bypass	36"	DIP	9210'	Located in Central Pasco County	Connects West Pasco Transmission Main to the Odessa Booster Station
Eastshore 36" /COT 36"	36"	DIP	5280	From 301 & Columbus Dr.to Regional Water Lane	Ties City of Tampa to Regional Point of Connection & Surface Water Treatment Plant Discharge

* PCCP	Prestressed Cylindrical Concrete Pipe
WSP	Welded Steel Pipe
DIP	Ductile Iron Pipe
RCP	Reinforced Concrete Pipe
CI	Cast Iron
HDPE	High Density Polyethylene

Note: Facilities listed do not include information on pipeline appurtenances such as valves, electronic monitoring equipment, and flow measuring devices.

TABLE IV

PROPOSED FACILITY REPLACEMENT THROUGH 2021

Facility	Function	Size	Location	Date Scheduled to Begin - End	Financing
Not Applicable *	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

* There are currently no proposed major water supply facilities in need of replacement between now and 2021

TABLE V
POTENTIAL FACILITIES AVAILABLE TO MEET THE 20-YEAR WATER SUPPLY NEEDS

Project	Function	Project Type	Potential Capacity	Location	Potential Financing
Configuration III potential projects include: - Surface & Recharge Water Projects - Gulf Coast Desalination - Small Footprint Reverse Osmosis-Pinellas County - Tampa Bay Desalination Plant Expansion - Additional Potable Groundwater From Existing Northern Tampa Bay Wellfields - Thonotosassa Wells	Potable water supply	System Configuration III	To be determined*	Various locations	Revenue Bonds, SWFWMD Funding, State Funding, Federal Funding

*Timing and Capacity of Need to be updated following completion of the Future Needs Analysis.

OVERALL FINANCING

Tampa Bay Water has financed projects through Utility System Revenue Bonds that are secured by a pledge of and lien upon the net revenues derived from the operation of Tampa Bay Water's utility system. Tampa Bay Water is not limited to this method of financing. Tampa Bay Water is also utilizing variable rate demand bonds and has utilized the Florida Local Government Finance Commission Commercial Paper Loan Program to finance several of its projects on a short-term basis. Certain projects may be funded through rate collection and through capital contributions. Tampa Bay Water has also been successful in securing over $57 million in Federal Funds for the C.W. Bill Young Regional Reservoir project and secured $183 million through the Partnership Agreement with the Southwest Florida Water Management District (District) to assist in the development of eligible projects for System Configuration I. The District, State and Federal sources have provided funding for planning and design of alternative water supply projects. The District funded $11.25 million for design and construction of the West Pasco Infrastructure Project. The District and the northern Tampa Bay Basin Boards have approved 50% co-funding, in the amount of $183 million for System Configuration II. Tampa Bay Water will also seek co-funding for System Configuration III.