COUNTY COUNCIL

OF

TALBOT COUNTY

2019 Legislative Session, Legislative Day No.: December 17, 2019

Resolution No.: 281

Introduced by: Mr. Callahan, Mr. Divilio, Mr. Pack

A RESOLUTION TO AMEND THE TALBOT COUNTY COMPREHENSIVE WATER AND SEWER PLAN (THE "PLAN") TO RECLASSIFY AND REMAP CERTAIN REAL PROPERTY LOCATED IN THE TOWN OF TRAPPE, MARYLAND, ASSOCIATED WITH THE LAKESIDE PLANNED UNIT DEVELOPMENT (THE "LAKESIDE PROJECT") (FORMERLY KNOWN AS "TRAPPE EAST"), FURTHER DESCRIBED AS TAX MAP 54, PARCEL 304; TAX MAP 55, PARCELS 14, 15, 17, 19, 44, 65, 83, AND 85; AND, TAX MAP 59, PARCEL 4, THE TOTAL AREA CONSISTING OF EIGHT HUNDRED SIXTY-FIVE ACRES, MORE OR LESS (THE "PROPERTY"), FROM "S-2" AND "W-2" (AREAS WHERE IMPROVEMENTS OR EXTENSIONS TO EXISTING, OR CONSTRUCTION OF NEW COMMUNITY, MULTI-USE, OR SHARED SANITARY FACILITIES ARE PROGRAMMED FOR PROGRESS WITHIN THREE TO FIVE YEARS) TO "S-1" AND "W-1" (AREAS SERVED OR TO BE SERVED BY COMMUNITY, MULTI-USE, OR SHARED SANITARY FACILITIES WHICH ARE EXISTING, UNDER CONSTRUCTION, OR HAVE IMMEDIATE PRIORITY STATUS); TO AMEND THE PLAN TO ADD CERTAIN WATER AND SEWER CAPITAL PROJECTS RELATED TO THE LAKESIDE PROJECT AND EXISTING SYSTEMS FOR THE FISCAL YEARS 2020 THROUGH 2030; AND, TO AMEND THE PLAN TO UPDATE THE NARRATIVE DESCRIPTION IN THE PLAN RELATIVE TO THE LAKESIDE PROJECT AND EXISTING SYSTEMS

By the Council: December 17, 2019

Introduced, read the first time, and ordered posted, with Public Hearing scheduled on Tuesday, February 11, 2020 at 6:30 p.m. in the Bradley Meeting Room, South Wing, Talbot County Courthouse, 11 North Washington Street, Easton, Maryland 21601.

By order: Susan W. Moran

Susan W. Moran, Secretary

A RESOLUTION TO AMEND THE TALBOT COUNTY COMPREHENSIVE WATER AND SEWER PLAN (THE "PLAN") TO RECLASSIFY AND REMAP CERTAIN REAL PROPERTY LOCATED IN THE TOWN OF TRAPPE, MARYLAND, ASSOCIATED WITH THE LAKESIDE PLANNED UNIT DEVELOPMENT (THE "LAKESIDE PROJECT") (FORMERLY KNOWN AS "TRAPPE EAST"), FURTHER DESCRIBED AS TAX MAP 54, PARCEL 304; TAX MAP 55, PARCELS 14, 15, 17, 19, 44, 65, 83, AND 85; AND, TAX MAP 59, PARCEL 4, THE TOTAL AREA CONSISTING OF EIGHT HUNDRED SIXTY-FIVE ACRES, MORE OR LESS (THE "PROPERTY"), FROM "S-2" AND "W-2" (AREAS WHERE IMPROVEMENTS OR EXTENSIONS TO EXISTING, OR CONSTRUCTION OF NEW COMMUNITY, MULTI-USE, OR SHARED SANITARY FACILITIES ARE PROGRAMMED FOR PROGRESS WITHIN THREE TO FIVE YEARS) TO "S-1" AND "W-1" (AREAS SERVED OR TO BE SERVED BY COMMUNITY, MULTI-USE, OR SHARED SANITARY FACILITIES WHICH ARE EXISTING, UNDER CONSTRUCTION, OR HAVE IMMEDIATE PRIORITY STATUS); TO AMEND THE PLAN TO ADD CERTAIN WATER AND SEWER CAPITAL PROJECTS RELATED TO THE LAKESIDE PROJECT AND EXISTING SYSTEMS FOR THE FISCAL YEARS 2020 THROUGH 2030; AND, TO AMEND THE PLAN TO UPDATE THE NARRATIVE DESCRIPTION IN THE PLAN RELATIVE TO THE LAKESIDE PROJECT AND EXISTING SYSTEMS

WHEREAS, the Town of Trappe, Maryland (the "**Town**") and Trappe East Holdings Business Trust ("**Owner**"), the owner of certain real property located in the Town of Trappe, Maryland, associated with the Lakeside Planned Unit Development (formerly known as "Trappe East") (the "**Lakeside Project**"), further described as Tax Map 54, Parcel 304; Tax Map 55, Parcels 14, 15, 17, 19, 44, 65, 83, and 85; and, Tax Map 59, Parcel 4, the total area consisting of eight hundred sixty-five (865) acres, more or less (the "**Property**"), have jointly submitted a request to amend the Talbot County Comprehensive Water and Sewer Plan (the "**Plan**") for the change of priority water and sewer status; to add certain water and sewer capital projects to the Plan for Fiscal Years 2020 through 2030; and, to update the narrative description in the Plan relative to the Lakeside Project and existing systems; and,

WHEREAS, the Talbot County Department of Public Works has processed Owner's request to authorize the extension of sewer service to the Property in accordance with the applicable procedures set forth in the Talbot County Comprehensive Water and Sewer Plan; and,

WHEREAS, in accordance with the requirements of Environment Article § 9-506(a)(1), Md. Ann. Code, the proposed amendment has been submitted to the Talbot County Planning Commission and the Talbot County Public Works Advisory Board for review for consistency with planning programs for the area. Before the County Council may adopt the proposed amendment, the Talbot County Planning Commission must first certify that the amendment is consistent with the 2016 Talbot County Comprehensive Plan.

NOW, THEREFORE, BE IT RESOLVED BY THE COUNTY COUNCIL OF TALBOT COUNTY, MARYLAND, that the Talbot County Comprehensive Water and Sewer Plan shall be and is hereby amended as follows:

SECTION ONE: The above recitals are hereby incorporated as if fully set forth herein.

SECTION TWO: The Plan is amended to reclassify and remap the Property from the current classification of "W-2" to "W-1", immediate priority status, as shown and described on the Comprehensive Water and Sewer Plan worksheet titled "Talbot County Comprehensive Water & Sewer Plan, Town of Trappe, Proposed Water Service Area & Water System Facilities," prepared by the Talbot County Department of Public Works, dated December 9, 2019, which worksheet is attached hereto as Exhibit "A" and incorporated herein. Figures 11 and 12 of the Plan, titled "Talbot County Town of Trappe Water Service Area" and "Talbot County Town of Trappe Long Range Planning Water Service Area," respectively, are amended to reflect the reclassification and remapping from "W-2" to "W-1" as set forth herein.

SECTION THREE: The Plan is amended to reclassify and remap the Property from the current classification of "S-2" to "S-1", immediate priority status, as shown and described on the Comprehensive Water and Sewer Plan worksheet titled "Talbot County Comprehensive Water & Sewer Plan, Town of Trappe, Proposed Sewer Service Area & Sanitary System Facilities," prepared by the Talbot County Department of Public Works, dated December 9, 2019, which worksheet is attached hereto as Exhibit "B" and incorporated herein. Figures 23 and 24 of the Plan are amended to reflect the reclassification and remapping from "S-2" to "S-1" set forth herein.

SECTION FOUR: Table 10 of the Plan is updated to add certain capital improvement projects proposed for Fiscal Years 2020 through 2030 as set forth in Exhibit "C", attached hereto and incorporated herein.

SECTION FIVE: Table 21 of the Plan is updated to add certain capital improvement projects proposed for Fiscal Years 2020 through 2030 as set forth in Exhibit "D", attached hereto and incorporated herein.

SECTION SIX: Those narrative sections contained in Chapter Two, Pages 14-16, of the Plan, titled "Trappe Area Water System" and "Trappe Area Water System – Future Planning" are amended and restated in their entirety to update the narrative description of Trappe's water system as set forth in Exhibits "E", attached hereto and incorporated herein.

SECTION SEVEN: Those narrative sections contained in Chapter Two, Pages 43-45, of the Plan, titled "Trappe Area Sewer System" and "Trappe Area Sewer System – Future Planning" are amended and restated in their entirety to update the narrative description of Trappe's sewer system as set forth in Exhibit "F", attached hereto and incorporated herein.

SECTION EIGHT: The Town of Trappe and/or Owner shall be solely responsible for any and all costs and expenses associated with water and sewer improvements at the Property and for providing adequate water and sewer service to any person entitled to such service at the Property.

BE IT FURTHER RESOLVED, that this Resolution shall take effect immediately upon the date of its passage.

PUBLIC HEARING

Having been posted and Notice, Time and Place of Hearing, and Title of Resolution No. _____having been published, a public hearing was held on _____at _____ p.m. in the Bradley Meeting Room, South Wing, Talbot County Courthouse, 11 North Washington Street, Easton, Maryland.

BY THE COUNCIL

Read the second time:

Enacted: _____

By Order: _____
Susan W. Moran, Secretary

Pack -

Divilio -

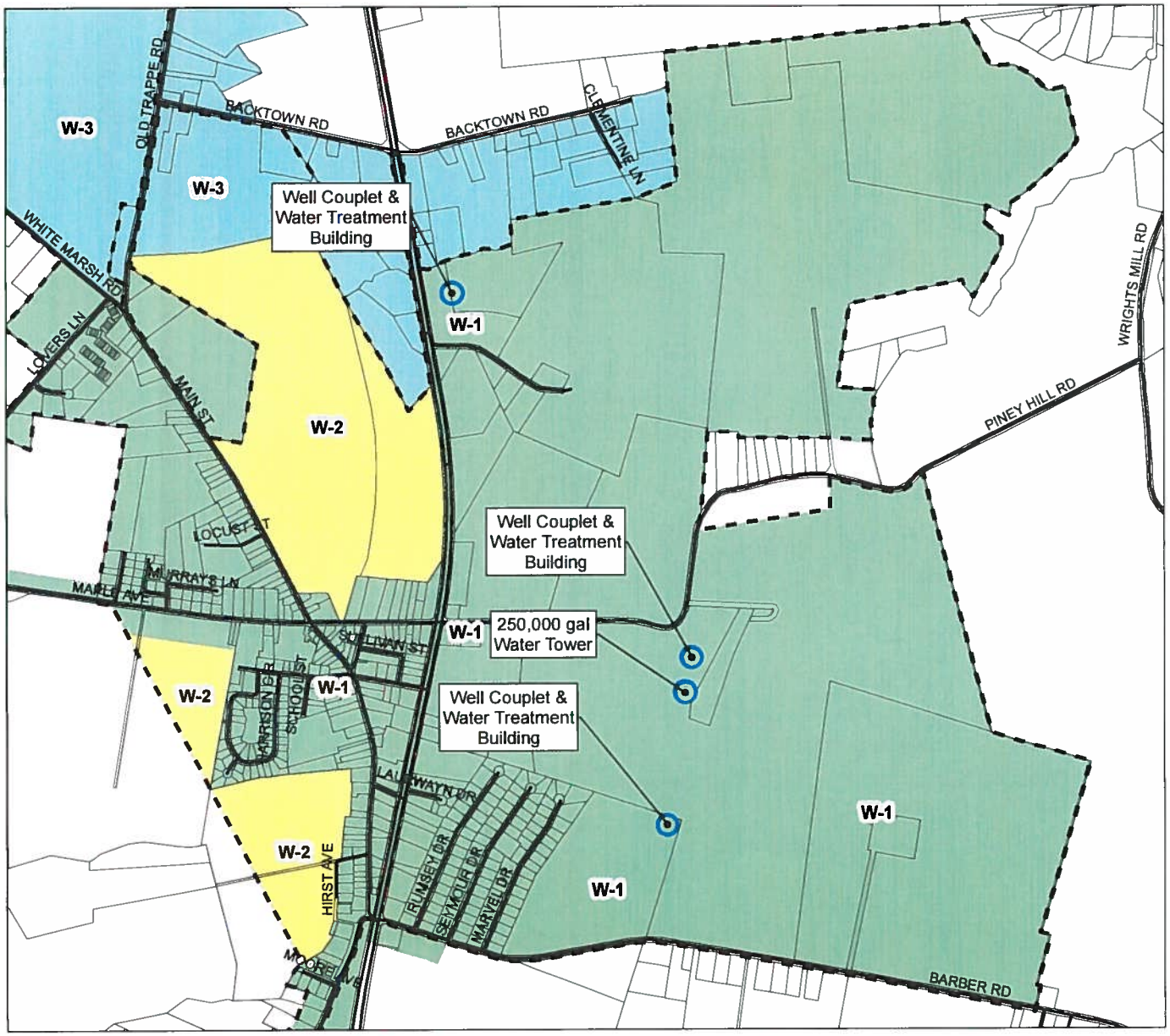
Callahan -

Price -

Lesher -

Effective Date: _____

EXHIBIT "A"



Talbot County
Comprehensive Water & Sewer Plan

Town of Trappe
Proposed Water Service Area
& Water System Facilities

N

Legend

Proposed Water System Facility

Proposed Water Service Area

TYPE

W-1

W-2

W-3

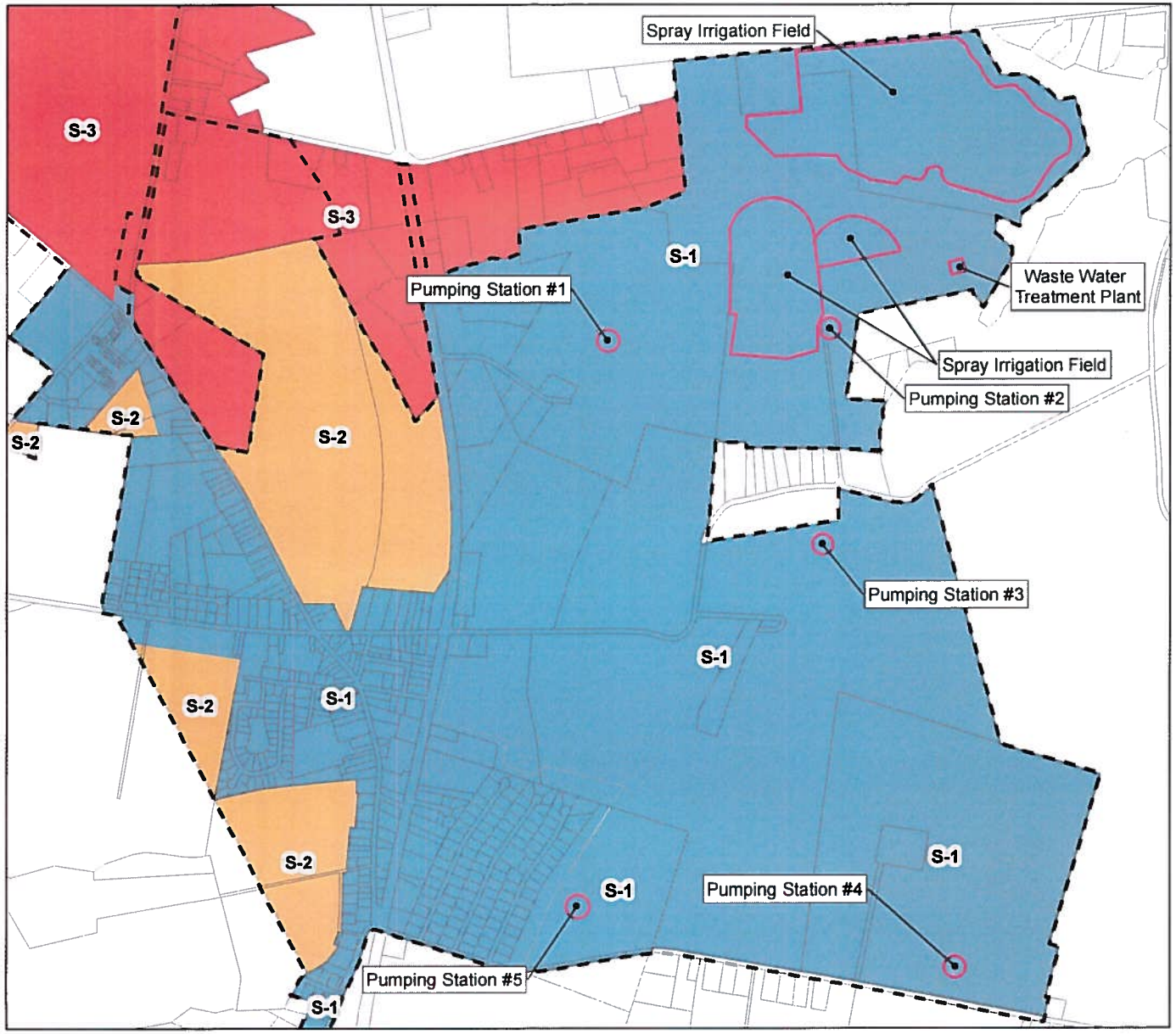
Talbot Municipal Boundary

Source: Talbot County Comprehensive Water & Sewer Plan: 2002 Report of the Review & Resolutions

0 1,000 2,000 Feet

Talbot County Public Works
December 9, 2019

EXHIBIT "B"



Talbot County
Comprehensive Water & Sewer Plan

Town of Trappe
Proposed Sewer Service Area
& Sanitary System Facilities

N

Legend

Proposed Sanitary System Facility

Proposed Sewer Service Area

TYPE

S-1

S-2

S-3

Talbot Municipal Boundary

Source: Talbot County Comprehensive Water & Sewer Plan: 2002 Report of the Review & Resolutions

0 1,000 2,000 Feet

Talbot County Public Works
December 9, 2019

EXHIBIT "C"

TABLE 10. TRAPPE WATER SYSTEM CAPITAL IMPROVEMENT PROJECTS		
PROJECT DESCRIPTION	**PROPOSED FISCAL YEAR**	**COMMENTS**
Construct water distribution system for Trappe East District Phases 1 and 2	2020	
Add water treatment facility and well couplet in Trappe East District	2020	
Extension of water distribution system in Trappe East District	2023-2030	
Add 250,000 gallon elevated water tower in Trappe East District	2023	
Add additional water treatment and well couplets in Trappe East District	2023-2030	Additional wells will be constructed and connected as water demands require
Add water distribution system to Whitemarsh District	2025-2030	
New well and well treatment system (aquifer – Piney Point)	2020	Cost of $1,150,000.00.

EXHIBIT "D"

TABLE 21. TRAPPE SEWERAGE SYSTEM CAPITAL IMPROVEMENT PROJECTS		
PROJECT DESCRIPTION	**PROPOSED FISCAL YEAR**	**COMMENTS**
New Phased 0.54 MGD WWTP, storage and spray irrigation for Trappe East Sewer District	2020	WWTP, storage and spray irrigation construction will be phased
Construct Phases 1 and 2 sewer collection and pumping system for Trappe East Sewer District	2020	Collection system, including regional pump stations, will be phases
Construct additional phases of sewer collection and pumping system for Trappe East Sewer District	2023-2030	
Extend sewer collection system along Howell Point Road	2022	
Extend sewer collection system to Whitemarsh Village District	2025-2030	
Upgrade the Trappe Sewer Area existing 0.20 MGD WWTP to ENR treatment	2021	$4,376,823.00. Upgrade the existing 200,000 gallon per day WWTP to Enhanced Nutrient Removal treatment to reduce the nutrient discharge to the Chesapeake Bay and remove sludge in the existing lagoon.
Functional replacement of existing pumping stations	2020-2021	$1,975,500.00. Repair and replace 7 existing pump stations and gravity sewer lines throughout the Town of Trappe.

EXHIBIT "E"

KEY

Boldface..... Heading or defined term.

* * *.....Existing Plan unaffected.

[*INTENTIONALLY BLANK*]

* * *

TRAPPE AREA WATER SYSTEM

The Town of Trappe currently has two Water Appropriation and Use Permits, issued by the MDE.

Piney Point Formation

Permit number: TA1979G006 (04)

Allocation - Water withdrawal granted by this permit is limited to:
Daily average of 347,500 gallons on a yearly basis and
Daily average of 497,000 gallons for the month of maximum use.

Source - Six wells in the Piney Point formation.

Location - Point(s) of withdrawal are/will be located south of Greenfield Avenue and west of Harrison drive, southeast of Piney Hill Road, southeast of Backtown Road, and north of Barber Road, Trappe, Talbot County, Maryland.

Matawan Formation

Permit number: TA1979G106 (02)

Allocation - Water withdrawal granted by this permit is limited to:
Daily average of 300,500 gallons on a yearly basis and
Daily average of 456,000 gallons for the month of maximum use.

Source - Three wells in the Matawan formation.

Location - Point(s) of withdrawal are/will be located on the southeast of Piney Hill Road, southeast of Backtown Road, and north of Barber Road, Trappe, Talbot County, Maryland.

The Town's present population is 1,140 and the Town has 470 existing water accounts.

The Town has two wells in the Piney Point Aquifer. The Town holds the following permits:

Well No. 4 Permit No. TA1979G006 (04)
- a. 410' deep - 6" diameter - 180 GPM
- b. Treatment - Chlorination

Well No. 5 Permit No. TA1979G006 (04)
- a. 421' deep - 8" diameter - 180 GPM
- b. Treatment - Chlorination

Well No. 4 produces a flow rate of approximately 161 gallons per minute ("GPM") and Well No. 5 produces approximately 174 GPM. A backup generator serves both wells. Current average water usage is approximately 244 gallons per day (GPD) per equivalent dwelling unit (EDU). The Town currently has one elevated storage tank of 250,000 gallons, which was built in 1997.

The capacity of the existing water system is based on well pumping capacity to meet average and peak daily demands and the ability of the wells, pumps and storage tank to meet minimum fire demands. Fire demands are evaluated based on the system's ability to provide 1,500 GPM for 2 hours while meeting the domestic demand (maximum day in the last 5 years) with the most productive well out of service.

Well Field Production with the best producing well not in operation – 161 GPM*1,440 = 231,840 GPD
Permitted Maximum Day Well Field Capacity – 290,000 GPD
Tank Capacity – 250,000 Gallons
Fire Flow Demand – 1,500 GPM for 2 hours
Domestic Demand Maximum Day (Last 5 Years) – 135,835 GPD (94 GPM)

Well No. 6 will be constructed to provide a third reliable production well for the Town water system in the Piney Point Aquifer. Well No. 6 will be located on the site that houses existing Well NO. 4 & 5. The treatment for Well No. 6 is anticipated to be strictly disinfection. The existing gas chlorine systems will be removed and a liquid chlorine system will be installed to serve all three wells. Well No. 6 will be at a depth of 420 feet and will be located close to the existing elevated Water Tower.

[*INTENTIONALLY BLANK*]

TABLE 10. TRAPPE WATER SYSTEM CAPITAL IMPROVEMENT PROJECTS		
PROJECT DESCRIPTION	**PROPOSED FISCAL YEAR**	**COMMENTS**
Construct water distribution system for Trappe East District Phases 1 and 2	2020	
Add water treatment facility and well couplet in Trappe East District	2020	
Extension of water distribution system in Trappe East District	2023-2030	
Add 250,000 gallon elevated water tower in Trappe East District	2023	
Add additional water treatment and well couplets in Trappe East District	2023-2030	Additional wells will be constructed and connected as water demands require
Add water distribution system to Whitemarsh District	2025-2030	
New well and well treatment system (aquifer – Piney Point)	2020	Cost of $1,150,000.00.

[*INTENTIONALLY BLANK*]

* * *

[*TALBOT COUNTY TOWN OF TRAPPE WATER SERVICE AREA,*

FIGURE 11]

* * *

TRAPPE AREA WATER SYSTEM - FUTURE PLANNING

As identified within the goals of Chapter One of this Plan, growth of the County is to be encouraged and directed in concentrated centers around existing centers of population that presently have adequate or potentially adequate water and sewer services. To plan water service to meet the needs of future growth, the water service provider, the Town of Trappe, is proposing to create three water service districts. The water service presently being provided in the Town of Trappe would be referred to as the Trappe Water District. To address the water needs in the growth area around the Town of Trappe, two new water service districts are being proposed.

The proposed Trappe East Water District would serve existing parcels located in the Town boundary and land annexed by the Town on the east side of Maryland Route 50. On the northern end of Town, a second water service district, White Marsh Water District, is being proposed to serve parcels annexed into the Town of Trappe.

The initial phase of the Lakeside development will utilize available capacity in the existing Trappe water system. The well pumping capacity will be increased by the development and connection of the Lakeside Piney Point well-constructed adjacent to Piney Hill Road. The development of the well will include pumps and water treatment facilities. Water treatment will be a Hypochlorite Disinfection system in a water treatment building. This water treatment building will support the addition of the Matawan well in a future phase. A 10" water main will be extended from the Piney Point well to the existing 10" water main located near the intersection of Piney Hill Road and US Route 50. Adequate chlorine contact time will be achieved in the length of the new main. The existing 10" water main extends north to Timberwind Lane and currently serves the residences on Timberwind Lane. Water service to the first phase of the Lakeside development will be provided by a 10" water main extension of the existing 10" main and will run along the alignment of the proposed Lakeside Boulevard. All areas of development will be fed from the main in the Boulevard. The main in the Boulevard will be extended in future phases and will ultimately loop back to a point in the existing Town water system near the intersection of Barber Road and US Route 50.

A new 250,000-gallon storage tank will be constructed when it is determined that the additional storage is required to meet fire flow demands. Additionally, the storage tank will be required when the first Matawan well is brought into service. Due to differences in fluoride concentrations, the Lakeside wells and water distribution system will be equipped with isolation valves to allow for the independent operation of both regions of the Town water system. The water tower will be required once the regions have been isolated.

Additional couplets of wells will be brought on line in accordance with pumping capacity needs.

The delineated development area around the Town of Trappe is shown on Figure 12. The factors that influence the size of the development areas for the Town of Trappe includes the growth potential of the Town, the presence of natural growth constraints such as waterways, the Chesapeake Bay Critical Area, and the availability of water and sewer service. As land is annexed into the Town of Trappe, these areas would be designated as W-1 (means areas served or to be served by the Town of Trappe that are either existing, under construction, or have immediate priority status to be served with water service) after amending the Talbot County Comprehensive Water and Sewer Plan.

The information presented in Figure 12 is for planning purposes. The Water Districts have been defined using a blue line with various colors, shading and hatches defining the areas of existing water service and future water service areas and the Priority Funding Areas as defined by the Town of Trappe and the County and those Priority Funding Areas approved by the State. This map does not impose an obligation on Talbot County or the Town of Trappe to provide water and/or sanitary sewer to service areas not presently being served. Prior to extending water service into the growth areas, the Town of Trappe would assure that the existing water system has capacity to serve the growth areas and the safety and adequacy of its public water supply system in maintained for all its users.

* * *

[*TALBOT COUNTY TOWN OF TRAPPE LONG RANGE PLANNING WATER SERVICE AREA, FIGURE 12*]

* * *

EXHIBIT "F"

KEY

Boldface..... Heading or defined term.

* * *.....Existing Plan unaffected.

[*INTENTIONALLY BLANK*]

* * *

TRAPPE AREA SEWERAGE SYSTEM

The Sewerage System Plan for existing and planned sewer service areas for the Town of Trappe is presented in Figure 23. In 2002, the Trappe Sewer Area wastewater treatment plant is a Biological Nutrient Removal using a Biolac, Wave Oxidation Process with chlorination/de-chlorination and sand filtration prior to discharging the effluent into a tributary of La Trappe Creek. The wastewater treatment system has a design and permit limitation of 220,000 gallons per day. The citizens of Trappe have a $3.5 million debt associated with the construction upgrade of the existing plant. Sludge was removed from the primary pond in 2002. The Town's outstanding indebtedness associated with the wastewater treatment plant is approximately $1.6 million. The Town has been exploring its alternatives to upgrade its wastewater treatment plant to treat at Enhanced Nutrient Removal levels.

The existing 0.20 MGD Wastewater Treatment Plant (WWTP) is approaching 20-years of service for the Town of Trappe and is in need of upgrades to continue to serve the community. In cooperation with the State of Maryland, the Town of Trappe has entered into an ENR Agreement for funding assistance to upgrade the existing facility to Enhanced Nutrient Removal standards and reduce the nutrient load to the Chesapeake Bay. The WWTP upgrade has been initiated with a Preliminary Engineer Report (PER) in 2019 to identify the upgrade scope of work and budgetary estimate. The PER remains under negotiation with Maryland Department of the Environment (MDE) and is anticipated for approval in 2020. With agreement by MDE and the Town on the PER, the design of the upgrade is schedule to proceed in 2020 with bidding and construction for 2021.

Treatment Plant:
Biolac, Wave Oxidation Process for Biological Nutrient Removal-200,000 gpd
Disinfection - Chlorination/De-chlorination
Point of discharge - Tributary of La Trappe Creek.

Flow Data Wastewater Treatment Plants									
Design Parameters				**Flow**		**Development Occupancy Units**			
Name or Service Area	Hydraulic (mgd)	Organic (ppm)		Avg. Day* (mgd)	Max. Day And Date**	Existing*	Anticipated*** BPI		
		BOD	SS				UC	NUC	PWA
Old Town (Existing Service Area)	0.200	210	450	0.140	0.363 (4/15/04)	438	3	0	0

*Per Effective Date of Plan
**During Previous Fiscal Year

BPI - Building Permits Issued Per Effective Date of Plan
UC - Building Permits Issued Per Effective Date of Plan for Units Under Construction
NUC - Building Permits Issued Per Effective Date of Plan for Units Not Under Construction
PWA – Building Permits for Unexpired Public Works Agreements Per Effective Date of Plan

Pumping Stations:

Inventory and Summary of Existing Pump Stations	
Location:	**Description**
1. South Main St. & Route 50	Two pumps each 5 hp, 255 gpm and a 4" force main, equipped with an emergency generator
2. Greenfield Avenue	Two pumps each 7.5 hp, 350 gpm and 8" and 6" force main, equipped with an emergency generator shared with water wells
3. White Marsh School	Two pumps, each 3 hp, 80 gpm, and a 6" force main
4. Lakeview Drive	Two pumps each 85 gpm and a 4" force main
5. Rumsey Drive	Two grinder pumps, each 125 gpm and a 4" force main
6. Marvel Drive South	Two grinder pumps
7. Marvel Drive North	Two grinder pumps, each 2 hp
8. Shelby Acres	Two grinder pumps

[*INTENTIONALLY BLANK*]

TABLE 10. TRAPPE WATER SYSTEM CAPITAL IMPROVEMENT PROJECTS		
PROJECT DESCRIPTION	**PROPOSED FISCAL YEAR**	**COMMENTS**
Construct water distribution system for Trappe East District Phases 1 and 2	2020	
Add water treatment facility and well couplet in Trappe East District	2020	
Extension of water distribution system in Trappe East District	2023-2030	
Add 250,000 gallon elevated water tower in Trappe East District	2023	
Add additional water treatment and well couplets in Trappe East District	2023-2030	Additional wells will be constructed and connected as water demands require
Add water distribution system to Whitemarsh District	2025-2030	
New well and well treatment system (aquifer – Piney Point)	2020	Cost of $1,150,000.00.

[*INTENTIONALLY BLANK*]

* * *

[*TALBOT COUNTY TOWN OF TRAPPE SEWER SERVICE AREA,*

FIGURE 23]

* * *

TRAPPE AREA SEWERAGE SYSTEM- FUTURE PLANNING

As identified within the goals of Chapter One of this Plan, growth of the County is to be encouraged and directed in concentrated centers around existing centers of population that presently have adequate or potentially adequate water and sewer services. To plan sewer service to meet the needs of future growth, the sewer service provider, the Town of Trappe, is proposing to create sanitary sewer service districts. The sewer service presently being provided in the Town of Trappe would be referred to as the Trappe Sewer District. To address the sanitary sewer needs in the growth area around the Town of Trappe, two sewer service districts are being proposed.

The proposed Trappe East Sewer District will serve parcels located in the Town on the east side of Maryland Route 50. On the northern end of Town, a second sewer service district, White Marsh Sewer District, is being proposed to serve parcels annexed into the Town of Trappe.

The delineated development area around the Town of Trappe is shown on Figure 24. The factors that influence the size of the development areas for the Town of Trappe includes the growth potential of the Town, the presence of natural growth constraints such as waterways, the Chesapeake Bay Critical Area, and the availability of water and sewer service. As land is annexed into the Town of Trappe, these areas would be designated as S-1 (means areas served or to be served by the Town of Trappe that are either existing, under construction, or have immediate priority status to be served with sewer service) after amending the Talbot County Comprehensive Water and Sewer Plan.

An Enhanced Nutrient Removal ("ENR") 0.54 MGD Membrane Bio-Reactor wastewater treatment plant ("WWTP") and collection system will be designed, constructed in phases and operated to serve the proposed Lakeside development within the Trappe East Sewer District. The proposed MBR ENR WWTP is designed such that it can be constructed in phases. This type of design will eliminate operating challenges associated with the low flows generated by early phases of development and the inability of a WWTP constructed to full build-out capacity to operate properly at initial low flows. After the initial construction, each phase of the WWTP will be sized to treat approximately 100,000 gallons per day of wastewater. Additional phases will be added to the WWTP as the capacity of the current phase approaches 80% of capacity.

Treated effluent from the WWTP will be disposed of by spray irrigation on lands within the Trappe East Sewer District. No wastewater capacity of the existing Trappe District wastewater treatment plant will be allocated to serve the Trappe East Sewer District.

Based upon the discharge permit previously issued by MDE for the Trappe East Sewer District, treated wastewater from the Trappe East WWTP must meet minimum treatment and flow limitations of BOD5 - 10 mg/l, Suspended Solids - 10 mg/l, Flow - 540,000(2) gpd (Ultimate

Permitted Flow) 37,500 gpd (Permitted Flow at this Phase), Total Nitrogen - 8 mg/l, Total Phosphorus - 3 mg/l, and Fecal Coliform 3 MPN/100ml. The Trappe East MBR ENR wastewater treatment plant will be capable of exceeding minimum nutrient effluent standards with effluent nutrient levels of Total Nitrogen - 3 mg/l, Total Phosphorus - .3 mg/l.

The information presented in Figure 24 is for planning purposes. The Sewer Districts have been defined using a blue line with various colors, shading and hatches defining the areas of existing sewer service and future sewer service areas and the Priority Funding Areas as defined by the Town of Trappe and the County and those Priority Funding Areas approved by the State. This map does not impose an obligation on Talbot County or the Town of Trappe to provide sewer and/or sanitary sewer service areas not presently being served. Prior to extending sewer service into the growth areas, the Town of Trappe would assure that the existing sewer system has capacity to serve the growth areas and the safety and adequacy of its public sewer supply system in maintained for all its users.

Financial Management of Trappe East Sewer District

The Trappe East Sewer District WWTP will be constructed by the developer of the Lakeside community and owned and operated by the Town of Trappe. All Trappe East Sewer District collection infrastructure will be planned, designed and constructed by the developer of the Lakeside community and maintained by the developer until it is dedicated to and accepted by the Town of Trappe.

Charges and Assessments

a) *Connection Charges*. The Town, by ordinance or resolution, may make a charge for each water and sewer connection. The funds derived from these charges may be used for payment of principal and interest on and debt financing, accumulating funds for growth-related capital improvements, and for the purchase of large capital equipment for the systems. The Town intends to evaluate the fee structure for these connections prior to commencement of construction of the Lakeside development.

b) *Front Foot Benefit Assessments*. As of December, 2019, the Town has no front foot benefit assessments in place. The Town may elect to assess front foot charges if there is placement of water or sewer service lines along Town or State roads which would enable the property owner to elect connection to Town water or sewer service at a future date. This charge is used to recover the cost of constructing the water and sewer lateral lines and is paid annually from the inception of service for a period of years.

c) *Usage Charges*. For the purpose of providing funds to maintain and operate its water supply and sewerage systems, and for the payment of any indebtedness, the Town may assess charges which shall consist of either a base charge for service and a variable charge based on water consumption, or a minimum ready-to-service charge. These charges are due when presented and late account accrue interest and are subject to enforcement action, including suspension of service. For the purpose of providing funds to finance the design, engineering, construction and extension

of a water supply or sewerage system, the Town is authorized to borrow money through the issuance and sale upon the full faith and credit of the Town of its general obligation bonds. However, all new infrastructure to serve the Lakeside development will be constructed at the development's expense and may be financed through bond issuance(s) by the Town that would be repaid through assessments upon the Trappe East special tax district.

SCHEDULE FS - FINANCIAL MANAGEMENT STATISTICS

Trappe East (Lakeside) Sewer District

	Buildout*
Sewer Charge Revenue	$ 2,030,000
Connection Charge Revenue	$ -
Front Foot Assessment Revenue	$ -
Other (Interest & other reimbursements)	$ -
Total Revenue	$ 2,030,000
Operation & Maintenance Expense	$ 560,000
Administrative Allocation	$ 30,000
Capital Reserve	$ 335,000
Total Expense	$ 925,000
Operating Income or (Loss)	$ 1,105,000

** Projection based on flow, revenue and operational assumptions. O&M expenses and appropriate capital reserves will be re-evaluated by the Town upon issuance of the construction permit for the Trappe East Sewer District WWTP and reflected in an updated Financial Management Plan submitted to MDE.*

* * *

[*TALBOT COUNTY TOWN OF TRAPPE LONG RANGE PLANNING SEWER SERVICE AREA, FIGURE 24*]

* * *