

TOWN OF APPOMATTOX

***PLANNING FOR THE FUTURE NEEDS OF THE SEWER
SYSTEM***

WHY DO WE NEED A SEWER SYSTEM?

- ***IMPROVES THE QUALITY OF LIFE IN THE COMMUNITY***
- ***PROVIDES A NEEDED VALUABLE RESOURCE FOR THE DIVERSIFIED DEVELOPMENT OF THE LAND AREA WITHIN THE COMMUNITY***
- ***OPENS GREATER OPPORTUNITIES FOR RESIDENTIAL, COMMERCIAL, & INDUSTRIAL DEVELOPMENT***

WHY DO WE NEED A SEWER SYSTEM?

- ***PROTECTS THE WATER QUALITY OF SURROUNDING CREEKS AND STREAMS***
- ***VITAL RESOURCE FOR THE LOCAL ECONOMY***
- ***PROTECTS GROUND WATER AQUIFERS***
- ***PROTECTS WILDLIFE HABITATS AND COMMUNITIES DOWN STREAM THROUGHOUT VIRGINIA***

WASTEWATER TREATMENT FACILITIES SERVING APPOMATTOX

- **SEQUENCING BATCH REACTOR (SBR)**
- **PRODUCES QUALITY EFFLUENT DISCHARGE**
- **CONSIDERED LATEST WASTEWATER TREATMENT TECHNOLOGY AVAILABLE**
- **HIGHLY SOPHISTICATED AND AUTOMATED SYSTEM**
- **VERY ^{Reliable} ~~RELAIBLE~~/EFFICIENT OPERATING**
- **300,000 GALLONS PER DAY TREATMENT CAPACITY**

SEQUENCHING BATCH REACTOR

- ***FACILITY BUILT IN 1998***
- ***DAILY INFLOW INTO PLANT 90,000 GALLON PER DAY***
- ***PLANT CAN BE EXPANDED TO 600,000 GALLONS PER DAY***
- ***GROWTH OF THE COMMUNITY WILL RELY HEAVILY ON THE TREATMENT CAPACITY OF THE SBR FACILITY***
- ***PROBABLE COST TO EXPAND SBR FACILITY TO 600,000 GALLONS PER DAY -- \$5,000,000***

TRICKLING FILTER FACILITY

- ***BUILT IN THE 1950'S***
- ***CAPACITY IS 170,000 GALLONS PER DAY***
- ***HAS SERVED THE TOWN WELL OVER THESE 60+ YEARS***
- ***DATED TREATMENT TECHNOLOGY & EQUIPMENT MAKES RENOVATION OF FACILITY A NON COST EFFECTIVE OPTION***
- ***COST TO REPLACE EXISTING PLANT \$4,000,000***
- ***EXTENSIVE GROWTH OF THIS AREA OF THE TOWN NOT LIKELY***

LET'S LOOK INTO THE FUTURE

- ***THE TOWN'S COMMERCIAL AND INDUSTRIAL GROWTH WILL OCCUR NORTH OF THE RAILROAD AND ALONG ROUTE 460 BYPASS***
- ***THE SBR FACILITY WILL BE THE PRIMARY RECEPTOR OF THIS GROWTH***
- ***THE TRICKLING FILTER NEEDS TO BE REPLACED***
- ***THIS FACILITY CANNOT JUSTIFY ADDITIONAL INVESTMENT OF RATE PAYER DOLLARS FOR RENOVATION***
- ***OPERATION & MAINTENANCE COST WILL ONLY INCREASE OVER TIME***

LET'S LOOK INTO THE FUTURE

- ***THE EXISTING TRICKLING FILTER FACILITY SHOULD BE CLOSED AND REPLACED WITH A PUMP STATION***
- ***THE SBR SHOULD BE EXPANDED TO ACCOMMODATE FUTURE GROWTH AND BE THE MUCH NEEDED REPLACEMENT FOR THE TRICKLING FILTER FACILITY***
- ***THE SBR SERVICE AREA SHOULD BE EVALUATED AND EVENTUALLY EXPANDED TO PROMOTE THE POTENTIAL FOR EVEN GREATER GROWTH OF THE SYSTEM***

WHO PAYS FOR WASTEWATER COLLECTION & TREATMENT?

- ***THE SEWER FUND IS TOTALLY FUNDED BY THE USERS OF THE SYSTEM***
- ***NO TAX DOLLARS NOR ANY FINANCIAL RESOURCES FROM THE WATER CUSTOMERS ARE USED TO FUND THE SEWER FUND***
- ***THE FEES PAID BY CUSTOMERS OF THE SEWER SYSTEM PAY FOR (1)ANNUAL MAINTENANCE & OPERATING COSTS OF THE SYSTEM, (2)CURRENT DEBT, AND (3)FUTURE IMPROVEMENTS TO THE SYSTEM***

(1) ANNUAL OPERATING & MAINTENANCE COSTS

- **SEWER LINE REPAIRS (MATERIALS & LABOR)**
- **CHEMICALS USED IN TREATMENT PROCESS**
- **OPERATING COSTS OF THE TWO PLANTS**
- **LICENSED & TRAINED OPERATORS TO RUN THE PLANTS**
- **OPERATING COSTS FOR 8 SEWER PUMP STATIONS**
- **SALARIES & EQUIPMENT COSTS FOR THE OPERATIONS AND MAINTENANCE OF THE COLLECTION SYSTEM**

(2) EXISTING DEBT

- ***COST OF IMPROVEMENTS TO THE COLLECTION SYSTEM (REPLACEMENT OR EXPANSION OF UNDERGROUND LINES)***
- ***COST TO BUILD THE CURRENT SBR FACILITY***
- ***MAJOR EQUIPMENT REPLACEMENTS OUTSIDE OF THE ANNUAL OPERATING & MAINTENANCE COSTS (TRUCKS, SEWER JETTERS, CONSTRUCTION EQUIPMENT, ETC.)***

(3) FUTURE IMPROVEMENTS TO THE SEWER COLLECTION SYSTEM

- ***REPLACE THE TRICKLING FILTER FACILITY***
- ***REPLACE OR REBUILD ADDITIONAL SEWER PUMP STATIONS***
- ***EXPAND COLLECTION SYSTEM (LINES IN GROUND)***
- ***REPLACE DETERIOATED SECTIONS OF COLLECTION SYSTEM (LINES IN GROUND)***
- ***MAJOR CAPITAL EQUIPMENT REPLACEMENT FOR OPERATION & MAINTENANCE OF THE SEWER SYSTEM***

HOW ARE SEWER RATES CALCULATED?

- ***SEWER RATE MADE UP OF TWO COMPONENTS***
- ***BASE RATE – COST TO A CUSTOMER WHETHER ONE GALLON OF WASTEWATER IS TREATED OR 100,000 GALLONS OF WASTEWATER***
- ***COST PER 1000 GALLONS – COST OF EQUIPMENT, PERSONNEL, CHEMICALS, DEBT, ELECTRICITY, ETC. REQUIRED TO TREAT 1000 GALLONS***
- ***THESE TWO COMPONENTS ARE ADDED TOGETHER THAT CREATE THE FINAL BILL***

WHAT IS THE FUTURE OF SEWER RATES?

- ***CURRENT COST – BASE RATE \$9.10 + \$8.25 PER 1000 GALLONS***
- ***PROPOSED RATES – BASE RATE \$29.60 UP TO 2000 GALLONS***
- ***ALL OVER 2000 GALLONS 10.25 PER 1000 GALLONS***
- ***RATES WILL INCREASE \$2.00 PER 1000 GALLONS EACH YEAR FOR THE NEXT 3 YEARS***

TYPICAL EXAMPLE TWO PERSON HOUSEHOLD

- ***TREATED WASTEWATER – 2000 GALLONS PER MONTH***
- ***OLD RATES \$9.10 + 2 x \$8.25/1000 GALLONS = \$25.60***
- ***PROPOSED BASE RATE OF \$29.60 FOR 2000 GALLONS – ADDITIONAL CHARGE (\$10.25) FOR EACH 1000 GALLONS OVER 2000***

ADDITIONAL PROPOSAL – WATER RATE ADJUSTMENT

- ***TYPICAL TWO PERSON HOUSEHOLD***
- ***CURRENT RATE - 2000 GALLONS PER MONTH -
\$4.00 FLAT FEE + 2 x \$5.80/1000 GALLONS = \$15.60***
- ***PROPOSED RATE - 2000 GALLONS PER MONTH --
\$10.00 THEN \$5.80 PER 1000 GALLONS***

WHY IS THIS NECESSARY?

- ***SEWER FUND IS NOT SUPPORTING ITSELF***
- ***SEWER FUND HAS OPERATED WITH A DEFICIT FOR THE LAST 4 YEARS***
- ***IT WILL REQUIRE AT LEAST TWO YEARS OF RATE INCREASES BEFORE THE FUND WILL BREAK EVEN***
- ***PLANNING MUST BEGIN TO REPLACE TFF AND EXPAND SBR FOR THE FUTURE***
- ***FINAL IMPLEMENTATION OF KNOWN IMPROVEMENTS TO SEWER SYSTEM COULD TAKE 4 TO 6 YEARS***
- ***COST OF DELAYED ACTION WILL RESULT IN INCREASED COSTS IN THE FUTURE***

WHY NOW?

- **DEFINING THE FUTURE HAS ALWAYS BEEN THE RESPONSIBILITY OF THOSE IN THE PRESENT**
- **THE USE OF TAX DOLLARS OR TRANSFERS FROM THE WATER FUND WILL BE REQUIRED TO BALANCE THE SEWER FUND BUDGET IF THIS ACTION IS NOT TAKEN NOW**
- **POSITIVE ACTION TO ADDRESS THE DEFICIT IN THE SEWER FUND HAS BEEN NOTED BY THE AUDITORS OF THE TOWN'S FINANCIAL RECORDS FOR THE LAST 2 YEARS**

TOWN OF APPOMATTOX

***THE FUTURE OF WASTEWATER
COLLECTION***

QUESTIONS