



BCRSD

Boone County Regional Sewer District
Clean water for your future

AREA WIDE MANAGEMENT PLAN & CAPITAL IMPROVEMENTS PLAN

LONG RANGE PLANNING FOR BCRSD



JESSE STEPHENS, P.E.

EXECUTIVE DIRECTOR



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DANIEL CUNNINGHAM
DIRECTOR OF OPERATIONS

DREW PERKINS
DIRECTOR OF ADMINISTRATION

ELKE BOYD
ENGINEERING MANAGER



MCCLURE ENGINEERING

ELLEN WOLTJEN, P.E.

COBY CROWL, P.E.

DERICK ANDERSON, P.E.



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FORMAT:

1) PRESENTATION BY BCRSD

2) PUBLIC HEARING –

**3) COMMENTERS PHYSICALLY AT THE MEETING GO FIRST –
VIRTUAL ATTENDEES WILL GO SECOND**

A) APPROACH MICROPHONE

B) STATE AND WRITE DOWN YOUR NAME AND ADDRESS

C) 3 MINUTE TIME LIMIT TO MAKE STATEMENTS

**D) STAFF MAY CHOOSE TO ANSWER ANY QUESTIONS THAT
ARISE FROM A STATEMENT OR MOVE ON TO THE NEXT
COMMENTER**



What IS BCRSD'S Mission?

OUR MISSION IS TO PROVIDE CURRENT AND FUTURE CUSTOMERS WITH COST EFFECTIVE, RELIABLE SANITARY SEWER SERVICE BY COLLECTING AND TREATING WASTEWATER, AND TO PROTECT PUBLIC HEALTH AND THE ENVIRONMENT IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL PERMIT REQUIREMENTS.



What does BCRSD do?

- WE EVALUATE NEEDS AND DETERMINE WASTEWATER COLLECTION AND TREATMENT SOLUTIONS THAT ARE ECONOMICALLY FEASIBLE TO IMPLEMENT
- EVALUATE NEW TECHNOLOGIES AND BEST PRACTICES FOR WASTEWATER TREATMENT
- COLLABORATE WITH DEVELOPERS TO ASSIST IN REGULATORY COMPLIANCE FOR WASTEWATER
- HELP KEEP BOONE COUNTY STREAMS FISHABLE, SWIMMABLE, AND HEALTHY



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How do we do it?

- OPERATES 22 WASTEWATER TREATMENT PLANTS & THEIR ASSOCIATED SEWER COLLECTION SYSTEMS.
- MAINTAINS 95 MILES OF GRAVITY SEWER MAIN AND 44 MILES OF PRESSURE SEWER MAIN.
- HAS A STAFF OF 9 TREATMENT PLANT AND EQUIPMENT OPERATORS.
- WWTP FACILITY SIZES RANGE FROM 1,850 GALLONS PER DAY TO 460,000 GALLONS PER DAY.
- PROVIDES CONTRACT OPERATIONS FOR COMMUNITIES SUCH AS HARTSBURG, AND EMERGENCY OPERATIONS TO OTHER COMMUNITIES.
- OWNS AND OPERATES MUNICIPAL SYSTEMS SUCH AS THE ROCHEPORT SYSTEM.



How do we do it?

- CONDUCTS PLAN REVIEW AND ENSURES REGULATORY COMPLIANCE FOR NEW DEVELOPMENT IN UNINCORPORATED BOONE COUNTY.
- COORDINATES WITH DNR AND BOONE COUNTY RESOURCE MANAGEMENT FOR WASTEWATER COMPLIANCE LIMITS.
- COORDINATES BILLING FOR APPROXIMATELY 7,800 “UNITS.”
- HAS AN ADMINISTRATIVE STAFF OF 4 PEOPLE FOR ACCOUNTING AND CUSTOMER RELATIONS.
- HAS A STAFF OF TWO 2 PEOPLE FOR ENGINEERING AND PROJECT DEVELOPMENT.



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What does BCRSD do?

What We Do



WE CHANGE THIS...



INTO THIS!



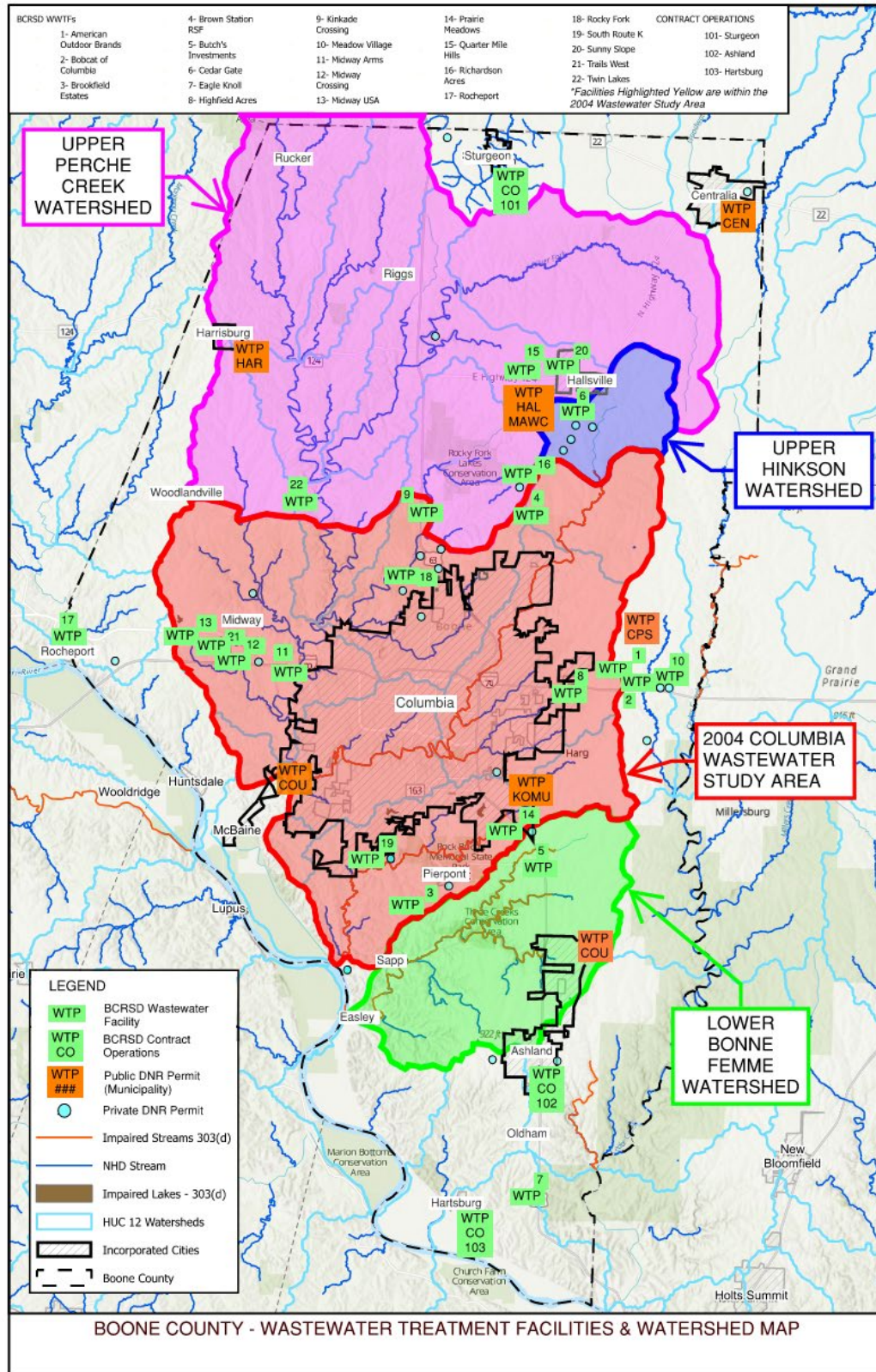
What is the Area Wide Management Plan?

- FRAMEWORK TO CAPITALIZE ON BCRSD'S PROFESSIONAL SERVICES AND PLANNING CAPABILITIES ACROSS BOONE COUNTY AND BEYOND.
- IT UPDATES A MASTER PLAN THAT WAS DEVELOPED IN 2013.
- IT ADDRESSES HOW CURRENT DNR-PERMITTED WASTEWATER TREATMENT FACILITIES ARE PLANNED FOR, UPGRADED, AND REGIONALIZED.
- REFINES BCRSD'S TIER 2 AUTHORITY IN BOONE COUNTY IN COMPLIANCE WITH DNR'S AMENDED RULES FOR TIER 2 AUTHORITIES.
- HELPS BOONE COUNTY COMMUNICATE WITH PRIVATE SYSTEM OWNERS AND LOOK FOR OPTIONS TO REGIONALIZE AND OPTIMIZE FAILING SYSTEMS.
- DEVELOPS A WAIVER PROCESS FOR HOW BCRSD, DNR, AND PRIVATE FACILITIES WORK TOGETHER, COMMUNICATE, AND PLAN THE FUTURE.



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WHERE ARE THE
DNR PERMITTED
WWTP'S IN
BOONE
COUNTY?





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BCRSD WWTP'S

- | | |
|----------------------------|------------------------|
| 1. AMERICAN OUTDOOR BRANDS | 12. MIDWAY CROSSING |
| 2. BOBCAT OF COLUMBIA | 13. MIDWAY USA |
| 3. BROOKFIELD ESTATES | 14. PRAIRIE MEADOWS |
| 4. BROWN STATION RSF | 15. QUARTER MILE HILLS |
| 5. BUTCH'S INVESTMENTS | 16. RICHARDSON ACRES |
| 6. CEDAR GATE | 17. ROCHEPORT |
| 7. EAGLE KNOLL | 18. ROCKY FORK |
| 8. HIGHFIELD ACRES | 19. SOUTH ROUTE K |
| 9. KINKADE CROSSING | 20. SUNNY SLOPE |
| 10. MEADOW VILLAGE | 21. TRAILS WEST |
| 11. MIDWAY ARMS | 22. TWIN LAKES |

THERE WERE 37 BCRSD FACILITIES IN 2013



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PUBLIC MUNICIPAL WWTP'S

1. STURGEON
2. HARRISBURG
3. CENTRALIA
4. HALLSVILLE - MAWC
5. COLUMBIA PUBLIC SCHOOLS – TWO MILE PRAIRIE
6. COLUMBIA
7. KOMU-TV
8. COLUMBIA AIRPORT
9. ASHLAND
10. HARTSBURG



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PRIVATE DNR PERMITTED WWTP'S

- | | |
|-----------------------------------|----------------------------------|
| 1. ADVENTURES IN LEARNING DAYCARE | 14. LES BOURGEOIS WINERY |
| 2. ASHLAND CHRISTIAN CHURCH | 15. LIBERTY BAPTIST CHURCH |
| 3. CARLOS ACRES | 16. LITTLE CITY MOBILE HOME PARK |
| 4. COOPER'S LANDING | 17. MATHIS MOBILE HOME PARK |
| 5. CORNELL'S FRIENDLY ACRES | 18. MIDWAY AUTO/TRUCK PLAZA |
| 6. CROWLEY SUBDIVISION | 19. OAK RIDGE TRAILER COURT |
| 7. EDELWEISS | 20. PAGE PROPERTY |
| 8. GILBANE REBUILDERS | 21. PHENORA NORTH |
| 9. GIRL SCOUTS – SILVER MEADOWS | 22. PIERPONT STORE |
| 10. HALLSVILLE UNITED METHODIST | 23. SALLEE POST SERVICE |
| 11. HILLCREST RESIDENTIAL | 24. SMITHVIEW DEVELOPMENT |
| 12. JUNCTION OUTPOST | 25. SOUTHRIDGE MOBILE HOME |
| 13. LAKE CHATEAU | 26. WOODSTOCK MOBILE HOME PARK |

THERE WERE 57 PRIVATE FACILITIES IN 2013



What is our Capital Improvements Plan?



What is the Capital Improvements Plan?

- PLAN FOR ADDRESSING PERMIT COMPLIANCE SCHEDULES.
- PLAN FOR ADDRESSING TREATMENT FACILITY UPGRADES.
- PLAN FOR CAPACITY EXPANSION IMPROVEMENTS.
- PLAN FOR COLLECTION SYSTEM IMPROVEMENTS.
- PLAN FOR OPERATIONAL ENHANCEMENTS.

THE GOAL IS TO INVEST IN SYSTEM IMPROVEMENTS THAT REDUCE OPERATION COSTS WHILE INCREASING ENVIRONMENTAL STEWARDSHIP.



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\$1 MILLION SRF GRANT

COMPLIANCE SCHEDULES



1. BROWN STATION	\$4.1 MILLION (\$2 MILLION ALTERNATIVE)
2. RICHARDSON ACRES	\$2 MILLION
3. SOUTH ROUTE K	\$21.6 MILLION
4. TRAILS WEST	\$1.7 MILLION
5. TWIN LAKES	\$2.3 MILLION
6. CEDAR GATE	\$3.5 MILLION
7. QUARTER MILE HILLS	\$1.7 MILLION
8. SUNNYSLOPE	\$1.1 MILLION

\$38 MILLION OVER 20 YEARS



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TREATMENT UPGRADES

1. KINKADE CROSSING	\$0.5 MILLION
2. MEADOW VILLAGE	\$0.3 MILLION
3. MIDWAY CROSSING	\$0.2 MILLION
4. PRAIRIE MEADOWS	\$0.9 MILLION
5. ROCHEPORT	\$0.1 MILLION
6. ROCKY FORK	\$1.5 MILLION
7. AMERICAN OUTDOOR BRANDS	\$0.1 MILLION
8. EAGLE KNOLL	\$0.3 MILLION
9. MIDWAY USA	\$0.1 MILLION

\$4 MILLION OVER 10 YEARS



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COLLECTION SYSTEM UPGRADES

1. CEDAR LAKE SIPHON	\$0.9 MILLION
2. HILL CREEK PRESSURE SEWER	\$0.2 MILLION
3. WOODLANDS PRESSURE SEWER	\$0.2 MILLION
4. NEW TOWN PUMP STATION	\$0.2 MILLION
5. ROLLINGWOOD AERIAL CROSSING	\$0.4 MILLION
6. FAIRWAY WEST PUMP STATION	\$1.4 MILLION
7. CLEARVIEW NORTH PUMP STATION	\$0.4 MILLION
8. VARIOUS PUMP STATION UPGRADES	\$0.2 MILLION
9. WATERS EDGE	\$2.2 MILLION

\$6 MILLION OVER 20 YEARS



OPERATIONAL ENHANCEMENTS

1. PORTABLE SLUDGE PRESS	\$1.5 MILLION
2. FLOW METERING	\$0.1 MILLION
3. COLLECTION SYSTEM EVALUATIONS	\$3.6 MILLION
4. COLLECTION SYSTEM REHAB	\$17.8 MILLION

\$23 MILLION OVER 20 YEARS

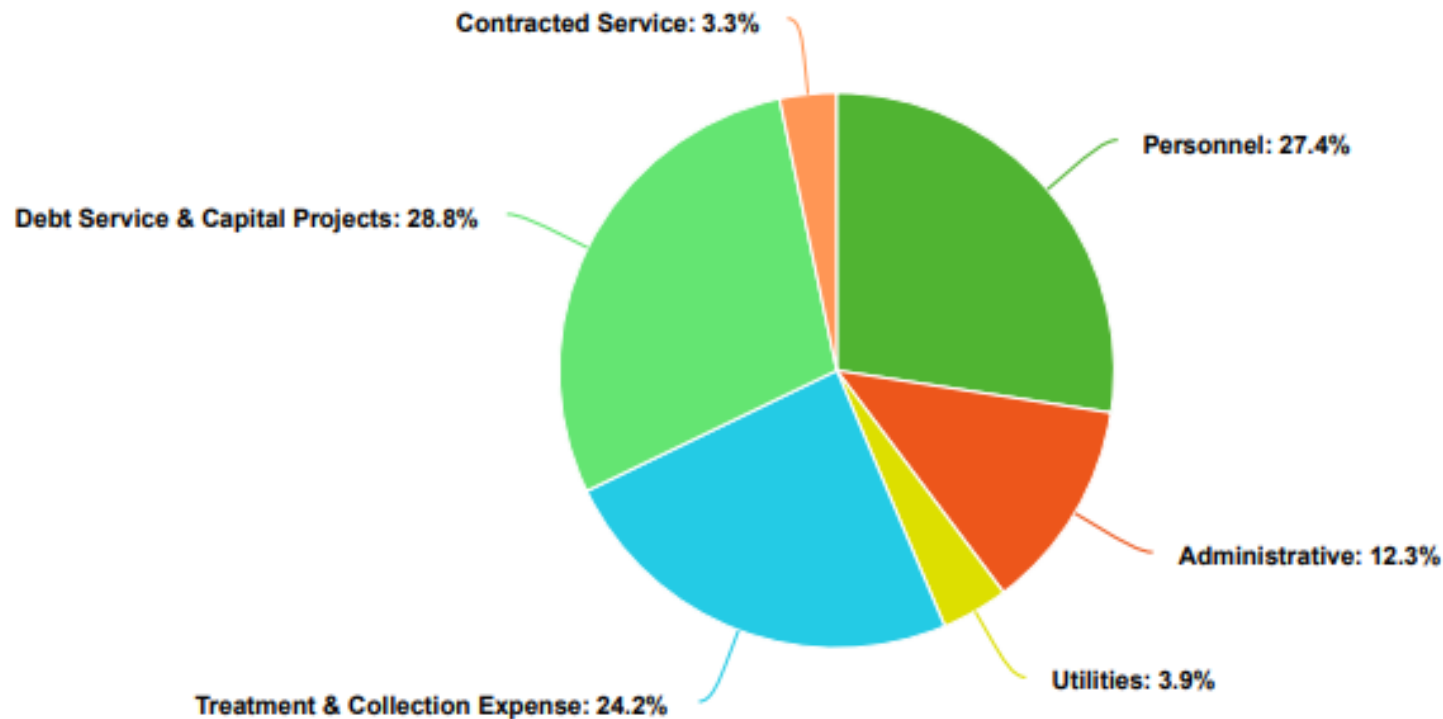
**GRAND TOTAL: \$71 MILLION
OVER 20 YEARS**



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BCRSD BUDGET/EXPENSES



■ Personnel ■ Administrative ■ Utilities ■ Treatment & Collection Expense ■ Debt Service & Capital Projects
■ Contracted Service



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HOW DO WE PAY FOR ALL OF THIS?

1. GRANTS FROM DNR'S STATE REVOLVING FUND
2. LOW INTEREST LOANS FROM DNR'S STATE REVOLVING FUND
-(30% OF THE MARKET INTEREST RATE)
3. CDBG – COMMUNITY DEVELOPMENT BLOCK GRANTS
4. USDA RURAL DEVELOPMENT WASTEWATER GRANTS AND LOANS
5. ARPA, ARRA, AND OTHER FEDERAL SPECIALTY GRANT PROGRAMS
6. NEW DEVELOPMENT CONNECTION FEES
7. DEVELOPER BUILT AND DONATED INFRASTRUCTURE
8. CUSTOMER BASE GROWTH
9. SPECIAL CONNECTION FEES – (GREEN LINE FEES)
10. STRATEGIC PARTNERSHIPS AND COST REDUCTION STRATEGIES
11. COST SAVINGS FROM OPERATIONAL ENHANCEMENTS
12. IMPROVEMENT DISTRICTS (NID'S AND CID'S)
13. RATE INCREASES



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COST EFFECTIVENESS

1. EACH \$1,000,000 IN NEW DEBT SERVICE = \$0.63 PER MONTH TO EACH RATE PAYER WHEN USING DNR SRF LOANS (20 YEAR TERM)
2. EACH \$1,000,000 IN NEW DEBT SERVICE = \$0.95 PER MONTH TO EACH RATE PAYER WHEN USING MARKET RATE LOANS AND BONDS (20 YEAR TERM)
3. GRANTS OBTAINED REDUCE PRINCIPAL COSTS OF THE PLAN
4. STRATEGIC PARTNERSHIPS REDUCE PRINCIPAL COSTS OF THE PLAN
5. GOOD ENGINEERING STRATEGIES REDUCE PRINCIPAL COSTS OF PLAN
6. DEVELOPER DONATED INFRASTRUCTURE INCREASES OUR CUSTOMER BASE, AND SPREADS OUR COST TO MORE CUSTOMERS
7. CREATIVE FINANCING STRATEGIES (CID'S, GREEN LINE FEES, CONNECTION FEES) SHIFT THE FINANCIAL BURDEN FROM EXISTING RATE PAYERS
8. OPERATION ENHANCEMENTS OFFSET DEBT SERVICE BY REDUCING OPERATING COSTS.

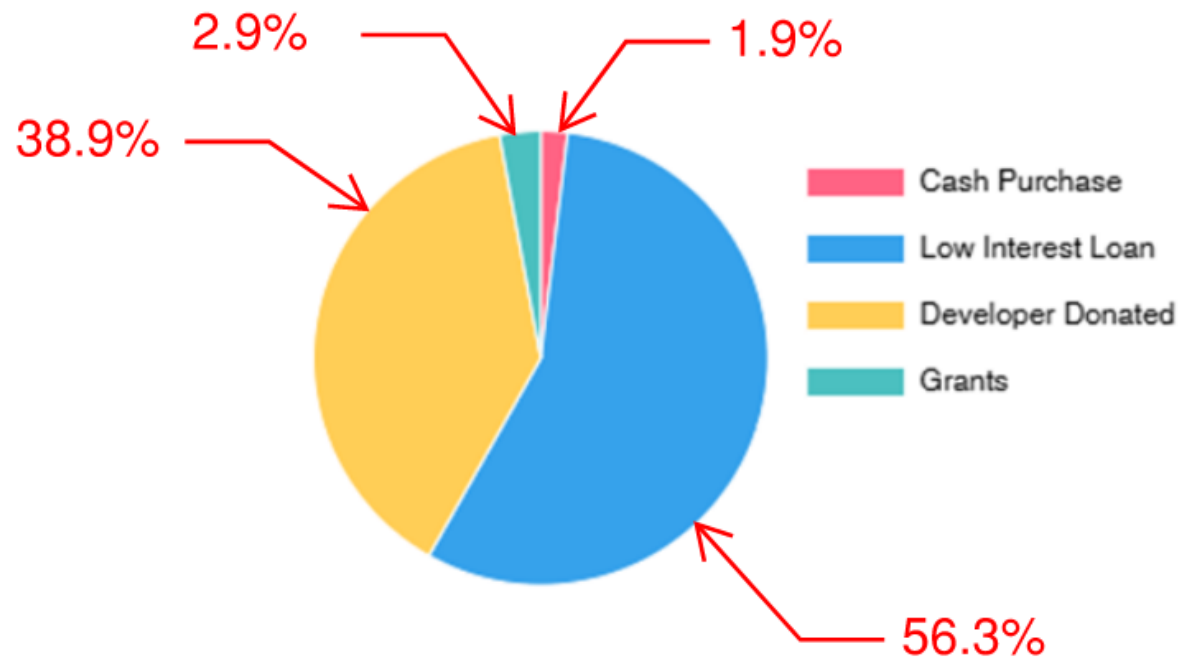


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WHAT WAS BCRSD'S HISTORICAL STRATEGY?

BCRSD SEWER INFRASTRUCTURE



**APPROXIMATELY \$50
MILLION
IN INFRASTRUCTURE
- PAST 20 YEARS**



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Impact to User Rates

SOUTH ROUTE K - NEW TREATMENT PLANT OPTION*

YEAR	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
AVERAGE RESIDENTIAL RATE	\$ 60.32	61.83	\$ 65.85	\$ 70.13	\$ 74.33	\$ 76.19	\$ 78.10	\$ 79.66	\$ 81.25	\$ 82.88
Y/Y RATE INCREASE		2.50%	6.50%	6.50%	6.00%	2.50%	2.50%	2.00%	2.00%	2.00%
DSCR	1.92	1.69	1.65	1.19	1.10	1.14	1.14	1.19	1.10	1.11
DAYS OF CASH	379	345	337	253	220	207	190	182	156	143

*assumes no additional grant money or private investment

- WOULD REQUIRE AN APPROXIMATE \$40,000,000 BOND ISSUE
- COULD ACCOMPLISH APPROXIMATELY \$47,000,000 OF ITEMS ON THE CIP IN 10 YEARS (APPROXIMATELY 65%)
- DOES NOT ASSUME ANY GRANTS, PRIVATE INVESTMENT, OR SPECIAL CONNECTION FEES TO ASSIST DEBT SERVICE



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Impact to User Rates

SOUTH ROUTE K - REGIONALIZATION OPTION*

YEAR	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
AVERAGE RESIDENTIAL RATE	\$ 60.32	\$ 61.83	\$ 63.37	\$ 64.96	\$ 66.58	\$ 68.25	\$ 69.95	\$ 71.70	\$ 73.49	\$ 75.33
Y/Y RATE INCREASE		2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%
DSCR	1.87	1.65	1.38	1.17	1.10	1.15	1.13	1.20	1.10	1.10
DAYS OF CASH	372	342	312	251	227	212	191	183	155	136

*assumes no additional grant money or private investment

- WOULD REQUIRE AN APPROXIMATE \$20,000,000 BOND ISSUE
- COULD ACCOMPLISH APPROXIMATELY \$30,000,000 OF ITEMS ON THE CIP IN 10 YEARS (APPROXIMATELY 55% OF AMENDED SCOPE)
- DOES NOT ASSUME ANY GRANTS, PRIVATE INVESTMENT, OR SPECIAL CONNECTION FEES TO ASSIST DEBT SERVICE



Next Steps?

- BOARD OF TRUSTEES TENTATIVE APPROVAL OF AREA WIDE MANAGEMENT PLAN CONTINGENT UPON CLEAN WATER COMMISSION APPROVAL
- CLEAN WATER COMMISSION MEETING ON JULY 15TH 2026 AT DNR OFFICE BUILDING IN JEFFERSON CITY – 10:00 A.M.
- FINALIZE USER RATE STUDY
- DEVELOP BOND PLAN AND COORDINATE BOND ISSUE TIMING.



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[Area-Wide Management Plan \(AWMP\) + Capital Improvement Plan \(CIP\)](#)

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[Capital Improvement Plan](#)

The Boone County Regional Sewer District Area-Wide Management Plan (AWMP) serves as a comprehensive framework for managing wastewater infrastructure across Boone County. As an update to BCRSD's 2013 Tier 2 Plan approved by the Missouri Clean Water Commission, this AWMP reflects more than a decade of progress in regionalizing and consolidating public and private wastewater systems into more efficient regional facilities operated by BCRSD, the City of Columbia, and other municipal partners. This move toward regionalization is a key strategy for protecting the environment, improving public health, and ensuring reliable and affordable service for customers.

The AWMP will be presented to the Missouri Clean Water Commission to re-affirm BCRSD and the City of Columbia's joint status as Level 2 Continuing Authorities in Boone County. Through this authority, BCRSD collaborates with the Missouri Department of Natural Resources (MDNR), the City of Columbia, and other municipal partners to enforce standards for wastewater services and oversee treatment facility operations. The AWMP evaluates existing public and private wastewater treatment facilities in Boone County and provides recommendations, including connection to regional infrastructure where feasible.



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Questions or Comments?

We welcome your feedback and inquiries. If you have any questions about the Area-Wide Management Plan, Capital Improvements Plan, or how these efforts may impact your area, please don't hesitate to reach out.

You can use the form below to submit your question or comment, and a member of our team will get back to you promptly.

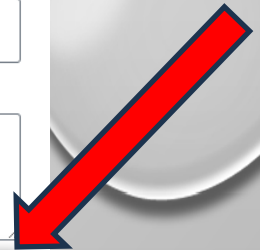
Prefer to speak with someone directly? Feel free to call our office at **573-443-2774** during regular business hours.

Name

Email

Message

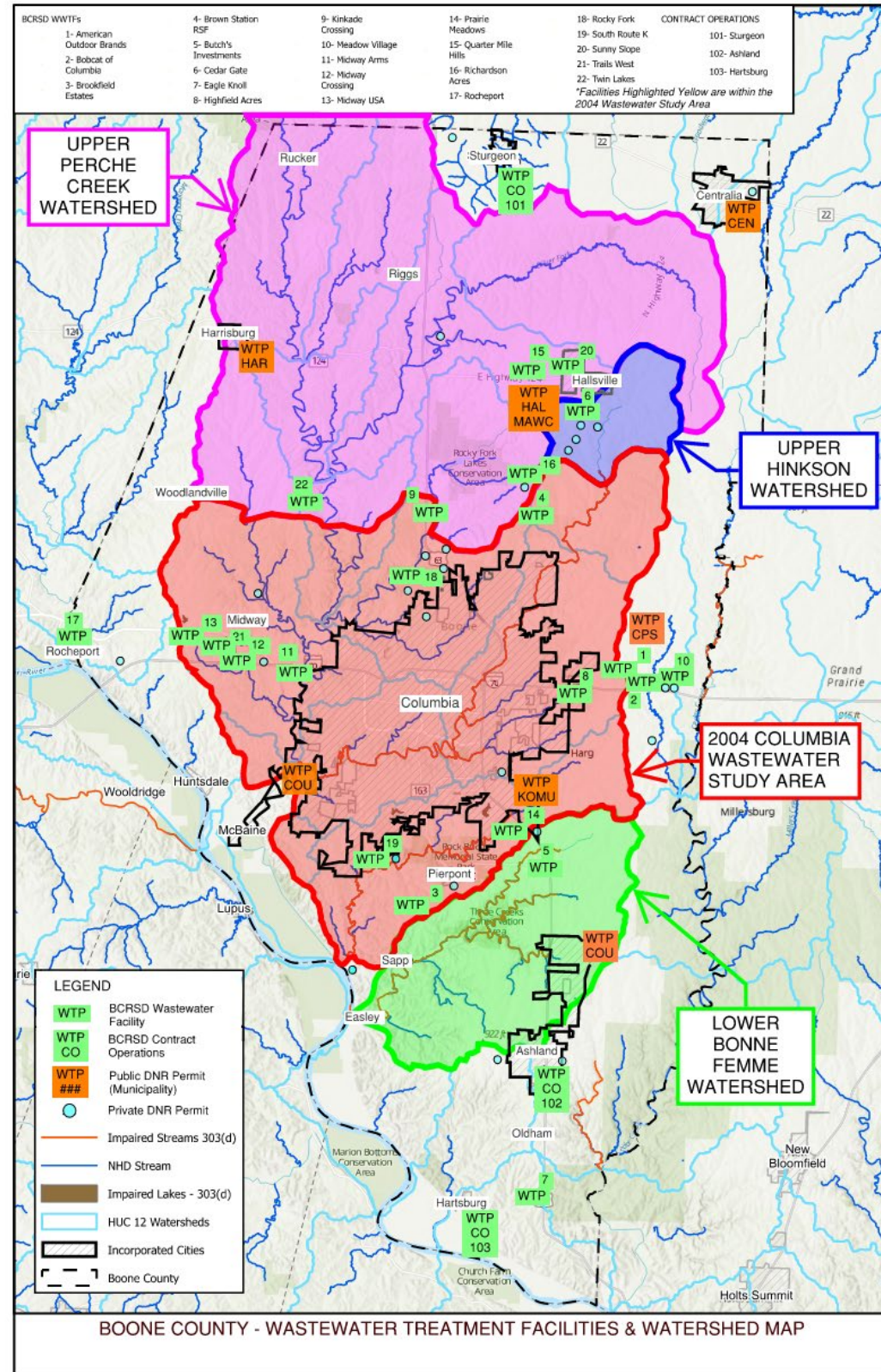
Send





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PUBLIC HEARING





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