

McCLURE-STRATTON DECENTRALIZED SEWER PROJECT

DICKENSON COUNTY PUBLIC SERVICE AUTHORITY
CUMBERLAND PLATEAU Planning District

Project Background

There are numerous straight pipe discharges into the McClure River from these two communities. This pollution is partially to blame for the McClure River being impaired. The McClure Kiwanis Club has been sampling the river for the past couple of years.

Proposed Facilities

The proposed facilities include approximately 15,000 linear feet of 3-inch, 110 watertight septic tanks, and three small treatment systems. The treatment unit would be the AdvanTex AX100 system, similar to the system used at Imboden. The treatment systems would treat the wastewater to advanced secondary standards and dispose of it into the soil using conventional trenches or drip disposal. One possible disposal area would be at the old tennis courts; a second disposal site would be near the abandoned Clinchfield Coal Company central warehouse; and a third area would be in the Stratton area. Each system would be monitored and controlled remotely to minimize labor costs.

Project Costs

The preliminary probable project cost and annual operation and maintenance costs associated with the McClure - Stratton Decentralized Sewer Project are \$1,229,900 and \$24,420, respectively. These costs result in an approximate present worth of \$13,680 per equivalent connection.

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PRELIMINARY PROBABLE PROJECT COST

Construction Cost

15,000	L.F.	3-inch Sewer Line	\$10	\$150,000
55	EA.	STEP System	\$3,500	\$192,500
55	EA.	STEG System	\$2,000	\$110,000
12	EA.	Road Crossing	\$1,500	\$18,000
1	EA.	River Crossing	\$12,000	\$12,000
22,000	GAL.	Treatment System	\$10	\$220,000
22,000	GAL.	Disposal System	\$8	\$176,000
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Total Construction Cost				\$878,500

Related Cost

40 %	Related Cost	\$351,400
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TOTAL PROJECT COST \$1,229,900

OPERATION AND MAINTENANCE (O&M) COST

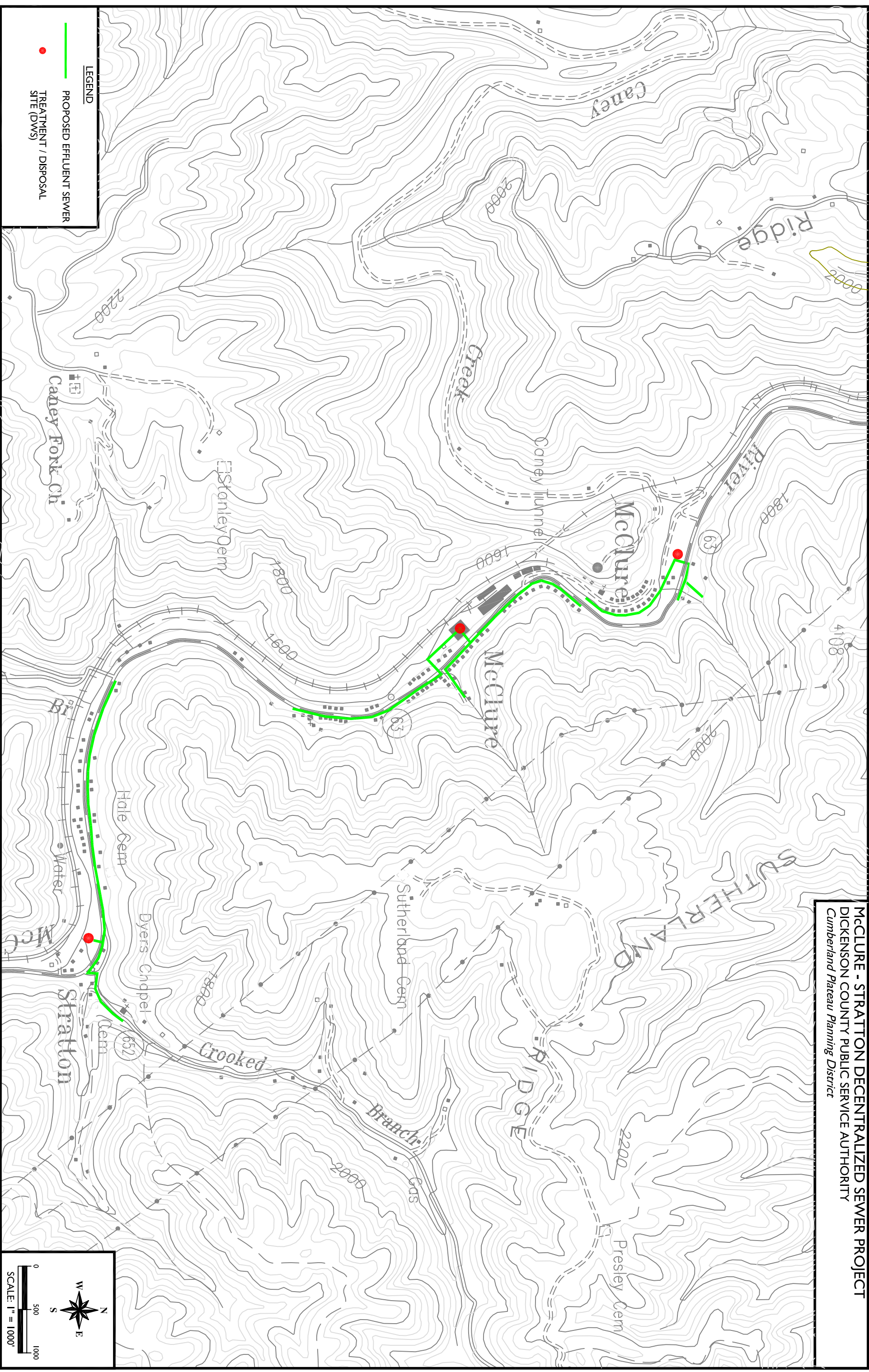
<u>CONN.</u>	<u>UNIT</u>	<u>DESCRIPTION</u>	<u>MONTHLY</u>	<u>ANNUALLY</u>
110	EA.	Routine Maint. & Monitoring	\$10.00	\$13,200
110	EA.	Pump Septic Tanks	\$2.50	\$3,300
110	EA.	Power & Telephone	\$3.50	\$4,620
110	EA.	Sampling	\$1.00	\$1,320
110	EA.	Breakdown Maintenance	\$1.50	\$1,980
TOTAL O&M COST			<hr/>	<hr/>
			\$18.50	\$24,420

PRESENT WORTH OF ANNUAL O&M COST (30 YEARS, 8%) \$274,915

TOTAL PROJECT PRESENT WORTH \$1,504,815

PRESENT WORTH PER CONNECTION (110 CONNECTIONS) \$13,680

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LEGEND
PROPOSED EFFLUENT SEWER
TREATMENT / DISPOSAL SITE (DWS)

0 500 1000
SCALE: 1" = 1000'
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