

GENERAL NEWS

# Efforts to stop water infiltration in final phase

By John Shephard  
The Carlisle Mercury Staff

**CARLISLE**—An effort to halt rainwater infiltration into sewer lines is entering its final phase, City Supervisor Gayle Vanlandingham said.

Repairs designed to meet federal and state EPA standards and to ease rain and ground water inflow which is taxing the new sewer plant have been ongoing through July 27, Vanlandingham said.

The report gave a summary of leaks revealed by smoke tests and a repair schedule Vanlandingham prepared for the sewer line.

Problems ranged from old sewer connections off trailer foundations left open

and unreported to the city to broken pipe and root systems opening gaps in pipe joints allowing groundwater into the system, Vanlandingham said.

The first step in repairs involved a physical survey of all branching lines leading off of the 12 inch main line connection to the sewer plant. Smoke tests were run, a test in which smoke is forced through pipe to indicate leaks.

Spots where smoke escaped were noted and plotted on an initial map, he said. Major repairs were immediately addressed and work has been completed on them, Vanlandingham said.

Results of the tests indicate the worst water infiltration areas involved the sewer line

along Spycamore Street. "The sewer line along Spycamore was installed in 1950, but was not replaced and upgraded with other lines laid in 1965, where they used a better grade of pipe. The Spycamore line uses a different grade of pipe with different taps. Possibly the joints, sealed with tar and cement, have failed and are allowing a considerable amount of groundwater into the sewer line."

"Since the manholes also tend to overflow in that area, I assume there may be some roots piercing through the joints causing blockage to the normal flow," Vanlandingham said.

Vanlandingham estimates most water infiltration comes from the Spycamore line. The addition of the eight inch sewer line serving Green Valley has increased sewer flow considerably through the line, he said.

Cost considerations and scheduling have prevented the line from being replaced completely, but some leaks have been repaired, he said.

Final recommendations vanlandingham outlines in his 1990 report is for the line to be flushed with a high pressure hose and a T.V. inspection done to pinpoint exact areas where infiltration occurs.

"Smoke testing is good for detecting many leaks, but they cannot tell what type of opening is involved. There are several reasons why leaks may occur. Workers have raised most manholes which were set low, allowing surface water to enter the sewer lines and they have also located downspouts and basement drains off manholes which were hooked directly into the sewer line and unhooked them," Vanlandingham said.

Downspouts and basement drains were originally hooked into the sewer lines many years ago, he said, because that was simply the way they were handled then, Vanlandingham said.

Workers have spotted and repaired many places where downspouts are still hooked into the system, but if people suspect their gutter lines or the sewer system they are asked to call the Carlisle City Office and have them checked.

The Dorseyville and Walnut street bridge areas are also responsible for a great deal of water infiltration, he said.

Heavy rainfall has revealed some water backups through manholes in the area, he said.

"Leakage and infiltration have many different causes, but city workers have reported no serious or major areas of leakage exist, he said.

Most of the water inflow that has caused problems with the new plant are a result of abnormal rain conditions in the spring, he said.

During the last and heaviest downpour last June, Sewer Superintendent Gene Kelley said the sewer plant was being taxed with over a million gallons of water, most of which is groundwater, entering the new oxidation tank sewer system.

This high inflow of water taxes the system, he said, because of the general design.

"In normal conditions, there is no problem with sewer inflow and processing," Kelley said. "But the three inches of rainfall we had in one evening caused a great deal of flow coming into the plant. That much inflow causes problems."

By tests, in which a fluorescent dye is introduced into

sewer lines, do reveal leaks but the problem of identifying the type of leaks are completion. "Right now we are working to solve remaining problems in any way we can while trying to keep costs down," Vanlandingham said.

New technology, however, may help the city in solve the problem, Vanlandingham said.

T.V. inspection, in which a special camera is sent through pipes giving workers a detailed look at every inch of pipe and pinpointing exactly where leaks are and of what type, will be of immense help, he said. But video inspection is expensive, Vanlandingham said.

Approximately 5,223 feet of sewer pipe has been designated for T.V. inspection, the first such inspection Carlisle has ever had, Vanlandingham said.

In addition, 824 feet will be re-smoke tested and 11,600 feet needs to be rodded and flushed of debris which may be causing line blockage.

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TRAILER RECORD

- Nicholas District Court Hon. Don Wells July 23, 1990
- John Douglas Hatton, dob 7/21/64, Show Cause: 2nd; 1st; Cause, extended to 9-17-90, 11 a.m.
- Byron E. McCarty, dob 6/6/69; Operating on Suspended; 2nd; Cause, extended to 7-16-90, 11 a.m.
- Susan C. Lay, dob 3/1/91; Speeding; Entered New Cause; Trial date, 8-20-90, 11:30 a.m.
- David Thornsburg, dob 11/17/63; Wanton Endangerment; 2nd; Entered New Cause; Trial date, 8-20-90, 11:30 a.m.
- Jerry J. Galbraith, dob 1/24/49; Permitting unlicensed operator to operate vehicle; Motion of Commonwealth Amended to KRS 189.224; permitting unlawful operation of motor vehicle; Gully plea, Fine \$100.00 and Costs \$47.50.
- Jerry L. Linville, dob 9/16/46; Permitting unlicensed operator to operate vehicle; On Motion of Commonwealth Amended to KRS 189.224; permitting unlawful operation of motor vehicle; Gully plea, Fine \$100.00 and Costs \$47.50.
- Darrell P. Tuglie, dob 10/28/68; Drinking alcohol bev. in public place; Enters Gully plea, Fine \$25.00 and Costs \$47.50.
- Howard Lee Moran, dob 2/15/64; 1) Possession of marijuana; Enters New Cause; Trial Set for October 1, 1990; 2) Drinking alcohol bev. in public place; Enters Gully plea, Fine \$25.00 and Costs \$47.50.
- Johnny D. Mitchell, dob 5/21/69; Drinking alcohol in public; Enters No Gully plea, Trial Set for 9-17-90, 1 p.m.
- Bobby R. Dawers, dob 2/9/71; 1) Disorderly Conduct; Waived right to Counsel; Advised of Constitutional rights; Enters Gully Plea. Sentencing set for 9-17-90, 11 a.m.
- Herbie Hicks, dob 12/21/62; Drinking in public; Enters Gully Plea, Fine \$25.00 and Costs \$47.50.
- Clayton Morris, dob 12/25/41; 1) Disorderly Conduct; 2) AI; Continued to 9-7-90.
- Elbridge B. Farley, Jr., dob 12/16/66; 1) DUI; Advised of Constitutional rights; Enters Gully Plea; Right Waived; Fine \$200.00, Costs \$47.50; Serv. fee \$150.00 allocated; Sent. deferred to 8-20-90; 2) Operating on Suspended License; Continued for Arraignment to 8-20-90.
- Wills N. Bastin, dob 4/6/62; 1) Speeding; Gully

- plea entered; Fine 40.00 and Costs \$47.50; 2) Expired registration; pro presented charges; dismissed.
- Jonathan W. Watkins, dob 6/27/72; Criminal Trespass, 1st; Cause, extended to 8-20-90, 11 a.m.
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GENERAL NEWS



**Making ready**  
City workmen dig up a portion of Elm Street to make ready for repairing efforts. According to City Superintendent Gayle Vanlandingham the work is being done to ease the grade for winter, along with spreading blacktop from the curb to the adjacent wall.

Attention NCHS Students Schedules to be changed August 1-3, 6

Due to additions to the high school classes offered, we will reschedule all students beginning with seniors on August 1, juniors August 2, sophomores August 3, and freshmen August 6. Please come to the high school cafeteria between the hours of 8:00 a.m. - 12:00 and 1:00 p.m. to 3:00.

Super Summer Bingo Friday, July 27 -- 7:30 p.m.

National Guard Armory  
• 30 Regular Games • 3 Big Jackpots!  
Cash Prizes -- Door Prizes  
Refreshments Available  
Sponsored by Post 17, American Legion

MERCURY MEMORIES

**Continued from Page 3**  
Ford Farm Efficiency Award in tobacco.  
Football will get underway at Nicholas County High School with a full squad meeting Monday, July 20 at the school.  
BORN: Gary Todd Smeed, July 15, 1970; Christopher Bryan Garrett, June 28, 1970; Steven Randall Willoughby, July 14, 1970; John Allen Crawford, July 19, 1970.  
DIED: Mrs. Marie Varner Brunner, 45, July 19, 1970; John W. Robinson, 82, July 20, 1970.

40 Years Ago

Thursday, July 27, 1950  
Eighteen Nicholas County campers have returned after five days, from the district 4-H camp in Morehead.  
The Rev. W.L. Smith, pastor of the Presbyterian Church, announced his resignation, effective Oct. 1 to accept a call to Guyton, Tenn.  
Miss Hazel C. Swartz, vice president of classroom teach-

50 Years Ago

Thursday, July 28, 1940  
At a meeting of the Nicholas County Board of Education Saturday the county was divided into five districts to comply with the first section of Carroll's Kentucky Statutes.  
3,300 citizens of Nicholas County are eligible to vote in the August primary.  
MARRIED: Miss Anna Louise West and Theodore H. Feldman, July 1, 1950.  
DIED: Ray Dalzell, 43, Saturday, Miss Mary Lou Blake and Holie S. Cavannah, Saturday.  
DIED: Mrs. Lola Sears-Selby, 29, at home of her son, Mrs. Hattie Thompson Hawkins, July 17, 1940.

Farm Bureau Annual Meeting

Earn Cash Quick and It is Easy and Fun!  
Nicholas County Farm Bureau would like to invite you to participate in the following contest that will be held at the annual meeting on August 2, 1990 at 6 o'clock p.m. at The National Guard Armory. Celebrating Farm Bureau Youth Contest Open to Males and Females 15-19 Years Old Twenty Five Contest 6-19 year old  
For More Information Please Call Debbie France at 289-5765 after 7 p.m. or 849-3366 during the day

Trailer Load of Factory Close Out Merchandise

Bill's just returned from a buying trip and wants to pass the savings on to you!

- Sofa \$298.00
- Love Seat \$178.00
- Good Fabric in the most popular covers
- 3-piece set \$548.00
- Chair \$130.00
- Easy Financing No Down Payment only \$31.00 a month



SUPER SATURDAY -- JULY 28TH

Double Coupons\* & Fun Day  
Parking Lot Concession Booth  
Hot Dogs 25¢ Cokes 25¢  
Proceeds go to Nicholas County Academic Boosters  
Coke and Coke Product Specials  
12 Pack - 12 Ounce Cans .....\$2.99  
2 Liter Bottles.....99¢  
\*Normal double coupon restrictions apply. Coupons doubled up to 50%. Larger coupons redeemed at face value. Double coupons not available on free or store coupons.

- ✓ TEENAGE MUTANT NINJA TURTLE will be at our store 10 a.m. to 4 p.m.
- ✓ Free Helium Filled Balloons
- ✓ Drawing Every Hour for FREE NINJA TURTLE Tee Shirts
- ✓ Check our may unadvertised specials

CARLISLE PIC-PAC  
Open 24 Hours -- 7 Days A Week