

WATER DEPARTMENT

The cities of Potwin and Whitewater have signed an agreement to construct a joint water line from El Dorado to Potwin. Whitewater has made application to Farmer's Home Administration (FmHA) for a low interest long term loan to finance the first phase of the project. Application has been made to Housing and Urban Development (HUD) for a grant to build a line from Potwin to Whitewater. We are optimistic about the application to FmHA but there is no indication on the grant application to HUD. Bid letting for the line from El Dorado to Potwin will be held Monday, December 15, at 7:30 at the Potwin Community Building.

The Council is presently working on new water rates. The figure of \$3.26 per thousand mentioned in the previously newsletter will not be used initially. Rates will be increased in accordance with the progress of the project.

SEWER

Construction on the new sewer plant and lines is progressing close to schedule. We realize the construction has created problems in some areas but every effort is being made to minimize the inconvenience.

FIRE DEPARTMENT

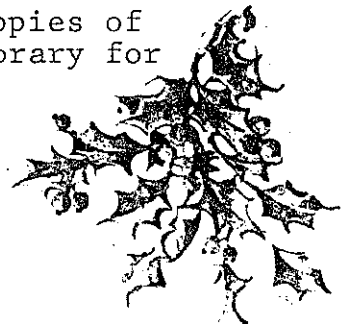
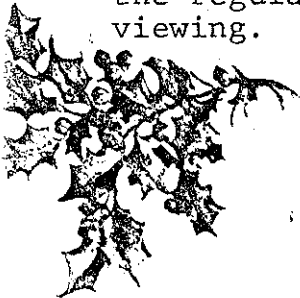
The Whitewater City Council, fire chief, and board members from Milton, Pleasant, Richland, and Fairmount townships have met to discuss the need for new fire fighting equipment. The age of the present equipment is of great concern and a plan for the purchase of new equipment is being developed.

LAW ENFORCEMENT

The council is pleased with the performance of our law enforcement officers. The benefit of their control is apparent to all of us. They can't be everywhere twenty-four hours a day but their presence has certainly created a safer more peaceful community. We would like to express our appreciation to Dennis Wage and Larry Mayfield and hope that all residents will join us in giving them our cooperation and support.

ZONING AND SUBDIVISION REGULATIONS

Zoning and Subdivision regulations have been adopted. Copies of the regulations are available at the city building or library for viewing.



STREET DEPARTMENT

It's that time of year when we can anticipate having snow. We would again like to ask your cooperation by requesting that all vehicles be removed from the streets immediately following such a snow to allow for cleaning of the streets.

FINANCE

When the 1980 budget was prepared we did not have our contract with Butler County Sheriff's Department for law enforcement. This expenditure exceeds the \$52,140.00 budgeted for the General Fund. There is cash available to cover the expense but the General Fund Budget amount must be amended to \$62,140.00 to allow for these additional expenditures. A public hearing will be held December 22, 1980 at 7:30 p.m. at the city building for the purpose of hearing questions or objections to the amendment.

*Greetings
and
Best Wishes*

FOR A HAPPY HOLIDAY SEASON AND THE NEW YEAR



*Whitewater City Council
and
Employees*

Whitewater Residents

October 16, 1980

Introduction

The City of Whitewater presently obtains drinking water from three wells located approximately one mile east of the City. During the hot and dry period this summer the three wells each pumped an average of 21 hours per day. The City Council realized that the system was reaching its' capacity and that additional water supply would be necessary. Since the existing water source is of marginal quality, the City asked Moser & Associates to investigate alternate water supply sources.

Existing Water Supply

The existing water supply is taken from a shallow aquifer about 10' thick and 40' deep. The quality of water from this aquifer varies widely depending on location and precipitation. When the City water system was constructed, approximately 140 water samples were taken from existing wells or test holes, most of which were within six miles of Whitewater. Very few of the 140 samples would meet current water quality standards. A shallow aquifer is subject to contamination from farm chemicals such as nitrate and organic chemicals.

The water from the existing wells exceeds the maximum contaminant level for nitrate as established by the Safe Drinking Water Act of 1974. The water also exceeds recommended levels of total dissolved solids and total hardness.

Projected Water Requirements

Due to the close proximity of Whitewater to Wichita, the population growth potential is quite large. For planning purposes, Moser & Associates projects the population in 40 years to be 1,245. The projected water consumption figures are as follows:

	<u>1979</u>	<u>2020</u>
Population	830	1,245
Yearly Consumption	26,000,000 gal.	40,000,000 gal.
Peak Month	4,400,000 gal.	6,600,000 gal.
Peak Day	170,000 gal.	255,000 gal.
Required Delivery Rate	150 gpm	225 gpm

Alternate Water Sources

1. Butler County RWD #7

Butler County RWD #7 is not yet under construction, but is expected to receive Farmers Home Funding this year. This water district obtains water from Butler County RWD #5 which in turn obtains water from the City of El Dorado. Butler County RWD #5 is already constructed, and in order for Butler County RWD #7 to furnish water to Whitewater, Butler County RWD #5 would have to enlarge some lines and obtain a new agreement from the City of El Dorado. Due to the number of agencies involved, and because the water lines would not travel in a direct route to Whitewater this alternate is not practical.

2. City of Newton

The City of Newton obtains water from the Equus Beds. Their well field is located Southwest of Newton and Northeast of Halstead. Due to ground water management requirements it would be difficult for the City of Newton to perfect additional water rights for water for the City of Whitewater. For this and other reasons Newton is not interested in supplying water for Whitewater.

3. Harvey County RWD #1

Harvey County RWD #1 obtains water from the City of Newton. Since the City of Newton will not supply water to Whitewater, Harvey County RWD #1 could not obtain additional water for this purpose.

4. City of El Dorado

The City of El Dorado is the only source identified that is willing and able to supply water to Whitewater. El Dorado has a new water treatment plant with a capacity well in excess of existing use. The source of water will be the new federal reservoir. The quality of El Dorado water is quite good, the total hardness is approximately 130 mg/l. Surface water taste is removed by an activated carbon filter.

5. Water Treatment Plant

Water from local wells could be routed through a water treatment plant. The treatment plant would require lime softening which would reduce the total hardness from approximately 475 to 260 mg/l. Since the existing water contains nitrates in excess of maximum contaminant levels, an ion exchange process will be required. Provisions should be made for an activated carbon filter for removal of organic chemicals. At least three full time employees would be required. A plant of 250,000 gpd is usually not practical due to high operational costs.

6. Additional Wells

All new public water supply wells cannot exceed the maximum contaminant levels for organic and inorganic chemicals as established by the Safe Drinking Water Act of 1974. It is doubtful that any wells in the area can comply with required nitrate limits. Most test holes and wells in the area exceed recommended secondary regulations for total dissolved solids and sulfates.

The local aquifer is quite shallow and thus subject to contamination from agricultural chemicals and oil field activity. Any test hole drilling program should be made under the direction of a professional geologist. A geologist can evaluate the possibility of contamination from oil field activity and estimate the yield of the aquifer.

A test hole drilling program should begin with a field survey by a geologist. The geologist will make a search of all available literature, and make field measurements to determine the hydraulic profile and source of the groundwater. A field survey will normally

indicate a high or low probability of finding suitable water, and recommend possible drilling sites. The field survey should be followed by test wells to determine water quality and yield.

A test hole drilling program is not recommended due to the low probability of finding acceptable groundwater in the area, and possible contamination at a later date. If other sources of water do not materialize a test hole drilling program should be initiated.

Conclusions

The City of El Dorado is the only dependable and available source of water that complies with the Safe Drinking Water Act. Although the costs to connect to El Dorado seem quite high now, as inflation erodes the value of the dollar the burden for capital outlay will seem smaller each succeeding year.

The City of Potwin is expecting Farmers Home approval this month for a 6" line from El Dorado to Potwin. We recommend that Whitewater contact Potwin and Farmers Home immediately to request an increase in the size of the line to 10". If this is accepted by Potwin and Farmers Home, Whitewater should begin engineering and acquiring easements for the line from Potwin to Whitewater. Hopefully the line from El Dorado to Potwin will be constructed in 1981 and from Potwin to Whitewater in 1982.

Preliminary Cost Estimates

1. Joint Project with Potwin

Increase in Cost 6" to 10" Main(3.00-6.00) 65,000 x 3 =	\$195,000
Increase Pumping Capacity & Easements 70,000	70,000
8" Line Potwin to Whitewater 42,000' x 5.00 =	<u>210,000</u>
Construction Cost	\$475,000
Easements 42,000' @ 25c	10,500
Engineering & Legal 15%	<u>71,250</u>
Total Cost	\$556,750
7% Bonds on 105,500 for 20 years	10,000
5% loan on 451,250 for 40 years	<u>26,300</u>
Annual Capital Outlay	\$ 36,300

2. Whitewater Direct to El Dorado

Pumping Station & controls	\$ 50,000
8" Line 107,000 x 5.00	<u>535,000</u>
Construction Cost	\$585,000
Easements 107,000 @ 25c	26,750
Engineering & Legal 15%	<u>87,250</u>
Total Cost	\$699,000
7% Bonds on \$143,000 for 20 years	\$13,600
5% loan on \$556,000 for 40 years	<u>32,400</u>
Annual Capital Outlay	\$46,000

Water Quality Comparison

<u>Substance</u>	<u>Recommended Maximum</u>	<u>Whitewater</u>	<u>El Dorado</u>
Total Hardness		475	130
Total Residue	500	830	160
Sulfate	250	246	2.0
Nitrate	10*	13	2.9
Iron	0.3	0.1	0
Manganese	0.05	0.01	0
Chloride	250	16	8.7
ph	6.5-8.5	7.9	8.0

*maximum allowed

Analysis of Water Rates

Current water rates average \$1.04 per 1000 gallons. This figure was arrived at by dividing the total revenue for 1979 by the consumption: \$26,825 ÷ 25,788,000 gallons = \$1.04 per 1000 gallons. The City of El Dorado sells water at a stepped scale which at this time is about \$.66 per 1000 gallons plus \$273 per month readiness-to-serve charge. This analysis assumes that the rates will raise enough to cut consumption by 10%.

Estimated Expenditures:

<u>Expenses</u>	<u>Present System</u>	<u>Proposed System</u>
Annual Capital Outlay	\$ 2,000	\$36,000
Electricity	2,600	2,600
Well Operation & Repair	11,600	0
Billing & District Maint.	7,800	7,800
Reserve	3,000	3,000
Maint. & Repair of Line	0	2,000
Maint. & Repair of Pump Sta.	0	5,000
Water Cost 23 M. Gallons	0	18,300
	\$27,000	\$75,000

Required Water Rate: $\frac{\$75,000}{23,000} = \3.26 per 1000 gallons

COUNCIL COMMENT

Your council, as stated in prior newsletters, wants to keep you the tax paying public informed. The report you have read was presented to the City Council on October 1. At that meeting there were also suggestions for funding sources to help off-set the cost to the city. An application to the U.S. Department of Housing and Urban Development for 100% funding of a portion of the project is being prepared. Farmers Home Administration has been contacted about a low interest, long term loan for a partial cost of the project.

The council has made no commitment at this time. The Water Sources Report and letters received from the State Department of Health and Environment do however indicate that El Dorado is indeed the only dependable and available source of water. Should it prove possible to join Potwin in obtaining water from the City of El Dorado it would be necessary for Whitewater to issue temporary notes or No Fund Warrants to provide interim financing so as not to delay Potwin in the start of their project.

Attached are copies of letters received from the State Department of Health and Environment and the City of Newton. We felt these letters would help to clarify the cities water problem.

We again encourage you to bring any questions you might have to any council member or attend your council meetings.

As the governing body of the City of Whitewater we are striving to run our city as efficiently as possible, taking care of day to day operations and those problems which demand attention. We feel our responsibility also demands that we look to the future of our city by not ignoring that which might be put off but inevitably must be dealt with.

Mayor
Pete Klassen

Council Members
Herman Merritt
Phyllis Belcher
Floyd Rutschman
Keith Graham
Robert Lamb

JAY P. NEWTON, JR.
CITY MANAGER



the city of newton

120 east 7th street
October 6, 1980

newton, kansas 67114

phone 283-6900

#1663

Mr. Norman Bowers, P.E.
Moser and Associates
Consulting Engineers
P. O. Box 847
Newton, Kansas 67114

Dear Mr. Bowers:

I am responding to your recent inquiry of the possibility of serving the City of Whitewater with water through a rural water district.

I have reviewed our rural water district policy and can advise you that our policy intent is to provide water to a rural water district only if no other source for water is available. It was my understanding that water is available to Whitewater from ElDorado or possibly other sources. Consequently, water from Newton should not be viewed as a supply source.

Thank you for your inquiry.

Sincerely,

THE CITY OF NEWTON

Jay P. Newton, Jr.
City Manager

JPN,J:mrl

DEPARTMENT OF HEALTH AND ENVIRONMENT

JOSEPH F. HARKINS, Secretary

Forbes Field
Topeka, Kansas 66620
913-862-9360



October 9, 1980

Jerry Paterson, Mayor
City of Potwin
Potwin, KS 67123

Re: Water Supply

Honorable Mayor and City Council:

The City of Potwin is certainly to be commended for its progress made to bring in a water supply of excellent quality. Other cities have been remiss in recognizing and meeting this responsibility to its citizens. A few cities have not had a situation where a decision was clear cut. Their water supply has been basically palatable, generally sufficient and met practically all the state and federal primary standards. At the same time they sensed a real desire for fiscal restraint from the community.

Such a city is Whitewater. They very probably should have agreed to join Potwin in its pursuit of El Dorado Lake water several years ago, but they declined. However, their need still exists and they now recognize it. It's my understanding that the Whitewater City Council would like very much to join you in your project using their own financing if it can be done without imposing a burden on Potwin or slowing down expected events. I believe through discussions with various informed people that the possibility does exist that this could be accomplished with little effect on the proposed project and its timing. Additionally, there are several reasons for agreeing to this, beyond just being good neighbors, which should result in additional benefits.

First, the pumping costs should be reduced if the size of the pipeline to Potwin is increased to handle the additional flow. Friction loss is less with larger lines. Additionally, there is an "economy of scale" savings which could be shared equitably by the two cities. This is the savings reaped by the fact that an 8-inch or 10-inch line costs only a little more to lay than a 6-inch line while carrying a lot more water.

Second, it is my understanding that Potwin would be entitled to a connection fee to defray some portion of your development costs. A fair and equitable fee would help toward reducing monthly user's charges in Potwin.

City of Potwin
October 9, 1980
Page 2

Increased water supply dependability and added fire protection could be benefits to supplying Whitewater. There would be more water flow available in the larger transmission line for emergency use. Also, if there should be a break in this transmission line to Potwin, it might be possible to receive a reverse flow from Whitewater using its existing wells, pumps and proposed new elevated tank as an emergency backup supply.

Another benefit might be the possibility of serving Remington High School from the subsequent water line from Potwin to Whitewater. If this could be done, your children might enjoy the same quality water at school as they will at home.

Finally, the Division of Environment believes that given the needs of communities as viewed from the larger frame of reference, better uses would be made of available Farmers Home Administration loan funds for two potential water supply projects to be combined into one. There would be a savings of everyone's tax money by doing so.

We appreciate this opportunity for input and any other you may wish in the future. Your consulting engineer, Poe and Associates, has been most cooperative and helpful in answering my questions and I am certain their advice and professional input should continue to be valuable. I will be available to meet with you at your convenience should you have questions regarding this or wish our assistance in some way.

Sincerely,

DIVISION OF ENVIRONMENT



Steve Innes, P.E.
South Central District Engineer

SI:ss

cc: Mike Thompson, Poe & Associates
Bob Moser, Moser & Associates
Dwight Metzler, Bureau of Water Supply
Pete Klassen, Mayor of Whitewater

July 14, 1980

THE CITY COUNCIL REQUESTS YOUR COOPERATION IN WATER CONSUMPTION.

DUE TO THE WEATHER CONDITIONS AND EXCESSIVE USE OF WATER BY SOME, IT HAS BEEN IMPOSSIBLE TO FILL THE WATER TOWER SINCE IT WAS CLEANED AND PAINTED. SATURDAY EVENING THE WATER LEVEL WAS ONLY 16 FEET INTO THE STEM PIPE OF THE TOWER. SHOULD A WELL PUMP GO DOWN OR A LINE BREAK THIS WOULD LEAVE THE CITY WITHOUT ANY RESERVE OF WATER. THE COUNCIL REQUESTS THAT YOU CURTAIL LAWN WATERING UNTIL THE TOWER IS COMPLETELY FULL. AT THIS TIME IT IS IMPOSSIBLE TO TELL HOW MANY DAYS IT WILL TAKE. WHEN THE TOWER IS FULL NOTICE WILL BE PLACED IN VARIOUS PLACES OF BUSINESS. AS YOU MAY BE AWARE MANY CITIES IN KANSAS ARE ALREADY RATIONING WATER. WE HOPE THIS WILL NOT BE NECESSARY FOR WHITEWATER. AFTER THE TOWER IS FULL, AND IF OUR PRESENT WEATHER CONTINUES, THE COUNCIL WOULD ASK THAT YOU LIMIT LAWN WATERING TO TWO (2) HOURS PER TWENTY-FOUR (24) HOUR PERIOD. YOUR COOPERATION IS REQUESTED AND APPRECIATED.

THE WHITEWATER CITY COUNCIL

July 14, 1980

THE CITY COUNCIL REQUESTS YOUR COOPERATION IN WATER CONSUMPTION.

DUE TO THE WEATHER CONDITIONS AND EXCESSIVE USE OF WATER BY SOME, IT IS BEEN IMPOSSIBLE TO FILL THE WATER TOWER SINCE IT WAS CLEANED AND PAINTED. SATURDAY EVENING THE WATER LEVEL WAS ONLY 16 FEET INTO THE STEM PIPE OF THE TOWER. SHOULD A WELL PUMP GO DOWN OR A LINE BREAK THIS WOULD LEAVE THE CITY WITHOUT ANY RESERVE OF WATER. THE COUNCIL REQUESTS THAT YOU CURTAIL LAWN WATERING UNTIL THE TOWER IS COMPLETELY FULL. AT THIS TIME IT IS IMPOSSIBLE TO TELL HOW MANY DAYS IT WILL TAKE. WHEN THE TOWER IS FULL NOTICE WILL BE PLACED IN VARIOUS PLACES OF BUSINESS. AS YOU MAY BE AWARE MANY CITIES IN KANSAS ARE ALREADY RATIONING WATER. WE HOPE THIS WILL NOT BE NECESSARY FOR WHITEWATER. AFTER THE TOWER IS FULL, AND IF OUR PRESENT WEATHER CONTINUES, THE COUNCIL WOULD ASK THAT YOU LIMIT LAWN WATERING TO TWO (2) HOURS PER TWENTY-FOUR (24) HOUR PERIOD. YOUR COOPERATION IS REQUESTED AND APPRECIATED.

THE WHITEWATER CITY COUNCIL

July 1, 1980

IT HAS BEEN NECESSARY FOR THE CITY TO CONTRACT FOR THE CLEANING AND PAINTING OF THE WATER TOWER, INSIDE AND OUT. THE TOWER WAS DRAINED THIS MORNING. WATER PRES- SURE WILL BE LOWER THAN NORMAL. DUE TO THE FACT THAT THE WATER SUPPLY BE PROVIDED BY PUMPS ONLY, WE ARE ASKING THAT ALL CITIZENS BE AS CONSERVATIVE WITH THEIR USE OF WATER AS POSSIBLE. THE TOWER WILL BE EMPTY FOR APPROXIMATELY ONE WEEK. YOUR COOPERATION IS NECESSARY AND APPRECIATED.

THE WHITEWATER CITY COUNCIL.

July 1, 1980

IT HAS BEEN NECESSARY FOR THE CITY TO CONTRACT FOR THE CLEANING AND PAINTING OF THE WATER TOWER, INSIDE AND OUT. THE TOWER WAS DRAINED THIS MORNING. WATER PRES- SURE WILL BE LOWER THAN NORMAL. DUE TO THE FACT THAT THE WATER SUPPLY WILL BE PROVIDED BY PUMPS ONLY, WE AREAASKING THAT ALL CITIZENS BE AS CONSERVATIVE WITH THEIR USE OF WATER AS POSSIBLE. THE TOWER WILL BE EMPTY FOR APPROXIMATELY ONE WEEK. YOUR COOPERATION IS NECESSARY AND APPRECIATED.

THE WHITEWATER CITY COUNCIL

NEWSLETTER

USER CHARGE ORDINANCE

The new User Charge Ordinance will become effective on the June billing. The sewer charge is based on the average of gallons used in January, February, and March. This charge will be effective until April 1981 when the January, February, and March readings will again be averaged to determine the sewer charge for that year.

GROUND BREAKING CEREMONY

On Wednesday, June 18, at 10:00 a.m. a ground breaking ceremony will be held for the new wastewater treatment facility. Citizens are welcome to attend. The ceremony will be held west of D. E. Resnik Motor Company across the railroad tracks near the present facility site.

CONSUMPTION AND TRANSPORTING OF CEREAL MALT BEVERAGES

We would like to point out to all citizens and especially parents that Ordinance No. 377 states that it is against the law for any person to drink beer or have any open container in any public place, street, right-of-way, or alleys in the city, unless the container is locked in a rear trunk or compartment, or outside compartment which is not accessible to the driver or any other person in the vehicle. Anyone violating the Ordinance is subject to a fine of not more than \$100.00, or by imprisonment of not more than six months, or both. Juvenile offenders would be transported to juvenile county authorities.

NEW PLAY EQUIPMENT

The Modernettes have purchased and installed play equipment on the west side of the new library. The council appreciates the time and effort spent in raising the money and installing the equipment. The equipment is meant for younger, smaller children. There is a temptation for larger children to play on the equipment, but we would appreciate your cooperation in preserving it for the younger children.

CABLE TELEVISION

Over the last few months the city council has been studying with the Wheat State Telecable Company the feasibility of cable television for the city. The feasibility study is still in progress and a determination should be made in the near future.

AUGUST 4, 1980

SEWER CONSTRUCTION

Contruction of the new sewer facility is now under way. Work is presently being done on the clarifiers and the drying beds.

PLANNING COMMISSION APPOINTMENTS

Terry Lloyd has been appointed to the City Planning Commission and Jake Hiebert and Norman Taylor reappointed.

COUNCIL APPOINTMENT

Keith Graham has accepted appointment to the City Council to fill the vacancy created by the resignation of Blaine Bowlin.

ZONING BOARD OF APPEALS

The following have been appointed to the Board of Zoning Appeals: Lester Rose, Robert McCoy, Robert Brunn, Irvin Mosiman, and Jake Hiebert. The Board of Zoning Appeals will be the decision making body for all appeals for variance from the Zoning and Subdivision Regulations when adopted.

NEW LAW ENFORCEMENT OFFICER

The city now has their second officer living in the community. Larry Mayfield and his wife Teresa moved to Whitewater from Greensburg where Mr. Mayfield was in law enforcement. We would like to welcome the Mayfields to our city.

KANSAS GREEN THUMB PROGRAM

Lyman Webb works for the city through the Kansas Green Thumb Program. Mr. Webb has done an excellant job of supervising park and ground maintenance and is presently removating the old fire station. If you have noticed the improvements to city property why not take a few minutes the next time you see Mr. Webb and express your appreciation.

1981 BUDGET HEARING

The public hearing for the 1981 Budget will be held on August 12, at 7:30P.M. Any comments or questions you may have about the budget will be welcome.

WATER SYSTEM CONTROL PANEL

It has been necessary for the city to purchase a new electronic control panel for the water system. The controls that were replaced had been in operation since the water system was installed 20 years ago and were not functioning properly. The panel provides 24 hour information on the system and controls the water level in the tower and the operation of the wells in sequence. The cost of the panel was \$5,800.00.

WATER SYSTEM PUSHED TO THE LIMIT

A study is in process on the feasibility and funding for 2 additional wells and 1 additional feeder line from the wells. At the present time all three wells are in operation 24 hours every day to keep up with the demand. One well is not pumping to capacity and should we loose one well altogether there would be no way for the remaining two wells to keep up with the demand. The majority of citizens have been very cooperative and your council appreciates your efforts. There are some however who still fail to recognize the strain we are putting on our water system. We would like all citizens to be aware that should an emergency develop bulletins will be broadcast on KFH and KFDI.

STREET WORK

Your cooperation is needed for the next two weeks in keeping all cars and other vehicles off the streets or being available to remove them at any time. The streets are to be resurfaced and this will require sweeping and sanding.

Again we hope this letter has been informative to you our citizens. Please feel free to submit any comments or questions you might have and we will be glad to place them in the next newsletter.

THE WHITEWATER CITY COUNCIL