



STEPS TO SAVING WATER

- ◇ When washing dishes by hand, don't let the water run while rinsing. Fill one sink with wash water and the other with rinse water.
- ◇ Adjust sprinklers so only your lawn is watered and not the house, sidewalk, or street.
- ◇ Run you clothes washing and dishwasher only when they are full. You can save up to a 1,000 gallons a month.
- ◇ Install covers on pools and spas and check for leaks around your pumps.
- ◇ Water your lawn and garden in the morning or evening when temperatures are cooler to minimize evaporation.
- ◇ Spreading a layer of organic mulch around plants retains moisture and saves water, time and money.
- ◇ Use a broom instead of a hose to clean your driveway and sidewalk to save water every time.
- ◇ Collect the water you use for rinsing fruits and vegetables, then reuse it to water houseplants.
- ◇ We're more likely to notice leaks indoors, but don't forget to check outdoor faucets, sprinklers and hoses for leaks.
- ◇ Water your plants deeply but less frequently to encourage deep root growth and drought tolerance.
- ◇ Check your toilet for leaks. Stop by City Hall to pick up your free leak detection dye tablets.

Tablet Instructions:

1. Remove tank cover carefully.
2. Drop 1 tablet in tank.
3. Water several minutes.
4. If color appears in bowl, you have a leak.



PUBLIC WORKS PROJECTS UPDATE

AUGUST 2013

WATER LINE REPLACEMENT PROJECT NEARS COMPLETION

In 2010, the City began a project to replace over 30 blocks of undersized water lines in town. Much of this waterline was failing due to age.

Staff proposed a project to the Council to replace the two inch water lines with new eight inch water lines.

The main reason for the increased size was to improve water pressure and water for fighting fires in the various neighborhoods.

The project called for the replacement of all of the existing fire hydrants in the project area plus the installation of several new ones.

To contract this work out, it would have cost in excess of \$2 million. To prevent having to increase rates to do this project, the Council agreed to have Public Works Staff do the work instead.

The project was budgeted at \$500,000 to complete. As of August 2013, the project is 95% complete and just over

\$300,000 has been spent on the project.

Originally, the project was scheduled to be completed in the summer of 2012. Due to an unanticipated emergency repair to the Police Department parking lot, the project was delayed until the summer of 2013.

As of the beginning of August, staff had finished all of the water main line replacement.

All that is left is to finish

installing the water services and testing of the new lines.

At this point, it is anticipated that this project will be completed by the end of August.

SEWER PUMP STATION UPGRADE PROJECT COMPLETED

The Public Works Department has completed the sewer pump station upgrade project that was authorized by City Council.

This project consisted of updating and modernizing five of the ten City sewer pump stations.

The reason for authorizing this project was due to the fact that many of the existing stations were well past the useful operational life, which made getting parts extremely

difficult and expensive. The age of the stations also increased the likelihood of a failure that would cause sewage backups and spills.

Originally, the engineering estimates for this project were in excess of \$8 million.

Public Works Staff proposed to the City Council that most of the work be performed in house and only contract out the parts of the project that could not be completed by staff.

Based on this approach, staff recommended a budget to the Council of \$1.2 million that would take up to two years to complete.

The project started in March of 2012 and was substantially complete by the end of July 2013.

Although there are a few outstanding bills, it is anticipated that the project will come in just over \$900,000. This is \$300,000 under budget.



Utility Worker Matt Steele working on the new pump installation at 10th & Rose Pump Station

CITY TO BEGIN WATER LINE CLEANING PILOT PROGRAM

In efforts to address the water quality in town, the City Council has authorized staff to run a pilot program to test the effectiveness of a new type of water main line cleaning.

The new type of water main line cleaning is called "ice pigging" and is performed by the Utility Services Company, a national company with over 25 years experi-

ence throughout the United States.

Ice pigging is a process in which an ice slurry is injected into the water line through a fire hydrant or other device and is flushed out in a different fire hydrant or other device.

The ice is a saline solution that is not harmful to people or the environment.

As the ice moves through the line, it scourers off any sediment build up within the line and traps it in the ice slurry solution.

The first run for the Junction City pilot program will be on Timothy Street from 6th Avenue to High Pass Road. It will also include all the cul-de-sacs and side streets in the area.

The second run for the Junction City pilot program will be Quince Street off of Rose Street and include part of 10th Street.

Once the pilot program is complete, the City will be evaluating the results further.

The work is scheduled to be done August 29th and 30th.

WATER TREATMENT PLANT PROJECT TO BEGIN SOON

One of the major Council goals is the construction of a water treatment plant to remove the iron and manganese from the City's drinking water.

As a part of this goal, staff has located some high quality used equipment that can be used by the City.

In an effort to keep costs down, Public Works staff

will be performing the majority of the project work.

The original engineering estimates put the cost of this project in excess of \$3.5 million.

Since most of the work will be done in house, staff recommended a budget of \$1 million. This will allow the City to not raise water rates to pay for this project.

It is anticipated that the work on the project will start in late August or early September, 2013.

The project is anticipated to be operational by March 31, 2014.



Dean Tracer loading the used treatment plant equipment to be delivered to the City.

SEWER TREATMENT PLANT IMPROVEMENTS TO BEGIN SOON

As part of the City's agreement with the Oregon Department of Environmental Quality (DEQ), the City is required to make some short term improvements to the sewer treatment plant.

For the City, this means adding aeration (air) to the existing lagoons. This will improve the City's ability to treat the sewage and produce cleaner water when the City

releases water from the plant.

Also as part of the agreement, the City is required to have these improvements fully working by October of 2014.

The City has submitted to DEQ the initial concept plan for their review and approval.

Once the City receives this

approval, the next step will be to submit to DEQ a design plan for review and approval. It is anticipated that this work will begin within the next few months.

It is the City's goal to have the project ready for bid in late winter. This will allow the City to begin construction in the late spring 2014 or as soon as the weather allows.

There are currently no engineering estimates for this project at this time. As part of the design plan, estimates will be created.

Also, there are no plans to raise the sewer bill rates due to this project.



JUNCTION CITY PUBLIC WORKS

1171 Elm Street - Main Shop
1395 Elm Street - Old Shop

Phone: 541-998-3125

Fax: 541-998-2773

E-mail: jknobe@ci.junction-city.or.us

Public Works Online Sites

WWW.JCPWD.COM

WWW.JUNCTIONCITYOREGON.GOV

BLOG.JCPWD.COM

TWITTER - [@JCPWD](https://twitter.com/JCPWD)

WWW.FACEBOOK.COM/JCPWD

HAVE A PROJECT IDEA OR QUESTION?

For Project Related Questions:

1. Call Public Works at 541-998-3125
2. Email Public Works at jknobe@ci.junction-city.or.us or gkaping@ci.junction-city.or.us
3. Stop by and visit us at our main shop located at 1171 Elm Street during our normal business hours of Monday through Friday, 7:00 am to 3:30 pm.

For Project Ideas

1. All the options above
2. Attend one of the following committee meetings:
 - Sanitation, Recycling, and Water Committee normally meets the first Monday of each month at 6:30 pm at City Hall.
 - Sewer and Streets Committee normally meets the first Monday of each month at 7:00 pm at City Hall.
 - City Council normally meets the second and fourth Tuesday of each month at 6:30 pm at City Hall.

SEWER PIPE LINE REPLACEMENT PROJECT UNDERWAY

In July, the City Council approved a \$1.8 million project to replace approximately 11,000 feet of older leaking sewer pipe in town. This is approximately 10% of all the sewer pipe in town.

The main purpose of this project is to reduce the amount of ground water that comes into the City's piping system in the winter.

Typically, the flow to the City's sewer plant is approximately 500,000 gallons per day. In the winter time, this flow rate climbs up to over 5,000,000 gallons per day.

The excess groundwater causes the system to run longer than it normally would.

This causes increased operational costs as well as requiring the City to build facilities much larger than they necessarily need to be.

The City split the Sewer Pipe Replacement Project into three sections: Schedule A, Schedule B and Schedule C. This was primarily done to give smaller local companies an opportunity to bid on the different project

elements. In the end, the City awarded the project to two contractors.

Emery and Sons Construction was awarded Schedule A and Schedule B. This consists primarily of work west of Highway 99 and east of Front Street.

Northwest Kodiak was awarded Schedule C. This consists primarily of work between Highway 99 and Front Street.

It is anticipated that both of these projects will be complete by late October 2013.