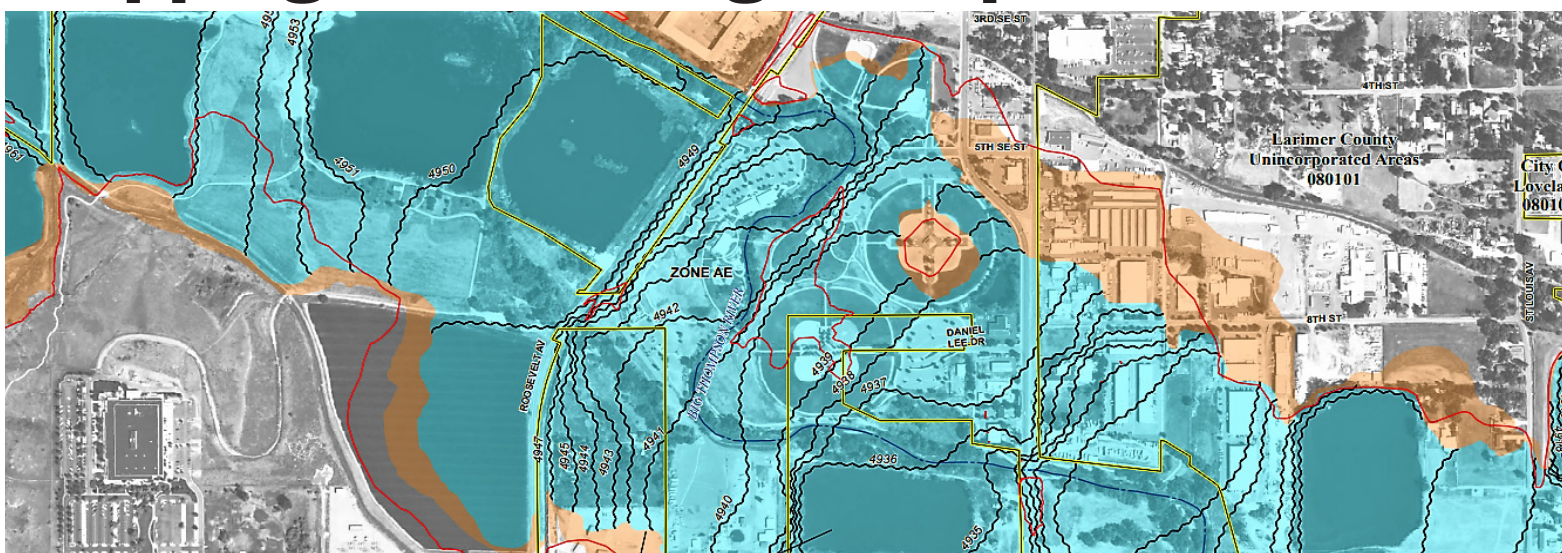




Mapping the next Big Thompson River flood



A small section of a much larger series of new floodplain maps shows the Fairgrounds Park/U.S. Highway 287 zone that was inundated by the 2013 Flood. **Below**, the Mariana Butte area of west Loveland on Sept. 14, 2013, as floodwaters were beginning to recede from the high point a day earlier.

City, county, state engage in updating floodplain maps

Many Loveland residents still hold the September 2013 Flood as a fresh memory five years after it occurred.

The Big Thompson River first scoured out its mountain canyon, killing two people and wiping out a highway, then spread fast and wide along its path through Loveland, causing \$30 million in damage and cutting the city in half for days.

Lessons from the flood, and ways it rearranged the river corridor landscape, are playing out in a new series of maps. They predict how future Big Thompson River 100-year floods (1 percent chance of occurring in any given year) and 500-year floods



(0.2 percent chance of annual occurrence) will affect us.

The Colorado Hazard Mapping Program – CHAMP for short – employs technology that allows the most accurate picture yet of how

the river might behave in a future flood. The maps also will serve as the basis for local regulation of development and land use and will shape the local policies of FEMA's National Flood Insurance Program.

(see **Maps** page 2)

Local knowledge applied

A three-year collaborative engineering project led by the Colorado Water Conservation Board has pulled in the expertise of local experts in North Front Range communities that were affected by region-wide flooding in 2013. In Loveland, senior civil engineer Kevin Gingery, who is the local lead for the project, and civil engineer Chris Carlson have applied five years' worth of learning to the effort.

The impact of the floods has made Colorado a magnet for grant money that has paid for some of the most sophisticated two-dimensional mapping technologies available. The magic includes LiDAR, or "light detection and ranging" that uses airborne laser instruments to add depth to floodplain maps that previously offered only breadth.

"All of the data we've used in our mapping is post-flood, with updated hydrology, updated LiDAR," said Thuy Patton, floodplain mapping coordinator for the state agency. "We're using the latest technology in hydraulic modeling as well, so that what we have produced is much better than what was previously on the maps."

Open house circuit

Patton is embarking on a winter road tour that will include communities such as Boulder, Lyons, Loveland, Evans and unincorporated areas of Larimer and Weld counties, all hit hard by the 2013 floods.

An open house in Loveland on Nov. 14 drew 53 residents, most of them property owners in the nine-mile Big Thompson River corridor through Loveland – a mosaic of land parcels that lie within city and county jurisdictions.

The attendees viewed large-scale maps of the river corridor and learned how the changed landscape – and the precise ways it has been measured and mapped – also has affected development and land use potential in some areas. The shifted boundaries of the 100-



Chris Carlson, left, and Kevin Gingery, engineers in the Loveland Public Works Department's Stormwater Division, stand at a concrete wall separating the Big Thompson River and the Recreation Trail just upstream from the U.S. 287 bridge. The wall was built as part of a larger flood recovery and mitigation project in 2015.

www.cityofloveland.org/floodmaps

View the updated floodplain maps that cover the Big Thompson's nine-mile course through Loveland online at the Loveland Public Works Department's flood management website.

The website also offers:

- Contact information for Public Works engineers Kevin Gingery and Chris Carlson, who can answer questions about the new maps.
- Information about the Early Flood Warning System (EFWS) installed by the City at seven locations in and around Loveland.
- Links to resources covering building permitting and developing within the floodplain, and to related maps and fact sheets.

year floodplain offer benefits to some landowners, and surprises to others.

The maps do not yet show the floodway – a more restrictive definition of flood-prone land that would effectively determine "no-build" zones. The draft floodway designations will not be publicly released for another six months.

"That will be a key sticking point, because it eliminates any possibility for development," Loveland Public Works engineer Kevin Gingery said.

Flood insurance rules

The updated, two-dimensional model that Gingery said contains "much more accurate information than the one-dimensional model that FEMA uses" will eventually become the basis for FEMA

Flood Insurance Rate Maps that will determine both eligibility for federal flood insurance and premiums that landowners would pay.

The FEMA adoption of the new maps is a process that will take another two years, but local jurisdictions, including Loveland, are following the state agency's advice to apply the information on the maps to planning and development regulations now rather than later.

Colorado's Legislature in 2015 passed a bill directing \$6.8 million in state funds to the CHAMP project over three years. The first two phases of the mapping effort include more than 700 miles of streams in Northern Colorado most affected by the floods five years ago, including the Big Thompson.

Disabled residents in Loveland may qualify for COLT's Paratransit Bus Service

Paratransit bus service is a supplemental service that provides door-to-door transportation for residents who qualify and are unable to use the standard City of Loveland Transportation (COLT) bus system.

The service runs within $\frac{3}{4}$ of a mile on either side of COLT's regular bus routes so residents must begin or end their rides within that boundary. If they do not live within the service area but can get themselves within the $\frac{3}{4}$ -mile area, they can use the Paratransit service.

Individuals who want to use the Paratransit service must complete an application and be deemed

eligible by the COLT eligibility staff. The Paratransit service is not intended to be a comprehensive system of transportation that meets all of the travel needs of persons with disabilities, but rather as a 'safety net' for people with disabilities who are unable to make use of the available fixed route transit system.

The service runs the same time as the fixed route service: Monday through Friday 6:45 a.m. to 6:30 p.m. and Saturday 8:45 a.m. to 5:30 p.m.

The City of Loveland partners with the City of Fort Collins to contract-out paratransit services with Dial-A-Ride, through zTrip.

For more information go to www.cityofloveland.org/paratransit or call the COLT office at 970 962-2700.



City's Paratransit service provides transportation for qualifying residents.

Library now offers a variety of online classes users can take from home

The Library is now offering a number of computer classes that patrons can take online from home or other off-site locations.

Current offerings include Social Media for Business, Search Engine Optimization, WordPress websites, Google Apps 101, and Google Apps 201.

These classes are for students who already have some working knowledge of these applications. The library is intending to expand their class offerings for students of different levels in the future.

To participate, students just need a viable web connection on

their end. The library's Technology and Innovation staff provides instruction on everything else.

Attend Library Classes Online!



During class, online students are able to view the instructor's screen, observe presentation slides, and listen to the lecture through the digital classroom. They can also ask questions via the built-in chat feature.

Users will receive an email 3-5 days before the class with setup and troubleshooting information. One day before class, students will receive an email with a link that will connect them to the digital classroom. All classes are free.

For more information, go to LovelandPublicLibrary.org/computerclasses.

Residents give high marks on quality of life, voice concerns about growth

As in years past, last July, the City asked Loveland residents to share their thoughts on the quality of life in Loveland. The City mailed out 3,000 paper surveys and residents were also invited to respond online.

The mailed survey was completed and returned by 648 residents. Another 339 people took the survey online. Both groups also submitted their own written comments.

Results were in line with previous years' surveys with the

highest ratings going to utility and public safety services. Quality of wastewater/stormwater systems and quality of street surfaces also got high ratings. As always, residents gave very high marks to parks, trails and natural areas and respondents gave highly favorable ratings to arts and culture programs and festivals and events.

Less favorable ratings were given to alternative transportation options and Loveland attracting high-paying, benefitted jobs. A common theme in both surveys was

residents' concerns about mobility and congestion as the City and region grow.

Complete results for both surveys can be found at www.cityofloveland.org/qolsurvey.



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City Update is a monthly publication of the City of Loveland. Residents receive City Update according to their utility billing cycle. Timeliness of the information may be affected by recipients' billing schedule. City Update is also available around the first of every month on the City's website at www.cityofloveland.org. Your comments are welcome. Please call 962-2302, or email Tom.Hacker@CityofLoveland.org. The City of Loveland is committed to providing equal opportunity for citizens and does not discriminate on the basis of disability, race, color, national origin, religion, sexual orientation or gender. The City will make reasonable accommodations for citizens in accordance with the Americans with Disabilities Act. For more information, please contact the City's ADA Coordinator at 962-3319.

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PREPARING FOR GROWING WATER DEMAND



Loveland Water and Power relentlessly pursues new technology and innovative measures that increase reliability and serve our thriving population. It's no secret to the utility that water remains an ever-hotter commodity in our community.

Loveland Water and Power will install a new 30" water line and a five-million gallon water tank near the 29th Street Pump Station in preparation for increased population growth. The four-million gallon steel tank and pump station that lives at the end 29th Street meets today's water demands, but a commitment to reliability, resilience and innovation motivated the utility to expand service and storage to the west.

Construction and installation of the new waterline began in August 2018. The project will creep into early 2019, providing redundancy and capacity to meet high flow demands in the future.

The record-setting 30" line will be the largest PVC pipe installed in the City of Loveland. Traditionally, LWP would use steel or ductile iron pipe for a line of this diameter. However, LWP dared to install PVC product on this project to impede corrosion and prevent leaks over the lifetime of the pipe. The waterline will extend from the Morning Dr. Pump Station to the 29th Street water tank.

Design of the new 5 million gallon water tank will be completed in 2019, followed by construction in 2020. The new tank will provide additional water for fire protection and emergency water storage while adding to the city's robust portfolio of resources. The new tank will be made of concrete, requiring less long-term maintenance and potentially providing a longer life span. Upon completion of these two innovative projects, LWP will be better prepared to meet Loveland's increasing water demands in the coming years. For more information on this project and others visit us online at

www.cityofloveland.org/lwp

Future Loveland Water Tank

Tank Benefits

- Meet Peak Summer Water Usage
- Provide Better Fire Protection
- Meet Future Water Demands

Tank Design in 2019 ■ Construction in 2020



TO FLUSH OR NOT TO FLUSH...

Avoid nasty clogs & expensive plumbing bills by keeping non-flushable items out of the toilet!

NEVER FLUSH...

- "Flushable" Wipes
- Medications
- Bandages
- Cotton Swabs
- Dental Floss
- Diapers
- Hair
- Cleaning Products
- Wrappers & Packaging
- Feminine Hygiene Products

Dispose of these items in the trash can!

DID YOU KNOW?

"Flushable" baby or sanitary wipes: the "flushable" claim on the packaging of some sanitary wipes only implies it can be flushed. Once it hits your pipes there is no guarantee. "Flushable" wipes are one of the largest causes of clogs at the Loveland Wastewater Treatment Plant.

TALES FROM THE SEWER...

Loveland's Wastewater Treatment Plant has encountered a host of bizarre objects in the sewer line including:

- Bronze deer antlers
- Horse saddle blanket
- Hair brushes
- Cellular phones
- Wallets and purses
- Remote controller
- Dentures and teeth
- Front fender of an automobile

Keep trash out of your toilet! Only flush toilet paper.



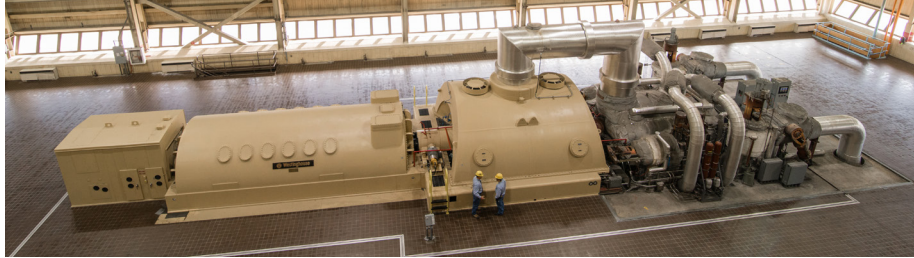
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visit us online...
cityofloveland.org/LWP



RAWHIDE UNIT 1 OUTAGE, BENEFITS FOR LOVELAND CUSTOMERS



Rawhide Unit 1 is among the highest-performing coal units in the country and represents the most reliable source of electricity for Platte River Power Authority's four owner communities. Established in 1983, Rawhide Energy Station remains at the forefront of technology and environmental regulations, often being among the first plants in the nation to install state-of-the-art systems to increase reliability and reduce environmental impact.

Platte River schedules major outages of Unit 1 every three years for maintenance and capital improvements. Staff purchases replacement power from other providers in the region so customers don't experience any interruption in service while needed work takes place. Unit 1 went offline in late September 2018 and work began on the following projects:

Bottom ash system replacement

In 2015, the Environmental Protection Agency announced new regulations restricting the use of water during the disposal of coal ash. The replacement system transfers bottom ash from the boiler via an inclined conveyor system.

Generator overhaul

The existing generator is original to Rawhide Energy Station and served the four owner communities reliably for 35 years. Internal components of the generator are being replaced to improve reliability and extend the unit's life for another 30 to 40 years.

Voltage regulator upgrade

The generator's existing voltage regulator has a single firing circuit to measure and adjust voltage before electricity is transferred to the grid. The upgraded voltage regulator has dual firing circuits so that in the event one fails, the other circuit can take over and customers won't experience a service interruption. The upgraded regulator also comes with new management software and diagnostics.

Boiler tube inspection and replacement

Inspecting and replacing boiler tubes takes place during every outage. Plant engineers and contractors evaluate all the tubes within the 16-story boiler to identify and replace sections that are thinning.

Rawhide Unit 1 will again generate electricity by late November. The projects and upgrades during this scheduled outage ensure that Loveland, Fort Collins, Estes Park and Longmont continue to receive safe, reliable, financially sustainable and environmentally responsible electricity to power their homes and businesses.



DO NOT PUT F.O.G. DOWN THE DRAIN

PREVENT SEWER BACKUP & COSTLY REPAIRS

F.O.G. stands for fats, oils, and grease

FOG is contained in many foods such as cheese, butter, gravy, dressing and dessert.

FOG can be a result of cooking meat and fish or using oil, lard, etc. to cook food.

Use the following practices to avoid a blockage or backup in your sewer line:

Scrape food waste from plates and pans into trash.



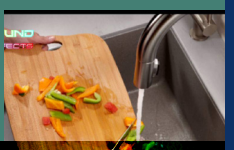
Wipe dry pots, pans, and dishware prior to dish washing.



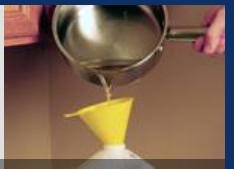
Use screens in sinks & drains to catch food waste.



DO NOT use the garbage disposal for food waste.



Recycle cooking oil. DO NOT overfill containers.



DO NOT use enzymes or emulsifying products.

