



TOWN OF ELIZABETH

MICHAEL DEVOL, PUBLIC WORKS DIRECTOR

TO: Honorable Mayor, Mayor Pro-Tem and Town Board of Trustees
FROM: Mike DeVol, Public Works Director
DATE: April 9, 2024
SUBJECT: Public Works Monitoring Report

***Town Street Paving Improvements Project:**

1. N/A Spring Projects will be presented at a later date.
2. PW contacted CORE Electric to have 2 street lights in town repaired. Repairs have been completed.

***Town Main St. Decorations:**

1. New Winter Banners will be installed the week of January 15th.

***Town Wells, Tanks and Effluent:**

1. See Packet. Upgrade Arapahoe 1 and Lower Dawson 1 Well Pumps. Perform maintenance of well casing screens using brushing and chlorine treatment to remove excess scaling/blockage to ensure maximum performance.
2. Piping for Dawson Well (500 feet) to be replaced due to cracks and pinholes.

***Town Water Line (NON) Emergency Repair:**

1. N/A

***Town Hall/ Repairs/ Landscaping Plan:**

1. Repairs at Town Hall have been completed including handrails.

***Town Walkway Repairs:**

1. PW has completed sidewalk repair at Town Hall.

***Town Street Maintenance/Striping Projects:**

1. Public Works/Contractor will be repairing the Safeway entrance Asphalt for potholes due to Main Waterline Valve boxes settling. Valve boxes will be raised to correct elevations and Asphalt removed and replaced to match proper grades. Work will take place over Spring Break starting April 18, 2024 as weather allows. Sign Boards will notify travelers a week in advance to expect delays. The proper signage for access to Safeway center will be at the All-Way Stop (4 Way) at Elm St and Elizabeth St. The secondary access will be the directional access from Hwy. 86 between the Bank and Sonic. Work was completed 3-18-24 despite snow storm the previous week.

***Town Snow Plowing and Street Sweeping:**

1. Public Works has received 0 complaints about plowing and inconvenience issues. Public Works



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- Continues to inform the citizens about shoveling/snow blowing drive and sidewalk onto Town Streets.
2. Public Works coordinated with Elizabeth Police to make contact with 0 residents and 0 Business Concerning plowing snow into Streets and right of ways, all parties now understand that it is not Permissible per Town Code.
 3. The Town Newsletter included Town Plowing Code and Snow Route "NO PARKING" information.
 4. Town Trucks are fully prepared for the upcoming snow season.
 5. Truck Plows and trucks have had maintenance and preparedness checks performed.
 6. Salt Sand has been stockpiled for this season.
 7. PW has received delivery of SNOW ROUTE signs and posts and will begin installation as time allows.

*Town New Wells at Ritoro/Gold Creek Valley:

1. The new Wells building is complete and PW is planning an Open House Grand Opening once the land Issue has been completed.
2. Landscaping will take place in the Spring (May) of 2024 due to the impending weather. PW will work with the 4 adjacent property owners for their approval of the landscape sketch to ensure that we conceal as much of the building as possible from their views.
3. The Back-up Generator is installed and tested for normal operations.

*Town Trail Project:

1. PW has scheduled a walk-through inspection with our reporting Agency Stantec Engineering for Guidance after the flooding and the loss of previously planted vegetation, bushes and trees.
2. 2023 Reporting has been sent to CDOT and other agencies. PW is awaiting a decision on course of Action(s) that will be required to fulfill our Trail obligations. (#9 below on upcoming projects).
3. Due to the flooding in 2023 it appears that PW will need to fulfill one more year of habitat remediation, With possibly a full 3 years.
4. PW has collected 500 Willow Cuttings for placement along the creek to help recover those lost to floods.

*Gold Creek Lift Station Improvements:

1. Completion of project has begun warranty period and filing completion with CDPHE Permitting.

*Eligibility Surveys for Water and Wastewater Capitol projects have been completed for 2024 and accepted by Colorado Department of Public Health and Environment (CDPHE). The eligibility surveys allow for the town to be in line for any funding that may be available for future projects.

*Gold Creek Wastewater Treatment Plant (GCWWTP)

1. NO CHANGES AS OF THIS REPORT-On going Project/ The new fine screen replacement unit has been installed. The new screen has been in automated operations for three month's with no issues. Epoxy painting of replaced parts continues as weather allows before being placed back in service.



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2. PW has been working on Plant maintenance by drawing down (treating in Train 1) all liquid levels of Train 2/South side of the treatment plant for inspection and repairs as necessary. The Clarifier for Train 2 has been completely emptied hosed and vacuumed out for a clean working area. The clarifier drive motor tested out fine as well as the gear reduction box. There is wear and damage to the Drive Shear Pin and Paddle arms that distribute settled sludge to the bottom of the clarifier for removal through pumping and sent to digestors for final degradation and trucked to farm fields as fertilizer. PW should have the Clarifier back up and fully operational by the end of September dependent on parts shipping.

3. Just a quick review of the Wastewater Plant: It is designed to treat 500,000 gallons of Raw Sewage per day. Train 1 and Train 2 share that equally. Train 1 currently is treating 190,000-200,000 gallons per day while maintaining our minimal 85% reduction constituent removals (currently 93%-99% removal) that are set by CDPHE in our Permit (excellent test for me as an operator and all equipment). Currently we are operating one Train at basically 80% capacity and operating very well. This is a test never completed before as our available capacity is 500,000 gallons. When the time comes that the wastewater Plant is treating at 80% (400,000 gallon) of the Total Capacity the Town must start to show Plant Expansion Plans to CDPHE. The current WTP upgrade Budget is currently in good shape for funding.

Reference of constituent removal: Please see attached Laboratory Sampling Analysis for actual numbers while completing maintenance of one train. Note all numbers/results are shown as milligrams per liter (mg/L) this equates from metric to Standard as parts per million (ppm). Plant is 100% Biological/Bacteria (Bugs) NO CHEMICALS

Bio-chemical Oxygen Demand (BOD) minimum 85% removal (current average 99% removal)

Total Suspended Solids (TSS) minimum 85% removal (current 93%-99% removal)

Nitrogen/Ammonia (NH₃) minimum 85% removal (current 99% removal)

E.Coli maximum 115 parts per million (ppm) (current <1 ppm) U.V. Light neuters bacterial for no reproduction and does not kill the bacterial which in turn means no chemicals and cost savings to the Town residents.

*Town Clean Up Day/ Paint Round-Up/Arbor Day

1. Tentatively Scheduled for May 18, 2024 and a day in the fall undetermined yet.

*Town Public Works News

1. Public Works will have a new employee starting April 10th to join the Water and Sewer team.

*Town Farmers Market:

Event Park Name is Running Creek Park (RCP)



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***Town Parks and Right of Way (ROW):**

1. Porta-Potty will remain at Bandt Park parking area for the Winter season.
2. Bandt Park restrooms are closed for the season and should re-open Mid May.

Upcoming Projects:

1. PW has begun for 2024 the following Annual Reporting:
2. Annual Biosolids has been completed for 2023 and sent to CDPHE.
3. Regulation 85 Nutrient Monitoring/Accepted by CDPHE
4. PW has completed a round of PFAF's (radiation/radiological). Results have been reported to CDPHE.
5. Water Augmentation and Recording
6. Water Lead and Copper sampling
7. Water Constituents Metals Sampling
8. Annual DMR (Daily Monitoring Report) Gold Creek Wastewater Plant
9. Tree City USA Application/ Accepted and approved by Tree City USA/Pending
10. Trail DOLA findings and Inspections/ Addition of Willow Cuttings Planted
11. PW has completed Highway User Tax Fund (HUTF) reporting and data processing.
12. PW is completing Lead and Copper testing per CDPHE guidelines for 2023/2024

Mail Kiosk:

1. Public Works will be installing Solar Street Lights at Mail Kiosk in various locations to aid in nighttime safety and mail collections by residents.
2. Public Works will enhance the recycled asphalt parking area at the Washington St Mail Kiosk

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