City of McCleary
STAFF REPORT

To:	Mayor Miller and City Council
From:	Kevin Trewhella
Date:	October, 2024
Department:	Water and Wastewater

Wastewater:
As you recall in Septembers report I spoke to you about the ongoing Inflow and Infiltration (I&I) problems which were recognized in a letter in 1966 addressed to the city council. Unfortunately, the I&I problem has not resolved itself.

Since it is a very costly endeavor to resolve these problems, I have asked for help with a grant direct funding to resolve the largest portions of the City's I&I problems.

We have received calls from the Department of Ecology stating the EPA wants this resolved due to the Impacts it is having on the WWTP process in the rainy season.

Also, we are in the process of also looking for grant funding from the Department of Energy to convert the WWTP's Biosolids to a renewable energy source. Which is in our Citizens, our City and our Planets best interest.
We are looking for is a grant to convert our current unused digester into an Anaerobic Digester, converters to make the gas into energy and add a vertical composter to the system.

Because Anaerobic digestion is regarded as a credible process due to its economic and technical viability I have put together some notes on the *Benefits of Anaerobic Digestion:*

- **Renewable Energy:** Anaerobic digestion (AD) provides a sustainable and renewable source of energy. Anaerobic digestion produces biogas and digestate to recover energy from biodegradable and moist waste such as food waste and Bio-solids, which can be used for heating fuel, agricultural fertilizer, and more.

- **Waste Reduction:** By converting organic waste into biogas, anaerobic digestion helps reduce landfill waste and anaerobic digestion has less impact on air quality and contributes to minimizing greenhouse gas emissions by producing energy to replace fossil fuels greenhouse gas emissions.
- **Nutrient Recovery:** The digester produces a nutrient-rich byproduct (digestate) that can be used as a fertilizer.

Conclusion

- Anaerobic digestion offers a promising solution for generating electricity from organic waste. By using the principles associated with this technology, we can continue to develop and implement sustainable energy solutions.

Kevin Trewhella