



TO: Mayor and Council

FROM: Craig Hupy, Public Services Area Administrator
Earl Kenzie, Wastewater Treatment Plant Manager

CC: Tom Crawford, CFO
Karen Lancaster, Finance Director
Howard S. Lazarus, City Administrator

SUBJECT: Wastewater

DATE: March 10, 2017

Question #12: Wastewater: sanitary sewer plant odor issued identified, how about Arborview odors? (Councilmember Warpehoski)

Response: Wastewater Treatment Plant (WWTP) staff continue to engage the public in the vicinity of the plant to address reports of offsite nuisance odors through a number of actions. Reports of odors from areas surrounding the WWTP are received by the on-site supervisor's cell phone either by direct calls from the public or by text messages generated from online entries into A2FixIt. Upon receiving a report, WWTP staff immediately investigate the area from where the odor is reported as well as the entire WWTP site to determine whether there is an identifiable source of the odor. Information from these reports and subsequent investigations are logged, including any findings or follow up actions taken. WWTP staff and other stakeholders meet biannually to review the progress of construction of the Facilities Renovations Project (FRP) at the plant and discuss the annual summary of odor reports. Due to the localized and intermittent nature of more recent odor reports, and the lack of a readily identifiable source of odor at the WWTP, the need for an odor study will be assessed after completion of the FRP. This study would include not only the WWTP and sanitary sewer system owned and operated by the City, but would also include sanitary sewer systems owned and operated by other entities in the areas surrounding the WWTP.

The Arborview odors are being addressed by Scio Township. The Township and the City have agreed to a timeline for a capital project to construct a treatment facility that will prevent the odors from forming in the pipe. Scio Township has received approval

from their Board and construction is planned for the summer of 2017. As an interim measure, Scio Township is injecting chemicals to control odors.



TO: Mayor and Council

FROM: Craig Hupy, Public Services Area Administrator
Susan Pollay, DDA Director

CC: Tom Crawford, CFO
Karen Lancaster, Finance Director
Howard S. Lazarus, City Administrator

SUBJECT: Streetlights

DATE: March 10, 2017

Question #13: Street lighting: What is the DDA Contribution to the street light globe/pole/foundation costs identified? (Councilmember Warpehoski)

Response: The DDA is addressing all the streetlights within the South University and Fifth Avenue & Detroit Street project boundaries as indicated below. The FY 18 and FY 19 streetlight budget request includes the LED Globes/Poles/Foundation replacements outside of the project boundaries, which includes in FY 18 Liberty (Main to Fifth) \$225,000 and \$250,000 in FY 19 for E. Washington St.

South University: The DDA is replacing all globes and updating electrical within the project boundaries on South University (East University to Washtenaw). DDA bid the construction project and the construction cost to relocate the poles, install new foundations, and update electrical is about \$74,000. DDA is purchasing globes separately – currently estimated at \$132,000 for globes, but more precise cost estimates will be received later in March.

Fifth Avenue/Detroit: The DDA is addressing all streetlights within the project boundaries on 5th Avenue and Detroit Street (between Catherine and Kingsley). Within the DDA project budget are costs (\$350,000 - \$400,000) for streetlight poles, globes, and electrical work. The project will be bid in fall 2017, at which time the DDA will have more precise cost estimates.



TO: Mayor and Council

FROM: Craig Hupy, Public Services Area Administrator
Brian Steglitz, Water Treatment Plant Manager

CC: Tom Crawford, CFO
Karen Lancaster, Finance Director
Howard S. Lazarus, City Administrator

SUBJECT: Hydro

DATE: March 10, 2017

Question #14: Craig indicated that the Superior dam roughly breaks even in terms of hydropower generation. Does that estimate include capital costs such as the upcoming concrete repairs and gate painting? (Councilmember Warpehoski)

Response: The City makes approximately \$150,000 per year in revenue from power generation at Superior Dam. Operations and maintenance costs are approximately \$100,000 per year. In addition to annual operation and maintenance expenses, a major overhaul and replacement of wearable components is recommended every ten years. The cost of this overhaul is about \$500,000. If the City nets approximately \$50,000 per year from Superior Dam, this net revenue is typically sufficient to cover our 10-year preventive maintenance activities. This makes the power generation portion approximately break-even.

In addition to maintaining the power production components, there are also investment needs associated with the physical infrastructure. These items include coating and repair of both structural steel and concrete. In the next four years, these costs are estimated to be just over \$1,000,000. The revenue generated by power production is not sufficient to cover these capital needs. Depending on the condition of the infrastructure, projects of this magnitude tend to surface every 10 to 20 years.



TO: Mayor and Council

FROM: Craig Hupy, Public Services Area Administrator

CC: Tom Crawford, CFO
Karen Lancaster, Finance Director
Howard S. Lazarus, City Administrator

SUBJECT: Sanitary Sewer

DATE: March 10, 2017

Question #15: Strategic goal crosswalk: I see that storm sewers have a goal of cleaning 20% of 24" and smaller lines. What is the cleaning cycle for larger than 24"? Is there a similar goal for sanitary sewer? (Councilmember Warpehoski)

Response: We purposefully did not include larger pipes because often larger pipes are self-cleaning. As we are in an area cleaning the smaller pipes, we will pop manhole to visually inspect the larger pipe to see if it needs cleaning, and then clean as necessary. We will revisit this with the results of the asset management project. There is not currently similar goals for Sanitary Sewer. We are working these next couple of years to develop our baseline, using data we are currently gathering in the field and as part our asset management and lining projects.

We have established rodding and jetting for those areas we know need more frequent attention and are currently in the process of establishing a schedule for the majority of pipes. Our priority is to first clean things that have not been cleaned in at least 5 years.



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SUBJECT: Wastewater Treatment and Water Treatment

DATE: March 10, 2017

Question #16: How do the wastewater treatment and water treatment public engagement goals improve quality of life for ratepayers? (Councilmember Warpehoski)

Response: The City's public engagement campaign connects residents with critical drinking and waste water services. It raises awareness and improves knowledge about the infrastructure that serve as a foundation for the high quality of life in Ann Arbor. Public engagement, through A2 Fix It, plant tours, educational material, or direct customer service, builds a relationship and facilitates a discussion. This relationship builds trust and the ability to address complicated issues.

In addition, the City's public engagement campaign educates customers on what it takes to deliver safe, reliable, and affordable drinking water, and to collect, treat, and discharge high quality treated wastewater back into the environment. Engaged and informed customers also contribute to the cost-effective collection and treatment of wastewater by understanding what is and is not appropriate for discharge to the City's sanitary sewer system, therefore saving the City and themselves money.