



Investment to Expand Value of City Asset

Release Date: Wednesday, March 23, 2016

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The City of Dayton Department of Water will expand and update its lime reclamation facility, resulting in cost savings, new resources for water utilities throughout southwest Ohio, and reduction of waste sent to landfills.

The expansion is made possible by approval of a \$9.1 million contract by the City Commission at its March 23 meeting. The lime reclamation facility is located at the Ottawa Water Treatment Plant, just east of downtown Dayton.

Lime (calcium oxide) is used to treat the "hard" (heavily mineralized) water drawn from Dayton's wellfields. When the water treatment process is completed, surplus lime residuals remain. The residuals can be reclaimed through recalcination for reuse in the water softening process.

The Department of Water has operated a lime reclamation facility since 1957 and is one of just two public water utilities in the nation with the ability to reclaim lime.

Dayton offers reclaimed lime at a very competitive cost and is currently selling excess lime to nine water utilities. An additional 12 public and private organizations have expressed an interest in procuring lime from Dayton.

The expansion will allow other approved water treatment plants to recycle their residuals and increase Dayton's sales of excess lime to utilities and businesses for their own use.

Improvements included in the lime reclamation facility project will include a new wet residuals building and a new conveyance system, in addition to new electrical systems and equipment including pumps and mixers.

It is estimated that the City will earn approximately \$1.6 million on average annually through 2035, with a net return on investment beginning in year eight. Following recovery of the initial investment, the City will earn approximately \$1.6 million on average annually through 2035. The useful life of the assets developed in the project will be 40 to 50 years (or 25 years for the conveyance system).

The lime reclamation facility expansion will be funded by Department of Water capital funds.

"This project makes Dayton's lime kiln truly a regional asset, serving other water treatment systems in southwest Ohio and beyond," said Tammi Clements, Director of Dayton's Department of Water. "Advancing this project demonstrates the City's commitment to innovation and sustainable green practices."

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