



Louisville Metro Planning and Design Services
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OUTER LOOP RECYCLING & DISPOSAL FACILITY

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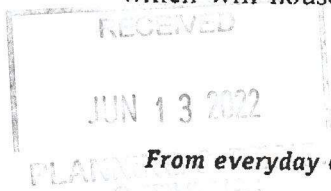
**RE: Outer Loop Recycling and Disposal Facility
Louisville, Jefferson County, Kentucky
Modified Conditional Use Permit**

To Whom It May Concern:

Waste Management of Kentucky, LLC ("Company") is the owner of property located at 2673 Outer Loop Road in Louisville, Kentucky. The property is subject to an existing conditional use permit (the "Permit") allowing the operation of the Outer Loop Recycling and Disposal Facility ("OLRDF"), a non-hazardous solid waste landfill. The Permit was last modified in July 2020 to expand the hours of operation at the OLRDF (see Case No. 20-MCUP-0004). The Company is now requesting a modification of the Permit to expand and upgrade its existing wastewater sequential batch reactor (SBR) treatment facility. This expansion/upgrade will enable and enhance leachate pre-treatment before discharge to the Louisville Metropolitan Sewer District (MSD).

Expansion/Upgrade of Leachate Pre-Treatment

The SBR facility is currently contained within an approximately 36,000 square foot area at the OLRDF. Most of the upgrade will occur within the existing footprint of the facility and will consist primarily of replacing and repurposing several of the existing biological treatment tanks from sequential batch reactors to membrane biological reactors (MBRs), as well as replacing the existing aged equalization tank (Tank 200), and converting it to another biological treatment reactor, specifically a moving bed biofilm reactor (MBBR). Organic (COD/BOD), nitrogen (ammonia), phosphorus, and ancillary metals removal/treatment will be provided by an initial MBBR followed by four (4) bioreactors operated in parallel that are part of an MBR system. Both MBBR and MBR systems are well suited to treat highly variable wastewaters (flow and strength) such as landfill leachates that require organics and nutrient removal. A slight 6,500 square foot expansion of the existing facility footprint will be required to accommodate additional equipment to support upgraded biological treatment, which will include a dissolved air flotation (DAF) clarifier, five (5) ultra filter (UF) membrane units, a permeate tank, a bioreactor feed tank, flow splitter box and structure, a sludge dewatering press, and various compressors, blowers, chemical feed and storage systems, and pumps to support the operation. An attached drawing depicts the added infrastructure and equipment to support this upgrade outside of the existing facility footprint. Also attached is a drawing depicting the location of the expansion in the context of the overall site. The added footprint includes a new set of stairs outside of the existing containment, three new blowers outside of the containment area just north of Tank 700, and a new building which will house the dewatering press, the UF equipment, DAF, an office and storage area. a



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restroom, and supporting equipment such as an air compressor, a chemical storage area, and cleaning tanks.

Construction and Operation

The Company is currently working on the permit and design of the above-described plant upgrade, with construction proposed to commence at the end of 2022 or beginning of 2023. The site will be seeking additional permit approvals of its existing permits through the Louisville Metropolitan Sewer District, the KY Division of Waste Management, and the Louisville Air Pollution Control District. Since most of the expansion/upgrade is a conversion of biological treatment, minimal impact is expected from the project.

We respectfully request that this matter be docketed for action at the Board of Zoning Adjustment's next available business session after the application materials have been determined to be complete.

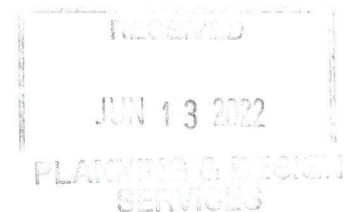
Feel free to contact me at 502-710-0516 or mburnett@wm.com if you have any questions or need further information.

Sincerely,

Waste Management of Kentucky, LLC



Marie Burnett
Senior District Manager



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