



MIAMI VALLEY

Regional Planning Commission

10 North Ludlow St., Suite 700
Dayton, Ohio 45402-1855

t: 937.223.6323
f: 937.223.9750
TTY/TDD: 800.750.0750
www.mvrpc.org

MEMORANDUM

From: MVRPC Staff
To: Areawide Facility Planning Subcommittee
Date: December 16, 2016
Subject: Upcoming Meeting Preparation

In preparation for the January 24, 2017 meeting of the Areawide Facility Planning Subcommittee (AFPSC), this memo provides background on the AFPSC and an overview of the two proposed Facility Planning Area boundary changes that will be before the Subcommittee at that meeting.

Water Quality Planning and the AFPSC

The Miami Valley Regional Planning Commission conducts water quality planning activities under contract with Ohio EPA for five counties (Darke, Greene, Miami, Montgomery, and Preble). Central to this work is the maintenance and implementation of the Areawide Water Quality Management Plan for the Miami Valley (AWQMP). The AWQMP is a multi-chapter plan that identifies critical water resources, potential threats to these resources, and policies, programs, and implementing agencies intended to protect and/or enhance these water resources. The core of the AWQMP addresses regional wastewater treatment planning, including the mapping of wastewater Facility Planning Areas (FPA) and the assignment of designated management agencies (DMA). The DMAs provide wastewater collection and treatment services and are responsible for long term, detailed planning within their designated FPA.

The AFPSC is a subcommittee of MVRPC comprised primarily of the DMAs throughout the five counties. The AFPSC serves as the primary advisory committee to the Miami Valley Regional Planning Commission for matters related to updates or maintenance of the AWQMP. Proposed updates to the AWQMP are first reviewed by the AFPSC, then subsequently by the MVRPC Technical Advisory Committee. MVRPC staff incorporates comments provided by these two committees in its recommendations to the Board of Directors. All changes to the AWQMP must be approved by the MVRPC Board of Directors to come into effect.

Before the AFPSC are two proposed updates to Facility Planning Area boundaries: one in Greene County along the Indian Ripple Road corridor, the other in Montgomery County encompassing the area of and around the Dayton International Airport.

Indian Ripple Road Corridor

The Greene County Sanitary Engineering Department (GCSED) has proposed a set of boundary adjustments between three existing Facility Planning Areas: Beaver Creek, Sugar Creek, and Eastern Regional. GCSED serves as the designated management agency for the first two of these FPA; the third, Eastern Regional, is under the management of



Montgomery County Environmental Services (MCES). The current and proposed FPA boundaries are presented in the attached maps.

An issue came to light as permits-to-install for the Scarborough River West development were reviewed by MVRPC and Ohio EPA. The development sits right on the boundary between the Beavercreek and Sugarcreek FPA. Earlier phases of the development were constructed with wastewater infrastructure that connected (properly) to the Beavercreek wastewater treatment facility. These later phases were planned for the Sugarcreek side of the boundary, but connection to the existing sanitary sewers for the development is a better engineering and fiscal approach.

A minor boundary adjustment would have been sufficient for this specific issue, but GCSED instead chose to review an extended section of the boundary between these two FPAs to determine if there were other areas that were likely to need such adjustments in the future. This review, based on existing infrastructure and engineering judgment, resulted in the proposed changes along this steadily developing corridor. In fact, the review extended west to the retail and commercial development known as The Greene, where wastewater services are also provided by MCES. The proposed updates change the boundaries with the Eastern Regional FPA based exclusively on the presence of existing infrastructure.

MVRPC is informed that MCES has been closely involved in the development and review of these changes as proposed by GCSED, and that the DMA for Eastern Regional has no objections to the proposal. The bulk of the proposed changes occur between the two FPA managed by the same DMA: Beavercreek and Sugarcreek. The Beavercreek FPA is set to gain area and the Sugarcreek FPA is losing area. MVRPC has been assured that the additional flows that can be anticipated from the area moving to the Beavercreek FPA can be handled by the facility within the current limits of its NPDES permit. In summary, this proposed change to FPA boundaries along the Indian Ripple Road corridor makes sense from an engineering and fiscal standpoint, and assures continued protection of water resources in the upper Little Miami River watershed.

Dayton International Airport

The City of Dayton, owner and operator of the Dayton International Airport (DIA), seeks to expand its current FPA boundary to include the airport and selected other properties surrounding the airport. Currently this area is within the FPA of, and is served by, the Tri-Cities Wastewater Authority. The included maps detail the current and proposed boundaries of the affected FPAs.

Ordinary wastewater generated at DIA is currently channeled through a metered connection point with sanitary sewers in the City of Vandalia (a member of Tri-Cities). These flows are conveyed to the Tri-Cities wastewater treatment facility for treatment. Aircraft de-icing fluids used during cold weather months at DIA are collected separately from ordinary wastewater and are conveyed through a connection with sanitary sewers owned by Montgomery County to the City of Dayton sewer system and then ultimately to Dayton's water reclamation facility for treatment. This split of responsibilities has been in place since the 1990's. The change proposed by the City of Dayton would not necessarily change these facts on the ground right away, but they would place planning and decision-making authority for wastewater issues at



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DIA in the hands of the City of Dayton, the owner of the airport. The August 1, 2016 submission from the City of Dayton indicates an intention to convey 100 percent of wastewater flows from DIA to the Dayton water reclamation facility, eventually.

The submissions from the City of Dayton provide information supporting this planning area change. Central to this proposal is the available capacity at the Dayton water reclamation facility. The facility has the largest permitted capacity in the Miami Valley at 72 million gallons per day. Current average flows to the facility represent only about 60 percent of that design capacity. Thus Dayton is confident that the current facility can accept and treat the anticipated flows from DIA under this proposed change. Materials provided by Dayton also indicate, without detail, “treatment costs and Tri-Cities’ limited capacity” as hindrances to further development of DIA and adjacent properties. Finally, Dayton references numerous planning studies and documents which indicate nearly a decade of attention to the needs of DIA’s wastewater collection systems. These documents include:

- City of Dayton Sanitary Sewer Master Plan (2008);
- Airport-JEDD Feasibility Analysis for Water and Sanitary Sewer Service (2008);
- DIA Sanitary Sewer Pump Station Study (2009); and
- Sanitary Master Planning at DIA (2013).

Sign-in sheets from a July 15, 2016 presentation by the City of Dayton, provided in the November 8, 2016 submission, indicate three attendees from the Tri-Cities Wastewater Authority. The provided presentation slides discuss water and wastewater issues at DIA, but do not specifically state that Dayton intended to propose this FPA boundary change. MVRPC staff is not aware if Tri-Cities Wastewater Authority has taken any position on this proposed change. Knowledge and understanding of any such position by Tri-Cities will be critical to the AFPSC’s consideration of this proposal.

Meeting Details

The AFPSC is scheduled to meet for the purpose of considering these proposed changes at **9:30 AM on Tuesday, January 24, 2017**. The meeting will be held at the Goodwill-Easter Seals building at **660 South Main Street, Dayton, Ohio, 45402**. Free parking is available in the rear of the building.

The DMAs proposing these changes will be invited to make short presentations about the proposals, and to take questions from the Subcommittee. Time for open discussion of the proposals will be included on the meeting agenda.

The materials received by MVRPC are available for review at our offices on Ludlow Street in Dayton or can be viewed online at the MVRPC web site. Follow this link for access to the materials: <http://www.mvrpc.org/environment/areawide-water-quality-management-plan/areawide-facility-planning-subcommittee>.

Please contact Matt Lindsay, Manager of Environmental Planning at (937) 531-6548 to arrange for reviewing the materials in person.