

The regular meeting of the Board of Directors of The Miami Conservancy District (MCD) sitting as the Board of Directors of The Aquifer Preservation Subdistrict (APS) was called to order at 12:25 p.m. by Beth G. Whelley, President, with Mark G. Rentschler, Vice President and William E. Lukens, member, present. The meeting was held at the Marriott located at 1414 South Patterson Blvd. in Dayton.

Members of the staff in attendance at the regular meeting: Janet M. Bly, General Manager; Rhonda K. Snyder, Secretary; James B. Casper, Manager, Operations and Maintenance; Michael P. Ekberg, Manager, Water Resources Monitoring and Analysis; Daniel K. Foley, Great Miami Riverway Director (teleconference); Sarah Hippensteel Hall, Manager, Watershed Partnerships; Angela J. Manuszak, Special Projects Coordinator (teleconference); Kenneth P. Moyer, Treasurer; Donald P. O'Connor, Chief Engineer; and Shannon E. Phelps, Manager of Administration.

Legal counsel in attendance: W. Chip Herin III, Coolidge Wall Co., LPA.

Guests in attendance: None

COMPLIANCE WITH SUNSHINE LAW AND BYLAWS

The meeting was held in compliance with the Sunshine Law and MCD and Subdistrict Bylaws. The meeting information was posted on MCD's website. Miami Valley news media and individuals requesting such notification were notified of the meeting by electronic mail dated December 8, 2021.

MINUTES

The Minutes of the Board of Directors September 30, 2021, meeting were provided to members of the Board for review and comment.

M 2021-141

The Board of Directors, on motion by Mr. Rentschler and seconded by Mr. Lukens, unanimously approved the Minutes for September 30, 2021.

Next, Mr. Ekberg presented updates for reports and studies. Mr. Casper reported on the establishment of a prairie at Germantown Dam.

2021 Groundwater Quality Survey and Contaminant Trends Study Report

MCD staff compiled a report *2021 Groundwater Quality Survey and Contaminant Trends Study Report* documenting the results of all groundwater sampling conducted in 2021. The 2021 results are summarized below.

- Groundwater in the sampled wells has a calcium-magnesium-bicarbonate composition.
- All samples collected in this study had measured water hardness in the very hard range.

- Levels of constituents detected in groundwater met all applicable human-health benchmarks in the samples collected from 7 of the 12 monitoring wells.
- Parameters that equaled or exceeded a human-health benchmark in at least one groundwater sample included arsenic, *E. coli*, lithium, manganese, and nitrate.
- Parameters detected in one or more groundwater samples that may be indicative of anthropogenic (human) sources of contamination included chloride, nitrate, sodium, and trichloroethene.
- Naturally occurring contaminants detected include arsenic, iron, hardness, manganese, and total dissolved solids.

Overall, the sampling results were consistent with previous results which show good groundwater quality with limited but detectable anthropogenic impact and presence of nuisance contaminants. Nuisance contaminants in groundwater include iron, hardness, manganese, and total dissolved solids. These constituents do not typically present a human health risk. They may however require public water systems and businesses to provide additional treatment in order to limit aesthetic impacts as well as impacts to infrastructure.

Increasing Groundwater Salinity Blog

MCD and Greater Cincinnati Water Works staff posted a blog about rising groundwater salinity in the Great Miami River Watershed. The blog can be accessed on the MCD website. The blog also appeared in the fall issue of *The Ohio Water Table* a publication of the Water Management Association of Ohio.

Characterizing Surface Water and Groundwater Interaction for Sustainable Water Resources Management in Southwestern Ohio

MCD's Mike Ekberg was a co-author along with University of Dayton professor Dr. Zelalem Bedaso and University of Dayton student researcher Caroline Johnstone on a paper accepted for publication in the journal *Sustainable Water Resources Management*. The paper presented the use of stable water isotopes, hydrogeochemistry, and water level data to track seasonal and spatial variations in surface water and groundwater interactions in the buried valley aquifer system near Dayton, Ohio. MCD's Krystal Lacy was recognized in the acknowledgments section of the paper for her contributions to the research project.

Dayton Water Quality Study and Infrastructure Review

LimnoTech completed a summary report of the Dayton Water Quality and Infrastructure Review for the Dayton Water User Committee. The report is now accessible on the MCD website. The completion of the report was the final deliverable for the project. The Dayton Water Quality Study and Infrastructure Review project is now complete.

Germantown Prairie

APS funds are being used to establish a prairie near the Germantown Dam. The Conservationist LLC was hired to begin work at the Germantown prairie. The contractor sprayed herbicide to kill off existing fescue and weeds but covered the existing stands of milkweed to preserve it so it will be included in the new prairie. The area will be sprayed again in the spring of 2022 and if conditions are right, it will be planted in late spring of 2022 with a mix of pollinators and native plants that the contractor will best suit the growing area. The area will need 1 or 2 maintenance mows in the first year to control early weed growth.

FUTURE BOARD MEETING

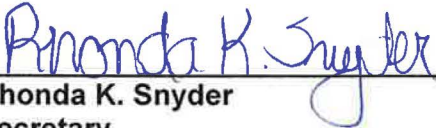
The Board members set Thursday, March 10, 2022, for the next regular meeting of the Board of Directors of The Miami Conservancy District sitting as the Board of Directors of The Aquifer Preservation Subdistrict.

ADJOURN

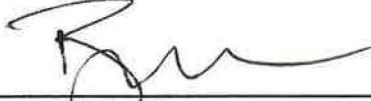
There being no further business, the meeting was adjourned by unanimous consent.

ATTEST:

APPROVED:



Rhonda K. Snyder
Secretary



Beth G. Whelley
President