

*Protecting Our Water Environment*



*Metropolitan Water Reclamation District of Greater Chicago*

***MONITORING AND RESEARCH  
DEPARTMENT***

***REPORT NO. 24-26***

***HANOVER PARK WATER RECLAMATION PLANT***

***FISCHER FARM MONITORING REPORT***

***FOR SECOND QUARTER 2024***

***SPECIAL CONDITION 2***

***July 2024***

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Edward W. Podczewski, P.E.  
Director of Monitoring and Research

July 30, 2024

Ms. Catherine Siders  
Illinois Environmental Protection Agency  
Bureau of Water  
DWPC Compliance Section #19  
1021 North Grand Avenue East  
P.O. Box 19276  
Springfield, Illinois 62794-9274

Dear Ms. Siders:

Subject: Hanover Park Water Reclamation Plant – Illinois Environmental Protection Agency  
Permit No. 2022-SC-66896, Special Condition 2 Monitoring Report for April, May, and  
June 2024

The attached table contains the monitoring data for the Hanover Park Water Reclamation Plant (WRP) Fischer Farm site for April, May, and June 2024, as required by Illinois Environmental Protection Agency (IEPA) Operating Permit No. 2022-SC-66896, Special Condition 2. Analytical data for well water samples collected during the quarter are presented in [Table 1](#).

Based on the investigation of historical high levels of ammonia nitrogen (NH<sub>3</sub>-N) plus nitrite+nitrate nitrogen (NO<sub>2</sub><sup>-</sup>+NO<sub>3</sub><sup>-</sup>-N) in Well 7 during past monitoring, it appears that the source of these high levels is seepage from adjacent lagoons and subsurface drainage associated with supernatant application, both of which have high NH<sub>3</sub>-N levels. Since implementing management practices to reduce the loading in adjacent lagoons and stop all applications of supernatant and biosolids in the closest farm field (Field 7), NH<sub>3</sub>-N plus NO<sub>2</sub><sup>-</sup>+NO<sub>3</sub><sup>-</sup>-N in Well 7 has shown a decreasing trend, but with some significant fluctuation. We will continue to implement these practices and evaluate this trend.

The data reported are as follows:

[Table 1](#): Analysis of Water From Monitoring Wells W-5, W-6, W-7, and W-8 at the Hanover Park Fischer Farm Site Sampled in May 2024.

[Figure 1](#): Map of Fields and Wells at the Hanover Park Fischer Farm Site of the Metropolitan Water Reclamation District of Greater Chicago.

Very truly yours,



Albert Cox, Ph.D.  
Environmental Monitoring and Research Manager  
Monitoring and Research Department

AC:lf  
Attachment  
cc: Mr. T. Bennett, IEPA/Mr. B. Fleming, IEPA  
Mr. K. Middleton, USEPA, Region 5  
Mr. J. Chavich/Mr. B. Kaunelis  
Mr. P. Desai/Dr. H. Zhang

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**HANOVER PARK WATER RECLAMATION PLANT  
FISCHER FARM MONITORING REPORT  
FOR SECOND QUARTER 2024  
SPECIAL CONDITION 2**

**By**

**Benjamin Morgan  
Environmental Soil Scientist**

**Albert Cox  
Environmental Monitoring and Research Manager**

TABLE 1: ANALYSIS OF WATER FROM MONITORING WELLS W-5, W-6, W-7, AND W-8 AT THE HANOVER PARK FISCHER FARM SITE SAMPLED IN MAY 2024<sup>1</sup>

	Unit	W-5	W-6	W-7	W-8
pH <sup>2</sup>		8.0	7.8	8.0	8.3
EC	mS m <sup>-1</sup>	74	74	76	55
Cl <sup>-</sup>	mg L <sup>-1</sup>	18	16	20	10
SO <sub>4</sub> <sup>2-</sup>	"	97	114	115	53
Alkalinity as CaCO <sub>3</sub>	"	310	296	295	251
TKN	"	<1.00	<1.00	<1.00	<1.00
NH <sub>3</sub> -N	"	<0.30	0.36	0.33	0.44
NO <sub>2</sub> <sup>-</sup> +NO <sub>3</sub> <sup>-</sup> -N	"	<0.500	<0.500	<0.500	<0.500
Total P	"	<0.15	0.53	<0.15	<0.15
Cd	"	<0.002	<0.002	<0.002	<0.002
Cr	"	<0.004	<0.004	<0.004	<0.004
Cu	"	0.024	0.092	0.011	<0.002
Fe	"	3.13	19.16	3.4	0.47
Mn	"	0.031	0.128	0.048	0.018
Ni	"	<0.002	0.003	<0.002	<0.002
Zn	"	<0.010	0.018	<0.010	0.010

<sup>1</sup>Sampled on May 21, 2024.

<sup>2</sup>pH was measured beyond 15-minute holding time.

FIGURE 1: MAP OF FIELDS AND WELLS AT THE HANOVER PARK FISCHER FARM SITE OF THE METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

