

Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

***MONITORING AND RESEARCH
DEPARTMENT***

REPORT NO. 24-02

HANOVER PARK WATER RECLAMATION PLANT

FISCHER FARM MONITORING REPORT FOR

FOURTH QUARTER 2023:

SPECIAL CONDITION 2

January 2024

Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

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January 12, 2024

Director of Monitoring and Research

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 October,
November, and December 2023

The attached table contains the monitoring data for the Hanover Park Water Reclamation Plant (WRP) Fischer Farm site for October, November, and December 2023, 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](#).

Since implementing management practices to reduce the loading in adjacent biosolids lagoons and stop all applications of supernatant and biosolids in the closest farm field (Field 7), $\text{NH}_3\text{-N}$ plus $\text{NO}_2\text{-N} + \text{NO}_3\text{-N}$ in Well 7 has shown a decreasing trend. 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 November 2023.

[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

EWP:HZ:AC:lf
Attachment
Mr. J. Patel, Manager, IEPA – Des Plaines
Mr. T. Bennett, IEPA
Mr. B. Fleming, IEPA
Mr. K. Middleton, USEPA, Region 5
Mr. J. Chavich/Mr. B. Kaunelis
Mr. A. Desai/Dr. H. Zhang

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**HANOVER PARK WATER RECLAMATION PLANT
FISCHER FARM MONITORING REPORT FOR
FOURTH QUARTER 2023:
SPECIAL CONDITION 2**

By

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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 NOVEMBER 2023¹

	Unit	W-5	W-6	W-7	W-8
pH ²		7.9	7.9	8.0	8.3
EC	mS m ⁻¹	74	73	42	57
Cl ⁻	mg L ⁻¹	19	19	30	11
SO ₄ ²⁻	"	99	113	61	61
Alkalinity as CaCO ₃	"	312	296	117	265
TKN	"	<1.00	<1.00	1.29	<1.00
NH ₃ -N	"	0.30	<0.300	0.35	0.37
NO ₂ ⁻ +NO ₃ ⁻ -N	"	<0.50	<0.50	<0.50	<0.50
Total P	"	<0.15	<0.15	<0.15	<0.15
Cd	"	<0.002	<0.002	<0.002	<0.002
Cr	"	<0.004	<0.004	<0.004	<0.004
Cu	"	0.026	0.005	0.006	0.015
Fe	"	3.18	2.16	4.51	1.14
Mn	"	0.035	0.034	0.156	0.022
Ni	"	<0.002	<0.002	0.004	<0.002
Zn	"	<0.010	<0.010	0.050	<0.010

¹Sampled on November 15, 2023.

²pH 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

