

Protecting Our Water Environment



Metropolitan Water Reclamation District of Greater Chicago

***MONITORING AND RESEARCH
DEPARTMENT***

REPORT NO. 24-03

HANOVER PARK WATER RECLAMATION PLANT

FISCHER FARM MONITORING REPORT FOR

FOURTH QUARTER 2023:

SPECIAL CONDITION 4

January 2024

Protecting Our Water Environment

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CECIL LUE-HING RESEARCH AND DEVELOPMENT COMPLEX
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Edward W. Podczewski, P.E.

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 4 Monitoring Report for October,
November, and December 2023 – Discharge Monitoring Report (DMR)

This Discharge Monitoring Report (DMR) is to report analyses of biosolids applied to 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 4. We are currently unable to submit this report to the NetDMR system as directed in Special Condition 4, as this permit number is not yet available in the NetDMR system per communication with IEPA staff.

The attached DMR presents analytical data for liquid biosolids applied to Hanover Park WRP Fischer Farm fields during October 2023.

Very truly yours,

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

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

Metropolitan Water Reclamation District of Greater Chicago
100 East Erie Street Chicago, Illinois 60611-2803 (312) 751-5600

**HANOVER PARK WATER RECLAMATION PLANT
FISCHER FARM MONITORING REPORT FOR
FOURTH QUARTER 2023:
SPECIAL CONDITION 4**

By

**Benjamin Morgan
Environmental Soil Scientist**

**Guanglong Tian
Principal Environmental Scientist**

**Albert Cox
Environmental Monitoring and Research Manager**

**Heng Zhang
Assistant Director of Monitoring and Research
Environmental Monitoring and Research Division**

Paperwork Reduction Act Notice

Public reporting burden for this collection of information is estimated to vary from a range of 10 hours as an average per response for some minor facilities, to 110 hours as an average per response for some major facilities, with a weighted average for major and minor facilities of 18 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including strategies for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

General Instructions

1. If form has been partially completed by preprinting, disregard instructions directed at entry of that information already preprinted.
2. Enter "*Permittee Name/Mailing Address* (and facility name/location, if different)," "Permit Number," and "Discharge Number" where indicated. (A separate form is required for each discharge.)
3. Enter dates beginning and ending "*Monitoring Period*" covered by form where indicated.
4. Enter each "*Parameter*" as specified in monitoring requirements of permit.
5. Enter "*Sample Measurement*" data for each parameter under "*Quantity*" and "*Quality*" in units specified in permit. "*Average*" is normally arithmetic average (geometric average for bacterial parameters) of all sample measurements for each parameter obtained during "*Monitoring Period*"; "*Maximum*" and "*Minimum*" are normally extreme high and low measurements obtained during "*Monitoring Period*." (Note to municipals with secondary treatment requirement: Enter 30-day average of sample measurements under "*Average*," and enter maximum 7-day average of sample measurements obtained during monitoring period under "*Maximum*.")
6. Enter "*Permit Requirement*" for each parameter under "*Quantity*" and "*Quality*" as specified in permit.
7. Under "*No Ex*" enter number of sample measurements during monitoring period that exceed maximum (and/or minimum or 7-day average as appropriate) permit requirement for each parameter. If none, enter "0."
8. Enter "*Frequency of Analysis*" both as "*Sample Measurement*" (actual frequency of sampling and analysis used during monitoring period) and as "*Permit Requirement*" specified in permit. (e.g., Enter "*Cont*," for continuous monitoring, "*1/7*" for one day per week, "*1/30*" for one day per month, "*1/90*" for one day per quarter, etc.)
9. Enter "*Sample Type*" both as "*Sample Measurement*" (actual sample type used during monitoring period) and as "*Permit Requirement*," (e.g., Enter "*Grab*" for individual sample, "*24HC*" for 24-hour composite, "*N/A*" for continuous monitoring, etc.)
10. Where violations of permit requirements are reported, attach a brief explanation to describe cause and corrective actions taken, and reference each violation by date.
11. If "*no discharge*" occurs during monitoring period, enter "No Discharge" across form in place of data entry.
12. Enter "*Name/Title of Principal Executive Officer*" with "*Signature of Principal Officer of Authorized Agent*," "*Telephone Number*," and "*Date*" at bottom of form.
13. Mail signed Report to Office(s) by date(s) specified in permit. Retain copy for your records.
14. More detailed instructions for use of this *Discharge Monitoring Report (DMR)* form may be obtained from Office(s) specified in permit.

Legal Notice

This report is required by law (33 U.S.C. 1318; 40 C.F.R. 125.27). Failure to report or failure to report truthfully can result in civil penalties not to exceed \$10,000 per day of violation; or in criminal penalties not to exceed \$25,000 per day of violation, or by imprisonment for not more than one year, or by both.

DISCHARGE MONITORING REPORT (DMR)

NAME Metropolitan Water Reclamation District of Greater Chicago
ADDRESS 100 East Erie Street
Chicago, Illinois 60611

2022-SC-66896 Special Condition 4
PERMIT NUMBER

DISCHARGE NUMBER

FACILITY Hanover Park Water Reclamation Plant
Fischer Farm Site
LOCATION 1220 Sycamore Avenue
Hanover Park, Illinois 60133

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2023	10	01	FROM	2023	12	31

NOTE: Read instructions before

PARAMETER	SAMPLE / PERMIT REQUIREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION ¹				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
pH	SAMPLE				7.2	7.2	7.2			1	1WkC ²
	PERMIT REQUIREMENT				N/A	N/A	N/A			1 / 90	NS ³
% Total solids (by weight)	SAMPLE				4.96	4.96	4.96	%		1	1WkC
	PERMIT REQUIREMENT				N/A	N/A	N/A			1 / 90	NS
% Volatile solids (% of total solids)	SAMPLE				65.2	65.2	65.2	%		1	1WkC
	PERMIT REQUIREMENT				N/A	N/A	N/A			1 / 90	NS
Volatile acids	SAMPLE				242	242	242	mg/kg		1	1WkC
	PERMIT REQUIREMENT				N/A	N/A	N/A			1 / 90	NS
Total Kjeldahl nitrogen	SAMPLE				56,397	56,397	56,397	mg/kg		1	1WkC
	PERMIT REQUIREMENT				N/A	N/A	N/A			1 / 90	NS
Ammonia nitrogen	SAMPLE				18,880	18,880	18,880	mg/kg		1	1WkC
	PERMIT REQUIREMENT				N/A	N/A	N/A			1 / 90	NS
Total phosphorus	SAMPLE				24,515	24,515	24,515	mg/kg		1	1WkC
	PERMIT REQUIREMENT				N/A	N/A	N/A			1 / 90	NS

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Albert Cox TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.		TELEPHONE		DATE		
			708	588-4068	2024	01	12
		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)¹ Analytical results for liquid biosolids applied in October 2023.

²One-week composite: a single composite of biosolids applied on October 7-11, 2023.

³Sample type not specified. The permit requirement is to "analyze the sludge applied from the storage lagoons or digesters on a quarterly basis..."

DISCHARGE MONITORING REPORT (DMR)

NAME Metropolitan Water Reclamation District
of Greater Chicago
ADDRESS 100 East Erie Street
Chicago, Illinois 60611

2022-SC-66896 Special Condition 4
PERMIT NUMBER

DISCHARGE NUMBER

FACILITY Hanover Park Water Reclamation Plant
Fischer Farm Site
LOCATION 1220 Sycamore Avenue
Hanover Park, Illinois 60133

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2023	10	01	FROM	2023	12	31
			TO			

NOTE: Read instructions before

PARAMETER	SAMPLE PERMIT REQUIREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION ¹				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
Cadmium	SAMPLE				1.09	1.09	1.09	mg/kg		1	1WkC ²
	PERMIT REQUIREMENT				N/A	N/A	N/A			1 / 90	NS ³
Chromium	SAMPLE				36.8	36.8	36.8	mg/kg		1	1WkC
	PERMIT REQUIREMENT				N/A	N/A	N/A			1 / 90	NS
Copper	SAMPLE				789	789	789	mg/kg		1	1WkC
	PERMIT REQUIREMENT				N/A	N/A	N/A			1 / 90	NS
Manganese	SAMPLE				779	779	779	mg/kg		1	1WkC
	PERMIT REQUIREMENT				N/A	N/A	N/A			1 / 90	NS
Nickel	SAMPLE				29.6	29.6	29.6	mg/kg		1	1WkC
	PERMIT REQUIREMENT				N/A	N/A	N/A			1 / 90	NS
Lead	SAMPLE				18.9	18.9	18.9	mg/kg		1	1WkC
	PERMIT REQUIREMENT				N/A	N/A	N/A			1 / 90	NS
Zinc	SAMPLE				916	916	916	mg/kg		1	1WkC
	PERMIT REQUIREMENT				N/A	N/A	N/A			1 / 90	NS

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Albert Cox TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.		TELEPHONE		DATE		
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