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STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY

IL 532-0357
ADM 39
054-002

Subject Midwest Generation - Crawford

Data ILOOO2186

Reviewed by B. Unser Date 5-24-01

MODIFICATION

As part of a dredging operation, MW Gen. constructed a lined earthen impoundment at Crawford Station for the temporary storage of material dredged from the Chicago Sanitary and Ship Canal. MW Gen. now proposes a one-time procedure to treat and discharge impounded rainwater from the dredged material disposal facility. They propose to pump the rainwater (approx. 500,000 gallons) to Pit #3 of the Station's wastewater treatment system. Pit #3 currently collects all surface runoff from the area surrounding the earthen impoundment. Wastewater collected in Pit #3 is treated in the recirculating wastewater treatment system and discharged via Outfall C01.

DREDGE WATER ANALYSIS

	9-05-00 (mg/l)	5-01-01	WQ std.	Effluent Std
O+G	NTF	<5.0	15	15
Silver	<0.001	<0.010	1.1	0.1
Arsenic	0.019	<0.020	1.0	0.25
Barium	<1.0	0.034	5.0	2.0
cadmium	<0.001	<0.0020	0.15	0.15
chromium	0.008	0.0050	$0.3^{(+6)}, 1.0^{(+3)}$	$0.1^{(+6)}, 1.0^{(tot)}$
copper	NTF	0.011	1.0	0.5
iron	NTF	0.48	2.0	2.0
nickel	NTF	0.014	1.0	1.0
lead	0.016	0.010	0.1	0.2
selenium	<0.002	<0.050	1.0	—
zinc	NTF	0.035	1.0	1.0
mercury	<0.0005	0.0002	0.0005	0.0005

total discharge volume: ≈ 500,000 gallons

Outfall C01 has limits for copper, iron, O+G, TSS and pH. Based on the information provided, it does not appear that any additional limits are needed for the proposed wastestream.

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Subject MW Generation (cont.)

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Reviewed by Date

The treatment provided by the recirculating wastewater treatment system consists of the following:

equalization, pH adjustment, chemical precipitation, coagulation, flocculation and sedimentation.

The proposed method of disposal for the impounded rainwater from the dredged material disposal facility is acceptable. No additional pollutants of concern are present in the rainwater and no additional limits and/or monitoring are required. The NPDES permit will be modified to include this additional wastestream as part of the discharge from Outfall C01.

ACTION: Modify permit.