

NPDES Permit No. IL0080054
Notice No. LRL:14030501.docx

Public Notice Beginning Date: **May 6, 2014**

Public Notice Ending Date: **June 5, 2014**

National Pollutant Discharge Elimination System (NPDES)
Permit Program

Draft New NPDES Permit to Discharge into Waters of the State

Public Notice/Fact Sheet Issued By:

Illinois Environmental Protection Agency
Bureau of Water
Division of Water Pollution Control
Permit Section
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276
217/782-0610

Name and Address of Discharger:

Delbert D. Mundt Water Treatment Plant
P.O. Box 8
Dieterich, Illinois 62424

Name and Address of Facility:

Delbert D. Mundt Water Treatment Plant
000N and 2100E
Beecher City, Illinois 62414
(Shelby County)

The Illinois Environmental Protection Agency (IEPA) has made a tentative determination to issue a NPDES permit to discharge into the waters of the state and has prepared a draft permit and associated fact sheet for the above named discharger. The Public Notice period will begin and end on the dates indicated in the heading of this Public Notice/Fact Sheet. The last day comments will be received will be on the Public Notice period ending date unless a commentor demonstrating the need for additional time requests an extension to this comment period and the request is granted by the IEPA. Interested persons are invited to submit written comments on the draft permit to the IEPA at the above address. Commentors shall provide his or her name and address and the nature of the issues proposed to be raised and the evidence proposed to be presented with regards to those issues. Commentors may include a request for public hearing. Persons submitting comments and/or requests for public hearing shall also send a copy of such comments or requests to the permit applicant. The NPDES permit and notice number(s) must appear on each comment page.

The application, engineer's review notes including load limit calculations, Public Notice/Fact Sheet, draft permit, comments received, and other documents are available for inspection and may be copied at the IEPA between 9:30 a.m. and 3:30 p.m. Monday through Friday when scheduled by the interested person.

If written comments or requests indicate a significant degree of public interest in the draft permit, the permitting authority may, at its discretion, hold a public hearing. Public notice will be given 45 days before any public hearing. Response to comments will be provided when the final permit is issued. For further information, please call Leslie Lowry at 217/782-0610.

The applicant is engaged in operating a public water supply water treatment plant (SIC 4941). Plant operation results in an average discharge of 0.0312 MGD of sludge decantation wastewater from outfall 001.

Application is made for a new discharge which is located in Shelby County, Illinois. The following information identifies the discharge point, receiving stream and stream classifications:

| <u>Outfall</u> | <u>Receiving Stream</u> | <u>Latitude</u> | | <u>Longitude</u> | | <u>Stream Classification</u> | <u>Integrity Rating</u> |
|----------------|----------------------------------|-----------------|-------|------------------|------|------------------------------|-------------------------|
| 001 | Unnamed Tributary to Brush Creek | 39° 13' 15" | North | 88° 45' 15" | West | General Use | Not Rated |

To assist you further in identifying the location of the discharge please see the attached map.

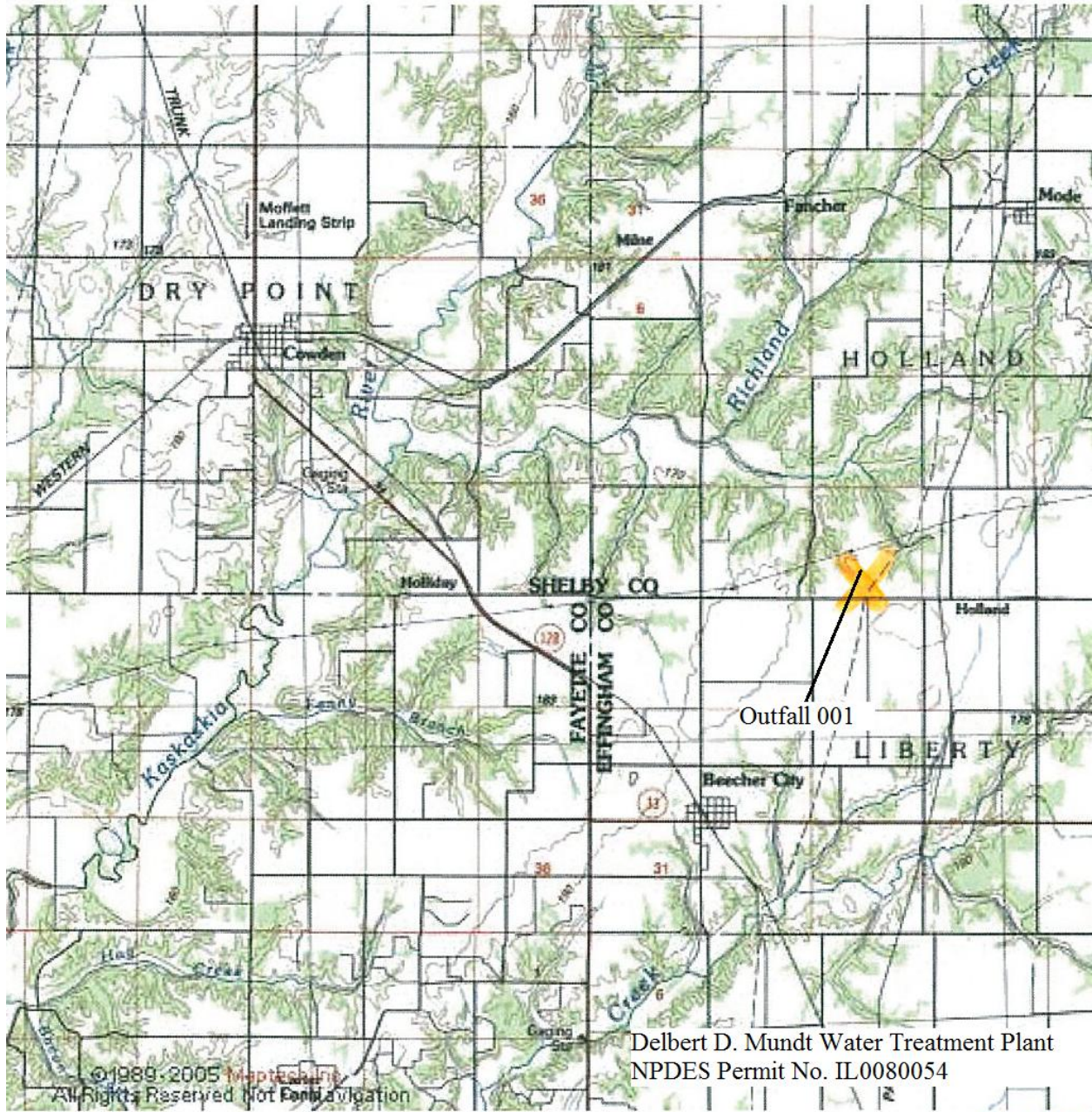
The stream segment receiving the discharge from outfall 001 is not the 2012 303(d) list of impaired waters and is not a biologically significant stream on the 2008 Illinois Department of Natural Resources Publication – *Integrating Multiple Taxa in a Biological Stream Rating System*.

The discharge from the facility shall be monitored and limited at all times as follows:

| PARAMETER | LOAD LIMITS lbs/day DAF (DMF) | | | CONCENTRATION LIMITS mg/l | | |
|------------------------|----------------------------------|------------------|------------|------------------------------|------------------|----------------|
| | 30 DAY AVERAGE | DAILY MAXIMUM | REGULATION | 30 DAY AVERAGE | DAILY MAXIMUM | REGULATION |
| <u>Outfall 001:</u> | | | | | | |
| Flow (MGD) | | | | | | |
| pH | | | | 6 – 9 s.u. | | 35 IAC 304.125 |
| Total Suspended Solids | | | | 15 | 30 | 35 IAC 304.124 |

The following explain the conditions of the proposed permit:

The special conditions clarify flow, pH, monitoring locations, and discharge monitoring report submission.



Antidegradation Assessment for Delbert D. Mundt Water Treatment Plant
NPDES Permit No. IL0080054 Shelby County

The subject facility is an existing public water supply water treatment plant that operates a side channel reservoir and water filtration plant. The plant serves several small communities in the area and produces up to 1.5 MGD of finished water. Currently only about 0.5 MGD is produced. The source of the water for the side channel reservoir is the Kaskaskia River near Cowden. Wastewater is produced as water drains from treatment plant sludge in the sludge storage bed. Normally, this water would return to the side channel reservoir, but when the reservoir is drained and cleaned the wastewater cannot be returned. The first cleaning of the reservoir is planned and the facility is applying for an NPDES permit to discharge the wastewater to an unnamed tributary of Brush Creek. The wastewater discharge is predicted to be 0.0936 MGD during peak production. At current production the daily discharge is predicted to be 0.0312 MGD.

Identification and Characterization of the Affected Water Body.

The new discharge will be to an unnamed tributary of Brush Creek (segment code ORA-01). The unnamed tributary is a General Use water body with a 7Q10 flow of zero at the point of the discharge. The unnamed tributary is not listed on the draft 2012 Illinois Integrated Water Quality Report and Section 303(d) List as impaired for aquatic life, fish consumption and primary contact uses. Brush Creek itself is fully supporting aquatic life uses. The unnamed tributary is not listed as a biologically significant stream in the 2008 Illinois Department of Natural Resources Publication *Integrating Multiple Taxa in a Biological Stream Rating System*, nor is it given an integrity rating. The unnamed tributary is not designated as an enhanced water pursuant to the dissolved oxygen water quality standard.

Identification of Proposed Pollutant Load Increases or Potential Impacts on Uses.

Suspended solids is the pollutant parameter of concern. Suspended solids will increase in loading to the receiving stream as a result of this activity. This increase in loading is expected to be small given the nature and frequency of the discharge. Discharge to the unnamed tributary will only occur when the side channel reservoir is being cleaned out, so only a few weeks of discharge is expected every five years or so. This parameter will be limited in the permit. A water sample of the future effluent was provided by the applicant. Total suspended solids were low in this sample as were all other parameters measured including chloride, sulfate and iron. No other parameters require regulation from a water quality standards perspective.

Fate and Effect of Parameters Proposed for Increased Loading.

Suspended solids discharged will eventually be incorporated into bed sediments and will continue to move downstream. No adverse impacts to the receiving water will occur as all water quality standards will be met and the suspended solids are lower than that normally occurring in the receiving stream.

Purpose and Social & Economic Benefits of the Proposed Activity.

The facility has not needed an NPDES permit before now because no discharges occurred. Obtaining an NPDES permit will allow the facility to comply with regulations when a discharge occurs during reservoir clean out. Obtaining the NPDES permit allows the facility to remain functioning as a local provider of drinking water.

Assessments of Alternatives for Less Increase in Loading or Minimal Environmental Degradation.

Because the discharge will occur only for a few weeks every five years or so, alternatives other than discharge to the nearest stream are not feasible. Constructing infrastructure to do something else with the effluent would be extremely costly. Given the benign nature of the effluent, discharge to the receiving stream is not at all harmful to aquatic life or other stream uses.

Summary Comments of the Illinois Department of Natural Resources, Regional Planning Commissions, Zoning Boards or Other Entities

The Illinois Department of Natural Resources was consulted on endangered species issues via the Eco-CAT system on January 31, 2014. An immediate termination of consultation was obtained given that no threatened or endangered species are found near the site.

Agency Conclusion.

This preliminary assessment was conducted pursuant to the Illinois Pollution Control Board regulation for Antidegradation found at 35 Ill. Adm. Code 302.105 (antidegradation standard) and was based on the information available to the Agency at the time the draft permit was written. We tentatively find that the proposed activity will result in the attainment of water quality standards; that all existing uses of the receiving stream will be maintained; that all technically and economically reasonable measures to avoid or minimize the extent of the proposed increase in pollutant loading have been incorporated into the proposed activity; and that this activity will benefit the community at large by ensuring that the facility will continue to provide drinking water. Comments received during the NPDES permit public notice period will be evaluated before a final decision is made by the Agency.

NPDES Permit No. IL0080054

Illinois Environmental Protection Agency

Division of Water Pollution Control

1021 North Grand Avenue East

Post Office Box 19276

Springfield, Illinois 62794-9276

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

New NPDES) Permit

Expiration Date:

Issue Date:

Effective Date:

Name and Address of Permittee:

Delbert D. Mundt Water Treatment Plant
P.O. Box 8
Dieterich, Illinois 62424

Facility Name and Address:

Delbert D. Mundt Water Treatment Plant
000N and 2100E
Beecher City, Illinois 62414
(Shelby County)

Discharge Number and Name:

001 Sludge Decantation Wastewater

Receiving Waters:

Unnamed Tributary to Brush Creek

In compliance with the provisions of the Illinois Environmental Protection Act, Title 35 of Ill. Adm. Code, Subtitle C and/or Subtitle D, Chapter 1, and the Clean Water Act (CWA), the above-named permittee is hereby authorized to discharge at the above location to the above-named receiving stream in accordance with the standard conditions and attachments herein.

Permittee is not authorized to discharge after the above expiration date. In order to receive authorization to discharge beyond the expiration date, the permittee shall submit the proper application as required by the Illinois Environmental Protection Agency (IEPA) not later than 180 days prior to the expiration date.

Alan Keller, P.E.
Manager, Permit Section
Division of Water Pollution Control

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Effluent Limitations and Monitoring

1. From the effective date of this permit until the expiration date, the effluent of the following discharge shall be monitored and limited at all times as follows:

| PARAMETER | LOAD LIMITS lbs/day <u>DAF (DMF)</u> | | CONCENTRATION <u>LIMITS mg/l</u> | | SAMPLE FREQUENCY | SAMPLE TYPE |
|---|---|------------------|-------------------------------------|------------------|---------------------------|----------------|
| | 30 DAY AVERAGE | DAILY MAXIMUM | 30 DAY AVERAGE | DAILY MAXIMUM | | |
| <u>Outfall 001 – Sludge Decantation Wastewater</u> (Average Flow = 0.0312 MGD) | | | | | | |
| Flow (MGD) | See Special Condition 1. | | | | 1/Day When Discharging | Measure |
| pH | See Special Condition 2. | | | | 1/Day When Discharging | Grab |
| Total Suspended Solids | | | 15 | 30 | 1/Day When Discharging | Grab |

Special Conditions

SPECIAL CONDITION 1. Flow shall be measured in units of Million Gallons per Day (MGD) and reported as a monthly average and a daily maximum value on the Discharge Monitoring Report.

SPECIAL CONDITION 2. The pH shall be in the range 6.0 to 9.0. The monthly minimum and monthly maximum values shall be reported on the DMR form.

SPECIAL CONDITION 3. Samples taken in compliance with the effluent monitoring requirements shall be taken at a point representative of the discharge, but prior to entry into the receiving stream.

SPECIAL CONDITION 4. The Permittee shall record monitoring results on Discharge Monitoring Report (DMR) Forms using one such form for each outfall each month.

In the event that an outfall does not discharge during a monthly reporting period, the DMR Form shall be submitted with no discharge indicated.

The Permittee may choose to submit electronic DMRs (NetDMRs) instead of mailing paper DMRs to the IEPA. More information, including registration information for the NetDMR program, can be obtained on the IEPA website, <http://www.epa.state.il.us/water/net-dmr/index.html>.

The completed Discharge Monitoring Report forms shall be submitted to IEPA no later than the 15th day of the following month, unless otherwise specified by the permitting authority.

Permittees not using NetDMRs shall mail Discharge Monitoring Reports with an original signature to the IEPA at the following address:

Illinois Environmental Protection Agency
Division of Water Pollution Control
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section, Mail Code # 19

SPECIAL CONDITION 5. If an applicable effluent standard or limitation is promulgated under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a)(2) of the Clean Water Act and that effluent standard or limitation is more stringent than any effluent limitation in the permit or controls a pollutant not limited in the NPDES Permit, the Agency shall revise or modify the permit in accordance with the more stringent standard or prohibition and shall so notify the permittee.

SPECIAL CONDITION 6. The effluent, alone or in combination with other sources, shall not cause a violation of any applicable water quality standard outlined in 35 Ill. Adm. Code 302.