

NPDES Permit No. IL0070955
Notice No. 14030701bwc.docx

Public Notice Beginning Date: **April 24, 2014**

Public Notice Ending Date: **May 27, 2014**

National Pollutant Discharge Elimination System (NPDES)
Permit Program

Draft Reissued 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:

Illinois Department of Transportation
1102 Eastport Plaza Drive
Collinsville, Illinois 62234

Name and Address of Facility:

IDOT District 8 Bowman Pump Station
7th and Bowman
East St. Louis, Illinois 62203
(St. Clair 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 Brian W. Cox at 217/782-0610.

The applicant is engaged in the operation of four separate groundwater pumping systems used to manage groundwater level in areas of low pavement elevation in order to protect I-55/70/64 (SIC 4911). Three of the groundwater collection systems including the 25th Street dewatering wells, the I-64 dewatering wells, and the I-55/70 dewatering wells are combined and discharge to the IDOT District 8 Bowman Avenue Pump Station. The other groundwater collection system includes the Missouri Avenue dewatering wells which discharges to the Missouri Avenue Pump Station. The discharges from both pumping stations are commingled prior to discharging to Outfall 001. Plant operation results in an average discharge of 13.8 MGD of well water from Outfall 001.

The following modifications are proposed:

The name of the receiving stream has been changed to DOT Creek. The receiving stream was previously identified as, "Unnamed Tributary to Schoenberger Creek Tributary to Cahokia Canal Tributary to Mississippi River".

A total residual chlorine (TRC) limit and phosphorus monitoring have been added due to the periodic well maintenance which includes conditioning the well with a phosphate solution, sodium hypochlorite, and hydrochloric acid.

Monitoring of chlorobenzene, cis-1,2-Dichloroethene, Methyl-tert-butyl-ether (MTBE), and chloroform have also been added to Outfall 001 due to the potential migration of contaminants from the Solutia, Inc. RCRA corrective action site.

Application is made for the existing discharge(s) which is located in St. Clair County, Illinois. The following information identifies the discharge point, receiving stream and stream classifications:

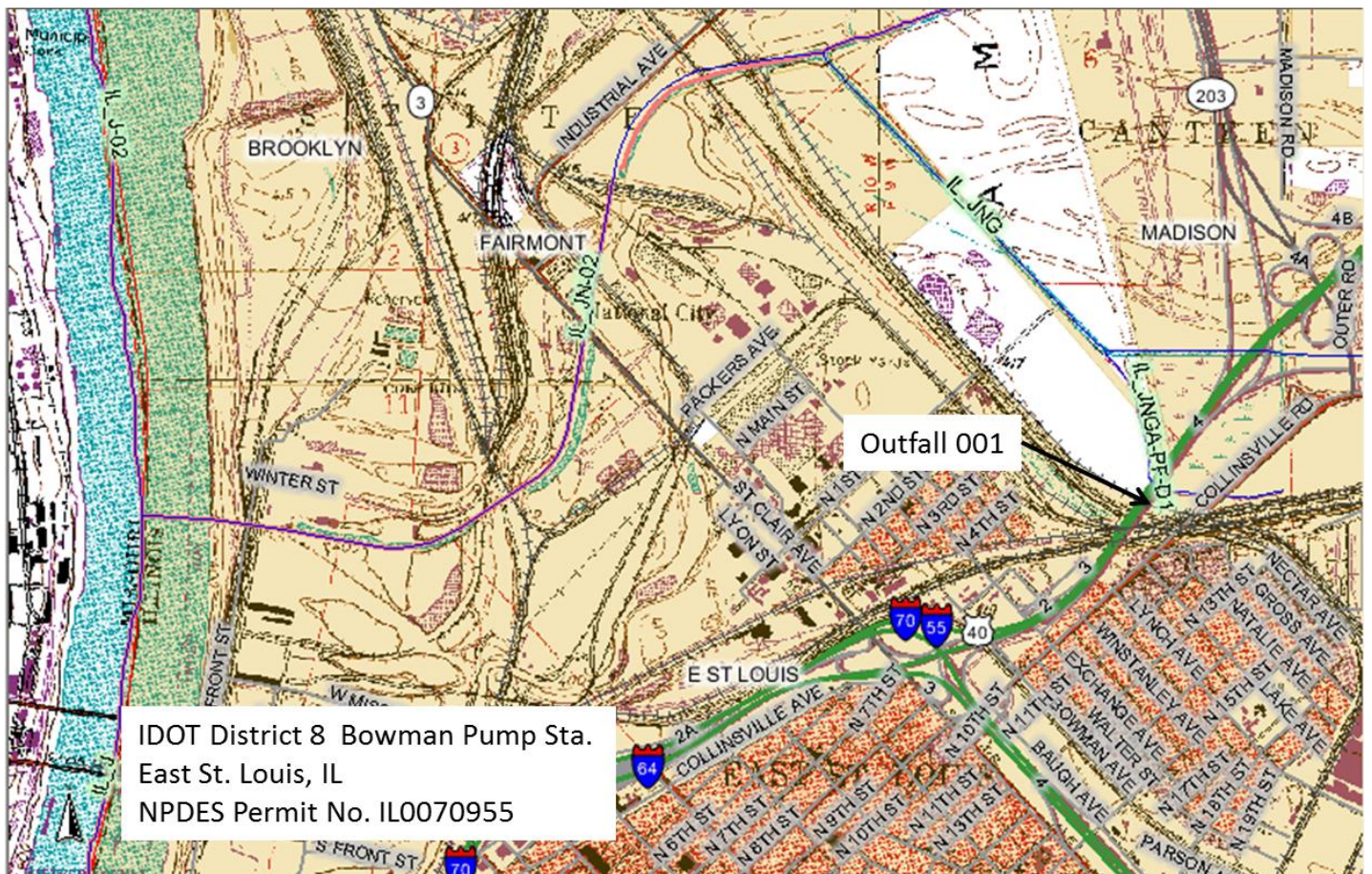
Outfall	Receiving Stream	Latitude	Longitude	Stream Classification	Integrity Rating
001	DOT Creek	38° 38' 19" North	90° 08' 08" West	General Use	Not Rated

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

The stream segment, JNGA-PF-D1 receiving the discharge from outfall(s) 001 is on the 2012 303(d) list of impaired waters, and was not provided a Biological Stream Characterization rating in the 2008 Illinois Department of Natural Resources Publication *Integrating Multiple Taxa in a Biological Stream Rating System*.

The following parameters have been identified as the pollutants causing impairment:

Pollutants	Impaired Use
Bottom deposits, phosphorus (total), and turbidity	Aesthetic Quality



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

Outfall: 001

PARAMETER	LOAD LIMITS lbs/day DAF (DMF)		REGULATION	CONCENTRATION LIMITS mg/L		REGULATION
	30 DAY AVERAGE	DAILY MAXIMUM		30 DAY AVERAGE	DAILY MAXIMUM	
Flow (MGD)						
pH				Shall be within the range 6.5-9.0 s.u.		35 IAC 302.204
Total Suspended Solids					40	IPCB AS 96-12
Iron (total)					20	IPCB AS 96-12
Iron (dissolved)					10	IPCB AS 96-12
Total Residual Chlorine					0.05	35 IAC 302.208 & 40 CFR 125.3
Fluoride					Monitor Only	
Boron					Monitor Only	
Manganese					Monitor Only	
Sulfate					Monitor Only	
Chloride					Monitor Only	
Chlorobenzene					Monitor Only	
cis-1,2-Dichloroethene					Monitor Only	
Methyl-tert-butyl-ether (MTBE)					Monitor Only	
Chloroform					Monitor Only	
Phosphorus					Monitor Only	

The special conditions of this permit serve the purpose of clarifying the following: discharge monitoring location, the submittal of discharge monitoring reports, TRC monitoring requirements, and pH limitations.

NPDES Permit No. IL0070955

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

Reissued (NPDES) Permit

Expiration Date:

Issue Date:

Effective Date:

Name and Address of Permittee:

Illinois Department of Transportation
1102 Eastport Plaza Drive
Collinsville, Illinois 62234

Facility Name and Address:

Illinois Department of Transportation
IDOT District 8 Bowman Pump Station
7th and Bowman
East St. Louis, Illinois 62203
(St. Clair County)

Discharge Number and Name:

001 Well Water

Receiving Waters:

DOT 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(s) shall be monitored and limited at all times as follows:

Outfall(s): 001 – Well Water
(DAF = 13.8 MGD)

PARAMETER	LOAD LIMITS lbs/day DAF (DMF)		CONCENTRATION LIMITS mg/L		SAMPLE FREQUENCY	SAMPLE TYPE
	30 DAY AVERAGE	DAILY MAXIMUM	30 DAY AVERAGE	DAILY MAXIMUM		
Flow (MGD)	See Special Condition 1				1/Month	Measurement
pH	See Special Condition 2				1/Month	Grab
Total Suspended Solids				40	1/Month	Grab
Iron (total)				20	1/Month	Grab
Iron (dissolved)				10	1/Month	Grab
Total Residual Chlorine				0.05*	Semi-Annual**	Grab
Fluoride				Monitor Only	Semi-Annual***	Grab
Boron				Monitor Only	Semi-Annual***	Grab
Manganese				Monitor Only	Semi-Annual***	Grab
Sulfate				Monitor Only	Semi-Annual***	Grab
Chloride				Monitor Only	Semi-Annual***	Grab
Chlorobenzene				Monitor Only	Semi-Annual***	Grab
cis-1,2-Dichloroethene				Monitor Only	Semi-Annual***	Grab
Methyl-tert-butyl-ether (MTBE)				Monitor Only	Semi-Annual***	Grab
Chloroform				Monitor Only	Semi-Annual***	Grab
Phosphorus				Monitor Only	Semi-Annual**	Grab

*See Special Condition 6.

**See Special Condition 9.

***See Special Condition 10.

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 on the Discharge Monitoring Report.

SPECIAL CONDITION 2. The pH shall be in the range 6.5 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. Outfall 001 sampling shall be taken at a point after discharges from the Bowman Avenue Pump Station and discharges from the Missouri Avenue Pump Station are commingled but prior to entry in DOT Creek.

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 eDMRs 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. All samples for Total Residual Chlorine shall be analyzed by an applicable method contained in 40 CFR 136, equivalent in accuracy to low-level amperometric titration. Any analytical variability of the method used shall be considered when determining the accuracy and precision of the results obtained. For the purpose of this permit Total Residual Chlorine means those substances which include combined and uncombined forms of both chlorine and bromine and which are expressed, by convention, as an equivalent concentration of molecular chlorine.

The water quality standard for TRC (0.011 mg/l 30-day average and 0.019 mg/l daily max) is below the method detection level (0.05 mg/l) as described in 40 CFR 136. Therefore, for the purpose of this permit, the method detection level will be utilized to determine compliance with the permit limit for TRC. A measurement of <0.05 mg/l reported on the DMR shall not be considered a violation of the water quality based effluent limit. This reporting threshold is being established to determine compliance and does not authorize the discharge of TRC in excess of the water quality based effluent limit.

SPECIAL CONDITION 7. 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.

SPECIAL CONDITION 8. No effluent shall contain settleable solids, floating debris, visible oil, grease, scum or sludge solids. Color, odor and turbidity must be reduced to below obvious levels.

SPECIAL CONDITION 9. Sampling for phosphorus and TRC shall only be conducted during times of well maintenance activities.

SPECIAL CONDITION 10. Semi-Annual sampling shall be conducted in the months of April and October with results being submitted in May and November. In addition to the sampling results, the average Mississippi River Stage for the month in which the sample was taken shall be reported on the semi-annual DMR.

Special Conditions

SPECIAL CONDITION 11. If groundwater sampling is conducted on the 25th Street dewatering wells, the I-64 dewatering wells, the I-55/70 dewatering wells, or the Missouri Avenue dewatering wells, as part of monitoring plans for the Solutia, Inc RCRA Corrective Action Site and/or the Sauget Areas 1 and 2 Superfund Sites, then results of the groundwater sampling shall be made available to the Agency upon request. Based on the results of the groundwater sampling, the Agency may modify the permit following public notice to include additional limits or monitoring as may be necessary to ensure water quality standards continue to be met.

SPECIAL CONDITION 12. In the event the permittee shall require the use of water treatment additives other than those previously approved by this Agency, or if the permittee increases the feed rate or quantity of the additives used beyond what has previously been approved by this Agency, the permittee shall request a modification of this permit in accordance with the Standard Conditions – Attachment H.