

NPDES Permit No. IL0022705

Notice No. AAH:11020301.bah

Public Notice Beginning Date: **December 10, 2013**

Public Notice Ending Date: **January 9, 2014**

National Pollutant Discharge Elimination System (NPDES)
Permit Program

PUBLIC NOTICE/FACT SHEET
of
Draft Reissued NPDES Permit to Discharge into Waters of the State

Public Notice/Fact Sheet Issued By:

Illinois EPA
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:

City of St. Charles
Two East Main Street
St. Charles, Illinois 60174

Name and Address of Facility:

City of St. Charles - Eastside WWTF
East end of Devereaux Way
St. Charles, Illinois
(Kane 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. All comments on the draft Permit and requests for hearing must be received by the IEPA by U.S. Mail, carrier mail or hand delivered by the Public Notice Ending Date. 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 numbers 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 Amy Dragovich at 217/782-0610.

The following water quality and effluent standards and limitations were applied to the discharge:

Title 35: Environmental Protection, Subtitle C: Water Pollution, Chapter I: Pollution Control Board and the Clean Water Act were applied in determining the applicable standards, limitations and conditions contained in the draft Permit.

The applicant is engaged in treating domestic and industrial wastewater for the City of St. Charles – Eastside WWTF service area.

The length of the Permit is approximately 5 years.

The main discharge number is 001 and 002 (Dual Main Outfalls). The seven day once in ten year low flow (7Q10) of the receiving stream, Fox River is 148 cfs.

The design average flow (DAF) for the facility is 9.0 million gallons per day (MGD) and the design maximum flow (DMF) for the facility is 18.35 MGD. Treatment consists of screening, grit removal, primary clarifiers, activated sludge, final clarifiers, ultraviolet disinfection system, sludge handling facilities, and excess flow treatment.

This treatment works has an approved pretreatment program. There are 3 categorical CIUs and 1 noncategorical SIU.

This reissued Permit does not increase the facility's DAF, DMF, concentration limits, and/or load limits.

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

<u>Discharge Number</u>	<u>Receiving Stream</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Stream Classification</u>	<u>Integrity Rating</u>
001 and 002	Fox River	41° 54' 17" North	88° 17' 59" West	General Use	E

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

The stream segment(s), Waterbody Segment DT-58, receiving the discharge from outfall(s) 001 and 002 (Dual Main Outfalls) is on the 303(d) list of impaired waters.

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

<u>Potential Causes</u>	<u>Uses Impaired</u>
Mercury and PCBs	Fish Consumption

The next stream segment(s), Waterbody Segment DT-69, is also on the 303(d) list of impaired waters.

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

<u>Potential Causes</u>	<u>Uses Impaired</u>
Mercury and PCBs	Fish Consumption
Aquatic algae (non-pollutant), methoxychlor, pH, phosphorus and sedimentation/siltation	Aquatic Life
Fecal coliform	Primary Contact Use

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The discharge(s) from the facility is (are) proposed to be monitored and limited at all times as follows:

Discharge Number(s) and Name(s): 001 and 002 (Dual Main Outfalls)

Load limits computed based on a design average flow (DAF) of 9.0 MGD (design maximum flow (DMF) of 18.35 MGD).

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The effluent of the above discharge(s) shall be monitored and limited at all times as follows:

<u>Parameter</u>	<u>LOAD LIMITS lbs/day</u> <u>DAF (DMF)*</u>			<u>CONCENTRATION</u> <u>LIMITS mg/L</u>			<u>Regulation</u>
	<u>Monthly</u> <u>Average</u>	<u>Weekly</u> <u>Average</u>	<u>Daily</u> <u>Maximum</u>	<u>Monthly</u> <u>Average</u>	<u>Weekly</u> <u>Average</u>	<u>Daily</u> <u>Maximum</u>	
CBOD ₅	1501 (3061)	3002 (6122)		20	40		35 IAC 304.120 40 CFR 133.102
Suspended Solids	1877 (3826)	3378 (6887)		25	45		35 IAC 304.120 40 CFR 133.102
pH	Shall be in the range of 6 to 9 Standard Units						35 IAC 304.125
Fecal Coliform	The monthly geometric mean shall not exceed 200 per 100 mL (May through October)						35 IAC 304.121
Ammonia Nitrogen:							
March-May/Sept.-Oct	113 (230)		135 (275)	1.5		1.8	35 IAC 355 and 35 IAC 302
June-August	98 (199)		105 (214)	1.3		1.4	
November-February	---		255 (520)	---		3.4	
Total Nitrogen	Monitor Only						35 IAC 309.146
Dissolved Phosphorus	Monitor Only						35 IAC 309.146
Nitrate/Nitrite	Monitor Only						35 IAC 309.146
Total Kjeldahl Nitrogen (TKN)	Monitor Only						35 IAC 309.146
Alkalinity	Monitor Only						35 IAC 309.146
Temperature	Monitor Only						35 IAC 309.146
Phosphorus (as P)		<u>Annual</u> <u>Average</u>			<u>Annual</u> <u>Average</u>		35 IAC 309.146
		75 (153)		<u>Monthly</u> <u>Avg. not</u> <u>less than</u>	<u>Weekly</u> <u>Avg. not</u> <u>less than</u>	<u>Daily</u> <u>Minimum</u>	
Dissolved Oxygen							
March-July				N/A	6.0	5.0	35 IAC 302.206
August-February				5.5	4.0	3.5	

*Load Limits are calculated by using the formula: 8.34 x (Design Average and/or Maximum Flow in MGD) x (Applicable Concentration in mg/L).

This Permit contains an authorization to treat and discharge excess flow as follows:

Discharge Number(s) and Name(s): A01 Excess Flow Outfall

**CONCENTRATION
LIMITS (mg/L)**

<u>Parameter</u>	<u>Monthly Average</u>	<u>Weekly Average</u>	<u>Regulation</u>
BOD ₅ *	30	45	40 CFR 133.102
Suspended Solids*	30	45	40 CFR 133.102
Fecal Coliform	Daily Maximum Shall Not Exceed 400 per 100 ML		35 IAC 304.121
pH	Shall be in the range of 6 to 9 Standard Units		35 IAC 304.125
Chlorine Residual	0.75		35 IAC 302.208

*The 30-day average percent removal shall not be less than 85 percent.

This draft Permit also contains the following requirements as special conditions:

1. Reopening of this Permit to include different final effluent limitations.
2. Operation of the facility by or under the supervision of a certified operator.
3. Submission of the operational data in a specified form and at a required frequency at any time during the effective term of this Permit.
4. More frequent monitoring requirement without Public Notice in the event of operational, maintenance or other problems resulting in possible effluent deterioration.
5. Prohibition against causing or contributing to violations of water quality standards.
6. Recording the monitoring results on Discharge Monitoring Report Forms using one such form for each outfall each month and submitting the forms to IEPA each month.
7. Provisions of 40 CFR Section 122.41 (m) & (n).
8. Effluent sampling point location.
9. Controlling the sources of infiltration and inflow into the sewer system.
10. Seasonal fecal coliform limits.
11. The Permittee implements and administers an industrial pretreatment program pursuant to 40 CFR §403.
12. Submission of annual fiscal data.
13. Submission of semi annual reports indicating the quantities of sludge generated and disposed.
14. Effluent limitations pursuant to an approved Total Maximum Daily Load (TMDL) Study or an approved Fox River Water Quality Study.
15. Total Nitrogen Monitoring.
16. The Permittee is required to perform biomonitoring tests in the 18th, 15th, 12th and 9th months prior to the expiration date of the permit, and to submit the results of such tests to the IEPA within one week of receiving the results from the laboratory.
17. Monitoring for total phosphorus, dissolved phosphorus, nitrate/nitrite, total kjeldahl nitrogen (TKN), ammonia, total nitrogen (calculated), alkalinity and temperature once a month.

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- 18. A requirement for participation in the Fox River Study Group.
- 19. Compliance schedule for meeting phosphorus limits.
- 20. At minimum of 85% removal of CBOD₅ and suspended solids.

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