

NPDES Permit No. IL0029149

Notice No. IL0029149-14.TTL

Public Notice Beginning Date: **June 10, 2014**

Public Notice Ending Date: **July 10, 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 Permittee:

City of Harrisburg
110 East Locust Street
Harrisburg, Illinois 62946

Name and Address of Facility:

City of Harrisburg-STP
406 Seright Street
Harrisburg, Illinois 62946
(Saline 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 Permittee. 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 Todd Lamm 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 wastewater for the City of Harrisburg.

The length of the Permit is approximately 5 years.

The main discharge number is 001. The seven day once in ten year low flow (7Q10) of the receiving stream, Middle Fork Saline River is 0 cfs.

The design average flow (DAF) for the facility is 2.18 million gallons per day (MGD) and the design maximum flow (DMF) for the facility is 5.45 MGD. Treatment consists of grit removal, excess flow treatment, primary sedimentation (settling or clarifiers), stabilization ponds, trickling (roughing) filtration, contact stabilization, rock filter, and discharge to surface water. Sludge treatment consists of aerobic digestion, drying beds, and land application.

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

This Permit recognizes and continues the year-round disinfection exemption approved by the IEPA on June 1, 1989 and included in past NPDES permit actions since that date. It is the IEPA's tentative decision that under Illinois Pollution Control Board regulations, the following reach of waterbody is not classified for primary contact use activities and is not subject to the fecal coliform water quality standard of 35 Ill. Adm. Code 302.209.

This draft permit does not contain requirements for disinfection of the discharge from discharge numbers(s) 001 and 003 or 004. Middle Fork Saline River has been determined to be unsuited to support primary contact activities (swimming) due to physical, hydrologic or geographic configuration. Anyone knowing of primary contact activities occurring within this water segment is invited to submit comments to the IEPA. Comments should give the nature of the activities (i.e swimming, fishing, canoeing, etc.), the location and months of the year when these activities have been observed. The IEPA is also interested in obtaining information on the proximity of residential dwellings and the accessibility of the public to this water segment. Anyone with such information is asked to submit comments to the IEPA on this draft permit action. Instructions for submitting comments are contained earlier in this document.

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

Discharge Number	Receiving Stream	Latitude	Longitude	Stream Classification	Integrity Rating
001	Middle Fork Saline River	37° 45' 4" North	88° 30' 50" West	General Use	C
003	Middle Fork Saline River	37° 44' 47" North	88° 31' 32" West	General Use	C
004	Middle Fork Saline River	37° 44' 47" North	88° 31' 32" West	General Use	C
002	Pankey Branch	37° 44' 31" North	88° 31' 26" West	General Use	Not Rated

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

The stream segment, ATG-03, receiving the discharge from outfalls 001, 003 & 004 is on the Draft 2012 303(d) list of impaired waters.

Uses Impaired	Potential Causes
aquatic life	alteration in stream-side or littoral vegetative cover (non-pollutant), aquatic plants (Macrophytes), changes in stream depth and velocity patterns (non-pollutant), chloride, dissolved oxygen (non-pollutant), phosphorus, sedimentation/siltation, and total suspended solids (TSS)

The stream segment, ATGB, receiving the discharge from outfall 002 is not on the Draft 2012 303(d) list of impaired waters.

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): STP Outfall 001

Load limits computed based on a design average flow (DAF) of 1.6 MGD (design maximum flow (DMF) of 3.125 MGD).

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

Parameter	LOAD LIMITS lbs/day DAF (DMF)*			CONCENTRATION LIMITS mg/L			Regulation
	Monthly Average	Weekly Average	Daily Maximum	Monthly Average	Weekly Average	Daily Maximum	
CBOD ₅	133 (261)		267 (521)	10		20	35 IAC 304.120 40 CFR 133.102
Suspended Solids	160 (313)		320 (626)	12		24	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	Monitor and Report (May through October)						35 IAC 309.146
Chlorine Residual						0.05	35 IAC 302.208
Ammonia Nitrogen: March	25 (50)	61 (120)	135 (263)	1.9	4.6	10.1	35 IAC 355 and
April, May, Sept., Oct.	25 (50)	61 (120)	129 (253)	1.9	4.6	9.7	35 IAC 302
June-August	16 (31)	40 (78)	112 (219)	1.2	3	8.4	
November-February	53 (104)		92 (180)	4	NA	6.9	
Phosphorus (as Total Phosphorus)	13 (26)			1.0			35 IAC 302.203
Total Nitrogen	Monitor Only						35 IAC 309.146
Cadmium	0.051 (0.099)		0.74(1.4)	0.0038		0.0552	35 IAC 302.208
Cyanide (WAD)	0.069 (0.14)			0.0052			35 IAC 302.208
Copper	0.59 (1.1)		1.0(2.0)	0.044		0.0754	35 IAC 302.208
Iron (dissolved)			13 (26)			1.0	35 IAC 302.208
Silver			0.067(0.13)			0.005	35 IAC 302.208
Zinc	1.6(3.0)		6.0 (12)	0.1166		0.4493	35 IAC 302.208
				Monthly Avg. not less than	Weekly Avg. not less than	Daily Minimum	
Dissolved Oxygen March-July				--	6.0	5.0	35 IAC 302.206
August-February				5.5	4.0	3.5	

*Load Limits are calculated by using the formula: $8.34 \times (\text{Design Average and/or Maximum Flow in MGD}) \times (\text{Applicable Concentration in mg/L})$.

Discharge Number(s) and Name(s): STP Outfall 003 and 004** (Lagoon Plant)

Load limits computed based on a design average flow (DAF) of 0.58 MGD (design maximum flow (DMF) of 2.325 MGD).

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

Parameter	LOAD LIMITS lbs/day DAF (DMF)*			CONCENTRATION LIMITS mg/L			Regulation
	Monthly Average	Weekly Average	Daily Maximum	Monthly Average	Weekly Average	Daily Maximum	
CBOD ₅	97 (388)	193 (776)		20	40		35 IAC 304.120 40 CFR 133.102
Suspended Solids	121 (485)	218 (873)		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	Monitor and Report (May through October)						35 IAC 309.146
Chlorine Residual						0.05	35 IAC 302.208
Ammonia Nitrogen: March-May, Sept., Oct.	19 (78)		49 (196)	4	NA	10.1	35 IAC 355 and
June-August	9.7 (39)	24 (95)	41 (163)	2	4.9	8.4	35 IAC 302
November-February			33 (134)	NA	NA	6.9	
Phosphorus (as Total Phosphorus)	4.8 (19)			1.0			35 IAC 309.146
Total Nitrogen	Monitor Only						35 IAC 309.146
Copper	0.21 (0.85)		0.36 (1.5)	0.044		0.0754	35 IAC 302.208
				Monthly Avg. not less than	Weekly Avg. not less than	Daily Minimum	
Dissolved Oxygen March-July				--	6.0	5.0	35 IAC 302.206
August-February				5.5	4.0	3.5	

*Load Limits are calculated by using the formula: $8.34 \times (\text{Design Average and/or Maximum Flow in MGD}) \times (\text{Applicable Concentration in mg/L})$.

** Outfall 004 is to be considered an alternate discharge point to Outfall 003, with all of the same limitations and requirements as Outfall 003.

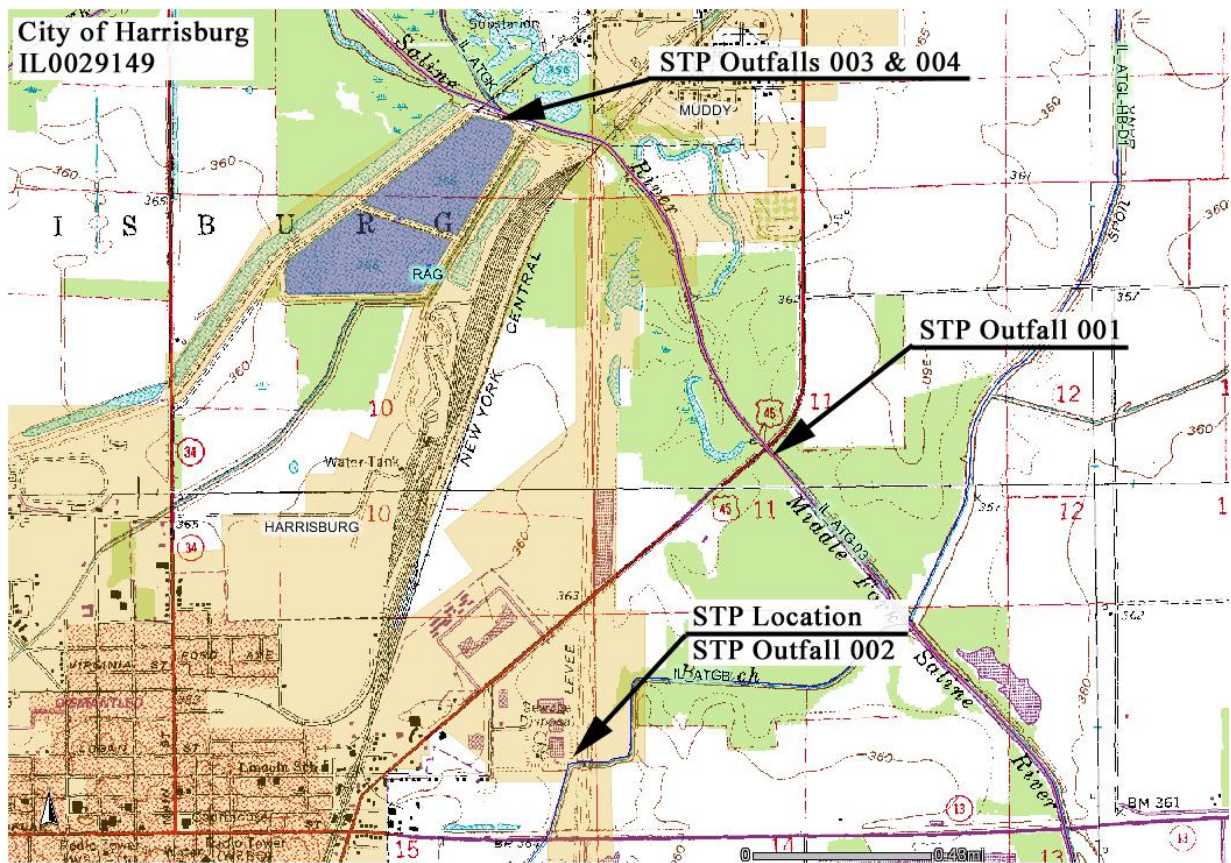
This Permit contains an approval to treat and discharge excess flow as follows:
 Discharge Number(s) and Name(s): Excess Flow Outfall 002

Parameter	CONCENTRATION LIMITS (mg/L)		Regulation
	Monthly Average	Weekly Average	
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
Ammonia Nitrogen (as N)	Monitor Only		35 IAC 309.146
Phosphorus (As Total Phosphorus)	Monitor Only		35 IAC 309.146
*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. Effluent sampling point location.
8. Provisions of 40 CFR Section 122.41 (m) & (n).
9. Controlling the sources of infiltration and inflow into the sewer system.
10. A requirement to monitor and a limit of 0.05 mg/L for residual chlorine when it is used.
11. Monitoring for arsenic, barium, cadmium, hexavalent chromium, total chromium, copper, weak acid dissociable cyanide, total cyanide, fluoride, dissolved iron, total iron, lead, manganese, mercury, nickel, oil, phenols, selenium, silver and zinc is required to be conducted semi-annually beginning 3 months from the effective date.
12. Submission of annual fiscal data.
13. 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.
14. Submission of Capacity, Management, Operations, and Maintenance (CMOM) plan.
15. Submission of semi-annual reports indicating the quantities of sludge generated and disposed.
16. Reopening of this Permit to include revised effluent limitations based on a Total Maximum Daily Load (TMDL) or other water quality study.

17. At minimum of 85% removal of CBOD₅ and suspended solids for Outfalls 001 & 002.
18. At minimum of 65% removal of CBOD₅ and suspended solids for Outfalls 003 & 004.
19. Maintain records of stream flows, lagoon flows and activated sludge plant flows.
20. Sampling for Metals Translators for Cadmium, Copper, and Zinc.
21. Compliance schedule for metals limits.



NPDES Permit No. IL0029149

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:

City of Harrisburg
110 East Locust Street
Harrisburg, Illinois 62946

Facility Name and Address:

City of Harrisburg-STP
406 Seright Street
Harrisburg, Illinois 62946
(Saline County)

Receiving Waters: Middle Fork Saline River

In compliance with the provisions of the Illinois Environmental Protection Act, Title 35 of the Ill. Adm. Code, Subtitle C, Chapter I, 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, Monitoring, and Reporting

FINAL

Discharge Number(s) and Name(s): STP Outfall 001 (Mechanical Plant)

Load limits computed based on a design average flow (DAF) of 1.6 MGD (design maximum flow (DMF) of 3.125 MGD).

From the effective date of this Permit until the expiration date, the effluent of the above discharge(s) shall be monitored and limited at all times as follows:

Parameter	LOAD LIMITS lbs/day DAF (DMF)*			CONCENTRATION LIMITS mg/L			Sample Frequency	Sample Type
	Monthly Average	Weekly Average	Daily Maximum	Monthly Average	Weekly Average	Daily Maximum		
Flow (MGD)							Continuous	
CBOD ₅ *****	133 (261)		267 (521)	10		20	3 Days/Week	Composite
Suspended Solids****	160 (313)		320 (626)	12		24	3 Days/Week	Composite
pH	Shall be in the range of 6 to 9 Standard Units						3 Days/Week	Grab
Fecal Coliform	Monitor and Report (May through October)						1 Day/Month	Grab
Chlorine Residual						0.05	***	Grab
Ammonia Nitrogen: (as N)								
March	25 (50)	61 (120)	135 (263)	1.9	4.6	10.1	3 Days/Week	Composite
April, May, Sept., Oct.	25 (50)	61 (120)	129 (253)	1.9	4.6	9.7	3 Days/Week	Composite
June-August	16 (31)	40 (78)	112 (219)	1.2	3	8.4	3 Days/Week	Composite
November-February	53 (104)		92 (180)	4.0	NA	6.9	3 Days/Week	Composite
Phosphorus (as Total Phosphorus)	13 (26)			1.0			3 Days/Week	Composite
Total Nitrogen	Monitor Only						1 Day/Month	Composite
Cadmium	0.051 (0.099)		0.74 (1.4)	0.0038		0.0552	3 Days/Week	Composite
Cyanide (WAD)	0.069 (0.14)			0.0052			3 Days/Week	Composite
Copper	0.59 (1.1)		1.0 (2.0)	0.044		0.0754	3 Days/Week	Composite
Iron (dissolved)			13 (26)			1.0	3 Days/Week	Composite
Silver			0.067 (0.13)			0.005	3 Days/Week	Composite
Zinc	1.6 (3.0)		6.0 (12)	0.1166		0.4493	3 Days/Week	Composite
				Monthly Avg. not less than	Weekly Avg. not less than	Daily Minimum		
Dissolved Oxygen March-July				--	6.0	5.0	3 Days/Week	Grab
August-February				5.5	4.0	3.5	3 Days/Week	Grab

*Load limits based on design maximum flow shall apply only when flow exceeds design average flow.

**Carbonaceous BOD₅ (CBOD₅) testing shall be in accordance with 40 CFR 136.

***See Special Condition 10.

****See Special Condition 17.

Flow shall be reported on the Discharge Monitoring Report (DMR) as monthly average and daily maximum.

Fecal Coliform shall be monitored May through October and reported on the DMR as a daily maximum value.

pH shall be reported on the DMR as minimum and maximum value.

Chlorine Residual shall be reported on DMR as daily maximum value.

Dissolved oxygen shall be reported on the DMR as a minimum value.

Phosphorus shall be reported on the DMR as a monthly average value.

Effluent Limitations, Monitoring, and Reporting

FINAL

Discharge Number(s) and Name(s): STP Outfalls 003 & 004† (Lagoon Facility)

Load limits computed based on a design average flow (DAF) of 0.58 MGD (design maximum flow (DMF) of 2.325 MGD).

These facilities shall not be used until the mechanical plant is treating its Design Maximum Flow (DMF) and the first flush basin has reached full capacity, nor shall these facilities be allowed to discharge when the dilution provided by the receiving stream is less than 5 times the flow rate of the discharge from this Lagoon facility.

From the effective date of this Permit until the expiration date, the effluent of the above discharge(s) shall be monitored and limited at all times as follows†:

Parameter	LOAD LIMITS lbs/day DAF (DMF)*			CONCENTRATION LIMITS mg/L			Sample Frequency	Sample Type
	Monthly Average	Weekly Average	Daily Maximum	Monthly Average	Weekly Average	Daily Maximum		
Flow (MGD)							Continuous	
CBOD ₅ ****	97 (388)	193 (776)		20	40		Daily When Discharging	Composite
Suspended Solids****	121 (485)	218 (873)		25	45		Daily When Discharging	Composite
pH	Shall be in the range of 6 to 9 Standard Units						Daily When Discharging	Grab
Fecal Coliform	Monitor and Report (May through October)						Daily When Discharging	Grab
Chlorine Residual						0.05	***	Grab
Ammonia Nitrogen: (as N) Mar-May, Sept, Oct.	19 (78)		49 (196)	4.0	NA	10.1	Daily When Discharging	Composite
June-August	9.7 (39)	24 (95)	41 (163)	2.0	4.9	8.4	Daily When Discharging	Composite
November-February			33 (134)	NA	NA	6.9	Daily When Discharging	Composite
Phosphorus (as Total Phosphorus)	4.8 (19)			1.0			1 Day/Month	Composite
Total Nitrogen	Monitor Only						1 Day/Month	Composite
Copper	0.21 (0.85)		0.36 (1.5)	0.044		0.0754	Daily When Discharging	Composite
				Monthly Average not less than	Weekly Average not less than	Daily Minimum		
Dissolved Oxygen March-July				NA	6.0	5.0	Daily When Discharging	Grab
August-February				5.5	4.0	3.5	Daily When Discharging	Grab

*Load limits based on design maximum flow shall apply only when flow exceeds design average flow.

**Carbonaceous BOD₅ (CBOD₅) testing shall be in accordance with 40 CFR 136.

***See Special Condition 10.

****See Special Condition 18.

Flow shall be reported on the Discharge Monitoring Report (DMR) as monthly average and daily maximum.

Fecal Coliform shall be monitored May through October and reported on the DMR as a daily maximum value.

pH shall be reported on the DMR as minimum and maximum value.

Chlorine Residual shall be reported on DMR as daily maximum value.

Dissolved oxygen shall be reported on the DMR as a minimum value.

Phosphorus shall be reported on the DMR as a monthly average value.

†Outfall 004 is to be considered an alternate discharge point to Outfall 003, with all of the same limitations and requirements as

Effluent Limitations, Monitoring, and Reporting

FINAL

Outfall 003.

† In addition to these load limits, load limits also exist for the combined flow from discharges numbered 001 and 003 or 004. On days when discharge occurs from Outfall 003 or 004, the combined load limits shall be calculated and reported on the Discharge Monitoring Reports (DMRs). The combined load limits from discharge numbers 001 and 003 or 004 are:

<u>LOAD LIMITS lbs/day</u>		
Parameter	Monthly Average	Daily Maximum
CBOD ₅ **	521	1043
Suspended Solids	652	1173
Ammonia Nitrogen: (as N)		
March	50	263
April, May, Sept., Oct.	50	253
June-August	31	219
November-February	104	180
Cadmium	0.099	1.4
Cyanide (WAD)	0.14	
Copper	1.1	2.0
Iron (dissolved)		26
Silver		0.13
Zinc	3.0	12

Effluent Limitations, Monitoring, and Reporting

FINAL

Discharge Number(s) and Name(s): Excess Flow Outfall 002

These facilities shall not be utilized until the main treatment facility is receiving its Design Maximum Flow (DMF)* (flows in excess of 5.45 MGD).

From the effective date of this Permit until the expiration date, the effluent of the above discharge(s) shall be monitored and limited at all times as follows:

Parameter	CONCENTRATION LIMITS (mg/L)		Sample Frequency	Sample Type
	Monthly Average	Weekly Average		
Total Flow (MG)			Daily When Discharging	Continuous
BOD ₅ **	30	45	Daily When Discharging	Grab
Suspended Solids**	30	45	Daily When Discharging	Grab
Fecal Coliform	Daily Maximum Shall not Exceed 400 per 100 mL		Daily When Discharging	Grab
pH	Shall be in the range of 6 to 9 Standard Units		Daily When Discharging	Grab
Chlorine Residual	0.75		Daily When Discharging	Grab
Ammonia Nitrogen (as N)	Monitor Only		Daily When Discharging	Grab
Phosphorus (As Total Phosphorus)	Monitor Only		Daily When Discharging	Grab

*An explanation shall be provided in the comment section of the DMR should these facilities be used when the main treatment facility is not receiving Design Maximum Flow (DMF). The explanation shall identify the reasons the main facility is at a diminished treatment capacity. Additionally, the Permittee shall comply with the provisions of Special Condition 8.

Total flow in million gallons shall be reported on the Discharge Monitoring Report (DMR) in the quantity maximum column.

Report the number of days of discharge in the comments section of the DMR.

Fecal Coliform shall be reported on the DMR as daily maximum.

Chlorine Residual shall be reported on the DMR as monthly average.

pH shall be reported on the DMR as a minimum and a maximum.

BOD₅ and Suspended Solids shall be reported on the DMR as a monthly and weekly average concentration.

**See Special Condition 17.

Effluent Limitations, Monitoring, and Reporting

FINAL

Influent Monitoring, and Reporting

The influent to the plant shall be monitored as follows:

<u>Parameter</u>	<u>Sample Frequency</u>	<u>Sample Type</u>
Flow (MGD)	Continuous	
BOD ₅ **	3 Days/Week	Composite
Suspended Solids**	3 Days/Week	Composite

Influent samples shall be taken at a point representative of the influent.

Flow (MGD) shall be reported on the Discharge Monitoring Report (DMR) as monthly average and daily maximum.

BOD₅ and Suspended Solids shall be reported on the DMR as a monthly average concentration.

Special Conditions

SPECIAL CONDITION 1: This Permit may be modified to include different final effluent limitations or requirements which are consistent with applicable laws and regulations. The IEPA will public notice the permit modification.

SPECIAL CONDITION 2: The use or operation of this facility shall be by or under the supervision of a Certified Class 1 operator.

SPECIAL CONDITION 3: The IEPA may request in writing submittal of operational information in a specified form and at a required frequency at any time during the effective period of this Permit.

SPECIAL CONDITION 4: The IEPA may request more frequent monitoring by permit modification pursuant to 40 CFR Section 122.63 and Without Public Notice.

SPECIAL CONDITION 5: 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 6: 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 25th 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
Attention: Compliance Assurance Section, Mail Code # 19
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276

SPECIAL CONDITION 7: 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 8: The provisions of 40 CFR Section 122.41(m) & (n) are incorporated herein by reference.

SPECIAL CONDITION 9: This Permit may be modified to include requirements for the Permittee on a continuing basis to evaluate and detail its efforts to effectively control sources of infiltration and inflow into the sewer system and to submit reports to the IEPA if necessary.

SPECIAL CONDITION 10: For Discharge Nos. 001 and 003 or 004, any use of chlorine to control slime growths, odors or as an operational control, etc. shall not exceed the limit of 0.05 mg/L (daily maximum) total residual chlorine in the effluent. Sampling is required on a daily grab basis during the chlorination process. Reporting shall be submitted on the DMR's on a monthly basis.

Special Conditions

SPECIAL CONDITION 11: The Permittee shall conduct semi-annual monitoring of the effluent and report concentrations (in mg/l; ng/l for Mercury) of the following listed parameters. Monitoring shall begin three (3) months from the effective date of this permit. The sample shall be a 24-hour effluent composite except as otherwise specifically provided below and the results shall be submitted on Discharge Monitoring Report Forms to IEPA unless otherwise specified by the IEPA. The parameters to be sampled and the minimum reporting limits to be attained are as follows:

<u>STORET</u> <u>CODE</u>	<u>PARAMETER</u>	<u>Minimum</u> <u>reporting limit</u>
01002	Arsenic	0.05 mg/L
01007	Barium	0.5 mg/L
01027	Cadmium	0.001 mg/L
01032	Chromium (hexavalent) (grab)	0.01 mg/L
01034	Chromium (total)	0.05 mg/L
01042	Copper	0.005 mg/L
00718	Cyanide (available *** or amenable to chlorination) (grab)	5.0 ug/L
00720	Cyanide (total) (grab not to exceed 24 hours)	5.0 ug/L
00951	Fluoride	0.1 mg/L
01045	Iron (total)	0.5 mg/L
01046	Iron (Dissolved)	0.5 mg/L
01051	Lead	0.05 mg/L
01055	Manganese	0.5 mg/L
71900	Mercury (grab)**	1.0 ng/L*
01067	Nickel	0.005 mg/L
00556	Oil (hexane soluble or equivalent) (Grab Sample only)	5.0 mg/L
32730	Phenols (grab)	0.005 mg/L
01147	Selenium	0.005 mg/L
01077	Silver (total)	0.003 mg/L
01092	Zinc	0.025 mg/L

Unless otherwise indicated, concentrations refer to the total amount of the constituent present in all phases, whether solid, suspended or dissolved, elemental or combined, including all oxidation states.

*1.0 ng/L = 1 part per trillion.

**Utilize USEPA Method 1631E and the digestion procedure described in Section 11.1.1.2 of 1631E.

*** USEPA Method OIA – 1677.

SPECIAL CONDITION 12: During January of each year the Permittee shall submit annual fiscal data regarding sewerage system operations to the Illinois Environmental Protection Agency/Division of Water Pollution Control/Compliance Assurance Section. The Permittee may use any fiscal year period provided the period ends within twelve (12) months of the submission date.

Submission shall be on forms provided by IEPA titled "Fiscal Report Form For NPDES Permittees".

SPECIAL CONDITION 13: The Permittee shall conduct biomonitoring of the effluent from Discharge Number(s) 001.

Biomonitoring

1. Acute Toxicity - Standard definitive acute toxicity tests shall be run on at least two trophic levels of aquatic species (fish, invertebrate) representative of the aquatic community of the receiving stream. Testing must be consistent with Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms (Fifth Ed.) EPA/821-R-02-012. Unless substitute tests are pre-approved; the following tests are required:
 - a. Fish - 96 hour static LC50 Bioassay using fathead minnows (*Pimephales promelas*).
 - b. Invertebrate 48-hour static LC50 Bioassay using *Ceriodaphnia*.
2. Testing Frequency - The above tests shall be conducted using 24-hour composite samples unless otherwise authorized by the IEPA. Samples must be collected in the 18th, 15th, 12th, and 9th month prior to the expiration date of this Permit.
3. Reporting - Results shall be reported according to EPA/821-R-02-012, Section 12, Report Preparation, and shall be submitted to IEPA, Bureau of Water, Compliance Assurance Section within one week of receipt from the laboratory. Reports are due to the IEPA no later than the 16th, 13th, 10th, and 7th month prior to the expiration date of this Permit.
4. Toxicity - Should a bioassay result in toxicity to >20% of organisms test in the 100% effluent treatment, the IEPA may require, upon notification, six (6) additional rounds of monthly testing on the affected organism(s) to be initiated within 30 days of the toxic

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bioassay. Results shall be submitted to IEPA within (1) week of becoming available to the Permittee. Should any of the additional bioassays result in toxicity to >50% of organisms tested in the 100% effluent treatments, the Permittee may wish to contact the IEPA to request the discontinuance of further sampling at which time the IEPA may require the Permittee to begin the toxicity reduction evaluation and identification as outlined below.

5. Toxicity Reduction Evaluation - Should the results of the biomonitoring program identify toxicity, the IEPA may require that the Permittee prepare a plan for toxicity reduction evaluation and identification. This plan shall be developed in accordance with Toxicity Reduction Evaluation Guidance for Municipal Wastewater Treatment Plants, EPA/833B-99/002, and shall include an evaluation to determine which chemicals have a potential for being discharged in the plant wastewater, a monitoring program to determine their presence or absence and to identify other compounds which are not being removed by treatment, and other measures as appropriate. The Permittee shall submit to the IEPA its plan for toxicity reduction evaluation within ninety (90) days following notification by the IEPA. The Permittee shall implement the plan within ninety (90) days or other such date as contained in a notification letter received from the IEPA.

The IEPA may modify this Permit during its term to incorporate additional requirements or limitations based on the results of the biomonitoring. In addition, after review of the monitoring results, the IEPA may modify this Permit to include numerical limitations for specific toxic pollutants. Modifications under this condition shall follow public notice and opportunity for hearing.

SPECIAL CONDITION 14: The Permittee shall work towards the goals of achieving no discharges from sanitary sewer overflows or basement backups and ensuring that overflows or backups, when they do occur do not cause or contribute to violations of applicable standards or cause impairment in any adjacent receiving water. In order to accomplish these goals, the Permittee shall develop, implement and submit to the IEPA a Capacity, Management, Operations, and Maintenance (CMOM) plan within twelve (12) months of the effective date of this Permit. The plan should utilize the USEPA document "Guide for Evaluation Capacity, Management, Operation and Maintenance (CMOM) Programs at Sanitary Sewer Collection Systems." [EPA 305 – B – 05 – 002 (January 2005)] for guidance and develop a project implementation schedule. The Permittee should work as appropriate, in consultation with affected authorities at the local, county, and/or state level to develop the plan components involving third party notification of overflow events. The Permittee may be required to construct additional sewage transport and/or treatment facilities in future permits or other enforceable documents should the implemented CMOM plan indicate that the Permittee's facilities are not capable of conveying and treating the flow for which they were designed.

The CMOM plan shall include the following elements:

a. Measures and Activities:

1. A complete map of the collection system owned and operated by the Permittee;
2. Schedules, checklists, and mechanisms to ensure that preventative maintenance is performed on equipment owned and operated by the Permittee;
3. An assessment of the capacity of the collection and treatment system owned and operated by the Permittee at critical junctions and immediately upstream of locations where overflows and backups occur or are likely to occur; and
4. Identification and prioritization of structural deficiencies in the system owned and operated by the Permittee.

b. Design and Performance Provisions:

1. Monitor the effectiveness of CMOM;
2. Upgrade the elements of the CMOM plan as necessary; and
3. Maintain summary of CMOM activities.

c. Overflow Response Plan:

1. Know where overflows within the facilities owned and operated by the Permittee occur;
2. Respond to each overflow to determine additional actions such as clean up.
3. Locations where basement back-ups and/or sanitary sewer overflows occur shall be evaluated as soon as practicable for excessive inflow /infiltration, obstructions or other causes of overflows or back-ups as set forth in the System Evaluation Plan.

d. System Evaluation Plan.

e. Reporting and Monitoring Requirements.

f. Third Party Notice Plan:

1. Describes how, under various overflow scenarios, the public, as well as other entities, would be notified of overflows within the Permittee's system that may endanger public health, safety or welfare;
2. Identifies overflows within the Permittee's system that would be reported, giving consideration to various types of events including events with potential widespread impacts;

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3. Identifies who shall receive the notification;
4. Identifies the specific information that would be reported including actions that will be taken to respond to the overflow;
5. Includes a description of the lines of communication; and
6. Includes the identities and contact information of responsible POTW officials and local, county, and/or state level officials.

SPECIAL CONDITION 15: For the duration of this Permit, the Permittee shall determine the quantity of sludge produced by the treatment facility in dry tons or gallons with average percent total solids analysis. The Permittee shall maintain adequate records of the quantities of sludge produced and have said records available for IEPA inspection. The Permittee shall submit to the IEPA, at a minimum, a semi-annual summary report of the quantities of sludge generated and disposed of, in units of dry tons or gallons (average total percent solids) by different disposal methods including but not limited to application on farmland, application on reclamation land, landfilling, public distribution, dedicated land disposal, sod farms, storage lagoons or any other specified disposal method. Said reports shall be submitted to the IEPA by January 31 and July 31 of each year reporting the preceding January thru June and July thru December interval of sludge disposal operations.

Duty to Mitigate. The Permittee shall take all reasonable steps to minimize any sludge use or disposal in violation of this Permit.

Sludge monitoring must be conducted according to test procedures approved under 40 CFR 136 unless otherwise specified in 40 CFR 503, unless other test procedures have been specified in this Permit.

Planned Changes. The Permittee shall give notice to the IEPA on the semi-annual report of any changes in sludge use and disposal.

The Permittee shall retain records of all sludge monitoring, and reports required by the Sludge Permit as referenced in Standard Condition 25 for a period of at least five (5) years from the date of this Permit.

If the Permittee monitors any pollutant more frequently than required by the Sludge Permit, the results of this monitoring shall be included in the reporting of data submitted to the IEPA.

Monitoring reports for sludge shall be reported on the form titled "Sludge Management Reports" to the following address:

Illinois Environmental Protection Agency
Bureau of Water
Compliance Assurance Section
Mail Code #19
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276

SPECIAL CONDITION 16: This Permit may be modified to include alternative or additional final effluent limitations pursuant to an approved Total Maximum Daily Load (TMDL) Study or upon completion of an alternate Water Quality Study.

SPECIAL CONDITION 17. Final conditions – For Discharge Nos. 001 & 002: The 30-day average percent removal for suspended solids and BOD5 shall not be less than 85%. Compliance with this limitation shall be assessed by comparing whether the arithmetic mean of the values for effluent samples collected in a period of one calendar month exceed 15 percent of the arithmetic mean of the values for influent samples collected at approximately the same time during the same period. If they do, then this limitation shall be deemed to have not been complied with. The percent removal need not be reported to the IEPA on DMRs, but influent and effluent data must be available, as required elsewhere in this Permit, for IEPA inspection and review. For measuring compliance with this requirement, 5 mg/L shall be added to the effluent CBODs concentration to determine the effluent BODs concentration.

SPECIAL CONDITION 18. Final conditions – For Discharge Nos. 003 & 004: The 30-day average percent removal for suspended solids and BOD5 shall not be less than 65%. Compliance with this limitation shall be assessed by comparing whether the arithmetic mean of the values for effluent samples collected in a period of one calendar month exceed 15 percent of the arithmetic mean of the values for influent samples collected at approximately the same time during the same period. If they do, then this limitation shall be deemed to have not been complied with. The percent removal need not be reported to the IEPA on DMRs, but influent and effluent data must be available, as required elsewhere in this Permit, for IEPA inspection and review. For measuring compliance with this requirement, 5 mg/L shall be added to the effluent CBODs concentration to determine the effluent BODs concentration.

SPECIAL CONDITION 19. The Permittee shall maintain written records of the treatment plant operations that includes at least the following: The flow (in MGD and cfs) in the receiving water upstream of discharge numbers 003 and 004 for each day that a discharge from the lagoon system (discharge numbers 003 and 004) occurs, the maximum flow discharged from the lagoon system during the day (in MGD), the flow rate to the activated sludge facility at the time that discharge from the lagoon occurs, the flow rate to both the activated sludge plant and the lagoon system at the time that excess flow facilities are being used, and the flow rate to the lagoon system and the activated sludge system at the time that discharge occurs from excess flow treatment facilities. Such records need not be submitted to the IEPA unless specifically requested but shall be kept for at least 10 years.

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SPECIAL CONDITION 20: The Permittee may collect data in support of developing a site-specific metals translator for Cadmium, Copper, and Zinc in Outfall 001 and Copper for Outfall 003 and 004. Total and dissolved metals for a minimum of twelve weekly samples need to be collected from the effluent and at a downstream location indicative of complete mixing between the effluent and the receiving water to determine a metal translator for these parameters. The IEPA will review submitted sample data and may reopen and modify this Permit to eliminate or include revised effluent limitations for these parameters based on the metal translator determined from the collected data.

SPECIAL CONDITION 21:Schedule of Compliance with Final Effluent Limitations

Project Description: Construction of equipment for compliance with limitations for Phosphorus, Cadmium, Cyanide (WAD), Copper, Iron (dissolved), Silver, and Zinc.

The Permittee shall achieve compliance with the final effluent limitations as specified in this Permit for Discharge Number(s) 001, 003, and 004 by completion of the project described above in accordance with the following compliance schedule:

<u>ITEM</u>	<u>COMPLETION DATE</u>
Submit Sampling Plan to IEPA for Approval	30 Days from the Effective Date of This Permit
IEPA Approval of Sampling Plan	75 Days from the Effective Date of This Permit
Conduct Sampling	165 Days from the Effective Date of This Permit
Evaluate Sampling Results	255 Days from the Effective Date of This Permit
Design Improvements	495 Days from the Effective Date of This Permit
Submit for IEPA Construction Permit	585 Days from the Effective Date of This Permit
Begin Construction of Improvements	1005 Days from the Effective Date of This Permit
Achieve Compliance	3 years from the Effective Date of This Permit

This Permit may be modified, with Public Notice, to include revised compliance dates set out in this Permit that are superseded or supplemented by compliance dates in judicial orders, Pollution Control Board orders or grant agreements. Prior to such permit modification, the revised dates in the appropriate orders or grant agreements shall govern the Permittee's compliance.

In addition, the IEPA may initiate a modification of the compliance schedule set out in this Permit at any time, to include other dates which are necessary to carry out the provisions of the Illinois Environmental Protection Act, the Federal Clean Water Act or regulations promulgated under those Acts. Public Notice of such modification and opportunity for public hearing shall be provided.

Reporting

The Permittee shall submit a report no later than fourteen (14) days following the completion dates indicated for each numbered item in the compliance schedule, indicating, a) the date the item was completed, or b) that the item was not completed. All reports shall be submitted to IEPA at the following address:

Illinois Environmental Protection Agency
 Division of Water Pollution Control
 Attention: Compliance Assurance Section, Mail Code #19
 1021 North Grand Avenue East
 P.O. Box 19276
 Springfield, Illinois 62794-9276