

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

January 19, 2006

RECEIVED
CLERK'S OFFICE
JAN 20 2006
STATE OF ILLINOIS
Pollution Control Board

City of Plano)
)
)
)
)
Petitioner,)
)
v.)
)
ILLINOIS ENVIRONMENTAL)
PROTECTION AGENCY,)
)
Respondent.)

IEPA -- 06-7
(Provisional Variance-Water)

Re: Provisional Variance From Limits on Daily Maximum
For Ammonia Nitrogen of NPDES Permit IL0020052

Dear Mr. Halm:

The Illinois Environmental Protection Agency (Agency) has completed its technical review of the attached provisional variance request submitted by the City of Plano (City) on January 13, 2006 (Attachment A). The City is in the process of improving its wastewater treatment capabilities with respect to nitrification and phosphorus removal. It is requesting this provisional variance so that it can complete the necessary construction to tie in new aeration tanks into the wastewater treatment system.

Background

The City of Plano owns and operates a wastewater treatment facility located at 1001 South Hale Street in Plano, Illinois. This treatment facility consists of an activated sludge plant designed for 0.95 million gallons per day (MGD) design average flow and 1.67 MGD design maximum flow. Treatment consists of automatic bar screening, aerated grit removal, flow equalization, aeration, final clarification, chlorination and dechlorination. The facility discharges to Big Rock Creek, which is a tributary at the Fox River.

The City is in the process of completing its 2004 Improvement Project (project) to expand and improve the treatment plant capabilities relating to nitrification and

phosphorous removal. The project was permitted by the Agency in IEPA Permit No. 2004-AB-0275.

In order to complete the project the City must construct a new connection between the existing aeration tanks and the new aeration tanks. While this construction is ongoing, one of the three existing aeration tanks will be taken out of service and short-circuiting may occur in one of the other remaining tanks. The one aeration tank will be out of service for approximately 15 days. After the necessary construction is completed, the existing aeration tank will immediately be brought back in service.

Relief Requested

The City requests a provisional variance from the permit limits contained in NPDES permit IL0020052 for ammonia nitrogen (Attachment B). This permit requires the City to meet the following for ammonia nitrogen:

Month	Month Avg. (mg/l)	Daily Max (mg/l)
April – Oct.	1.5	3.0
Nov – Feb.	2.3	3.9
March	1.8	5.1

During the period of the requested provisional variance the city will not exceed 15 mg/l ammonia nitrogen as a daily maximum.

Agency Determinations

The Agency has reviewed the requested provisional variance and has concluded the following:

1. The environmental impact from the requested relief is predicted to be minimal;
2. No other reasonable alternative appear available;
3. No public water supplies will be affected;
4. No federal regulations will preclude the granting of this request; and
5. The City will face an arbitrary and unreasonable hardship if the request is not granted.

The Agency hereby GRANTS the City of Plano a provisional variance from the daily maximum permit limits for ammonia nitrogen of NPDES permit IL0020052, subject to the following conditions:

- A. The provisional variance shall begin January 13, 2006, and end no later than January 27, 2006, during which time the City can exceed the daily maximum permit limits for ammonia nitrogen as specified in NPDES permit IL0020052.
- B. The City shall operate its system to produce the best effluent possible, and at no time shall the City exceed a daily maximum of 15 mg/l for ammonia nitrogen.
- C. The City shall notify Roger Callaway of the Agency by telephone at 217/782-9720 when the aeration tank is taken out of service and again when aeration tank is brought back into service. Written confirmation of each notice shall be sent within five day to the following address:

Illinois Environmental Protection Agency
 Bureau of Water – Water Pollution Control
 Attention: Roger Callaway
 1021 North Grand Avenue East, MC #19
 Springfield, Illinois 62794-9276

- D. The City shall sign a certificate of acceptance of this provisional variance and forward that certificate to Roger Callaway at the address indicated above within one day of the date of this order. The certification should take the following form:

I (We) _____, hereby accept and agree to be bound by all terms and condition of the provisional variance granted by the Agency in _____ dated _____.

 Petitioner

 Authorized Agent

 Title

 Date

The City shall continue to monitor and maintain compliance with all other parameters and conditions specified in its NPDES Permit No. IL0020052.

Conclusion

The Agency grants this provisional variance in accordance with its authority contained in Sections 35(b), 36(c), and 37(b) of the Illinois Environmental Protection Act (415 ILCS

5/35(b), 36(c), and 37(b) (2004). The decision to grant this provisional variance is not intended to address compliance with any other applicable laws or regulations.

Sincerely,

A handwritten signature in black ink, appearing to read "Robert A. Messina", with a long horizontal flourish extending to the right.

Robert A. Messina
Chief Legal Counsel

cc: Marcia Willhite
Roger Callaway
Vera Herst

WALTER E. DEUCHLER ASSOCIATES INC.*Consulting Engineers*

230 WOODLAWN AVENUE • TELEPHONE (630) 897-4651 • FAX (630) 897-5696

AURORA, ILLINOIS 60506

January 13, 2006

RECEIVED
JAN 13 2006

Mr. Roger Calloway
Illinois Environmental Protection Agency
Bureau of Water
1021 N. Grand Ave. East
Springfield, IL 62794-9276

Environmental Protection Agency
STATE OF ILLINOIS

**RE: City of Plano, Illinois
2004 Wastewater Treatment Plant Improvements Project
Request for Provisional Variance**

Dear Mr. Calloway:

The City of Plano is respectfully requesting a Provisional Variance in accordance with Title 35: Subtitle A: Chapter II: Part 180. The discussion below follows the "thirteen points" listed in Section 180.102.

- 1) The City of Plano requests a provisional variance from NPDES permit IL0020052: Ammonia Nitrogen as N (November-February), monthly average 2.3 mg/l, and daily maximum of 4.7 mg/l. It is anticipated that daily maximum Ammonia Nitrogen as N will not exceed 15 mg/l during the period of the provisional variance.
- 2) The 2004 Improvements project is currently under construction, IEPA Permit No. 2004-AB-0275. The project was undertaken by the City to expand and improve the treatment capabilities of the plant specifically related to nitrification, and phosphorous removal. Prior to bringing the new aeration tanks on line, the mechanical contractor must saw cut an opening to connect the existing aeration tanks and the new aeration tanks. To accomplish

- Water Works and Sewerage
- Streets and Street Lighting

- Buildings and Structures
- Investigations and Reports

- Design and Construction
- Project Financing

Mr. Roger Calloway
Illinois Environmental Protection Agency
Bureau of Water
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this, one of the three existing aeration tanks must be taken out of service, reducing the aeration capacity by 33%. The aeration tanks are currently configured in a 3 pass arrangement. The last pass will be taken out of service, and we do not have provision for directing influent flow to the middle pass. As a result, the second pass will be in use but there will likely be short circuiting.

One aeration tank will be out of service for approximately 15 days, potentially resulting in a discharge of ammonia greater than the NPDES permit limits.

The hydraulic retention time with one tank out of service, considering current, existing flow conditions of approximately 600,000 gpd, is 12.71 hours which is greater than the 8 hours required per Title 35: Subtitle C: Chapter II: Part 370.1210.

However, there may be times when flows are over 2 MGD and the retention time in the two aerations tanks would be 3.81 hours which is less than the 8 hours required per Title 35: Subtitle C: Chapter II: Part 370.1210.

- 3) See Above.
- 4) Not applicable.
- 5) The ammonia discharge will have a short term affect on the receiving stream, the Cedar Dell Golf Course Irrigation Pond, and the Big Rock Creek.
- 6) If the variance were not granted, the City would not be able to make the necessary connections to the existing aeration tanks and as a result would not be able to bring the new aeration tanks on-line in a timely manner to facilitate the remainder of the construction.
- 7) After the necessary connection is made, the existing aeration tank will immediately be brought back in service.
- 8) Alternatives to the provisional variance were evaluated in the field with the plant superintendent, the mechanical contractor, resident engineer and consulting engineer. The connection to the existing tank, if delayed to a date later in the project, would require

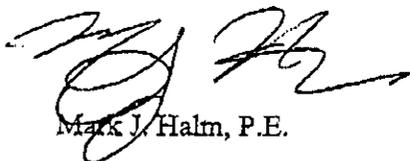
Mr. Roger Calloway
Illinois Environmental Protection Agency
Bureau of Water
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additional work by the mechanical and general contractors.

- 9) The variance is requested for a period of 15 days, **beginning January 11, 2006.**
- 10) No other variances have been granted to the City this calendar year.
- 11) The City's NPDES permit is current.
- 12) The City does not have any other "actions" pending before the Illinois Pollution Control Board.

Very truly yours,

WALTER E. DEUHLER ASSOCIATES, INC.



Mark J. Halm, P.E.

Encl.

cc: Mr. Darrin Boyer, City of Plano

Attachment B

NPDES Permit No. IL0020052

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: October 31, 2010

Issue Date: August 8, 2005

Effective Date: November 1, 2005

Name and Address of Permittee:

City of Plano
17 East Main Street
Plano, Illinois 60545

Facility Name and Address:

City of Plano - STP
1001 South Hale Street
Plano, Illinois 60545
(Kendall County)

Receiving Waters: Big Rock Creek

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

SAK:AAH:05052401.daa

NPDES Permit No. IL0020052

Effluent Limitations, Monitoring, and Reporting

FINAL

Discharge Number(s) and Name(s): 001 STP Outfall (Existing)

Load limits computed based on a design average flow (DAF) of 0.95 MGD (design maximum flow (DMF) of 1.67 MGD).

Excess flow facilities (if applicable) shall not be utilized until the main treatment facility is receiving its maximum practical flow.

From the effective date of this permit until the start of operation of the expanded STP or expiration date whichever comes first, the effluent of the above discharge(s) shall be monitored and limited at all times as follows:

Parameter	LOAD LIMITS lbs/day		CONCENTRATION		Sample Frequency	Sample Type
	Monthly Average	Daily Maximum	Monthly Average	Daily Maximum		
Flow (MGD)					Continuous	RIT ¹
CBOD ₅ **	79 (139)	159 (279)	10	20	2 Days/Week	Composite
Suspended Solids	95 (167)	190 (334)	12	24	2 Days/Week	Composite
PH	Shall be in the range of 6 to 9 Standard Units				2 Days/Week	Grab
Fecal Coliform***	Daily Maximum shall not exceed 400 per 100 mL (May through October)				2 Days/Week	Grab
Chlorine Residual***				0.05	2 Days/Week	Grab
Ammonia Nitrogen as (N)						
April through Oct.	12 (21)	24 (42)	1.5	3.0	2 Days/Week	Composite
Nov. through Feb.	18 (32)	31 (54)	2.3	3.9	2 Days/Week	Composite
March	14 (25)	40 (71)	1.8	5.1	2 Days/Week	Composite

*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 7

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

Fecal Coliform shall be reported on the DMR as Daily Maximum.

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

Chlorine Residual shall be reported on DMR as daily maximum.

¹Recording, Indicating, Totalizing.

Effluent Limitations, Monitoring, and Reporting

FINAL

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

Load limits computed based on a design average flow (DAF) of 2.44 MGD (design maximum flow (DMF) of 5.66 MGD).

Excess flow facilities (if applicable) shall not be utilized until the main treatment facility is receiving its maximum practical flow.

From the start of operation of the expanded STP 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		CONCENTRATION		Sample Frequency	Sample Type
	Monthly Average	Daily Maximum	Monthly Average	Daily Maximum		
Flow (MGD)					Continuous	RIT ¹
CBOD ₅ **	204 (472)	407 (944)	10	20	3 Days/Week	Composite
Suspended Solids	244 (566)	488 (1,133)	12	24	3 Days/Week	Composite
PH	Shall be in the range of 6 to 9 Standard Units				3 Days/Week	Grab
Fecal Coliform***	Daily Maximum shall not exceed 400 per 100 mL (May through October)				3 Days/Week	Grab
Ammonia Nitrogen as (N)						
March through Oct.	29 (66)	61 (142)	1.4	3.0	3 Days/Week	Composite
Nov. through Feb.	47 (109)	79 (184)	2.3	3.9	3 Days/Week	Composite

*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 7

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

Fecal Coliform shall be reported on the DMR as Daily Maximum.

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

¹Recording, Indicating, Totalizing.

NPDES Permit No. IL0020052

Influent Monitoring, and Reporting

The influent to the plant shall be monitored as follows:

Parameter	Sample Frequency *	Sample Type
Flow (MGD)	Continuous	RIT**
BOD ₅	2 Days/Week	Composite
Suspended Solids	2 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.

*Sampling frequency for the proposed plant shall be 3 Days/Week.

**Recording, Indicating, Totalizing.

NPDES Permit No. IL0020052

Special Conditions

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

SPECIAL CONDITION 2. The use or operation of the existing facility shall be by or under the supervision of a Certified Class 2 operator and the proposed plant shall be operated by 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 § 122.63 and Without Public Notice in the event of operational, maintenance or other problems resulting in possible effluent deterioration.

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. 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 7. Fecal Coliform limits for discharge point 001 are effective May thru October. Sampling of Fecal Coliform is only required during this time period.

The total residual chlorine limit is applicable at all times. If the Permittee is chlorinating for any purpose during the months of November through April, sampling is required on a daily grab basis. Sampling frequency for the months of May through October shall be as indicated on effluent limitations, monitoring and reporting page of this Permit.

SPECIAL CONDITION 8. 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 9. 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 23 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.

NPDES Permit No. IL0020052

Special Conditions

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 10. 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 (eDMRs) instead of mailing paper DMRs to the IEPA. More information, including registration information for the eDMR program, can be obtained on the IEPA website, <http://www.epa.state.il.us/water/edmr/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 11. The Permittee shall monitor the effluent and report concentrations (in mg/L) of the following listed parameters eighteen (18) months prior to the expiration date and again at twelve (12) months prior to the expiration date. 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 detection limits to be attained are as follows:

<u>STORET CODE</u>	<u>PARAMETER</u>	<u>Minimum detection 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 (grab) (weak acid dissociable)	5.0 ug/L
00720	Cyanide (grab not to exceed 24 hours) (total)	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) (using USEPA Method 1631 or equivalent)	1.0 ng/L*
01067	Nickel	0.005 mg/L

Special Conditions

<u>STORET CODE</u>	<u>PARAMETER</u>	<u>Minimum detection limit</u>
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.

SPECIAL CONDITION 12. For the proposed plant expansion 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. Except as noted here and in the IEPA document [Effluent Biomonitoring and Toxicity Assessment], testing must be consistent with Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms (Fourth Ed.) EPA/600/4-90-027F. 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/600/4-90/027F, 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 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 Conditions

SPECIAL CONDITION 13. The Permittee shall notify the IEPA in writing once the treatment plant expansion has been completed. A letter stating the date that the expansion was completed shall be sent to the following address within fourteen (14) days of the expansion becoming operational:

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 14. The Permittee shall operate facilities designed for phosphorous removal. For a period of two years following completion of construction the Permittee shall operate the phosphorous removal systems without a phosphorous discharge limit. The Permittee shall analyze composite samples of influent and effluent for total phosphorous two days per week. Two years following completion of construction, a phosphorous limit not greater than 1.0 mg/l total phosphorous will go into effect. The sampling requirements shall be as stated above.

SPECIAL CONDITION 15. The Permittee shall convey 100 percent of its treated wastewater to the Cedar Dell Golf Course irrigation water holding pond. From the months of April through October it shall be the goal to apply an average of 400,000 gallons per day to the golf course. In November of each year, the Permittee shall report the quantities discharged during the months of April through October and the amount diverted on the Discharge Monitoring Reports. The Permittee shall obtain an applicable State operating permit for land application of tertiary wastewater effluent.

SPECIAL CONDITION 16. The Permittee will take grab samples upstream and downstream of the effluent discharge to Big Rock Creek once per month. The constituents to be measured are: temperature, pH, total phosphorous, and nitrate. Nitrate will be measured using a specific ion probe.

SPECIAL CONDITION 17. For Discharge No.001 (the proposed plant expansion), 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.