STATEMENT OF BASIS

as required by LAC 33:IX.3109, for draft **Louisiana Pollutant Discharge Elimination System Permit No. LA0034614; AI 19572; PER20050001** to discharge to waters of the **State of Louisiana** as per LAC 33:IX.2311.

The **permitting authority** for the Louisiana Pollutant Discharge Elimination System (LPDES) is:

Louisiana Department of Environmental Quality
Office of Environmental Services
P. O. Box 4313
Baton Rouge, Louisiana 70821-4313

I. THE APPLICANT IS: Town of Haynesville
Haynesville Wastewater Treatment Facility
1711 Main Street
Haynesville, LA 71038

II. PREPARED BY: Jim Bondy

DATE PREPARED: February 14, 2006

III. PERMIT ACTION: reissue LPDES permit LA0034614, AI 19572; PER20050001

LPDES application received: January 31, 2005

LPDES permit issued: August 1, 2000
LPDES permit expired: July 31, 2005

IV. FACILITY INFORMATION:

A. The application is for the discharge of treated sanitary wastewater from a publicly owned treatment works serving the Town of Haynesville.

B. The permit application does not indicate the receipt of industrial wastewater.

C. The facility is located at 2777 Burnham Road in Haynesville, Claiborne Parish.

D. The treatment facility consists of an activated sludge treatment plant. Disinfection is by chlorination.

E. Outfall 001

Discharge Location: Latitude 32° 58' 50" North
Longitude 93° 8' 0" West

Description: treated sanitary wastewater

Design Capacity: 0.50 MGD

Type of Flow Measurement which the facility is currently using:

V-Notch Wier w/Combination Totalizing Meter / Continuous Recorder

V. RECEIVING WATERS:

The discharge is into an unnamed ditch; thence into Middle Fork Bayou D'Arbonne; thence into Bayou D'Arbonne Lake in segment 080610 of the Ouachita River Basin.

The designated uses and degree of support for Segment 080610 of the Ouachita River Basin are as indicated in the table below[1/]:

Overall Degree of Support for Segment	Degree of Support of Each Use						
Partial	Primary Contact Recreation	Secondary Contact Recreation	Propagation of Fish & Wildlife	Outstanding Natural Resource Water	Drinking Water Supply	Shell fish Propagation	Agriculture
	Not Supported	Full	Not Supported	Full	N/A	N/A	N/A

[1/]The designated uses and degree of support for Segment 080610 of the Ouachita River Basin are as indicated in LAC 33:IX.1123.C.3, Table (3) and the 2004 Water Quality Management Plan, Water Quality Inventory Integrated Report, Appendix A, respectively.

VI. ENDANGERED SPECIES:

The receiving waterbody, Subsegment 080610 of the Ouachita River Basin, is not listed in Section II.2 of the Implementation Strategy as requiring consultation with the U. S. Fish and Wildlife Service (FWS). This strategy was submitted with a letter dated October 21, 2005 from Watson (FWS) to Gautreaux (LDEQ). Therefore, in accordance with the Memorandum of Understanding between the LDEQ and the FWS, no further informal (Section 7, Endangered Species Act) consultation is required. It was determined that the issuance of the LPDES permit is not likely to have an adverse effect on any endangered or candidate species or the critical habitat. The effluent limitations established in the permit ensure protection of aquatic life and maintenance of the receiving water as aquatic habitat.

VII. HISTORIC SITES:

The discharge is from an existing facility location, which does not include an expansion beyond the existing perimeter. Therefore, there should be no potential effect to sites or properties on or eligible for listing on the National Register of Historic Places, and in accordance with the 'Memorandum of Understanding for the Protection of Historic Properties in Louisiana Regarding LPDES Permits' no consultation with the Louisiana State Historic Preservation Officer is required.

VIII. PUBLIC NOTICE:

Upon publication of the public notice, a public comment period shall begin on the date of publication and last for at least 30 days thereafter. During this period, any interested persons may submit written comments on the draft permit and may request a public hearing to clarify issues involved in the permit decision at this Office's address on the first page of the statement of basis. A request for a public hearing shall be in writing and shall state the nature of the issues proposed to be raised in the hearing.

Public notice published in:

Local newspaper of general circulation

Office of Environmental Services Public Notice Mailing List

For additional information, contact:

Jim Bondy
Permits Division
Department of Environmental Quality
Office of Environmental Services
P. O. Box 4313
Baton Rouge, Louisiana 70821-4313

IX. PROPOSED PERMIT LIMITS:

Subsegment 080610 of the Ouachita River Basin, is not listed on LDEQ's Final 2004 303(d) list as impaired. However, subsegment 080610 was previously listed as impaired for organic enrichment/low DO, and pathogen indicators, for which the below TMDL's have been developed. The Department of Environmental Quality reserves the right to impose more stringent discharge limitations and/or additional restrictions in the future to maintain the water quality integrity and the designated uses of the receiving water bodies based upon additional TMDL's and/or water quality studies. The DEQ also reserves the right to modify or revoke and reissue this permit based upon any changes to established TMDL's for this discharge, or to accommodate for pollutant trading provisions in approved TMDL watersheds as necessary to achieve compliance with water quality standards.

The *Tributaries to Bayou D'Arbonne Lake TMDL for Biochemical Oxygen-Demanding Substances* does not require an upgrade for the Town of Haynesville Wastewater Treatment Facility. Therefore, permit limits for $CBOD_5$ and Ammonia-Nitrogen will remain as previously permitted.

This TMDL applies to sanitary dischargers only, as per the *Middle Fork Bayou D'Arbonne TMDL for Fecal Coliform*, "...there will be no change in the permit requirements based upon a wasteload allocation resulting from this TMDL." Therefore, Fecal Coliform effluent limitations will remain as previously permitted.

Final Effluent Limits:

OUTFALL 001

Final limits shall become effective on the effective date of the permit and expire on the expiration date of the permit.

Effluent Characteristic	Monthly Avg. (lbs./day)	Monthly Avg.	Weekly Avg.	Basis
$CBOD_5$	42	10 mg/l	15 mg/l	Limits are set in accordance with the *Tributaries to Bayou D'Arbonne Lake TMDL for Biochemical Oxygen-Demanding Substances,* the Ouachita River Basin Plan for facilities of this treatment type and size, and the previous permit.
TSS	63	15 mg/l	23 mg/l	Since there is no numeric water quality criterion for TSS, and in accordance with the current Water Quality Management Plan, the TSS effluent limitations shall be based on a case-by-case evaluation of the treatment technology being utilized at a facility. Therefore, a Technology Based Limit has been established through Best Professional Judgement for the type of treatment technology utilized at this facility and the previous permit.
Ammonia-Nitrogen	21	5 mg/l	10 mg/l	Limits are set in accordance with the *Tributaries to Bayou D'Arbonne Lake TMDL for Biochemical Oxygen-Demanding Substances,* the Ouachita River Basin Plan for facilities of this treatment type and size, and the previous permit.

Other Effluent Limitations:

1) **Fecal Coliform**

The discharge from this facility is into a water body which has a designated use of Primary Contact Recreation. According to LAC 33:IX.1113.C.5.b.i, the fecal coliform standards for this water body are 200/100 ml and 400/100 ml. Therefore, the limits of 200/100 ml (Monthly Average) and 400/100 ml (Weekly Average) are proposed as Fecal Coliform limits in the permit. These limits are being proposed through Best Professional Judgment in order to ensure that the water body standards are not exceeded, and due to the fact that existing facilities have demonstrated an ability to comply with these limitations using present available technology.

2) pH

According to LAC 33:IX.3705.A.1., POTW's must treat to at least secondary levels. Therefore, in accordance with LAC 33:IX.5905.C., the pH shall not be less than 6.0 standard units nor greater than 9.0 standard units at any time.

3) Solids and Foam

There shall be no discharge of floating solids or visible foam in other than trace amounts in accordance with LAC 33:IX.1113.B.7.

X. PREVIOUS PERMITS:

LPDES Permit No. LA0034614: Issued: August 1, 2000
Expired: July 31, 2005

Effluent Characteristic	Discharge Limitations		Monitoring Requirements	
	Daily Avg.	Daily Max.	Measurement Frequency	Sample Type
Flow	Report	Report	Continuous	Recorder
$CBOD_5$	10 mg/l	15 mg/l	2/month	Grab
TSS	15 mg/l	23 mg/l	2/month	Grab
Ammonia-Nitrogen	5 mg/l	10 mg/l	2/month	Grab
Fecal Coliform Colonies	200	400	2/month	Grab

The permit contains pollution prevention language.

XI. ENFORCEMENT AND SURVEILLANCE ACTIONS:

A) *Inspections*

A review of the files indicates the following most recent inspections were performed for this facility.

Date – February 3, 2005
Inspector - LDEQ
Findings and/or Violations – No areas of concern were noted.

Date – April 18, 2005
Inspector – LDEQ
Findings and/or Violations – This inspection was in response to a raw sewage discharge at the plant. It was noted that the overflow (which was the result of a rainstorm) had been bio-remediated. The incident was referred to enforcement.

B) Compliance and/or Administrative Orders

A review of the files indicates the following most recent enforcement actions administered against this facility:

On July 21, 2005 Enforcement Warning Letter (WE-L-05-0276) was issued to the facility as a result of the above mentioned raw sewage release.

C) DMR Review

A review of the discharge monitoring reports for the period beginning July 1, 2004 through November 31, 2005 has revealed the following violations:

Month	Parameter	DMR Reported Value	Permit Limit
August 2004	pH	5.9	6 to 9
November 2004	pH Fecal Coliform, Weekly Avg.	5.0 1300 colonies/ml	6 to 9 400 colonies/ml
March 2005	TSS, Monthly Avg. TSS, Weekly Avg. Fecal Coliform, Weekly Avg.	15.7 mg/l 29.9 mg/l 1560 colonies/ml	15 mg/l 23 mg/l 400 colonies/ml
May 2005	Fecal Coliform, Weekly Avg.	1200 colonies/ml	400 colonies/ml

XII. ADDITIONAL INFORMATION:

The Department of Environmental Quality reserves the right to impose more stringent discharge limitations and/or additional restrictions in the future to maintain the water quality integrity and the designated uses of the receiving water bodies based upon additional water quality studies and/or TMDL's. The DEQ also reserves the right to modify or revoke and reissue this permit based upon any changes to established TMDL's for this discharge, or to accommodate for pollutant trading provisions in approved TMDL watersheds as requested by the permittee and/or as necessary to achieve compliance with water quality standards. Therefore, prior to upgrading or expanding this facility, the permittee should contact the Department to determine the status of the work being done to establish future effluent limitations and additional permit conditions.

Final effluent loadings (i.e. lbs/day) have been established based upon the permit limit concentrations and the design capacity of 0.50 MGD.

Effluent loadings are calculated using the following example:

BOD: 8.34 lb/gal x 0.50 MGD x 10 mg/l = 42 lb/day

At present, the **Monitoring Requirements, Sample Types, and Frequency of Sampling** as shown in the permit are standard for facilities of flows between **0.5** and **1.0** MGD.

Effluent Characteristics	Monitoring Requirements	
	Measurement Frequency	Sample Type
Flow	Continuous	Recorder
$CBOD_5$	2/month	3 Hr. Composite
Total Suspended Solids	2/month	3 Hr. Composite
Ammonia-Nitrogen	2/month	3 Hr. Composite
Fecal Coliform Bacteria	2/month	Grab
pH	2/month	Grab

Pretreatment Requirements

Based upon consultation with LDEQ pretreatment personnel, general pretreatment language will be used due to the lack of either an approved or required pretreatment program.

XIII TENTATIVE DETERMINATION:

On the basis of preliminary staff review, the Department of Environmental Quality has made a tentative determination to reissue a permit for the discharge described in this Statement of Basis.

XIV REFERENCES:

Louisiana Water Quality Management Plan / Continuing Planning Process, Vol. 8, "Wasteload Allocations / Total Maximum Daily Loads and Effluent Limitations Policy," Louisiana Department of Environmental Quality, 2005.

Louisiana Water Quality Management Plan / Continuing Planning Process, Vol. 5, "Water Quality Inventory Section 305(b) Report," Louisiana Department of Environmental Quality, 1998.

Louisiana Administrative Code, Title 33 - Environmental Quality, Part IX - Water Quality Regulations, Chapter 11 - "Louisiana Surface Water Quality Standards," Louisiana Department of Environmental Quality, 2004.

Louisiana Administrative Code, Title 33 - Environmental Quality, Part IX - Water Quality Regulations, Subpart 2 - "The LPDES Program," Louisiana Department of Environmental Quality, 2004.

Low-Flow Characteristics of Louisiana Streams, Water Resources Technical Report No. 22, United States Department of the Interior, Geological Survey, 1980.

Index to Surface Water Data in Louisiana, Water Resources Basic Records Report No. 17, United States Department of the Interior, Geological Survey, 1989.

LPDES Permit Application to Discharge Wastewater, Town of Haynesville, Haynesville Sewer Treatment Plant, January 31, 2005.