STATEMENT OF BASIS

as required by LAC 33:IX.3109, for draft **Louisiana Pollutant Discharge Elimination System Permit No. LA0062928; AI 19107; PER20080001** 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 Washington
Town of Washington Wastewater Treatment Facility
P.O. Box 218
Washington, LA 70589

II. **PREPARED BY:** Afton J. Bessix

DATE PREPARED: June 9, 2008

III. **PERMIT ACTION:** reissue LPDES permit LA0062928, AI 19107; PER20080001

LPDES application received: April 16, 2008

EPA has not retained enforcement authority.

LPDES permit issued: November 1, 2003
LPDES permit expired: October 31, 2008

IV. FACILITY INFORMATION:

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

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

C. The facility is located on Prescott Street in Washington, St. Landry Parish.

D. The treatment facility consists of a three-cell oxidation pond. Disinfection is by chlorination.

E. Outfall 001

Discharge Location: Latitude 30° 36' 46" North
Longitude 92° 4' 8" West

Description: treated sanitary wastewater

Design Capacity: 0.150 MGD

Type of Flow Measurement which the facility is currently using:
Combination Totalizing Meter / Continuous Recorder

V. RECEIVING WATERS:

The discharge is into Bayou Carron; thence into Bayou Courtableau in segment 060210 of the Vermilion - Teche Basin. This segment is not listed on the 303(d) list of impaired waterbodies.

The designated uses and degree of support for Segment 060210 of the Vermilion - Teche Basin are as indicated in the table below[1/]:

Overall Degree of Support for Segment 060210	**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
	Full	Full	Not Supported	N/A	N/A	N/A	N/A

[1/]The designated uses and degree of support for Segment 060210 of the Vermilion - Teche Basin are as indicated in LAC 33:IX.1123.C.3, Table (3) and the 2006 Water Quality Management Plan, Water Quality Inventory Integrated Report, Appendix A, respectively.

VI. ENDANGERED SPECIES:

The receiving waterbody, Subsegment 060210 of the Vermilion - Teche 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 27, 2007 from Boggs (FWS) to Brown (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:

Ms. Afton J. Bessix
Water Permits Division
Department of Environmental Quality
Office of Environmental Services
P. O. Box 4313
Baton Rouge, Louisiana 70821-4313

IX. PROPOSED PERMIT LIMITS:

Subsegment 060210, Bayou Carron, is not listed on LDEQ's Final 2006 303(d) List as impaired. However, subsegment 060210 was previously listed as impaired for nutrients, suspended solids/turbidity/siltation, organic enrichment/low DO, and phosphorous, 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 following TMDL's have been established for subsegment 060210:

Bayou Carron TMDLs for Dissolved Oxygen and Nutrients

The *Bayou Carron TMDLs for Dissolved Oxygen and Nutrients* was finalized on May 1, 2002. As per the TMDL, "no upgrade in treatment was assumed for the Town of Washington; their discharge was modeled with effluent concentrations of 10 mg/l $CBOD_5$, 2 mg/l ammonia nitrogen, and 5 mg/l DO." Therefore, these limitations shall be placed in the permit in the summer months. Since the TMDL does state that no upgrade in treatment is required, the model assumed that DO is not a problem during the winter months. Therefore, the seasonal limitations that were established in the previous state permit will remain in this permit.

TMDL for TSS, Turbidity, and Siltation for the Bayou Teche Watershed

The *TMDL for TSS, Turbidity, and Siltation for the Bayou Teche Watershed* was finalized on May 2, 2002. As per the TMDL, "Point source loads do not represent a significant source of TSS as defined in this TMDL. Point sources discharge primarily organic TSS, which does not contribute to habitat impairment resulting from sedimentation. Because the point sources are minor contributors, and dischargers of organic suspended solids from point sources are already addressed by LDEQ through their permitting of point sources to maintain water quality standards for DO, the wasteload allocation for point source contributions were set to zero. This TMDL only addresses the landform contribution of TSS/sediment and does not address the insignificant point source contributions." Therefore, TSS limits will remain as in the previous LPDES permit.

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
$CBOD_5$				
April – October	12.5	10 mg/l	15 mg/l	Limits are set in accordance with the *Bayou Carron TMDLs for Dissolved Oxygen and Nutrients* finalized on May 1 , 2002.
November - March	25.0	20 mg/l	30 mg/l	
TSS	56.3	45 mg/l	65 mg/l	TSS limits will be adjusted per LAC33:IX.5911.B. Therefore, a Technology Based Limit has been established through Best Professional Judgement for the type of treatment technology utilized at this facility.
Ammonia-Nitrogen				
April – October	2.5	2 mg/l	4 mg/l	Limits are set in accordance with the *Bayou Carron TMDLs for Dissolved Oxygen and Nutrients* finalized on May 1, 2002.
November – March	12.5	10 mg/l	20 mg/l	
Dissolved Oxygen	N/A	5.0 mg/l	N/A	Limits are set in accordance with the *Bayou Carron TMDLs for Dissolved Oxygen and Nutrients* finalized on May 1, 2002.

*This Dissolved Oxygen limit is the lowest allowable average of daily discharges over a calendar month. When monitoring is conducted, the Dissolved Oxygen shall be analyzed immediately, as per 40 CFR 136.3.

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 Judgement 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. LA0062928: Issued: November 1, 2003
Expired: October 31, 2008

Effluent Characteristic	Discharge Limitations		Monitoring Requirements	
	Daily Avg.	Daily Max.	Measurement	Sample
Frequency	Type			
Flow	Report	Report	Continuous	Recorder
$CBOD_5$				
April – October	10 mg/l	15 mg/l	2/month	Grab
November – March	20 mg/l	30 mg/l	2/month	Grab
TSS				
April – October	15 mg/l	23 mg/l	2/month	Grab
November – March	20 mg/l	30 mg/l	2/month	Grab
Ammonia-Nitrogen				
April – October	2 mg/l	4 mg/l	2/month	Grab
November – March	10 mg/l	20 mg/l	2/month	Grab
Fecal Coliform				
Colonies/100 ml	200	400	2/month	Grab
Dissolved Oxygen	5 mg/l minimum		2/month	Grab

The permit contains pollution prevention language.

XI. ENFORCEMENT AND SURVEILLANCE ACTIONS:

A) **Inspections**
A review of the files indicates that there were no recent inspections on file for this facility.

B) **Compliance and/or Administrative Orders**
A review of the files indicates that there are no recent enforcement actions administered against this facility.

C) **DMR Review**
A review of the discharge monitoring reports for the period beginning January 2006 through December 2007 has revealed the following violations:

Parameter	Outfall	Period of Excursion	Permit Limit	Reported Quantity
TSS (monthly avg.)	001	January 2006	20 mg/l	29 mg/l
TSS (monthly avg.)	001	February 2006	20 mg/l	38 mg/l
TSS (weekly avg.)	001		30 mg/l	42 mg/l
TSS (monthly avg.)	001	March 2006	20 mg/l	31 mg/l
TSS (weekly avg.)	001		30 mg/l	39 mg/l
pH	001	May 2006	9.0 su maximum	9.88 su
TSS (monthly avg.)	001	May 2006	15 mg/l	25 mg/l
TSS (weekly avg.)	001		23 mg/l	36 mg/l
TSS (monthly avg.)	001	June 2006	15 mg/l	27 mg/l

TSS (weekly avg.)	001		23 mg/l	32 mg/l
TSS (monthly avg.)	001	July 2006 •	15 mg/l	32 mg/l
TSS (weekly avg.)	001		23 mg/l	34 mg/l
$CBOD_5$ (monthly avg.)	001	July 2006	10 mg/l	11 mg/l
TSS (monthly avg.)	001	August 2006	15 mg/l	39 mg/l
TSS (weekly avg.)	001		23 mg/l	58 mg/l
Dissolved Oxygen	001	September 2006	5 mg/l mimimum	4.5 mg/l
TSS (monthly avg.)	001	September 2006	15 mg/l	31 mg/l
TSS (weekly avg.)	001		23 mg/l	39 mg/l
$CBOD_5$ (monthly avg.)	001	September 2006	10 mg/l	12 mg/l
TSS (monthly avg.)	001	October 2006	18.8 lbs/day	27.1 lbs/day
TSS (monthly avg.)	001		15 mg/l	28 mg/l
TSS (weekly avg.)	001		23 mg/l	39 mg/l
TSS (monthly avg.)	001	November 2006	25.0 lbs/day	39.5 lbs/day
TSS (monthly avg.)	001		20 mg/l	38 mg/l
TSS (weekly avg.)	001		30 mg/l	50 mg/l
TSS (monthly avg.)	001	December 2006	20 mg/l	33 mg/l
TSS (weekly avg.)	001		30 mg/l	40 mg/l
Dissolved Oxygen	001	March 2007	5 mg/l minimum	3.7 mg/l
pH	001	March 2007	6.0 su minimum	9.29 su
	001		9.0 su maximum	9.29 su
TSS (monthly avg.)	001	March 2007	20 mg/l	24 mg/l
TSS (monthly avg.)	001	April 2007	15 mg/l	28 mg/l
TSS (weekly avg.)	001		23 mg/l	38 mg/l
pH	001	May 2007	9.0 su maximum	9.70 su
TSS (monthly avg.)	001	May 2007	15 mg/l	56 mg/l
TSS (weekly avg.)	001		23 mg/l	60 mg/l
$CBOD_5$ (monthly avg.)	001	May 2007	10 mg/l	13 mg/l
$CBOD_5$ (weekly avg.)	001		15 mg/l	18 mg/l
Dissolved Oxygen	001	June 2007	5 mg/l minimum	4.6 mg/l
TSS (monthly avg.)	001	June 2007	18.8 lbs/day	23.0 lbs/day
TSS (monthly avg.)	001		15 mg/l	35 mg/l
TSS (weekly avg.)	001		23 mg/l	38 mg/l
$CBOD_5$	001	June 2007	10 mg/l	13 mg/l
pH	001	July 2007	9.0 su maximum	9.01 su
TSS (monthly avg.)	001	July 2007	18.8 lbs/day	26.3 lbs/day
TSS (monthly avg.)	001		15 mg/l	84 mg/l
TSS (weekly avg.)	001		23 mg/l	90 mg/l
$CBOD_5$ (monthly avg.)	001	July 2007	10 mg/l	39 mg/l
$CBOD_5$ (weekly avg.)	001		15 mg/l	43 mg/l
Dissolved Oxygen	001	August 2007	5 mg/l minimum	4.8 mg/l
TSS (monthly avg.)	001	August 2007	15 mg/l	23 mg/l
TSS (weekly avg.)	001		23 mg/l	30 mg/l
$CBOD_5$ (monthly avg.)	001	August 2007	10 mg/l	18 mg/l
$CBOD_5$ (weekly avg.)	001		15 mg/l	20 mg/l
Dissolved Oxygen	001	September 2007	5 mg/l minimum	4.2 mg/l
TSS (monthly avg.)	001	September 2007	15 mg/l	32 mg/l
TSS (weekly avg.)	001		23 mg/l	35 mg/l
$CBOD_5$ (monthly avg.)	001	September 2007	10 mg/l	22 mg/l
$CBOD_5$ (weekly avg.)	001		15 mg/l	22 mg/l
TSS (monthly avg.)	001	October 2007	15 mg/l	25 mg/l
TSS (weekly avg.)	001		23 mg/l	26 mg/l
TSS (monthly avg.)	001	November 2007	20 mg/l	48 mg/l
TSS (weekly avg.)	001		30 mg/l	56 mg/l

- DMR for February 2007was missing from file.

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.

In accordance with LAC 33:IX.2707.C, this permit may be modified, or alternatively, revoked and reissued, to comply with any applicable effluent standard or limitations issued or approved under sections 301(b)(2)(c) and (D); 304(b)(2); and 307(a)(2) of the Clean Water Act, if the effluent standard or limitations so issued or approved:

a) Contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or

b) Controls any pollutant not limited in the permit; or

c) Requires reassessment due to change in 303(d) status of waterbody; or

d) Incorporates the results of any total maximum daily load allocation, which may be approved for the receiving water body. The LDEQ and USEPA will be conducting TMDLs in the Vermilion - Teche Basin Subsegment 060210. The Department of Environmental Quality reserves the right to impose more stringent discharge limitations and/or additional restrictions as a result of the TMDL. 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 0.150 MGD.

Effluent loadings are calculated using the following example:

BOD: 8.34 lb/gal x 0.150 MGD x 10 mg/l = 12.5 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 0.10 and 0.50 MGD.

Effluent Characteristics	Monitoring Requirements	
	Measurement Frequency	Sample Type
Flow	Continuous	Recorder
$CBOD_5$	2/month	Grab
Total Suspended Solids	2/month	Grab
Ammonia-Nitrogen	2/month	Grab
Dissolved Oxygen	2/month	Grab
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.

1. The following pollutants may not be introduced into the treatment facility:

   a. Pollutants which create a fire or explosion hazard in the publicly owned treatment works (POTW), including, but not limited to, wastestreams with a closed cup flashpoint of less than 140 degrees Fahrenheit or 60 degrees Centigrade using the test methods specified in 40 CFR 261.21;

   b. Pollutants which will cause corrosive structural damage to the POTW, but in no case discharges with pH lower than 5.0, unless the works are specifically designed to accommodate such discharges;

   c. Solid or viscous pollutants in amounts which will cause obstruction to the flow in the POTW, resulting in Interference;

   d. Any pollutant, including oxygen demanding pollutants (e.g., BOD), released in a discharge at a flow rate and/or pollutant concentration which will cause Interference with the POTW;

   e. Heat in amounts which will inhibit biological activity in the POTW resulting in Interference but in no case heat in such quantities that the temperature at the POTW treatment plant exceeds 40 degrees Centigrade (104 degrees Fahrenheit) unless the Approval Authority, upon request of the POTW, approves alternate temperature limits;

   f. Petroleum oil, nonbiodegradable cutting oil, or products of mineral oil origin in amounts that will cause interference or pass through;

   g. Pollutants which result in the presence of toxic gases, vapors, or fumes within the POTW in a quantity that may cause acute worker health and safety problems; and

   h. Any trucked or hauled pollutants, except at discharge points designated by the POTW.

2. The permittee shall require any indirect discharger to the treatment works to comply with the reporting requirements of Sections 204(b), 307, and 308 of the Clean Water Act, including any requirements established under LAC33.IX.Subpart 2.Chapter 61.

3. The permittee shall provide adequate notice of the following:

   a. Any new introduction of pollutants into the treatment works from an indirect discharger which would be subject to Sections 301 and 306 of the Clean Water Act if it were directly discharging those pollutants; and

   b. Any substantial change in the volume or character of pollutants being introduced into the treatment works by a source introducing pollutants into the treatment works at the time of issuance of the permit.

   c. Any notice shall include information on (1) the quality and quantity of effluent to be introduced into the treatment works, and (2) any anticipated impact of the change on the quality or quantity of effluent to be discharged from the POTW.

Pollution Prevention Requirements

The permittee shall institute or continue programs directed towards pollution prevention. The permittee shall institute or continue programs to improve the operating efficiency and extend the useful life of the facility. The permittee will complete an annual Environmental Audit Report **each year** for the life of this permit according to the schedule below. The permittee will accomplish this requirement by completing an Environmental Audit Form which has been attached to the permit. All other requirements of the Municipal Wastewater Pollution Prevention Program are contained in Part II of the permit.

The audit evaluation period is as follows:

Audit Period Begins	Audit Period Ends	Audit Report Completion Date
Effective Date of Permit	12 Months from Audit Period Beginning Date	3 Months from Audit Period Ending Date

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 Washington, Town of Washington Wastewater Treatment Facility, April 16, 2008.