

**BATON ROUGE SSO PROGRAM
2002 CONSENT DECREE**



2016 ANNUAL REPORT

January 30, 2017

January 30, 2017

CERTIFIED – RETURN RECEIPT REQUESTED

Chief,
Water Enforcement Branch (6EN-W)
Compliance Assurance and Enforcement Division
U.S. Environmental Protection Agency, Region VI
1445 Ross Avenue
Dallas, Texas 75202-2733

Re: City of Baton Rouge and Parish of East Baton Rouge
Consent Decree-Civil Action No. 01-978-B-M3
Annual Report - **Period Ending December 31, 2016**

Gentlemen:

Pursuant to Paragraph 52 of the Consent Decree, the City of Baton Rouge and Parish of East Baton Rouge (City/Parish) hereby submits the Annual Report covering activities for the year ending December 31, 2016. This report addresses the following items:

- Remedial Measures Action Plan (RMAP)
- Treatment Facility Assessment
- Environmental Results Monitoring (ERM)
- Interim Relief Measures Activities
- Outreach and Public Awareness Program
- Plan Modification Needs
- Stipulated Penalties

These items are described in Sections XII, XIII, XIV, XVI, XV and XXI of the Consent Decree.

Mr. Adam Smith/DES

January 30, 2017

Page 2

I certify that the information contained in or accompanying this document is true, accurate and complete. As to identified portions of this document for which I cannot personally verify their truth and accuracy, I certify as the official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification, that this is true, accurate and complete.

Sincerely,



Adam Smith, P.E.

Interim Director of Environmental Services

Baton Rouge Department of Environmental Services

Cc: Honorable Sharon Weston-Broome, Mayor-President
Mr. William B. Daniel, IV, PE, Interim Chief Administrative Officer
Chief, Environmental Enforcement Section, US DOJ
Mr. Bobby Mayweather, LDEQ
Dr. Chuck Carr Brown, LDEQ
Ms. Mona Bates, US EPA Region 6
Mr. Carlos Zequeira, (6RC-EA)
Ms. Darlene Whitten-Hill, (6EN-WC)
Ms. Lea Anne Batson
Mr. Bob Abbott
Mr. Joseph Young, CH2M
Ms. Elizabeth Gibert, CH2M
Mr. Carlos Giron, CH2M
Mr. Adam Smith
Ms. Cheryl Berry
Mr. Stan Redmond
Mr. Mark LeBlanc
Mr. John Ward
Mr. Mitch O'Brien

CITY-PARISH DEPARTMENTAL MEMORANDUM
WASTEWATER TREATMENT AND DISPOSAL DIVISION

2444 River Road
Baton Rouge, LA 70802

Date: January 26, 2017

To: Mr. Adam Smith, DES
From: Ms. Elizabeth Gibert, CH2M HILL
Re: City of Baton Rouge and Parish of East Baton Rouge
Consent Decree-Civil Action No. 01-978-B-M3
2016 Annual EPA Report
Data Review

Draft copies of the above referenced report have been submitted for your review. This review is to ensure that the data submitted under your direction, has been stated in a truthful and accurate manner in the 2016 Annual EPA Report. Once the review of the data is complete and corrected, please sign below the paragraph stating that fact and return for processing.

Sincerely,
Elizabeth Gibert
Regulatory Coordinator/CH2M HILL

I certify that the information contained in or accompanying the portion of the 2016 Annual EPA Report that I am responsible for is true, accurate, and complete. As to those identified portions of this document for which I cannot personally verify their truth and accuracy, I certify as the official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification, that this is true, accurate and complete.



cc: Document Control

**CITY-PARISH DEPARTMENTAL MEMORANDUM
WASTEWATER TREATMENT AND DISPOSAL DIVISION**

2443 River Road
Baton Rouge, LA 70802

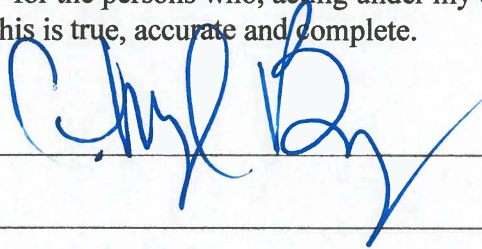
Date: January 26, 2017

To: Ms. Cheryl Berry, DES
From: Ms. Elizabeth Gibert, CH2M HILL
Re: City of Baton Rouge and Parish of East Baton Rouge
Consent Decree-Civil Action No. 01-978-B-M3
2016 Annual EPA Report
Data Review

Draft copies of the above referenced report have been submitted for your review. This review is to ensure that the data submitted under your direction, has been stated in a truthful and accurate manner in the 2016 Annual EPA Report. Once the review of the data is complete and corrected, please sign below the paragraph stating that fact and return for processing.

Sincerely,
Elizabeth Gibert
Regulatory Coordinator/CH2M HILL

I certify that the information contained in or accompanying the portion of the 2016 Annual EPA Report that I am responsible for is true, accurate, and complete. As to those identified portions of this document for which I cannot personally verify their truth and accuracy, I certify as the official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification, that this is true, accurate and complete.



cc: Document Control

**BATON ROUGE SSO PROGRAM
2002 CONSENT DECREE**

2016 ANNUAL REPORT

January 30, 2017

Contents

Section	Page
1. Remedial Measures Action Plan	1
1.1 RMAP1 Summary	1
1.2 RMAP2 Summary	4
1.2.1 Category 1: Comprehensive Sewer Basin Rehabilitation.....	8
1.2.2 Category 2: Pump Station and Transmission Improvements.....	10
1.2.3 Category 3: Wastewater Treatment and Storage.....	14
1.3 Additional Projects Outside of the Consent Decree.....	15
1.4 Infiltration and Inflow Reduction Activities Summary.....	17
2. Treatment Facility Assessment	18
3. Environmental Results Monitoring	18
4. Interim Relief Measures Activities	19
4.1 North WWTP	19
4.2 Central WWTP	19
4.3 South WWTP	19
5. Outreach and Public Awareness Program	19
6. Plan Modification Needs	20
7. Stipulated Penalties	20

Tables

1 - EPA Consent Decree RMAP1 Milestones.....	3
2 - Updated EPA Consent Decree RMAP Milestones for Category 1 Projects.....	8
3 - EPA Consent Decree RMAP2 Milestones for Category 2 Projects	10
4 - EPA Consent Decree RMAP2 Milestones for Category 3 Projects	15
5 - Proposed Schedule for Projects Outside of Consent Decree.....	16
6 - I/I Reduction Activities Summary - Data through December 31, 2013.....	17
7 - Monthly Average Percent Removal	20
8 - Penalties Assessed and Paid by the City/Parish to Date.....	21
9 - Self-Reported Potential Stipulated Penalties 2013 (SSOs and WWTP violations).....	21

Attachments

- A - Notice and Updates of 2016 Force Majeure Events
- B - Municipal Water Pollution Prevention Environmental Audit Reports 2016

Baton Rouge Consent Decree 2016 Annual Report

This Annual Report for the period from January 1, 2016 to December 31, 2016 is submitted in accordance with Section XVIII, Reporting Paragraph 52, of the Consent Decree. This report addresses all items identified in Consent Decree Exhibit I regarding the Annual Report format and content.

During the past year, there continues to be significant progress made towards achieving Second Remedial Measures Action Plan (RMAP2) compliance and additional projects outside of the Consent Decree. By the end of 2016, the City of Baton Rouge/Parish of East Baton Rouge (City/Parish) had seventy-eight (78) RMAP2 projects functionally completed, twenty-five (25) projects under construction, and nine (9) projects under design, in order to strive to achieve the compliance schedules set forth in Tables 2, 3, and 4 of this Annual Report. Additionally, as of December 31, 2016, there have been 74 Consent Decree reporting deliverables submitted on or ahead of schedule.

As you can see, the City/Parish is actively moving forward with the execution of the RMAP2 projects included herein, as outlined in 2002 Consent Decree as well as the April 2009 Consent Decree Modification by DOJ, EPA, and LDEQ that adopts the corresponding *Second Remedial Measures Action Plan (RMAP2) Submittal for the Baton Rouge Sanitary Sewer Overflow Control and Wastewater Facilities Program* (September 2008). In addition, the City/Parish is now adhering to the revised compliance schedule approved in the (June 2013) Revised Second Consent Decree Modification by DOJ, EPA, and LDEQ which formally approves the City/Parish's 4 year extension request which was the focus of the *Modified Request for Time Extension/Modification of the Compliance Schedule in the Approved RMAP2 Submittal* (October 2012).

1. Remedial Measures Action Plan

In 1998, the City/Parish originally developed a comprehensive Remedial Measures Action Plan (RMAP) for the collection system during consent decree negotiations, identified as Alternative 1 (the original Sanitary Sewer Overflow [SSO] Plan) in the Consent Decree. A Value Engineering (VE) study was commissioned in early 2000 to explore cost-saving alternatives. The VE study identified seven options based on the original SSO Plan for further consideration. Three of those alternatives (specifically 3, 4, and 7) were considered equivalent low-cost options that deemed further examination. Through a series of Metro Council and public meetings, Alternative 7, the Composite Plan, was selected. At the time, the Program Manager for the work associated with the Composite Plan was Montgomery Watson Harza (MWH). The focus of this plan was to utilize deep tunnels in order to store flows throughout the wastewater collection system during high flow/wet weather conditions in order to eliminate SSOs throughout the City/Parish during the design storm condition (2 year - 12 hour). The Composite Plan consisted of two parts: the First Remedial Measures Action Plan (RMAP1) and Second Remedial Measures Action Plan (RMAP2).

1.1 RMAP1 Summary

The First RMAP (or RMAP1), submitted on January 10, 2001, consisted of the projects that were common to all three of the lowest cost VE options (3, 4, and 7) being evaluated. These RMAP1 projects listed in Exhibit F of the Consent Decree were those projects common to the alternatives presented in Section XII - Remedial Measures: Collection System Remedial Program of the Consent Decree. There were a total of 19 "common" projects identified through various modeling and VE efforts associated with the original SSO Corrective Action Plan developed by MWH in 1998. These projects were common to the alternative plans presented in the Consent Decree that focused on utilizing deep tunnels/storage to control the SSOs throughout the

City/Parish's wastewater collection system. The phased implementation of these RMAP1 projects began at the end of 1999 and the beginning of 2000. These projects were planned to start and finish at different times due to funding constraints and the need for easements and permits. Since the date of entry into the Consent Decree, the City/Parish has been diligently working on the design and construction of these RMAP1 projects; all of these projects have been completed. During the planned execution of these projects, significant events occurred with the change in technical approach of the Collection System Remedial Program and, as such, some RMAP1 projects have been affected. Any, and all, such changes have been reported in previous reports.

In 2004 and 2005, the City/Parish decided to re-evaluate the planned technical approach of their Collection System Remedial Program, while implementing RMAP1 projects. This review resulted in a consequential change in technical approach from deep tunnels and storage, to a focus on sewer rehabilitation. At that point, the original RMAP1 projects that had not begun were re-examined. Some of these projects were shelved and others were re-evaluated to see if they fit into the new plan. During this time period, the City/Parish's consultants that were hired to help plan and execute these projects changed. Camp Dresser & McKee (CDM) was hired to develop an alternative plan not dependent on deep tunnels with an emphasis on rehabilitation of sewers to remove infiltration and inflow, and conveyance system improvements. CDM completed the initial conceptual reevaluation of the sewer rehabilitation plan, and CH2M HILL was later contracted to serve as the Program Manager and charged to perform a more thorough and detailed engineering and evaluation of the revised approach. CH2M HILL is currently the City/Parish's consultant/Program Manager for the Sanitary Sewer Overflow (SSO) Control and Wastewater Facilities Program which was initiated to meet the goals of the Consent Decree.

In December 2007, the City/Parish and CH2M HILL submitted a detailed *RMAP1 Status Report* to the EPA that summarized the status of all of the RMAP1 projects. This report included a formal "Request for Time Extension" for those RMAP1 projects not yet completed, and a corresponding schedule for project completion. This report was submitted as the milestone requirement pursuant to Section XVIII – Reporting of the Consent Decree. This report and the request for a time extension were verbally approved by the U.S. Environmental Protection Agency (EPA) during a conference call on February 12, 2008. Since no formal approval was granted from the EPA or Louisiana Department of Environmental Quality (LDEQ) for the RMAP1 projects that were outstanding which were highlighted in the report, the City/Parish re-submitted the revised RMAP1 milestones as outlined in the *Second Remedial Measures Action Plan (RMAP2) Submittal for the Baton Rouge Sanitary Sewer Overflow Control and Wastewater Facilities Program* (September 2008).

In late 2008, an Agreement and Order Regarding the Modification of the Consent Decree was submitted to the court and was approved by the Department of Justice (DOJ), EPA, and LDEQ in April 2009. This approval formally accepted the RMAP1 milestones presented in the *Second Remedial Measures Action Plan (RMAP2) Submittal for the Baton Rouge Sanitary Sewer Overflow Control and Wastewater Facilities Program* (September 2008). Although with this approval a new technical approach to resolve SSOs was approved which made the old tunnel plan obsolete, the City/Parish actively progressed with the execution of the remaining RMAP1 projects included herein based on the approved revised schedule.

The status of the RMAP1 projects is presented in Table 1 and is current through December 31, 2011. As of that time, all 14 RMAP1 projects are functionally completed, and 13 of the 14 were done either on, or ahead of schedule. The RMAP1 - Industriplex Project has had several issues arise during the construction phase pertaining to: unavoidable utility conflicts, difficult easement acquisitions, alignment changes, and permitting and other utility coordination issues that have caused significant delays with the project which could not be overcome by reasonable actions by the City/Parish and its construction contractor. Therefore, this project has been functionally complete and in operation since 1st quarter 2011. The City/Parish strongly asserts that this project is not susceptible to stipulated penalties due to the circumstances of the delay beyond the control of the City/Parish. The circumstances behind the delay are explained in detail in Table 1 below, and have been also reported in previous Quarterly EPA Reports. The *RMAP1 Completion Report* is included in previously

submitted/approved 2011 Annual EPA Report in Attachment 1: Updated Outreach and Public Awareness Plan and RMAP1 Completion Report and can also be found attached at the end of the 36th Quarterly EPA Report.

TABLE 1				
EPA Consent Decree RMAP1 Milestones				
Milestone Date		RMAP1 Projects Completed	RMAP1 Projects Completed	Project Status Summary
		May 4, 2007	Proposed on September 1, 2008	
Construction Status		Complete	Complete	
Consent Decree Projects	Corresponding City/Parish Projects			
RMAP1 Projects				
N-05 PS 24 Area Upgrades	*PS 24/43 Area Upgrade (01-RMP-N05)	●		
N-06 PS 43 Area Upgrades				
N-09 PS 44/46 Area Upgrades	PS 44/46 Area Upgrades (01-RMP-N09)	●		
N-10 PS 240 Area Upgrades	PS 240 Area Upgrades (01-RMP-N10)	●		
***N-99 North Further Investigations	NTSN SS Eval. Study (99-RMP-N-99)	●		
	**Bellingrath Rehab. (03-RMP-N14) (NSRP)	●		
	**Frenchtown Road Sewer Rehab. (03-RMP-N15)	●		
	**North Area Comprehensive Rehab. (03-RMP-N23)	●		
	**PS 45 Area Rehab. (00-RMP-N31)	●		
C-03 PS 2 Area Rehabilitation	PS 2 Area Upgrades (01-RMP-C03)	●		
S-01B SWWTP Influent PS	SSO SWWTP Infl. PS Upgrade (99-RMP-SO1B)	●		
S-11 PS 40 Area Rehabilitation	S-11 PS 40 Area Rehabilitation	●		
***S-99 South Further Investigations	SSO Engr-South (99-RMP-S99)	●		
	PS 944 Area Upgrade Grv Sewer (99-RMP-S99)	●		
	PS 944 Area Upgrade (99-RMP-S99)	●		
	PS 177 Area Upgrade (99-RMP-S99)	●		
	**PS 211 Area Upgrades (99-RMP-S11)	●		
N-01 Choctaw Basin Return System	Choctaw Area Storage (04-RMP-N22)			RMAP1 project suspended. Project is included as RMAP2: Choctaw Storage.
N-13 North Choctaw Basin System	S-05 PS 58B Area Upgrades MWH RMAP2			RMAP1 project suspended. Project is included as RMAP2: Choctaw Storage PS.

TABLE 1 EPA Consent Decree RMAP1 Milestones				
Milestone Date		RMAP1 Projects Completed	RMAP1 Projects Completed	Project Status Summary
		May 4, 2007	Proposed on September 1, 2008	
Construction Status		Complete	Complete	
Consent Decree Projects	Corresponding City/Parish Projects			
RMAP1 Projects				
N-04 PS 47 Area Upgrades	N-04 PS 47 Area Upgrades			RMAP1 project suspended. Project is included as RMAP2: Group Project 1B – Veterans Memorial Parkway PS FM.
N-07 PS 39/55 Area Upgrades	N-07 PS 39/55 Area Upgrades			RMAP1 project suspended. Project is included as RMAP2: Group Project 1B – Veterans Memorial Parkway PS FM.
N-11 PS 65 Area Upgrades	PS 65 and 65A Area Upgrades (01-RMP-N11)			Project suspended. Evaluated for inclusion in RMAP2 and Master Plan. Project proposed as a part of the Master Plan.
N-02 PS 49/52 Area Upgrades	PS 49/52 Area Upgrade (01-RMP-N02)		4 th Quarter 2008	Project completed – 4th quarter 2008 (at 80% complete with construction). Project was in dispute with construction contractor. Both parties reached an agreement on terms and job was closed at 80% complete.
N-12 North Sewer Rehab Projects	North Sewer Rehab Projects (03-RMP-N12)		4 th Quarter 2007	Project completed – 4th quarter 2007.
S-08 Industriplex Area Upgrades	Industriplex Area PS 355 and FM Upgrades (99-RMP-S08)		2 nd Quarter 2010	Project completed – 1st quarter 2011.
S-14 Kleinpeter Area Upgrades	Kleinpeter Area Upgrades (03-RMP-S14)		2 nd Quarter 2010	Project completed – 2nd quarter 2009.
S-16 PS 136 Area Upgrades	PS 136 Area Upgrades (99-RMP-S16)		2 nd Quarter 2010	Project completed – 2nd quarter 2010.
<p>* This project was executed as a combination of two RMAP1 projects</p> <p>** These projects were added as RMAP1 projects by the City/Parish after entry into the Consent Decree</p> <p>*** This RMAP1 project was split up into multiple projects for better execution</p>				

1.2 RMAP2 Summary

The Second RMAP (RMAP2), which was originally submitted on November 19, 2002 by the City/Parish and their consultants at that time, MWH, consisted of the projects required to complete the selected overall remedial action plan, or Alternative 7. As the planning and design activities for the RMAP2 projects progressed, it was apparent that modifications to the project definitions and schedules were necessary. On December 3, 2004, proposed RMAP modifications were submitted for review and approval.

In early 2005, the City/Parish began re-evaluating Alternative 7 of the original Composite Plan, due to large budget over runs of several projects that were indicative of total project cost increases of 50% or more. CDM was hired to do a preliminary evaluation of alternatives and the City/Parish developed an "updated" Second RMAP approach, or revised RMAP2, based on more aggressive sewer rehabilitation and comprehensive upgrades of pumping stations. The City/Parish, in conjunction with CDM, submitted a written request with proposed RMAP2 modifications for review and approval to the EPA and LDEQ on July 29, 2005. The City/Parish conducted a telephone conference with EPA and LDEQ on August 1, 2005 in order to present the program status. That presentation included the requested revision to the RMAP2 with the sewer system rehabilitation focus that CDM helped to develop. The requested plan modification represented a material change in the currently approved RMAP2 (based on the change from Alternative 7 of the tunnel plan), though the requested revision to the RMAP2 did not actually extend the final compliance date beyond the January 1, 2015 which was the original deadline for Alternative 7, listed in the Consent Decree. At that time, the City/Parish made every reasonable effort to complete the work to meet the original deadlines and focused additional efforts and resources to accelerate wastewater treatment plant improvements to achieve consistent permit compliance at the earliest date possible.

The revised RMAP2, submitted by the City/Parish and CDM, had not yet been approved by the EPA and LDEQ in early 2006 when the City/Parish engaged CH2M HILL to conduct a peer review to address issues about elements of the alternative plan including an assessment of costs and schedules and a reassessment of the South Wastewater Treatment Plant (WWTP) proposed work. Based on the peer review recommendations, a re-submittal, and the second request for approval, of the Revised RMAP2 modifications (including CDM's plan and CH2M HILL's updated plan for South WWTP compliance projects) was submitted by the City/Parish in conjunction with CH2M HILL on December 12, 2006. CH2M HILL was also selected as the new Program Manager, or City/Parish consultant, for this work during this timeframe. Per EPA and LDEQ request, a more descriptive follow-up report entitled *Addressing Existing Noncompliance Issues and Future Wet-Weather Flow Management Requirements for the South Wastewater Treatment Plant – Summary of Findings and Recommendations* was submitted in January 2007 that specifically addressed work at the South WWTP. This report detailed the recommendations outlined in the previous Revised Second RMAP submittal in December 2006. On July 10, 2007, the EPA and LDEQ sent a formal letter of approval to the City/Parish endorsing the December 2006 Revised Second RMAP proposal.

Since that time, a huge planning and engineering effort was undertaken by the City/Parish and the new Program Manager, CH2M HILL, and others in order to develop and implement a detailed RMAP2 submittal based on three (3) types of projects: comprehensive sewer rehabilitation, pump station and transmission (capacity) improvements, and wastewater treatment/storage improvements. This planning and engineering effort consisted of refined modeling and calibration, detailed calculations, review of field data, and project development, prioritization, and cost estimating. This RMAP2 submittal outlined the projects planned to reduce or eliminate SSOs throughout the City/Parish, in addition to describing the projects planned to meet permit requirements at the wastewater treatment plants. *The Second Remedial Measures Action Plan (RMAP2) Submittal for the Baton Rouge Sanitary Sewer Overflow Control and Wastewater Facilities Program* report was submitted to the DOJ, EPA, and LDEQ for review and approval in September 2008. The proposed plan represented a substantial commitment to try to meet the original demanding schedule required by the Consent Decree (January 1, 2015). The City/Parish and CH2M HILL have continually refined and performed quality control reviews of the hydraulic model of the sewer system, incorporating new information as it becomes available. These refinements at times have technically altered some aspects of the RMAP2 projects. However, the City/Parish regularly documents all RMAP2 project changes (scope changes, project additions, and project deletions) in the Quarterly and Annual EPA Reports, with EPA and LDEQ approval.

During the review and approval process of *Second Remedial Measures Action Plan (RMAP2) Submittal for the Baton Rouge Sanitary Sewer Overflow Control and Wastewater Facilities Program* (September 2008), an Agreement and Order related to the Modification of the Consent Decree (Agreement and Order) was lodged with the

Court on November 10, 2008. The Agreement and Order adopted the City/Parish's September 2008 *Second Remedial Measures Action Plan (RMAP2) Submittal for the Baton Rouge Sanitary Sewer Overflow Control and Wastewater Facilities Program*. This RMAP2 submittal was consistent with current industry standards and the 2002 Consent Decree, including Section V – Objectives. The RMAP2 submittal also did not extend the schedule beyond the January 1, 2015 deadline already imposed in the Court approved 2002 Consent Decree, and adhered to Section XXXIV - Modification – Paragraph 118. The Agreement and Order was lodged with the Court for public notice and comment for a period of not less than 30 days in accordance with DOJ policy and in 28 C.F.R. § 50.7, and 45 days in accordance with the LDEQ La. R.S. 30:2050.7. The City/Parish was e-mailed two public comments received by the DOJ in regards to the Agreement and Order on January 5, 2009.

Soon thereafter, the City/Parish and CH2M HILL developed a technical memorandum titled *Response to Public Comments of the Agreement and Order Regarding the Modification of the Consent Decree - Civil Action No. 01-978-B-M3 (M.D. La.)* which included the City/Parish's response to the two public comments received by the DOJ on December 17, 2008 from Mr. Steve Irving and Ms. Kathryn Lewis. The memorandum was initially submitted on January 23, 2009, was later updated based on comments received by DOJ, and was eventually submitted as a final version of the memorandum on February 27, 2009. The City/Parish believed that it provided a comprehensive response to the public comments received, and also highlighted the extensive progress that has been achieved to date associated with the Consent Decree. Additionally, many actions to address the concerns expressed in the public comments received were already either completed or underway. The City/Parish requested at the time that the Court timely approve the modification, as the City/Parish had multiple projects that were currently ready to begin design as soon as the Consent Decree modification was approved. On April 22, 2009, the DOJ, EPA, and LDEQ approved the Agreement and Order which specifically adopts the City/Parish's *Second Remedial Measures Action Plan (RMAP2) Submittal for the Baton Rouge Sanitary Sewer Overflow Control and Wastewater Facilities Program* (September 2008).

Since its approval, the City/Parish has been actively moving forward with implementation of the projects included in the *Second Remedial Measures Action Plan (RMAP2) Submittal for the Baton Rouge Sanitary Sewer Overflow Control and Wastewater Facilities Program* (September 2008). However, in early 2011 the City/Parish began realizing effects of an extremely compressed compliance schedule, as well as concerns with affordability issues emerging with executing over \$1 billion in projects in less than 6 years (which was the time left in the original compliance schedule required from 2002). Additionally, there had been numerous force majeure events affect the City/Parish, that took time away from normal operations that have also adversely affected the implementation schedule. Therefore, in July 2011, the City/Parish decided to submit a request for time extension (3 years), *2011 Request for Time Extension/Modification of the Compliance Schedule in the Approved RMAP2 Submittal*, for the RMAP2 projects listed in the *Second Remedial Measures Action Plan (RMAP2) Submittal for the Baton Rouge Sanitary Sewer Overflow Control and Wastewater Facilities Program* (September 2008). Shortly after its submission, the City/Parish started incorporating some schedule modifications, in order to take into account the proposed changes included in the request for time extension (3 year extension request) in anticipation of its quick approval.

However, during many discussions with DOJ, EPA, and LDEQ it was eventually agreed that the City/Parish submit a revised request for time extension (4 years) for the RMAP2 projects listed in the *Second Remedial Measures Action Plan (RMAP2) Submittal for the Baton Rouge Sanitary Sewer Overflow Control and Wastewater Facilities Program* (September 2008). One of the reasons for this request was for the City/Parish to accelerate the schedule of several "additional projects" (described later in this report in *Section 1.3 Additional Projects Outside of the Consent Decree*) that were planned throughout the City/Parish once all of the RMAP2 projects were completed. The 4 year extension request was eventually submitted on October 23, 2012 and was included in the document titled *Modified Request for Time Extension/Modification of the Compliance Schedule in the Approved RMAP2 Submittal*. The City/Parish's updated request for time extension (4 years) for the RMAP2 project was signed/formalized by DOJ/EPA/LDEQ on June 18, 2013. The City/Parish has therefore

incorporated schedule modifications in tables 2, 3 and 4 below in order to take into account any changes included in the approved 4 year request for time extension in 2013.

At this time, the City/Parish is actively moving forward with the execution of the RMAP2 projects included herein, as outlined in the April 2009 Consent Decree Modification by DOJ, EPA, and LDEQ that adopts the corresponding *Second Remedial Measures Action Plan (RMAP2) Submittal for the Baton Rouge Sanitary Sewer Overflow Control and Wastewater Facilities Program* (September 2008). In addition, the City/Parish is now adhering to the revised compliance schedule approved in the (June 2013) Revised Second Consent Decree Modification by DOJ, EPA, and LDEQ which formally approves the City/Parish's 4 year extension request which was the focus of the *Modified Request for Time Extension/Modification of the Compliance Schedule in the Approved RMAP2 Submittal* (October 2012).

As previously mentioned, as of December 31, 2016 there are 78 RMAP2 projects functionally completed, 25 projects under construction, and 9 projects under design, and the City/Parish is still the peak of construction activities.

The City/Parish is seeing many of the effects from the ramping up of the design and construction activities. The capacity of both internal and external support functions is becoming an issue of growing concern, particularly due to the stresses already placed on several key support roles specifically with regards to the City/Parish procurement system, easement and right-of-way acquisition, and state/local permit acquisitions/approvals. All of these support systems are already strained and the peak of RMAP2 work is underway, with no significant drop off expected until late 2016.

In addition, the City/Parish continues documenting the impact of force majeure events that have affected the Baton Rouge Area. During 2016, there were multiple force majeure events related to the threat of Mississippi River Flooding and the Great Flood of 2016 that considerably affected Baton Rouge. On December 14, 2015 the USACE issued a "2015 December High Water Notice" which halts work within 1,500 feet of the Mississippi River when the Carrollton Gage level reaches 11.00+ feet. The waters finally fell below 11.00+ feet April 30, 2016. The river again rose above 11.00+ feet at the Carrollton Gage level May 10 and did not fall until May 28, 2016. Then, on Friday, August 12, 2016 Governor John Bel Edwards declared a state of emergency for the entire state of Louisiana as a result of flooding that began due to rainfall that started August 11, 2016. This was followed on August 14, 2016, by President Obama signing the Louisiana Disaster Declaration, which declared a major disaster for the State of Louisiana. On September 23, 2016, Dr. Chuck Carr Brown, the secretary of the Louisiana Department of Environmental Quality signed a Second Amended Declaration of Emergency and Administrative Order, to expire September 30, 2016. On September 30, 2016, a Third Amended Declaration of Emergency and Administrative Order was signed by Dr. Chuck Carr Brown, extending the order until November 30, 2016. On November 30, 2016, a Fourth Amended Declaration of Emergency and Administrative Order was signed by Dr. Chuck Carr Brown, extending the order until December 31, 2016. On December 21, 2016, a Fifth Amended Declaration of Emergency and Administrative Order was signed by Dr. Chuck Carr Brown, extending the order until January 31, 2017. **(See Attachment A: 2016 Force Majeure Events and Updates).**

These events and other force majeure events in past years (including Hurricanes Katrina, Rita, and Gustav, the Gulf of Mexico oil spill, 2011 Mississippi River flood, Tropical Storm Lee, Hurricane Isaac, the Great Flood of 2016, and other extreme storm events) can significantly impact not only project costs, but contractor availability, and also project schedules. The Consent Decree schedule is very demanding and the time lost recently and in the past years from these force majeure events has greatly affected the program, and could potentially affect project schedules and implementation now and into the future. The City/Parish keeps track of these events in regards to their potential effect on schedule and compliance, and also effect on the associated

construction costs and contractor availability for RMAP2 project work. The City/Parish will continue to regularly document all RMAP2 project changes related to force majeure events.

Each year, the City/Parish and CH2M HILL re-evaluates projects as a part of the Program Delivery Plan Update (PDP Update), or Project Value Engineering (VE) analysis. Included is a continual refinement and quality control review of the hydraulic model of the sewer system, and all necessary modifications of the model incorporating new information as it is available. These on-going refinements in the past have slightly altered some of the RMAP2 projects to improve their effectiveness, or have helped streamline construction activities, etc. With EPA and LDEQ approval, the City/Parish has been regularly documenting all RMAP2 project changes (scope changes, project additions, project deletions, project merging, name changes, and schedule changes) that have been made in the annual PDP Updates, Project VE, and in the Quarterly and Annual EPA Reports. Therefore, Tables 2, 3, and 4 have been updated to reflect any changes associated with these on-going efforts.

The RMAP2 projects are separated into three categories with descriptions and schedules provided for all projects, current through December 31, 2016.

1.2.1 Category 1: Comprehensive Sewer Basin Rehabilitation

Based on sewer system digital model analysis and flow monitoring, 26 sub-basins within the collection system require comprehensive rehabilitation. Sewer system comprehensive rehabilitation projects are implemented to repair or replace components of the system that are defective and may permit excessive infiltration and inflow.

Table 2 presents the Category 1 comprehensive rehabilitation sub-basin projects and anticipated delivery milestone schedules. Status summaries are also provided for those projects already underway. Pump station improvements are included in the projects listed in Category 2, Pump Station and Transmission Improvements in Table 3 on the following pages.

TABLE 2				
Updated EPA Consent Decree RMAP Milestones for Category 1 Projects				
	33% Construction Milestone	66% Construction Milestone	100% Construction Milestone	Project Status Summaries
Milestone Date	1st QTR 2013	2nd QTR 2015	4th QTR 2018	
Construction Status	Construction Functionally Complete	Construction Functionally Complete	Construction Functionally Complete	
Project Descriptions RMAP2 Projects				
Jefferson Hwy – HooShooToo Road	●			Project completed – 3rd quarter 2009.
Staring Lane – Boone Drive Area Rehabilitation Project	●			Project completed – 2nd quarter 2010.
Burbank Drive – Gardere Lane Area Rehabilitation Project	●			Project completed – 1st quarter 2011.
Oak Villa – Choctaw Street Area Rehabilitation Project	●			Project completed – 3rd quarter 2011.
Scotland Avenue – Progress Road Area Rehabilitation Project	●			Project completed – 2nd quarter 2011.
Elm Grove Garden Road – Harding Boulevard Area Rehabilitation Project	●			Project completed – 3rd quarter 2011.
Sharp Road – Florida Boulevard Area Rehabilitation Project	●			Project completed – 3rd quarter 2012.

TABLE 2				
Updated EPA Consent Decree RMAP Milestones for Category 1 Projects				
	33% Construction Milestone	66% Construction Milestone	100% Construction Milestone	Project Status Summaries
Milestone Date	1st QTR 2013	2nd QTR 2015	4th QTR 2018	
Construction Status	Construction Functionally Complete	Construction Functionally Complete	Construction Functionally Complete	
Kenilworth Boulevard – Boone Drive Area Rehabilitation Project	●			Project completed – 3 rd quarter 2012.
Foster Drive - Government Street Area Rehabilitation Project Phase A	●			Project completed – 4 th quarter 2011.
Foster Drive - Government Street Area Rehabilitation Project Phase B	●			Project completed – 3 rd quarter 2012.
Silverleaf Road – Ford Street Area Rehabilitation Project	●			Project completed – 4 th quarter 2012.
Brookstown Road - Evangeline Street Phase I Area Rehabilitation Project	●			Project completed – 4 th quarter 2012.
Brookstown Road – Evangeline Street Phase II Area Rehabilitation Project	●			Project completed – 4 th quarter 2012.
Bluebonnet Blvd – Jefferson Hwy Phase I Area Rehabilitation Project		●		Project completed – 4 th quarter 2012.
Bluebonnet Blvd – Jefferson Hwy Phase II Area Rehabilitation Project		●		Project completed – 1 st quarter 2013.
Highland Road – Washington Street Area Rehabilitation Project		●		Project completed—3 rd quarter 2013.
Stanford Avenue – Morning Glory Road Area Rehabilitation Project	●			Project completed – 4 th quarter 2012.
Airline Highway – Goodwood Blvd Phase I Area Rehabilitation Project		●		Project completed-3 rd quarter 2014.
Airline Highway – Goodwood Blvd Phase II Area Rehabilitation Project		●		Project completed – 2 nd quarter 2015.
Acadian Thruway – Claycut Road Area Rehabilitation Project		●		Project completed – 1 st quarter 2013.
Acadian Thruway – Perkins Road Area Rehabilitation Project	●			Project completed – 4 th quarter 2012.
Antioch Road – Chadsford Drive Area Rehabilitation Project		●		Project completed – 2 nd quarter 2015.
Jones Creek Road – Tiger Bend Road Area Rehabilitation Project			●	Project completed – 1 st quarter 2016.
Scenic Highway – Spanish Town Road Phase I Area Rehabilitation Project		●		Project completed – 2 nd quarter 2015.
Scenic Highway – Spanish Town Road Phase II Area Rehabilitation Project			●	Project completed – 2 nd quarter 2016.
Siegen Lane – Interstate 10 Area Rehabilitation Project			●	Construction 83% complete and ongoing.
Interstate 110 – Hollywood Street Area Rehabilitation Project			●	Project completed – 3 rd quarter 2015.
Ardenwood Drive – Winbourne Street Area Rehabilitation Project			●	Project completed – 3 rd quarter 2016.
Flannery Road – Florida Boulevard Phase I Area Rehabilitation Project			●	Construction 62% complete and ongoing.

TABLE 2				
Updated EPA Consent Decree RMAP Milestones for Category 1 Projects				
	33% Construction Milestone	66% Construction Milestone	100% Construction Milestone	Project Status Summaries
Milestone Date	1st QTR 2013	2nd QTR 2015	4th QTR 2018	
Construction Status	Construction Functionally Complete	Construction Functionally Complete	Construction Functionally Complete	
Flannery Road – Florida Boulevard Phase II Area Rehabilitation Project			●	Design completed 4 th quarter 2016. Advertisement for bids for construction anticipated 1 st quarter 2017.
East Boulevard – Government Street Area Rehabilitation Project			●	Construction 89% complete and ongoing.
North 38th Street – Gus Young Avenue Area Rehabilitation Project			●	Design completed 3 rd quarter 2016. Advertisement for bids for construction anticipated 1 st quarter 2017.

1.2.2 Category 2: Pump Station and Transmission Improvements

The Infoworks digital wastewater model was used to identify necessary increases in the capacity of existing gravity trunk sewers, pump stations, and transmission mains in order to accommodate peak wastewater flows remaining in the rehabilitated collection system. Table 3 presents a list of Category 2 projects with corresponding milestone schedules. Project status summaries are provided for those projects already underway, current through December 31, 2016.

TABLE 3				
EPA Consent Decree RMAP2 Milestones for Category 2 Projects				
	33% Construction Milestone	66% Construction Milestone	100% Construction Milestone	Project Status Summaries
Milestone Date	1st QTR 2013	2nd QTR 2015	4th QTR 2018	
Construction Status	Construction Functionally Complete	Construction Functionally Complete	Construction Functionally Complete	
Project Descriptions RMAP2 Projects				
Capitol Lake – Gayosa Street Area Capacity Improvements	●			Project completed - 2nd quarter 2012.
Gurney Road - Joor Road	●			Project completed - 4th quarter 2009.
Sullivan Rd./Lovett Rd./Wax Rd. Sewer Upgrades	●			Project completed - 1st quarter 2011.
Comite Road – Foster Road Sewer Area Upgrades - Phase I	●			Project completed - 2nd quarter 2010.
Foster Road – Hooper Road Sewer Area Upgrade	●			Project completed - 4th quarter 2010.

TABLE 3				
EPA Consent Decree RMAP2 Milestones for Category 2 Projects				
	33% Construction Milestone	66% Construction Milestone	100% Construction Milestone	Project Status Summaries
Milestone Date	1st QTR 2013	2nd QTR 2015	4th QTR 2018	
Construction Status	Construction Functionally Complete	Construction Functionally Complete	Construction Functionally Complete	
Zachary Area Transmission Network Improvements Phase I - 3 Pump Stations and Equalization Basin		●		Project completed - 1st quarter 2013.
Zachary Area Transmission Network Improvements Phase II – Red Mud Lakes Forcemain to NWWTP		●		Project completed – 2nd quarter 2016.
Zachary Area Transmission Network Improvements Phase III – Forcemain to Highway 964 to Red Mud Lakes		●		Project completed - 4th quarter 2014.
Zachary Area Transmission Network Improvements Phase IV – Zachary Improvements		●		Project completed - 4th quarter 2011.
Zachary Area Transmission Network Improvements Phase V – Zachary Improvements			●	Construction 80% complete and ongoing.
South Boulevard – St. Joseph Street Sewer Area Upgrades	●			Project completed –2nd quarter 2012.
South Boulevard – St. Joseph Street Sewer Area Upgrades – Phase B			●	Construction approximately 85% complete and ongoing. Scope added to project warranting a redesign due to worse than expected existing system conditions and unknown drainage features.
Downtown Area Pump Station Improvements		●		Project completed - 2nd quarter 2012.
Highland Road – Buchanan Street Sewer Area Upgrades	●			Project completed - 4th quarter 2011.
Citiplace/Essen Area - PS119 & Forcemain Improvements	●			Project completed - 3th quarter 2012.
Group Project 1A (Metro Airport Sewer Upgrades)		●		Project completed - 2nd quarter 2013.
Group Project 1B (Metro Airport Sewer Area Pump Station & Forcemain Upgrades)		●		Project completed - 1st quarter 2016.
Perkins/Old Perkins Area - Booster PS 514 Improvements		●		Project completed - 2nd quarter 2013.
Group Project 2 (Old Perkins – Highland Road Area Upgrades)	●			Project completed - 2nd quarter 2012.

TABLE 3				
EPA Consent Decree RMAP2 Milestones for Category 2 Projects				
	33% Construction Milestone	66% Construction Milestone	100% Construction Milestone	Project Status Summaries
Milestone Date	1st QTR 2013	2nd QTR 2015	4th QTR 2018	
Construction Status	Construction Functionally Complete	Construction Functionally Complete	Construction Functionally Complete	
Highland Road – Burbank Drive Capacity Improvements		●		Project completed – 4th quarter 2016.
Nicholson Drive – Highland Road – Perkins Road Capacity Improvements Phase A		●		Project completed - 1st quarter 2012.
Nicholson Drive – Highland Road – Perkins Road Capacity Improvements Phase B		●		Project completed - 1st quarter 2015.
Bayou Duplantier Area Sewer Upgrades		●		Project completed - 3rd quarter 2013.
25th Street - North Acadian Thruway	●			Improvements designed under this project were constructed as part of the Capital Lake-Gayosa Drive Project and the South Blvd.-Saint Joseph Street Project. Please see status updates for the two projects mentioned in this table above.
Government St - South Acadian Thruway Sewer Area Upgrades			●	Project completed - 1st quarter 2016.
Plank Road – Kleinpeter Road Sewer Area Upgrades		●		Project completed - 1st quarter 2016.
O’Neal Lane Pipeline Improvements – Group A		●		Project completed - 4th quarter 2014.
O’Neal Lane Pipeline Improvements – Group B		●		Project completed - 2nd quarter 2015.
Multiple PS - Nicholson Dr - Brightside Dr		●		Project completed - 2nd quarter 2015.
Pump Station 58 Capacity Improvements		●		Project completed - 1st quarter 2015.
Staring Lane FM (Phase I - Burbank Drive to Highland Road)	●			Project completed - 2nd quarter 2010.
Staring Lane FM (Phase II - Highland road to Perkins Road)		●		Project completed - 4th quarter 2013.
Staring Lane FM (Phase III - Perkins to PS58)		●		Project completed - 3rd quarter 2014.
Multiple PS - Jefferson Hwy - Park Forest Dr		●		Project completed - 3rd quarter 2012.
Airline Highway Pipeline Improvements-Phase A			●	Construction 82% complete and ongoing.
Airline Highway Pipeline Improvements-Phase B			●	Construction 17% complete and ongoing.

TABLE 3				
EPA Consent Decree RMAP2 Milestones for Category 2 Projects				
	33% Construction Milestone	66% Construction Milestone	100% Construction Milestone	Project Status Summaries
Milestone Date	1st QTR 2013	2nd QTR 2015	4th QTR 2018	
Construction Status	Construction Functionally Complete	Construction Functionally Complete	Construction Functionally Complete	
Multiple PS - Highland Road - Kenilworth Parkway			●	Construction approximately 90% complete and ongoing.
Florida Boulevard Pump Station Improvements			●	Advertisement completed. Construction NTP anticipated 1 st quarter 2017.
Plank Road Pump Station Improvements			●	Construction is approximately 90% complete and ongoing.
Multiple PS - Highway 61 - Plank Road			●	Construction approximately 1% complete and ongoing.
O'Neal Lane Pump Station Improvements – Group A			●	Construction approximately 96% complete and ongoing.
O'Neal Lane Pump Station Improvements – Group B			●	Construction approximately 97% complete and ongoing.
Sherwood Forest Blvd – Goodwood Blvd Pipeline Improvements			●	Construction approximately 6% complete and ongoing
Joor Road - Greenwell Springs Road Sewer Area Upgrades			●	Advertisement completed. Construction NTP anticipated 1 st quarter 2017.
Plank Road - Port Hudson Pride Road Sewer Area Upgrades			●	Project completed - 3rd quarter 2015.
Highland Road Pipeline Improvements - Group A			●	Project completed - 3rd quarter 2016.
Highland Road Pipeline Improvements - Group B			●	Construction is approximately 45% complete and ongoing.
Oak Villa Boulevard - Monterrey Boulevard Sewer Area Upgrades			●	Construction is approximately 25% complete and ongoing.
Lovett Road – Greenwell Springs Road Sewer Area Upgrades			●	Advertisement completed. Construction NTP anticipated 1 st quarter 2017.
Hooper Road Pump Station Improvements			●	Construction is approximately 1% complete and ongoing.
Multiple PS - Prescott Rd - Greenwell Springs Rd			●	Design completed. Advertisement for bids for construction anticipated 2 nd quarter 2016.
Multiple PS - Burbank Drive - Siegen Lane			●	Construction is approximately 45% complete and ongoing.
Pump Station 42 Improvements		●		Project completed - 1st quarter 2016.
Pump Station 42 Forcemain - Phase I		●		Project complete - 3rd quarter 2014.
Pump Station 42 Forcemain - Phase II		●		Project complete - 2nd quarter 2014.

TABLE 3				
EPA Consent Decree RMAP2 Milestones for Category 2 Projects				
	33% Construction Milestone	66% Construction Milestone	100% Construction Milestone	Project Status Summaries
Milestone Date	1st QTR 2013	2nd QTR 2015	4th QTR 2018	
Construction Status	Construction Functionally Complete	Construction Functionally Complete	Construction Functionally Complete	
Central Consolidated Pump Stations		●		Project complete - 4th quarter 2014.
Central Consolidated Forcemains – Phase I		●		Project complete - 3rd quarter 2013.
Central Consolidated Forcemains – Phase II		●		Project complete - 3rd quarter 2014.

1.2.3 Category 3: Wastewater Treatment and Storage

This category of projects includes improvements at the City/Parish WWTPs, as well as storage facilities throughout the service area. There are not any RMAP2 projects that have been identified at the North WWTP, but several projects are being done by the City/Parish to improve plant performance and odor control. Based on extensive evaluations in the *Draft Wastewater Master Plan* (May 2008), the existing Central WWTP has insufficient flows to justify the cost of renovation and upgrading for future requirements, and will be retired when the RMAP2 projects are completed at the South WWTP. Flows predicted for the current central service area will be diverted to the South WWTP and adjustments will be made in the South WWTP improvements to handle the increased flows.

Summaries of the WWTP projects that are part of RMAP2 submittal are described below.

- The Immediate Action Plan (IAP) South WWTP Project includes screening, trickling filter recirculation pumping, primary treatment improvements, and bio-solids thickening improvements. Note that this project was made up of three separate projects that were grouped together for ease of execution and construction coordination. Also note that the effluent pumping IAP project has been completed.
- Phase 1 Improvements at the South WWTP for Wet Weather Flow including influent pumping, and screening and grit removal for a predicted flow of 345 million gallons per day (MGD). Phase 1 also includes 64 million gallons of equalization storage at the South WWTP.
- Phase 2 Improvements at the South WWTP include wet weather flow treatment with a peak capacity of 200 MGD (as previously approved in the November 2006 RMAP2).

In addition, there are storage projects sized to reduce peak flows to existing treatment plants that are also a part of this RMAP2 submittal, and are listed as follows and described in Table 4.

- South - Choctaw Storage Facility
- North – Hooper Storage Facility

These storage projects are part of the transmission system that allows for retaining (storage) of peak wet weather flows and permits that stored flow is later released for treatment at the treatment plant. All projects of this type are already underway. The details of the wastewater treatment and storage projects are listed in Table 4 below, and are current through December 31, 2016.

Table 4				
EPA Consent Decree RMAP2 Milestones for Category 3 Projects				
	33% Construction Milestone	66% Construction Milestone	100% Construction Milestone	Project Status Summaries
Milestone Date	1 st QTR 2013	2 nd QTR 2015	4 th QTR 2018	
Construction Status	Construction Functionally Complete	Construction Functionally Complete	Construction Functionally Complete	
Project Descriptions RMAP2 Projects				
Choctaw Storage and Pump Station Facility		●		Project completed – 3rd quarter 2013.
Hooper Storage Facility		●		Project completed – 2nd quarter 2016.
South WWTP IAP (Consolidated – Screening, Primary Treatment, Trickling Filter Recirculation, Sludge Handling)	●			Project completed - 2nd quarter 2011.
South WWTP IAP (Effluent Pumping Improvements)	●			Project completed - 1st quarter 2008.
SWWTP Wet Weather Improvements - Phase I		●		Project completed - 2nd quarter 2013.
SWWTP Wet Weather Improvements - Phase II (PDP portion)		●		Project completed - 2nd quarter 2015.

1.3 Additional Projects Outside of Consent Decree

This category of projects is composed of several additional projects the City/Parish has agreed to implement not presently included/tracked by the RMAP2 Consent Decree Compliance Schedule, and specifically includes wet weather improvements at the City/Parish wastewater treatment plants (WWTP's), as well as storage facilities throughout the service area. Many of these projects will greatly improve the operation and maintenance of the wastewater collection system, WWTP's, and storage facilities. Specifically included in this group of projects are both the SCADA Project and the Standby Power Program, which will help optimize the overall operation of the treatment facilities and pump stations, while minimizing risks associated with SSOs. All of these additional projects are summarized below and project statuses are provided in Table 5.

The North WWTP improvements project was most recently bid as one project-- North WWTP Master Plan & Sustainability Improvements Project. However, bids received for the project were 35% over available funds and therefore value engineering was used to break the project into several projects, as listed below in Table 5.

Table 5			
Proposed Schedule for Projects Outside of Consent Decree			
	Scheduled Start	Scheduled Finish	Project Status Summary
NWWTP Plantwide & Master SCADA Project	Project Underway	Construction – 4 th quarter 2018	Advertisement anticipated 3 rd quarter 2017. Project originally part of NWWTP Master Plan project, re-scoped into several projects 4 th quarter 2016 due to high bids.
NWWTP Standby Generator Project	Project Underway	Construction – 2 nd quarter 2018	Advertisement anticipated 3 rd quarter 2017. Project originally part of NWWTP Master Plan project, re-scoped into several projects 4 th quarter 2016 due to high bids.
NWWTP Pretreatment & Grit Removal Rehabilitation Project	Project Underway	Construction – 4 th quarter 2018	Advertisement anticipated 2 nd quarter 2017. Project originally part of NWWTP Master Plan project, re-scoped into several projects 4 th quarter 2016 due to high bids.
NWWTP General Electrical Rehabilitation Project	Project Underway	Construction – 1 st quarter 2019	Advertisement anticipated 1 st quarter 2017. Project originally part of NWWTP Master Plan project, re-scoped into several projects 4 th quarter 2016 due to high bids.
NWWTP Odor Control & Sodium Hypochlorite Project	Project Underway	Construction – 2 nd quarter 2018	Advertised 4 th quarter 2016, expected construction start 2 nd quarter 2017. Project originally part of NWWTP Master Plan project, re-scoped into several projects 4 th quarter 2016 due to high bids.
North WWTP Sustainability Improvements Project	Project Underway	Construction – 4 th quarter 2017	Advertisement anticipated 1 st quarter 2017. Project originally part of North WWTP Master Plan & Sustainability Improvements Project (projects #1 and #2 combined 3 rd quarter 2015), un-combined 4 th quarter 2016.
NWWTP Master Plan Project #3 (Public Project) – Plant Buffer	Project Underway	Construction – 2 nd quarter 2018	Advertisement anticipated 1 st quarter 2017.
SWWTP Wet Weather Improvements – Phase II (Master Plan portion)	Complete	Complete	Project completed - 2nd quarter 2015.
Sewer System and WWTP Stand-by Power Program	Project Underway	Completion of SSO Program	Generator installation of PDP stations approximately 85% and on-going. Additional scope added; anticipated continual growth on this project. All stored generators were flooded during the Great Flood of 2016 and will require acquisition of replacements.
SCADA (Collection System, Operations Data and Control Center)	Project Underway	Completion of SSO Program	Construction of overall project 61% complete and ongoing.
Environmental Services Facility	Project Underway	Construction – 2 nd quarter 2018	100% design underway and advertisement anticipated 1 st quarter 2017. Note: City/Parish is comparing the costs of repurposing an existing building, redesigning a new facility, or modifying an existing design to facilitate a more cost effective structure.
NWWTP Odor Control Project	Complete	Complete	Project completed – 4th quarter 2010.

Table 5			
Proposed Schedule for Projects Outside of Consent Decree			
	Scheduled Start	Scheduled Finish	Project Status Summary
Comite –Foster Road Sewer Area Upgrades - Phase II	Complete	Complete	Project completed - 1st quarter 2011.
Zachary Area Transmission Network Improvements Phase V – Zachary Improvements	Project Underway	Project moved into RMAP2. See Table 5 for project status update	Project moved into RMAP2. See Table 5 for project status update
South Boulevard – Saint Joseph Street Phase B	Project Underway	Project moved into RMAP2. See Table 5 for project status update	Project moved into RMAP2. See Table 5 for project status update
Central WWTP Decommissioning Project	Project Underway	Plant offline 3 rd Quarter 2016.	Central WWTP came offline 3 rd quarter 2016; City/Parish investigating selling property with existing structures in place. Plan not finalized. NOTE: Phase II Environmental Assessment underway, final design to remove effluent piping as required by USACE in progress.
Ward Creek Aerial Crossing Replacement Emergency Project	Complete	Complete	Project completed – 3rd quarter 2015.
South Basin Coordination Project	Project Underway	Construction – 1 st quarter 2017	Project completed – 4th quarter 2016.
South WWTP Landscape Buffer Area	Complete	Complete	Project completed – 2nd quarter 2016.

1.4 Infiltration and Inflow Reduction Activities Summary

Another part of the Collection System Remedial Program identified in the Consent Decree Section XII is capital infiltration/inflow (I/I) reduction activities. Pursuant to item 35 in Section XII, the City/Parish is required to spend at least \$3 million annually for sewer repairs, sewer rehabilitation, and other capital expenditures related to reducing I/I in the North, South, and Central WWTP collection systems. The City/Parish spent approximately \$6.96 million, therefore this goal was exceeded during 2016. The City/Parish was in compliance with Section XII Collection System Remedial Program during this reporting period. There were no problems encountered in the Collection System Remedial Program during this reporting period and non-compliance is not anticipated during the next reporting period. Table 6 identifies the funds expended during 2016 to meet this requirement.

Project	Description	% Complete	Contract Amount	Expenditures 2016
15-MH-UF-0001	Manhole Rehabilitation Contract	31%	\$1,500,000.00	\$458,295.80
15-MH-UF-0001	Manhole Rehabilitation Contract	52%	\$1,500,000.00	\$778,463.45
15-PI-MS-0041	Sewer Physical Inspection Contract	91%	\$3,000,000.00	\$2,730,737.04
14-CP-UF-0001	Annual Cured-In-Place Lining	5%	\$1,887,277.80	\$91,920.00
14-PN-UF-0014	Supplemental Parishwide Sewer Repair and Replacement Project	2%	\$1,728,224.46	\$36,263.06
14-PN-UF-0014	Supplemental Parishwide Sewer Repair and Replacement Project	15%	\$500,000.00	\$74,693.22

Project	Description	% Complete	Contract Amount	Expenditures 2016
14-PN-UF-0003	Annual Parishwide Sewer Repair and Replacement Project	20%	\$1,499,913.00	\$295,179.88
14-PN-UF-0003	Annual Parishwide Sewer Repair and Replacement Project	26%	\$1,499,913.00	\$393,308.79
12-ER-WC-0050	Parishwide Sewer Emergency Repair	31%	\$4,050,000.00	\$1,271,248.11
16-ER-WC-0008	Parishwide Sewer Emergency Repair	33%	\$2,500,000.00	\$828,749.97
		TOTAL	\$19,665,328.26	\$6,958,859.32

2. Treatment Facility Assessment

Pursuant to Consent Decree Section XIII, Remedial Measure Treatment Facility Assessment, no later than March 30, 2002 the City/Parish was to submit a Treatment Facility Assessment report which assesses the treatment capabilities of the North, South, and Central WWTPs. The City/Parish submitted *Treatment Facility Assessment Report* on March 26, 2002 in conjunction with MWH. It was determined in the original *Treatment Facility Assessment Report* that all process units and conveyance elements had capacity for current and projected design flows at all three WWTPs and no WWTP facility improvements or expansion were required. The *Treatment Facility Assessment Report* also indicated that the monthly Operators Process Control meetings led by Dr. John J. Sansalone of LSU were having a beneficial impact on plant performance.

Since that time, there have been additional engineering assessments and studies of the WWTPs which resulted in the need for treatment plant improvements at the South WWTP which are now included in the RMAP2 projects presented in the *Second Remedial Measures Action Plan (RMAP2) Submittal for the Baton Rouge Sanitary Sewer Overflow Control and Wastewater Facilities Program* (September 2008) and approved by the *Agreement and Order Regarding the Modification of the Consent Decree - Civil Action No. 01-978-B-M3 (M.D. La.)* signed in April 2009.

The City/Parish typically submits Municipal Water Pollution Prevention (MWPP) Environmental Audit Reports for the North, South, and Central WWTPs once a year to LDEQ. These reports contain an evaluation and rating for influent loadings, plant performance, overflows and bypasses, treatment plant age, sludge disposal, new development in collection system, and operator certification training for the North, South and Central WWTPs. The MWPP audit rates the treatment plants on the aforementioned factors annually starting and are submitted annually the year following the effective date of NPDES permits. The actions that will be taken to maintain compliance and prevent effluent violations are typically presented in MWPP resolutions, which were last submitted along with the audit on June 14, 2016.

3. Environmental Results Monitoring

Pursuant to Consent Decree Section XIV, Remedial Measures – Environmental Results Monitoring Plan, the City/Parish shall implement the Environmental Results Monitoring (ERM) Plan attached in Consent Decree Exhibit G. The objective of the ERM program is to measure the environmental benefits from the Work performed under the Consent Decree through measurement of water quality improvements. The impact of the work throughout the City/Parish is tested by monitoring sewage indicating pollutants in major receiving waters prior to and following completion of remedial measures within each drainage basin. The original plan outlines four sampling locations, including all major tributaries in East Baton Rouge Parish, which enter the Amite River System – and eventually Lake Pontchartrain.

The Phase I Baseline Monitoring was completed during the 2004 reporting period. The Phase II Results Monitoring will begin 6 months following completion of all remedial measures within a specified drainage area contributing to an identified sampling location.

4. Interim Relief Measures Activities

Paragraph 39 of the Consent Decree provides interim effluent limits of 75% removal of BOD and TSS (based on 30-day average removal rates), until completion of all RMAP construction projects, as an interim relief to the 85% removal requirement of the three WWTP National Pollution Discharge Elimination System (NPDES) permits.

4.1 North WWTP

During 2016, the North WWTP has been in compliance with the 75% interim effluent limits for the entire 12 months of the reporting period for BOD and TSS. The North WWTP met the permit limit of 85% removal for TSS for 8 months and BOD for 7 months, as shown in Table 7.

4.2 Central WWTP

The Central WWTP has been in compliance with the 75% interim effluent limits and 85% permit limits for removal of TSS and BOD for the 7 months it was in operation as shown in Table 7.

4.3 South WWTP

During 2016, the South WWTP has been in compliance with the 75% interim effluent limits for 10 months of the reporting period for TSS and 11 months for BOD. The South WWTP met the permit limit of 85% removal for TSS for 6 months, and BOD for 10 months, as shown in Table 7.

Table 7 2016 Monthly Average Percent Removal												
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
North Plant-LA0036439												
BOD	81	81	83	82	86	87	87	85	90	90	88	82
TSS	79	83	84	87	86	90	89	85	89	90	86	78
Central Plant-LA0036421												
BOD	86	89	87	88	87	89	94	-	-	-	-	-
TSS	93	92	92	92	92	94	99	-	-	-	-	-
South Plant-LA0036412												
BOD	74	78	85	86	88	87	86	86	89	92	89	86
TSS	72	75	85	96	86	81	66	79	81	91	89	91

5. Outreach and Public Awareness Program

Consent Decree Section XV - Outreach and Public Awareness Plan requires the City/Parish DES to implement and follow the Outreach and Public Awareness Program Plan attached in Exhibit H of the Consent Decree. The Outreach and Public Awareness Program Plan was updated in December 2007 and has been completed

and reviewed/approved by the City/Parish, and then submitted in both the 2011 Annual EPA Report and 36th Quarterly EPA Report.

Outreach and Public Awareness Program Plan implementation efforts have been on-going. Public information tools such as the website <http://www.brprojects.com/SSOProgram/Default.aspx> are being continuously updated with new information about the program, project information (including quarterly progress reports detailing the status of the projects), regulatory information and associated reference documents, and news articles about the SSO Control and Wastewater Facilities Program, etc. Fact sheets and brochures have also been developed that can be accessed via the website, and have been handed out during the public meetings, that describes pertinent information and aspects about the Program. Additionally, prior to any field work in areas, informational door hangers are also hung on those homes where inspection work will be taking place.

Also the SSO Control and Wastewater Facilities Program Quarterly Progress Reports have been made available and distributed to the public. Until now, they have been, and still are, posted on the website for the public to download at their convenience and are always distributed to City/Parish and DES staff. The plan is for these reports to continue to be distributed to those on the master list and posted on the website; in addition they will also be handed out or mailed to anyone who requests them throughout the duration of the SSO Control and Wastewater Facilities Program.

SSO program communications continue to provide City/Parish residents with time critical information on SSO Control and Wastewater Facility Program projects, educational information on SSOs, and updates on the status of the Program and related projects. In close collaboration with the Office of the Mayor-President and the Department of Environmental Services, the Program has initiated a construction communication outreach component to complement the Program's current communication activities. The Program Communication Team has designed and distributed a variety of outreach materials, as well as association and neighborhood specific information as appropriate. A telephone hotline for residents to call with questions was developed and coordination between the SSO Program and the Parish's 311 call center was established; also, an email account was created to allow residents and other stakeholders to contact the Program. Additionally, materials including information letters and handouts, door hangers announcing road closures, were developed and are continuing to be distributed.

The Department of Public Works underwent a reorganization and rebranding, which involved rebranding the organization as the Department of Environmental Services (DES) and redefining their services to the community and their focuses. DES has increased their social media and web presence through multiple platforms to quickly disseminate information. DES has also greatly increased their public outreach and community engagement through working with national media outlets, initiating school outreach programs, developing a Fats, Oils, and Grease (FOG) Pretreatment Program, conducting school recycling competitions, establishing guidelines for tours of wastewater treatment plant and recycling facilities, among other activities.

The information presented in this section demonstrates that the City/Parish has been in compliance with Section XV Outreach and Public Awareness Program during the reporting period.

6. Plan Modification Needs

The City/Parish has not identified any deficiencies in the Cross Connection Elimination Plan, the Preventive Maintenance Program, the Sanitary Sewer Overflow Response Plan, or the Remedial Measures Action Plan.

7. Stipulated Penalties

A summary of penalties assessed and paid by the City/Parish and a cumulative summary of penalties assessed and potential stipulated penalties reported in past quarterly reports from 2016 are presented in Tables 8 and 9.

Table 8			
Penalties Assessed and Paid by the City/Parish to Date			
Penalties	Assessed	Paid	
		US DOJ	LDEQ
Civil Penalties	\$806,000	\$364,750	\$364,750
Past Stipulated Penalties (1988 Consent Decree)	\$216,000	\$216,000	
Note: These monetary stipulated penalties have been already paid by the City/Parish in 2002.			

Table 9			
Self-Reported Potential Stipulated Penalties 2016 (SSOs and WWTP violations)			
Stipulated Penalties	Number	Cost Per Occurrence	Amount Accrued
Unauthorized Discharges 2016			
Less than 1 MG & Non-Compliance with the Collection System Preventative Maintenance Plan	0	\$5,000	\$0
Less than 1 MG & Non-Compliance with the Sanitary Sewer Overflow Response Plan	0	\$5,000	\$0
1 MG or more	6	\$5,000	\$30,000
Non-Compliant Discharges (WWTP) 2016			
Weekly Average Limits	9	\$1,000	\$9,000
Monthly (30-day average) Limits	15	\$2,500	\$37,500
2016 Total Stipulated Penalties (through December 31, 2016)			\$76,500
Note: None of these self-reported stipulated penalties in this table have been assessed to the City/Parish by the DOJ/EPA/LDEQ or have been paid by the City/Parish at this time. Historical data utilized in this table was taken from the City/Parish Quarterly EPA Reports. In some instances where Preventative Maintenance Plan goals were not achieved in a given quarter, but the cumulative annual goals were exceeded, it was assumed that no penalties should be assessed for unauthorized discharges that occurred during that given quarter.			

2016 Annual Report Attachment A-
2016 Force Majeure Events and Updates



**Department of Environmental Services
Wastewater Division**

City of Baton Rouge
Parish of East Baton Rouge

Post Office Box 1471
Baton Rouge, La 70821

March 15, 2016

CERTIFIED – RETURN RECEIPT REQUESTED

Mr. Michael T. Donnellan
U.S. Department of Justice
P.O. Box 7611
Washington, D.C. 20044-7611

Ms. Mona Bates (6EN-WM)
U.S. Environmental Protection Agency, Region 6
1445 Ross Avenue, Suite 1200
Dallas, TX 75202-2733

Dr. Chuck Carr Brown
Louisiana Department of Environmental Quality
602 N. Fifth Street
Baton Rouge, LA 70802

Re: City of Baton Rouge and Parish of East Baton Rouge
Consent Decree-Civil Action No. 01-978-B-M3
Notice of Force Majeure Event – 2016 March Mississippi River Flood Event

Ladies and Gentlemen:

In conformance with the *Force Majeure* provision included in *Section XXII – Force Majeure* of the Consent Decree, this letter will serve as the formal notification by the City of Baton Rouge and Parish of East Baton Rouge (City/Parish) to the Department of Justice (DOJ), Environmental Protection Agency (EPA), and Louisiana Department of Environmental Quality (LDEQ) that a force majeure event has taken place. All subsurface work within 1,500 feet of the river is to halt when the Carrollton Gage level reaches + 11.0 MSL. The Mississippi River is projected to continue rising as flood volume water from the Ohio River basin enters the Mississippi River system north of Baton Rouge, and is not projected to drop below + 11.0 MSL on the Carrollton gage until, March 31, 2016 (based on the latest forecast, subject to change based on actual river levels). These elevated river levels are causing direct construction impacts beyond the control of the SSO Program on projects in close proximity of the Mississippi River, with secondary schedule impacts being felt in all drainage basins. This Force Majeure notification will be updated as needed during the rest of this event.

The SSO Program is continuously monitoring the level of the Mississippi River through official transmittals of the USACE, and maintains periodic observation of sites where construction has ceased. Intermittent contact is made with the personnel monitoring the Mississippi River level and levee in order to better understand the earliest that construction can resume on impacted

projects. The SSO Program will aggressively pursue resumption of construction when it is deemed appropriate to do so.

I certify that the information contained in or accompanying this document is true, accurate and complete. As to portions of this document for which I cannot personally verify their truth and accuracy, I certify as the official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification, that this is true, accurate, and complete.

Sincerely,



Karen Khonsari
Environmental Services Director



Robert Abbott
Senior Special Parish Attorney

Cc: Honorable Melvin L. "Kip" Holden, Mayor-President
William B. Daniel, IV, Chief Administrative Officer
Dr. Al Amendariz, US EPA REGION 6 Administrator
Mr. Carlos Zequeira, US EPA (6RC-EA)
Ms. Gladys Gooden-Jackson, US EPA (6EN-WC)
Mr. Ted Broyles, LDEQ
Mr. Adam Smith, PE, Chief of Wastewater Engineering & Technology
Mr. Josh Crowe, Program Director, CH2M
Mr. Joseph Young, PE, Program Manager, CH2M



**Department of Environmental Services
Wastewater Division**

City of Baton Rouge
Parish of East Baton Rouge

Post Office Box 1471
Baton Rouge, La 70821

March 15, 2016

CERTIFIED – RETURN RECEIPT REQUESTED

Mr. Michael T. Donnellan
U.S. Department of Justice
P.O. Box 7611
Washington, D.C. 20044-7611

Ms. Mona Bates (6EN-WM)
U.S. Environmental Protection Agency, Region 6
1445 Ross Avenue, Suite 1200
Dallas, TX 75202-2733

Dr. Chuck Carr Brown
Louisiana Department of Environmental Quality
602 N. Fifth Street
Baton Rouge, LA 70802

Re: City of Baton Rouge and Parish of East Baton Rouge
Consent Decree-Civil Action No. 01-978-B-M3
Notice of Force Majeure Event – 2016 March Mississippi River Flood Event

Ladies and Gentlemen:

In conformance with the *Force Majeure* provision included in *Section XXII – Force Majeure* of the Consent Decree, this letter will serve as the formal notification by the City of Baton Rouge and Parish of East Baton Rouge (City/Parish) to the Department of Justice (DOJ), Environmental Protection Agency (EPA), and Louisiana Department of Environmental Quality (LDEQ) that a force majeure event has taken place. All subsurface work within 1,500 feet of the river is to halt when the Carrollton Gage level reaches + 11.0 MSL. The Mississippi River is projected to continue rising as flood volume water from the Ohio River basin enters the Mississippi River system north of Baton Rouge, and is not projected to drop below + 11.0 MSL on the Carrollton gage until, March 31, 2016 (based on the latest forecast, subject to change based on actual river levels). These elevated river levels are causing direct construction impacts beyond the control of the SSO Program on projects in close proximity of the Mississippi River, with secondary schedule impacts being felt in all drainage basins. This Force Majeure notification will be updated as needed during the rest of this event.

The SSO Program is continuously monitoring the level of the Mississippi River through official transmittals of the USACE, and maintains periodic observation of sites where construction has ceased. Intermittent contact is made with the personnel monitoring the Mississippi River level and levee in order to better understand the earliest that construction can resume on impacted

projects. The SSO Program will aggressively pursue resumption of construction when it is deemed appropriate to do so.

I certify that the information contained in or accompanying this document is true, accurate and complete. As to portions of this document for which I cannot personally verify their truth and accuracy, I certify as the official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification, that this is true, accurate, and complete.

Sincerely,



Karen Khonsari
Environmental Services Director



Robert Abbott
Senior Special Parish Attorney

Cc: Honorable Melvin L. "Kip" Holden, Mayor-President
William B. Daniel, IV, Chief Administrative Officer
Dr. Al Amendariz, US EPA REGION 6 Administrator
Mr. Carlos Zequeira, US EPA (6RC-EA)
Ms. Gladys Gooden-Jackson, US EPA (6EN-WC)
Mr. Ted Broyles, LDEQ
Mr. Adam Smith, PE, Chief of Wastewater Engineering & Technology
Mr. Josh Crowe, Program Director, CH2M
Mr. Joseph Young, PE, Program Manager, CH2M



**Department of Environmental Services
Wastewater Division**

City of Baton Rouge
Parish of East Baton Rouge

Post Office Box 1471
Baton Rouge, La 70821

April 1, 2016

CERTIFIED – RETURN RECEIPT REQUESTED

Mr. Michael T. Donnellan
U.S. Department of Justice
P.O. Box 7611
Washington, D.C. 20044-7611

Ms. Mona Bates (6EN-WM)
U.S. Environmental Protection Agency, Region 6
1445 Ross Avenue, Suite 1200
Dallas, TX 75202-2733

Dr. Chuck Carr Brown
Louisiana Department of Environmental Quality
602 N. Fifth Street
Baton Rouge, LA 70802

Re: City of Baton Rouge and Parish of East Baton Rouge
Consent Decree-Civil Action No. 01-978-B-M3
Notice of Force Majeure Event – 2016 March and April Mississippi River Flood Event

Ladies and Gentlemen:

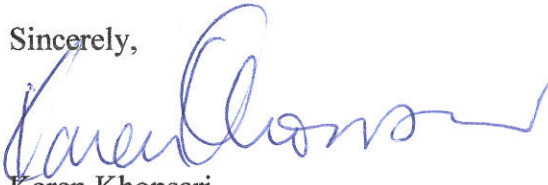
In conformance with the *Force Majeure* provision included in *Section XXII – Force Majeure* of the Consent Decree, this letter will serve as the formal notification by the City of Baton Rouge and Parish of East Baton Rouge (City/Parish) to the Department of Justice (DOJ), Environmental Protection Agency (EPA), and Louisiana Department of Environmental Quality (LDEQ) that a force majeure event has taken place and is extending past its original projected end date identified in the March 15, 2016 dated letter previously sent. All subsurface work within 1,500 feet of the river is to halt when the Carrollton Gage level reaches + 11.0 MSL. The Mississippi River is projected to continue rising as flood volume water from the Ohio River basin enters the Mississippi River system north of Baton Rouge, and is projected to stay above + 11.0 MSL on the Carrollton gage past April 27, 2016 (based on the latest forecast, subject to change based on actual river levels). These elevated river levels are causing direct construction impacts beyond the control of the SSO Program on projects in close proximity of the Mississippi River, with secondary schedule impacts being felt in all drainage basins. This Force Majeure notification will be updated as needed during the rest of this event.

The SSO Program is continuously monitoring the level of the Mississippi River and maintains periodic observation of sites where construction has ceased. Intermittent contact is made with the personnel monitoring the Mississippi River level and levee in order to better understand the

earliest that construction can resume on impacted projects. The SSO Program will aggressively pursue resumption of construction when it is deemed appropriate to do so.

I certify that the information contained in or accompanying this document is true, accurate and complete. As to portions of this document for which I cannot personally verify their truth and accuracy, I certify as the official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification, that this is true, accurate, and complete.

Sincerely,



Karen Khonsari
Environmental Services Director



Robert Abbott
Senior Special Parish Attorney

- Cc: Honorable Melvin L. "Kip" Holden, Mayor-President
William B. Daniel, IV, Chief Administrative Officer
Dr. Al Amendariz, US EPA REGION 6 Administrator
Mr. Carlos Zequeira, US EPA (6RC-EA)
Ms. Gladys Gooden-Jackson, US EPA (6EN-WC)
Mr. Ted Broyles, LDEQ
Mr. Adam Smith, PE, Chief of Wastewater Engineering & Technology
Mr. Josh Crowe, Program Director, CH2M
Mr. Joseph Young, PE, Program Manager, CH2M



**Department of Environmental Services
Wastewater Division**

City of Baton Rouge
Parish of East Baton Rouge

Post Office Box 1471
Baton Rouge, La 70821

May 3, 2016

CERTIFIED – RETURN RECEIPT REQUESTED

Mr. Michael T. Donnellan
U.S. Department of Justice
P.O. Box 7611
Washington, D.C. 20044-7611

Ms. Mona Tates (6EN-WM)
U.S. Environmental Protection Agency, Region 6
1445 Ross Avenue, Suite 1200
Dallas, TX 75202-2733

Dr. Chuck Carr Brown
Louisiana Department of Environmental Quality
602 N. Fifth Street
Baton Rouge, LA 70802

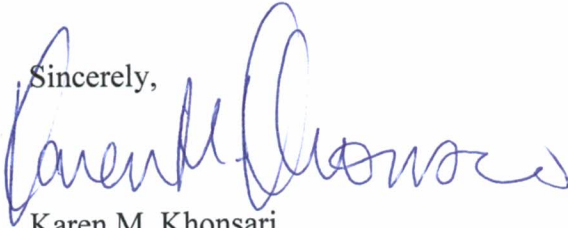
Re: City of Baton Rouge and Parish of East Baton Rouge
Consent Decree-Civil Action No. 01-978-B-M3
Notice of Force Majeure Event – 2016 March and April Mississippi River Flood Event
Completion

Ladies and Gentlemen:

In conformance with the *Force Majeure* provision included in *Section XXII – Force Majeure* of the Consent Decree, this letter will serve as the formal notification by the City of Baton Rouge and Parish of East Baton Rouge (City/Parish) to the Department of Justice (DOJ), Environmental Protection Agency (EPA), and Louisiana Department of Environmental Quality (LDEQ) that a force majeure event has taken place. All subsurface work within 1,500 feet of the river is halted when the Carrollton Gage level reached + 11.0 MSL. The Mississippi River finally fell below 11 MSL at the Carrollton Gage on April 30, 2016. These elevated river levels caused direct construction impacts beyond the control of the SSO Program on projects in close proximity of the Mississippi River, with secondary schedule impacts being felt in all drainage basins.

I certify that the information contained in or accompanying this document is true, accurate and complete. As to portions of this document for which I cannot personally verify their truth and accuracy, I certify as the official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification, that this is true, accurate, and complete.

Sincerely,



Karen M. Khonsari
Environmental Services Director



Robert H. Abbott, III
Senior Special Assistant Parish Attorney

Cc: Honorable Melvin L. "Kip" Holden, Mayor-President
William B. Daniel, IV, Chief Administrative Officer
Dr. Al Amendariz, US EPA REGION 6 Administrator
Mr. Carlos Zequeira, US EPA (6RC-EA)
Ms. Gladys Gooden-Jackson, US EPA (6EN-WC)
Mr. Ted Broyles, LDEQ
Mr. Adam Smith, PE, Chief of Wastewater Engineering & Technology
Mr. Josh Crowe, Program Director, CH2M
Mr. Joseph Young, PE, Program Manager, CH2M



**Department of Environmental Services
Wastewater Division**

City of Baton Rouge
Parish of East Baton Rouge

Post Office Box 1471
Baton Rouge, La 70821

May 10, 2016

CERTIFIED – RETURN RECEIPT REQUESTED

Mr. Michael T. Donnellan
U.S. Department of Justice
P.O. Box 7611
Washington, D.C. 20044-7611

Ms. Mona Tates (6EN-WM)
U.S. Environmental Protection Agency, Region 6
1445 Ross Avenue, Suite 1200
Dallas, TX 75202-2733

Dr. Chuck Carr Brown
Louisiana Department of Environmental Quality
602 N. Fifth Street
Baton Rouge, LA 70802

Re: City of Baton Rouge and Parish of East Baton Rouge
Consent Decree-Civil Action No. 01-978-B-M3
Notice of Force Majeure Event – 2016 May 10 Mississippi River Flood Event

Ladies and Gentlemen:

In conformance with the *Force Majeure* provision included in *Section XXII – Force Majeure* of the Consent Decree, this letter will serve as the formal notification by the City of Baton Rouge and Parish of East Baton Rouge (City/Parish) to the Department of Justice (DOJ), Environmental Protection Agency (EPA), and Louisiana Department of Environmental Quality (LDEQ) that a force majeure event has taken place beginning May 10, 2016. All subsurface work within 1,500 feet of the river is to halt when the Carrollton Gage level reaches + 11.0 MSL. The Mississippi River is projected to continue rising as flood volume water from the Ohio River basin enters the Mississippi River system north of Baton Rouge, and is not projected to drop below + 11.0 MSL on the Carrollton gage until May 27, 2016 (based on the latest forecast, subject to change based on actual river levels). These elevated river levels are causing direct construction impacts beyond the control of the SSO Program on projects in close proximity of the Mississippi River, with secondary schedule impacts being felt in all drainage basins. This Force Majeure notification will be updated as needed during the rest of this event.

The SSO Program is continuously monitoring the level of the Mississippi River through official transmittals of the USACE, and maintains periodic observation of sites where construction has ceased. Intermittent contact is made with the personnel monitoring the Mississippi River level and levee in order to better understand the earliest that construction can resume on impacted

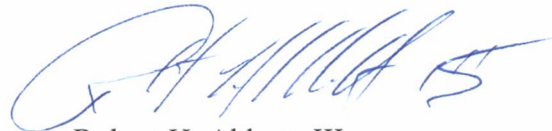
projects. The SSO Program will aggressively pursue resumption of construction when it is deemed appropriate to do so.

I certify that the information contained in or accompanying this document is true, accurate and complete. As to portions of this document for which I cannot personally verify their truth and accuracy, I certify as the official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification, that this is true, accurate, and complete.

Sincerely,



Karen M. Khonsari
Environmental Services Director



Robert H. Abbott, III
Senior Special Assistant Parish Attorney

Cc: Honorable Melvin L. "Kip" Holden, Mayor-President
William B. Daniel, IV, Chief Administrative Officer
Dr. Al Amendariz, US EPA REGION 6 Administrator
Mr. Carlos Zequeira, US EPA (6RC-EA)
Ms. Gladys Gooden-Jackson, US EPA (6EN-WC)
Mr. Ted Broyles, LDEQ
Mr. Adam Smith, PE, Chief of Wastewater Engineering & Technology
Mr. Josh Crowe, Program Director, CH2M
Mr. Joseph Young, PE, Program Manager, CH2M



**Department of Environmental Services
Wastewater Division**

City of Baton Rouge
Parish of East Baton Rouge

Post Office Box 1471
Baton Rouge, La 70821

June 3, 2016

CERTIFIED – RETURN RECEIPT REQUESTED 7010 0290 0000 0169 4014

Mr. Michael T. Donnellan
U.S. Department of Justice
P.O. Box 7611
Washington, D.C. 20044-7611

Ms. Mona Bates (6EN-WM)
U.S. Environmental Protection Agency, Region 6
1445 Ross Avenue, Suite 1200
Dallas, TX 75202-2733

Dr. Chuck Carr Brown
Louisiana Department of Environmental Quality
602 N. Fifth Street
Baton Rouge, LA 70802

Re: City of Baton Rouge and Parish of East Baton Rouge
Consent Decree-Civil Action No. 01-978-B-M3
Notice of Force Majeure Event – 2016 March and April Mississippi River Flood Event
Completion

Ladies and Gentlemen:

In conformance with the *Force Majeure* provision included in *Section XXII – Force Majeure* of the Consent Decree, this letter will serve as the formal notification by the City of Baton Rouge and Parish of East Baton Rouge (City/Parish) to the Department of Justice (DOJ), Environmental Protection Agency (EPA), and Louisiana Department of Environmental Quality (LDEQ) that a force majeure event has taken place. All subsurface work within 1,500 feet of the river is halted when the Carrollton Gage level reached + 11.0 MSL. The Mississippi River finally fell below 11 MSL at the Carrollton Gage on May 28, 2016. These elevated river levels caused direct construction impacts beyond the control of the SSO Program on projects in close proximity of the Mississippi River, with secondary schedule impacts being felt in all drainage basins.

The projects that were most severely impacted by this Force Majeure event are:

- Pump Station 42 Improvements
- Multiple Pump Stations- Highland Rd- Kenilworth Parkway
- South Boulevard – St. Joseph St. Phase II

2016 JUN -3 PM 3:34
LDEQ 6-3-16

- Zachary Area Transmission Network Improvements Project Phase II

I certify that the information contained in or accompanying this document is true, accurate and complete. As to portions of this document for which I cannot personally verify their truth and accuracy, I certify as the official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification, that this is true, accurate, and complete.

Sincerely,



Karen Khonsari
Environmental Services Director



Robert Abbott
Senior Special Parish Attorney

Cc: Honorable Melvin L. "Kip" Holden, Mayor-President
William B. Daniel, IV, Chief Administrative Officer
Dr. Al Amendariz, US EPA REGION 6 Administrator
Mr. Carlos Zequeira, US EPA (6RC-EA)
Ms. Gladys Gooden-Jackson, US EPA (6EN-WC)
Mr. Ted Broyles, LDEQ
Mr. Adam Smith, PE, Chief of Wastewater Engineering & Technology
Mr. Josh Crowe, Program Director, CH2M
Mr. Joseph Young, PE, Program Manager, CH2M



CERTIFIED- RETURN RECEIPT REQUESTED

DATE: August 19, 2016

TO: Mr. Michael T. Donnellan
U.S. Department of Justice
P.O. Box 7611
Washington, D.C. 20044-7611

Ms. Mona Tates (6EN-WM)
U.S. Environmental Protection Agency, Region 6
1445 Ross Avenue, Suite 1200
Dallas, TX 75202-2733

Dr. Chuck Carr Brown
Louisiana Department of Environmental Quality
602 N. Fifth Street
Baton Rouge, LA 70802

FROM: Karen Khonsari, Environmental Services Director
Department of Environmental Services, City of Baton Rouge and Parish of East Baton Rouge

SUBJECT: City of Baton Rouge and Parish of East Baton Rouge
Consent Decree-Civil Action No. 01-978-B-M3
Notice of Force Majeure Event – 2016 August 11 Flood Event

Ladies and Gentlemen:

In conformance with the Force Majeure provision included in Section XXII – Force Majeure of the Consent Decree, this letter will serve as the formal notification by the City of Baton Rouge and Parish of East Baton Rouge (City/Parish) to the Department of Justice (DOJ), Environmental Protection Agency (EPA), and Louisiana Department of Environmental Quality (LDEQ) that a force majeure event has taken place beginning August 11, 2016.

Rain events beginning August 11, 2016 and continuing through August 14, 2016 resulted in excessive flooding in East Baton Rouge Parish, as well as surrounding parishes such as Livingston Parish and Ascension Parish. The river stages of the Amite and Comite Rivers exceeded the 1983 flood event resulting in loss of life and property. Over 40,000 residents in the greater Baton Rouge area have been directly impacted by this rain event. Many individuals that work in East Baton Rouge Parish, including State and City-Parish employees, construction contractors, and employees of inspection firms have been impacted and are unable to return to work. The average rainfall for the area over the four day rain event was 11 inches. Zachary, located in East Baton Rouge Parish, had just over 26 inches of rainfall. This event has been identified as a 1,000 year rain.

On Friday, August 12, 2016 Governor John Bel Edwards declared a state of emergency for the entire state of Louisiana. This was followed on August 14, 2016, by President Obama signing the Louisiana Disaster Declaration, which declared a major disaster for the State of Louisiana.

All active construction and design SSO Program projects have been impacted by this event, as staff and contractors were directly impacted by the storm and are unable to return to work.

The SSO Program will aggressively pursue resumption of construction when it is deemed appropriate to do so and will provide an update upon completion of the Force Majeure event.

I certify that the information contained in or accompanying this document is true, accurate, and complete. As to portions of this document for which I cannot personally verify their truth and accuracy, I certify as the official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification, that this is true, accurate, and complete.

Sincerely,



Karen Khonsari
Environmental Services Director



Robert Abbott
Senior Special Parish Attorney

Cc: Honorable Melvin L. "Kip" Holden, Mayor-President
William B. Daniel, IV, Chief Administrative Officer
Dr. Al Amendariz, US EPA REGION 6 Administrator
Mr. Carlos Zequeira, US EPA (6RC-EA)

Ms. Gladys Gooden-Jackson, US EPA (6EN-WC)

Mr. Ted Broyles, LDEQ

Mr. Adam Smith, PE, Chief of Wastewater Engineering & Technology

Mr. Joseph Young, PE, Program Manager, CH2M



CERTIFIED- RETURN RECEIPT REQUESTED

DATE: October 6, 2016

TO: Mr. Michael T. Donnellan
U.S. Department of Justice
P.O. Box 7611
Washington, D.C. 20044-7611

Ms. Mona Bates (6EN-WM)
U.S. Environmental Protection Agency, Region 6
1445 Ross Avenue, Suite 1200
Dallas, TX 75202-2733

Dr. Chuck Carr Brown
Louisiana Department of Environmental Quality
602 N. Fifth Street
Baton Rouge, LA 70802

FROM: Adam Smith, PE, Interim Environmental Services Director
Department of Environmental Services, City of Baton Rouge and Parish of East Baton Rouge

SUBJECT: City of Baton Rouge and Parish of East Baton Rouge
Consent Decree-Civil Action No. 01-978-B-M3
Update of Force Majeure Event – 2016 August 11 Flood Event

Ladies and Gentlemen:

In conformance with the Force Majeure provision included in Section XXII – Force Majeure of the Consent Decree, this letter will serve as an update to the formal notification by the City of Baton Rouge and Parish of East Baton Rouge (City/Parish) to the Department of Justice (DOJ), Environmental Protection Agency (EPA), and Louisiana Department of Environmental Quality (LDEQ) that a force majeure event has taken place beginning August 11, 2016.

Rain events beginning August 11, 2016 and continuing through August 14, 2016 resulted in excessive flooding in East Baton Rouge Parish, as well as surrounding parishes such as Livingston Parish and Ascension Parish. The river stages of the Amite and Comite Rivers exceeded the 1983 flood event resulting in loss of life and property. Although originally estimated to have been over 40,000 residents in the greater Baton Rouge area directly impacted by this rain event, the estimate has now increased to over 284,000. Many individuals that work in East Baton Rouge Parish, including State and City-Parish employees, construction contractors, and employees of inspection firms have been impacted and had difficulty returning to work. The average rainfall for the area over the four day rain event was 11 inches. Zachary, located in East Baton Rouge Parish, had just over 26 inches of rainfall. This event has been identified as a 1,000 year rain.

On Friday, August 12, 2016 Governor John Bel Edwards declared a state of emergency for the entire state of Louisiana. This was followed on August 14, 2016, by President Obama signing the Louisiana Disaster Declaration, which declared a major disaster for the State of Louisiana. On September 23, 2016, Dr. Chuck Carr Brown, the secretary of the Louisiana Department of Environmental Quality signed a Second Amended Declaration of Emergency and Administrative Order, to expire September 30, 2016. On September 30, 2016, a Third Amended Declaration of Emergency and Administrative Order was signed by Dr. Chuck Carr Brown, extending the order until November 30 2016.

All active construction and design SSO Program projects have been impacted by this event, as staff and contractors were directly impacted by the storm and are working to get back to normal operating status.

The SSO Program will aggressively pursue resumption of construction when it is deemed appropriate to do so and will provide an update upon completion of the Force Majeure event.

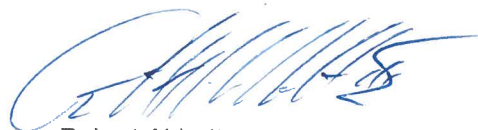
I certify that the information contained in or accompanying this document is true, accurate, and complete. As to portions of this document for which I cannot personally verify their truth and accuracy, I certify as the official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification, that this is true, accurate, and complete.

Sincerely,



Adam Smith, PE

Interim Environmental Services Director



Robert Abbott

Senior Special Parish Attorney

Cc: Honorable Melvin L. "Kip" Holden, Mayor-President
William B. Daniel, IV, Chief Administrative Officer
Dr. Al Amendariz, US EPA REGION 6 Administrator
Mr. Carlos Zequeira, US EPA (6RC-EA)
Ms. Gladys Gooden-Jackson, US EPA (6EN-WC)
Mr. Ted Broyles, LDEQ
Mr. Joseph Young, PE, Program Manager, CH2M



CERTIFIED- RETURN RECEIPT REQUESTED

DATE: December 1, 2016

TO: Mr. Michael T. Donnellan
U.S. Department of Justice
601 D. Street NW
Washington, D.C. 20044-7611

Ms. Mona Bates (6EN)
U.S. Environmental Protection Agency, Region 6
1445 Ross Avenue, Suite 1200
Dallas, TX 75202-2733

Dr. Chuck Carr Brown
Louisiana Department of Environmental Quality
602 N. Fifth Street
Baton Rouge, LA 70802

FROM: Adam Smith, PE, Interim Environmental Services Director
Department of Environmental Services, City of Baton Rouge and Parish of East Baton Rouge

SUBJECT: City of Baton Rouge and Parish of East Baton Rouge
Consent Decree-Civil Action No. 01-978-B-M3
Update of Force Majeure Event – 2016 August 11 Flood Event

Ladies and Gentlemen:

In conformance with the Force Majeure provision included in Section XXII – Force Majeure of the Consent Decree, this letter will serve as an update to the formal notification by the City of Baton Rouge and Parish of East Baton Rouge (City/Parish) to the Department of Justice (DOJ), Environmental Protection Agency (EPA), and Louisiana Department of Environmental Quality (LDEQ) that a force majeure event has taken place beginning August 11, 2016.

Rain events beginning August 11, 2016 and continuing through August 14, 2016 resulted in excessive flooding in East Baton Rouge Parish, as well as surrounding parishes such as Livingston Parish and Ascension Parish. The river stages of the Amite and Comite Rivers exceeded the 1983 flood event resulting in loss of life and property. Although originally estimated to have been over 40,000 residents in the greater Baton Rouge area directly impacted by this rain event, the estimate has now increased to over 284,000. Many individuals that work in East Baton Rouge Parish, including State and City-Parish employees, construction contractors, and employees of inspection firms have been impacted and had difficulty returning to work. The average rainfall for the area over the four day rain event was 11 inches. Zachary, located in East Baton Rouge Parish, had just over 26 inches of rainfall. This event has been identified as a 1,000 year rain.

On Friday, August 12, 2016 Governor John Bel Edwards declared a state of emergency for the entire state of Louisiana. This was followed on August 14, 2016, by President Obama signing the Louisiana Disaster Declaration, which declared a major disaster for the State of Louisiana. On September 23, 2016, Dr. Chuck Carr Brown, the secretary of the Louisiana Department of Environmental Quality signed a Second Amended Declaration of Emergency and Administrative Order, to expire September 30, 2016. On September 30, 2016, a Third Amended Declaration of Emergency and Administrative Order was signed by Dr. Chuck Carr Brown, extending the order until November 30, 2016. On November 30, 2016, a Fourth Amended Declaration of Emergency and Administrative Order was signed by Dr. Chuck Carr Brown, extending the order until December 31, 2016.

All active construction and design SSO Program projects have been impacted by this event, as staff and contractors were directly impacted by the storm and are working to get back to normal operating status.

The SSO Program will aggressively pursue resumption of construction when it is deemed appropriate to do so and will provide an update upon completion of the Force Majeure event.

I certify that the information contained in or accompanying this document is true, accurate, and complete. As to portions of this document for which I cannot personally verify their truth and accuracy, I certify as the official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification, that this is true, accurate, and complete.

Sincerely,



Adam Smith, PE
Interim Environmental Services Director



Robert Abbott
Senior Special Parish Attorney

Cc: Honorable Melvin L. "Kip" Holden, Mayor-President
William B. Daniel, IV, Chief Administrative Officer
Mr. Ron Curry, US EPA REGION 6 Administrator
Mr. Carlos Zequeira, US EPA (6RC)
Ms. Darlene Whitten-Hill US EPA (6EN)
Mr. Ted Broyles, LDEQ
Mr. Joseph Young, PE, Program Manager, CH2M

2016 Annual Report Attachment B-
Municipal Water Pollution Prevention
Environmental Audit Reports 2016



Department of Public Works

City of Baton Rouge
Parish of East Baton Rouge

Post Office Box 1471
Baton Rouge, Louisiana
70821

June 14, 2016

Department of Environmental Quality
Office of Environmental Compliance
Permits Compliance Unit
Post Office Box 4312
Baton Rouge, Louisiana 70821-4312

Re: Municipal Water Pollution Prevention (MWPP) Environmental Audit Reports

LPDES PERMIT NUMBERS:

LA0036439 AI# 4843

LA0036421 AI# 4842

LA0036412 AI# 4841

Dear Sirs:

As required by your office, we are submitting the annual Municipal Water Pollution Prevention Environmental Audit reports along with the MWPP Resolutions. These reports represent our North, Central and South Wastewater Treatment Plants from March 1, 2015 to March 31, 2016.

If you have any questions concerning this matter, please contact Mr. Michael Lowe of my staff at (225) 389-3240.

Sincerely yours,

Karen M. Khonsari
Director of Environmental Services

KMK/AS/pas

xc: Lea Anne Batson, Parish Attorney
Adam Smith, P.E., Chief of Wastewater Engineering & Technology
Michael Lowe, Wastewater Laboratory Supervisor

Attachment(s):

LOUISIANA

MUNICIPAL WATER POLLUTION PREVENTION

MWPP



<i>Facility Name:</i>	City of Baton Rouge / Parish of East Baton Rouge / South Wastewater Treatment Plant
<i>LPDES Permit Number:</i>	LA0036412
<i>Agency Interest (AI) Number:</i>	4841
<i>Address:</i>	2850 Gardere Lane
	Baton Rouge, LA
<i>Parish:</i>	East Baton Rouge
<i>(Person Completing Form) Name:</i>	Cynthia Thomas
<i>Title:</i>	Asst. Wastewater Laboratory Supervisor
<i>Date Completed:</i>	June 10, 2016

INSTRUCTIONS

1. Complete only the sections of the Environmental Audit which apply to your wastewater treatment system. Leave sections that do not apply blank and enter a "0" for the point value.
2. Parts 1 through 7 contain questions for which points may be generated. These points are intended to communicate to the department and the governing body or owner what actions will be necessary to prevent effluent violations. Place the point totals from parts 1 through 7 on the Point Calculation page.
3. Add up the point totals.
4. Submit the Environmental Audit to the governing body or owner for review and approval.
5. The governing body must pass a resolution which contains the following items:
 - a. The resolution or letter must acknowledge the governing body or owner has reviewed the Environmental Audit.
 - b. This resolution must indicate specific actions, if any, will be taken to maintain compliance and prevent effluent violations. Proposed actions should address the parts where maximum or close to maximum points were generated in the Environmental Audit.
 - c. The resolution should provide any other information the governing body deems appropriate.

Permit #:

LA0036412

PART I: INFLUENT FLOW/LOADINGS (all plants)

A. List the average monthly volumetric flows and BOD loadings received at your facility during the last reporting year.

Column 1 Average Monthly Flow (million gallons per day, MGD)		Column 2 Average Monthly BOD5 Concentration (mg/l)		Column 3 Average Monthly BOD5 Loading (pounds per day, lb/day)
37.52	x	144	x 8.34 =	45,060
14.79	x	199	x 8.34 =	24,546
38.21	x	137	x 8.34 =	43,658
15.37	x	164	x 8.34 =	21,022
35.40	x	131	x 8.34 =	38,676
32.03	x	168	x 8.34 =	44,878
31.82	x	153	x 8.34 =	40,603
34.17	x	138	x 8.34 =	39,327
42.84	x	139	x 8.34 =	49,663
44.06	x	132	x 8.34 =	48,505
48.63	x	110	x 8.34 =	44,613
43.98	x	140	x 8.34 =	51,351

BOD loading = Average Monthly Flow (in MGD) x Average Monthly BOD concentration (in mg/l) x 8.34

B. List the design flow and design BOD loading for your facility in the blanks below. If you are not aware of these design quantities, refer to your Operation and Maintenance (O&M) Manual or contact your consulting engineer.

Design Flow, MGD:

54

x 0.90 =

48.60

Design BOD, lb/day:

93,224

x 0.90 =

83,902

Permit #:

LA0036412

- C. How many months did the monthly flow (Column 1) to the wastewater treatment facility (WWTF) exceed 90% of design flow? Circle the number of months and the corresponding point total. Write the point total in the box below at the right.

months	0	1	2	3	4	5	6	7	8	9	10	11	12
points	0	0	0	0	0	5	5	5	5	5	5	5	5

Write 0 or 5 in the C point total box C Point Total

- D. How many months did the monthly flow (Column 1) to the WWTF exceed the design flow? Circle the number of months and corresponding point total. Write the point total in the box below at the right.

months	0	1	2	3	4	5	6	7	8	9	10	11	12
points	0	5	5	10	10	15	15	15	15	15	15	15	15

Write 0, 5, 10 or 15 in the D point total box D Point Total

- E. How many months did the monthly BOD loading (Column 3) to the WWTF exceed 90% of the design loading? Circle the number of months and corresponding point total. Write the point total in the box below at the right.

months	0	1	2	3	4	5	6	7	8	9	10	11	12
points	0	0	5	5	5	10	10	10	10	10	10	10	10

Write 0, 5, or 10 in the E point total box E Point Total

- F. How many months did the monthly BOD loading (Column 3) to the WWTF exceed the design loading? Circle the number of months and corresponding point total. Write the point total in the box below at the right.

months	0	1	2	3	4	5	6	7	8	9	10	11	12
points	0	10	20	30	40	50	50	50	50	50	50	50	50

Write 0, 10, 20, 30, 40 or 50 in the F point total box F Point Total

- G. Add together each point total for C through F and place this sum in the box below at the right.

TOTAL POINT VALUE FOR PART 1: (max = 80)

Also enter this value or 80, whichever is less, on the point calculation table on page 16.

Permit #:

LA0036412

PART 2: EFFLUENT QUALITY / PLANT PERFORMANCE

A. List the monthly average effluent BOD and TSS concentrations produced by your facility during the last reporting year.

Month	Column 1 Average Monthly BOD (mg/l)	Column 2 Average Monthly TSS (mg/l)
MARCH	12	14
APRIL	23	22
MAY	14	15
JUNE	9	24
JULY	7	17
AUGUST	6	14
SEPTEMBER	5	9
OCTOBER	7	19
NOVEMBER	19	24
DECEMBER	19	21
JANUARY	28	37
FEBRUARY	31	38

B. List the monthly average permit limits for your facility in the blanks below.

	Permit Limit		90% of Permit Limit
<i>BOD, mg/l</i>	30	x 0.90 =	27
<i>TSS, mg/l</i>	30	x 0.90 =	27

Permit #:

LA0036412

C. Continuous Discharge to Surface Water.

- i.** How many months did the effluent BOD (Column 1) exceed 90% of the permit limits? Circle the number of months and the corresponding point total. Write the point total in the box below at the right.

<i>months</i>	0	1	2	3	4	5	6	7	8	9	10	11	12
<i>points</i>	0	0	10	20	30	40	40	40	40	40	40	40	40

Write 0, 10, 20, 30 or 40 in the i point total box i Point Total

- ii.** How many months did the effluent BOD (Column 1) exceed permit limits? Circle the number of months and corresponding point total. Write the point total in the box below at the right.

<i>months</i>	0	1	2	3	4	5	6	7	8	9	10	11	12
<i>points</i>	0	5	5	10	10	10	10	10	10	10	10	10	10

Write 0, 5, or 10 in the ii point total box ii Point Total

- iii.** How many months did the effluent TSS (Column 2) exceed 90% of the permit limits? Circle the number of months and the corresponding point total. Write the point total in the box below at the right.

<i>months</i>	0	1	2	3	4	5	6	7	8	9	10	11	12
<i>points</i>	0	0	10	20	30	40	40	40	40	40	40	40	40

Write 0, 10, 20, 30 or 40 in the iii point total box iii Point Total

- iv.** How many months did the effluent TSS (Column 2) exceed permit limits? Circle the number of months and corresponding point total. Write the point total in the box below at the right.

<i>months</i>	0	1	2	3	4	5	6	7	8	9	10	11	12
<i>points</i>	0	5	5	10	10	10	10	10	10	10	10	10	10

Write 0, 5, or 10 in the iv point total box iv Point Total

- v.** Add together each point total for i through iv and place this sum in the box below at the right.

TOTAL POINT VALUE FOR PART 2: (max = 100)

Also enter this value or 100, whichever is less, on the point calculation table on page 16.

Permit #:

LA0036412

D. Other Monitoring and Limitations

- i. At any time in the past year was there an exceedance of a permit limit for other pollutants such as: ammonia-nitrogen, phosphorus, pH, total residual chlorine, or fecal coliform?

√ Check one box.



Yes



No

If Yes, Please describe:

Fecal Coliform

August 2015 = 205 col./100mL

- ii. At any time in the past year was there a "failure" of a Biomonitoring (Whole Effluent Toxicity) test of the effluent?

√ Check one box.



Yes



No

If Yes, Please describe:

- iii. At any time in the past year was there an exceedance of a permit limit for a toxic substance?

√ Check one box.



Yes



No

If Yes, Please describe:

See Attached

D. Other Monitoring and Limitations

iii.

South Treatment Plant - LA0036412 (*Influent*)*

Sample Date	Pollutant	Reporting Value	Actual Value
June 9, 2015	Total Phenols	0.005 mg/L	0.051 mg/L
	Zinc	20 µg/L	87 µg/L

South Treatment Plant - LA0036412 (*Effluent*)*

Sample Date	Pollutant	Reporting Value	Actual Value
June 18, 2015	Total Phenols	0.0050 µg/L	0.012 µg/L
	Mercury	0.50 ng/L	7.8 ng/L
	Selenium	5.0 µg/L	21 µg/L

*1/6 months

South Treatment Plant - LA0036412 (*Influent*)*

Sample Date	Pollutant	Reporting Value	Actual Value
December 1, 2015	Total Phenols	0.005 mg/L	0.02 mg/L
	Zinc	20 µg/L	39 µg/L

South Treatment Plant - LA0036421 (*Effluent*)*

Sample Date	Pollutant	Reporting Value	Actual Value
December 2, 2015	Total Phenols	0.005 mg/L	0.021 mg/L
	Mercury	0.50 µg/L	13.5 µg/L
	Zinc	20 µg/L	28 µg/L

*1/6 months

Permit #:

LA0036412

PART 3. AGE OF THE WASTEWATER TREATMENT FACILITY

A. What year was the wastewater treatment facility constructed or last major expansion/improvements completed?

$$\begin{array}{rcccl}
 & & & \underline{1998} & \\
 & & & \hline
 \text{Current Year} & - & \text{Answer to A} & = & \text{Age in years} \\
 \hline
 2016 & & 1998 & & 18 \\
 \hline
 \end{array}$$

Enter Age in Part C below.

B. Check the type of treatment facility that is employed.

		FACTOR:
<input checked="" type="checkbox"/>	Mechanical Treatment Plant (trickling filter) activated sludge, etc... Specify Type: _____	(2.5)
_____	Aerated Lagoon	2.0
_____	Stabilization Pond	1.5
_____	Other Specify Type: _____	1.0

C. Multiply the factor listed next to the type of facility your community employs by the age of your facility to determine the total point value for Part 3.

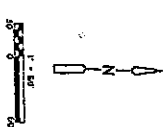
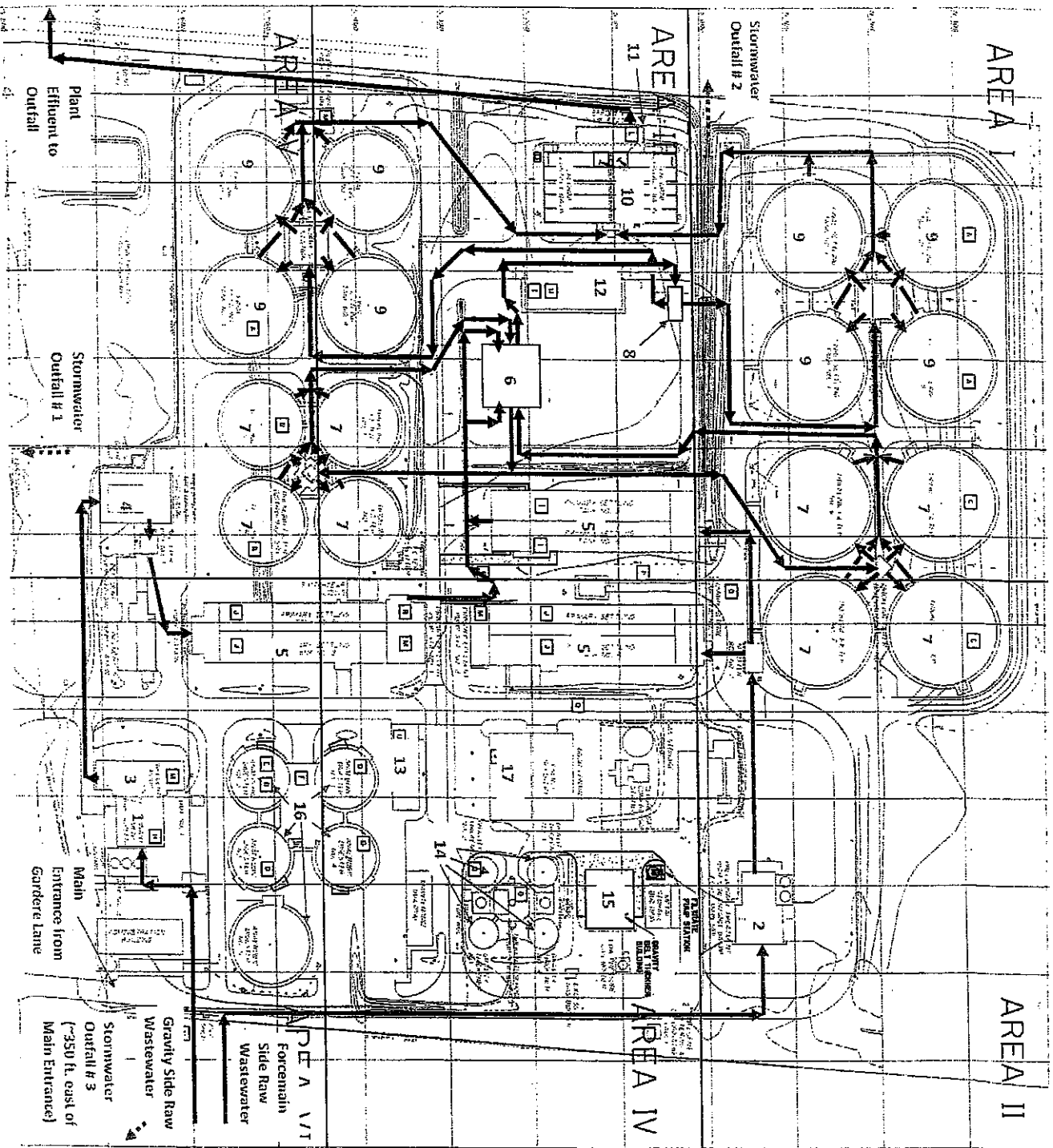
TOTAL POINT VALUE FOR PART 3 =

$$\frac{2.5}{\text{Factor}} \times \frac{18}{\text{Age}} = \boxed{45} \text{ (max = 50)}$$

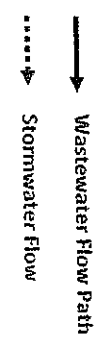
Also enter this value or 50, whichever is less, on the point calculation table on page 16.

D. Please attach a schematic of the treatment plant.

See attachment



- 1 - Gravity Side Influent Screening
- 2 - Forcemain Side Preliminary Treatment
- 3 - Gravity Influent PS
- 4 - Gravity Side Grit Basins
- 5 - Primary Settling Tanks
- 6 - Trickling Filter PS (New)
- 7 - Trickling Filters
- 8 - Flow Splitting Structure (New)
- 9 - Final Settling Tanks
- 10 - Chlorine Contact Basins
- 11 - Effluent PS
- 12 - Chlorine Building
- 13 - Sulfur Dioxide Building
- 14 - Gravity Thickeners
- 15 - Gravity Belt Thickeners
- 16 - Anaerobic Digesters
- 17 - Sludge Dewatering Building



**Baton Rouge South WWTP
Site Diagram**

Permit #:

LA0036412

PART 5: SEWAGE SLUDGE STORAGE, USE, AND DISPOSAL

A. Sewage Sludge Storage

How many months of sewage sludge storage capacity does your facility have available, either on-site or off-site?

Circle the number of months and the corresponding point total. Write the point total in the box below at the right.

<i>months</i>	<2	2	3	4-5	6
<i>points</i>	50	30	20	10	0

Write 0, 10, 20, 30 or 50 in the A point total box A Point Total

B. For how many months does your facility have approval to use or dispose of sewage sludge at a properly permitted landfill, land application site, or sewage sludge incinerator?

Circle the number of months and the corresponding point total. Write the point total in the box below at the right.

<i>months</i>	<6	6-11	12-23	24-35	>36
<i>points</i>	50	30	20	10	0

Write 0, 10, 20, 30 or 50 in the B point total box B Point Total

C. Add together the A and B point values and place the sum in the box below at the right:

TOTAL POINT VALUE FOR PART 5: (max = 100)

Also enter this value or 100, whichever is less, on the point calculation table on page 16.

Permit #:

LA0036412

PART 6: NEW DEVELOPMENT

- A. Please provide the following information for the total of all sewer line extensions which were installed during the last year.

Design Population: 920 cap
Design Flow: 0.47 MGD
Design BOD: 200 mg/l

- B. Has an industry (or other development) moved into the community or expanded production in the past year, such that either flow or pollutant loadings to the sewerage system were significantly increased (5% or greater)?

√ Check one box. Yes = 15 points No = 0 points

If Yes, Please describe:

List any new pollutants:

- C. Is there any development (industrial, commercial or residential) anticipated in the next 2-3 years, such that either flow or pollutant loadings to the sewerage system could significantly increase?

√ Check one box. Yes = 15 points No = 0 points

If Yes, Please describe:

List any new pollutants you anticipate:

- D. Add together the point value checked in B and C and place the sum in the box below.

TOTAL POINT VALUE FOR PART 6: (max = 30)

Also enter this value or 30, whichever is less, on the point calculation table on page 16.

(2015) Project Name						
	# of Lots	Design Pop.	Flow (gpm)	Flow (MGD)	Sewer Length (ft)	
Etage Gardens	8	32	2,222	0.00	340	
Pump Sta & Force Main Improvements (Walmart Burbank)	1	0	150,000	0.22	125	
Rose Park	9		111,000	0.16	668	
Magnolia Lakes 1st Filing	50	200	13,889	0.02	0	
Rouzan Phase 3B & 3C	47	188	13,056	0.02	1,725	
Myrtle Grove Townhomes	24	96	6,667	0.01	736	
Hidden Grove	52	208	14,444	0.02	1,972	
The Settlement at Willow Grove Ph2, 5th Filing Pt 2	20	80	5,556	0.01	123	
The Settlement at Willow Grove Ph2, 6th Filing Pt 1	29	116	8,056	0.01	1,077	
TOTAL		920	325	0.47	6,766	

Pipe length includes FM and gravity

Private sewer

Permit #:

LA0036412

PART 7: OPERATOR CERTIFICATION AND EDUCATION

A. What was the name of the operator-in-charge for the reporting year?

Name: Walter Brock

B. What is his or her certification number:

Cert. #: 00638

C. What level of certification is the operator-in-charge required to have to operate the wastewater treatment facility?

Level Required: Wastewater Treatment IV

D. What is the level of certification of the operator-in-charge?

Level Certified: Wastewater Treatment IV

E. Was the operator-in-charge of the report year certified at least at the grade level required in order to operate this plant?

√ Check one box. Yes = 0 points No = 50 points

Write 0 or 50 in the E point total box E Point Total

F. Has the operator-in-charge maintained recertification requirements during the reporting year?

√ Check one box. Yes No

G. How many hours of continuing education has the operator-in-charge completed over the last two calendar years?

√ Check one box. > 12 hours = 0 points < 12 hours = 50 points

Write 0 or 50 in the G point total box G Point Total

H. Is there a written policy regarding continuing education an training for wastewater treatment plant employees?

√ Check one box. Yes No

Explain: 16 hours of continuing education within a two year period.

I. What percentage of the continuing education expenses of the operator-in-charge were paid for:

By the permittee? 100% By the operator? 0%

J. Add together the E and G point values and place the sum in the box below at the right.

TOTAL POINT VALUE FOR PART 7: (max = 100)

Also enter this value or 100, whichever is less, on the point calculation table on page 16.

Permit #:

LA0036412

PART 8: FINANCIAL STATUS

A. Are User-Charge Revenues sufficient to cover operation and maintenance expenses?

√ Check one box. Yes No *If No, How are O&M costs financed?*

No, sewer user fee revenues alone are not sufficient to cover O&M expenses. The City-Parish has two sources of revenue for sewer, the sewer user fee, and a one-half of one percent sales and use tax dedicated to sewer. 65% of the revenue base is from the sewer user fee and 35% from the sewer sales tax.

B. What financial resources do you have available to pay for your wastewater improvements and reconstruction needs?

See A above. The City-Parish has financed it's sewer construction needs through the issuance of sewer revenue bonds and any funding that remains after O&M and debt services requirements are met.

PART 9 SUBJECTIVE EVALUATION

A. Collection System Maintenance

i. Describe what sewer system maintenance work has been done in the last year.

See attached

ii. Describe what lift station work has been done in the last year.

See attached

iii. What collection system improvements does the community have under construction for the next 5 years?

See attached

B. If you have ponds please answer the following questions:

√ Check one box.

- | | | | | |
|---|--------------------------|-----|--------------------------|----|
| i. <i>Do you have duckweed buildup in the ponds?</i> | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| ii. <i>Do you mow the dikes regularly (at least monthly), to the waters edge?</i> | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| iii. <i>Do you have bushes or trees growing on the dikes or in the ponds?</i> | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| iv. <i>Do you have excess sludge buildup (> 1foot) on the bottom of any of your ponds?</i> | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| v. <i>Do you exercise all of your valves?</i> | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| vi. <i>Are your control manholes in good structural shape?</i> | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| vii. <i>Do you maintain at least 3 feet of freeboard in all of your ponds?</i> | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| viii. <i>Do you visit your pond system at least weekly?</i> | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |

LA0036412 SOUTH WASTEWATER PLANT

LA MWPP Environmental Audit

Part 9: Subjective Evaluation

- A1.** As part of the Consent Decree, Operation and Maintenance of the South Treatment Plant Collection Area is performed and reported on a quarterly basis. The following table is a breakdown/summary of activities performed within the South Treatment Plant Collection System Area during the reporting period.

South Treatment Area
Monitoring Period (2015 – 2nd qtr. thru 2016 – 1st qtr.)

Line Cleaned	186,624
CCTV Inspected	188,395
Smoke Tested	395,332
Dye Tested	0
Manhole Inspected	1,608
Line Repaired	844
Manhole Rehabilitated	106
Force Main – Inspected	71
Repaired	44
Air Release Valves-Inspected	355
Repaired	187
Wet Wells Cleaned	176
Pump Stations-Repaired	71

- A2.** As shown above, an extensive routine pump station maintenance program is in place. Additionally, the attached Capital Improvement Plan outlines the construction projects that have been completed.
- A3.** The attached Capital Improvement Plan outlines the construction projects that are currently in the planning phase, or currently under design, including estimated completion dates.

SWWTP WWTP 2015 - 2016 Annual Audit

	2nd Qtr 2015	3rd Qtr 2015	4th Qtr 2015	1st Qtr 2016	La MWPP Audit Totals
Lines Cleaned (ft)	14,024.00	13,494.00	2,222.00	156,884.00	186,624.00
CCTV Inspected (ft)	13,743.00	13,742.00	2,222.00	158,688.00	188,395.00
Smoke Tested (ft)	11,839.00	23,043.00	216,953.00	143,497.00	395,332.00
Dye Tested (no. of locations)	-	-	-	-	-
Manholes Inspected (no)	41.00	73.00	1,012.00	482.00	1,608.00
Lines Repaired(no)	216.00	223.00	185.00	220.00	844.00
Manholes Rehabilitated (no.)	52.00	23.00	12.00	19.00	106.00
Force Main -Inspected	28.60	8.60	30.40	3.40	71.00
Force Main -Repaired	-	37.00	-	7.00	44.00
ARV Inspected/Maintained	143.00	43.00	152.00	17.00	355.00
ARV Repaired (no.)	82.00	16.00	74.00	15.00	187.00
Wet Wells Cleaned	-	-	63.00	113.00	176.00
Pump Station Repaired (no.)	17.00	16.00	21.00	17.00	71.00

Permit #:

LA0036412

C. Treatment Plants

i. Have the influent and effluent flow meters been calibrated in the last year?

Yes No (✓ Check one box.)

* See Below

Influent flow meter calibration date(s)

* See Below

Effluent flow meter calibration date(s)

ii. What problems, if any, have been experienced over the last year that have threatened treatment?

The South Treatment Facility completed construction and went through a period of troubleshooting new equipment. The sludge hauling services were contracted out due to a lack of reliability from City employed haulers, which resulted in a back log of solids.

iii. Is your community presently involved in formal planning for treatment facility upgrade?

✓ Check one box. Yes No *If Yes, Please describe:*

* Gravity Influent

8-10-2015

2-11-2016

* Forcemain Effluent

8-10-2015

2-11-2015

* Final Effluent

8-7-2015

2-11-2016

Permit #:

LA0036412

D. Preventive Maintenance

- i. Does your plant have a written plan for preventive maintenance on major equipment items?

√ Check one box.

Yes

No

If Yes, Please describe:

Weekly, monthly and semi-annually preventive maintenance sheets that reflect type and frequency as specified in the O&M manuals. A new computer program will manage the preventive maintenance of plant equipment and spare parts.

- ii. Does this preventive maintenance program depict frequency of intervals, types of lubrication and other preventive maintenance tasks necessary for each piece of equipment?

Yes

No

- iii. Are these preventive maintenance tasks, as well as equipment problems, being recorded and filed so future maintenance problems can be assured properly?

Yes

No

E. Sewer Use Ordinance

- i. Does your community have a sewer use ordinance that limits or prohibits the discharge of excessive conventional pollutants (BOD, TSS or pH) or toxic substances to the sewer system from industries, commercial users and residences?

√ Check one box.

Yes

No

If Yes, Please describe:

Sewer User Fee Ordinance (No. 7853) limits the discharge of BOD & TSS to 200 mg/l and 250 mg/l respectively. Any discharge above these limits is surcharged at a rate of 2% of the monthly sewer user fee for each limit of 10 mg/l. Pretreatment Ordinance (No. 9195) limits the discharge of heavy metals, chemical and toxic substances.

- ii. Has it been necessary to enforce?

√ Check one box.

Yes

No

If Yes, Please describe:

The Sewer User Fee Ordinance is strictly enforced by the City Parish and self monitoring sampling. The same apply to the Pretreatment Ordinance. Enforcement mechanisms include discharge permits, surcharges, letter of violations, administrative orders, water termination, and fines.

- iii. Any additional comments about your treatment plant or collection system? (Attach additional sheets if necessary.)

NO

Permit #:

LA0036412

POINT CALCULATION TABLE

	Actual Values	Maximum
Part 1: <i>Influent Flow/Loadings</i>	0	80 points
Part 2: <i>Effluent Quality / Plant Performance</i>	30	100 points
Part 3: <i>Age of WWTF</i>	45	50 points
Part 4: <i>Overflows and Bypasses</i>	100	100 points
Part 5: <i>Ultimate Disposition of Sludge</i>	0	100 points
Part 6: <i>New Development</i>	0	30 points
Part 7: <i>Operator Certification Training</i>	0	100 points

TOTAL POINTS:

175

ATTACHMENT 3

SAMPLE MWPP RESOLUTION

Resolved that the village/town/city of Baton Rouge informs the Louisiana Department of Environmental Quality that the following actions were taken by City Parish (governing body).

1. Resolved the Municipal Water Pollution Prevention Environmental Audit Report which is attached to this resolution.
2. Set forth the following actions necessary to maintain permit requirements contained in the Louisiana Pollution Discharge Elimination System (LPDES) permit, number LA0036412 AI # 4841.

(Please be specific in listing the actions that will be taken to address the problems identified in the audit report.)

- a. Currently, we are operating under a consent decree which became effective March 14, 2002.
- b.
- c.
- d.
- etc..

Passed by a majority (unanimous) (circle one) vote of the Metropolitan Council on July 27, 2016 (date).



CLERK

ADOPTED
EAST BATON ROUGE SEWAGE
COMMISSION

JUL 27 2016

567 16 162

ADOPTED
METROPOLITAN COUNCIL

JUL 27 2016

Casmy Cash RESOLUTION 52293
COUNCIL ADMINISTRATOR TREASURER
Casmy Cash EBROSCO RESOLUTION 8215
COUNCIL ADMINISTRATOR TREASURER

AUTHORIZING THE MAYOR-PRESIDENT AND/OR EBROSCO TO APPROVE THE SUBMITTAL OF THE LOUISIANA MUNICIPAL WATER POLLUTION PREVENTION (MWPP) ENVIRONMENTAL AUDIT FOR THE SOUTH TREATMENT PLANT (LA0036412 AI#4841) TO THE LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY (LDEQ) FOR THE MONITORING PERIOD OF MARCH 1, 2015 THROUGH FEBRUARY 29, 2016.

BE IT RESOLVED by the Metropolitan Council of the Parish of East Baton Rouge and City of Baton Rouge and by the Board of Commissioners of the East Baton Rouge Sewerage Commission (EBROSCO), acting as the Authority for EBROSCO, that:

Section 1. The Mayor-President, on behalf of the City of Baton Rouge and Parish of East Baton Rouge, and/or the East Baton Rouge Sewerage Commission, represented by President of said Commission, are hereby authorized to approve the submittal of the Louisiana Municipal Water Pollution Prevention (MWPP) Environmental Audit for the South Treatment Plant (LA0036412 AI#4841) to the Louisiana Department of Environmental Quality (LDEQ) for the monitoring period of March 1, 2015 through February 29, 2016.

Section 2. Said agreement shall be approved by the Office of the Parish Attorney as to form and legality.

LOUISIANA

MUNICIPAL WATER POLLUTION PREVENTION

MWPP



Facility Name:	City of Baton Rouge / Parish of East Baton Rouge / Central Wastewater Treatment Plant
LPDES Permit Number:	LA0036421
Agency Interest (AI) Number:	4842
Address:	2443 River Road
	Baton Rouge, LA
Parish:	East Baton Rouge
(Person Completing Form) Name:	Cynthia Thomas
Title:	Asst. Wastewater Laboratory Supervisor
Date Completed:	June 10, 2016

INSTRUCTIONS

1. Complete only the sections of the Environmental Audit which apply to your wastewater treatment system. Leave sections that do not apply blank and enter a "0" for the point value.
2. Parts 1 through 7 contain questions for which points may be generated. These points are intended to communicate to the department and the governing body or owner what actions will be necessary to prevent effluent violations. Place the point totals from parts 1 through 7 on the Point Calculation page.
3. Add up the point totals.
4. Submit the Environmental Audit to the governing body or owner for review and approval.
5. The governing body must pass a resolution which contains the following items:
 - a. The resolution or letter must acknowledge the governing body or owner has reviewed the Environmental Audit.
 - b. This resolution must indicate specific actions, if any, will be taken to maintain compliance and prevent effluent violations. Proposed actions should address the parts where maximum or close to maximum points were generated in the Environmental Audit.
 - c. The resolution should provide any other information the governing body deems appropriate.

Permit #:

LA0036421

PART I: INFLUENT FLOW/LOADINGS (all plants)

A. List the average monthly volumetric flows and BOD loadings received at your facility during the last reporting year.

Column 1 Average Monthly Flow (million gallons per day, MGD)		Column 2 Average Monthly BOD5 Concentration (mg/l)		Column 3 Average Monthly BOD5 Loading (pounds per day, lb/day)
14.05	x	156	x 8.34 =	18,280
14.79	x	199	x 8.34 =	24,546
12.31	x	134	x 8.34 =	13,757
15.37	x	164	x 8.34 =	21,022
12.10	x	154	x 8.34 =	15,541
11.19	x	177	x 8.34 =	16,518
10.33	x	217	x 8.34 =	18,695
12.86	x	227	x 8.34 =	24,346
12.30	x	252	x 8.34 =	25,851
11.03	x	167	x 8.34 =	15,362
12.47	x	141	x 8.34 =	14,664
11.47	x	132	x 8.34 =	12,627

BOD loading = Average Monthly Flow (in MGD) x Average Monthly BOD concentration (in mg/l) x 8.34

B. List the design flow and design BOD loading for your facility in the blanks below. If you are not aware of these design quantities, refer to your Operation and Maintenance (O&M) Manual or contact your consulting engineer.

Design Flow, MGD:

32

x 0.90 =

28.80

Design BOD, lb/day:

55,244

x 0.90 =

49,720

Permit #:

LA0036421

C. How many months did the monthly flow (Column 1) to the wastewater treatment facility (WWTF) exceed 90% of design flow? Circle the number of months and the corresponding point total. Write the point total in the box below at the right.

months	<input type="radio"/> 0	1	2	3	4	5	6	7	8	9	10	11	12
points	<input type="radio"/> 0	0	0	0	0	5	5	5	5	5	5	5	5

Write 0 or 5 in the C point total box C Point Total

D. How many months did the monthly flow (Column 1) to the WWTF exceed the design flow? Circle the number of months and corresponding point total. Write the point total in the box below at the right.

months	<input type="radio"/> 0	1	2	3	4	5	6	7	8	9	10	11	12
points	<input type="radio"/> 0	5	5	10	10	15	15	15	15	15	15	15	15

Write 0, 5, 10 or 15 in the D point total box D Point Total

E. How many months did the monthly BOD loading (Column 3) to the WWTF exceed 90% of the design loading? Circle the number of months and corresponding point total. Write the point total in the box below at the right.

months	<input type="radio"/> 0	1	2	3	4	5	6	7	8	9	10	11	12
points	<input type="radio"/> 0	0	5	5	5	10	10	10	10	10	10	10	10

Write 0, 5, or 10 in the E point total box E Point Total

F. How many months did the monthly BOD loading (Column 3) to the WWTF exceed the design loading? Circle the number of months and corresponding point total. Write the point total in the box below at the right.

months	<input type="radio"/> 0	1	2	3	4	5	6	7	8	9	10	11	12
points	<input type="radio"/> 0	10	20	30	40	50	50	50	50	50	50	50	50

Write 0, 10, 20, 30, 40 or 50 in the F point total box F Point Total

G. Add together each point total for C through F and place this sum in the box below at the right.

TOTAL POINT VALUE FOR PART 1: (max = 80)

Also enter this value or 80, whichever is less, on the point calculation table on page 16.

Permit #:

LA0036421

PART 2: EFFLUENT QUALITY / PLANT PERFORMANCE

A. List the monthly average effluent BOD and TSS concentrations produced by your facility during the last reporting year.

Month	Column 1 Average Monthly BOD (mg/l)	Column 2 Average Monthly TSS (mg/l)
MARCH	33	23
APRIL	23	22
MAY	23	21
JUNE	18	20
JULY	15	16
AUGUST	15	15
SEPTEMBER	19	13
OCTOBER	29	20
NOVEMBER	19	24
DECEMBER	23	17
JANUARY	19	14
FEBRUARY	15	15

B. List the monthly average permit limits for your facility in the blanks below.

	Permit Limit		90% of Permit Limit
<i>BOD, mg/l</i>	30	x 0.90 =	27
<i>TSS, mg/l</i>	30	x 0.90 =	27

Permit #:

LA0036421

C. Continuous Discharge to Surface Water.

i. How many months did the effluent BOD (Column 1) exceed 90% of the permit limits? Circle the number of months and the corresponding point total. Write the point total in the box below at the right.

<i>months</i>	0	1	2	3	4	5	6	7	8	9	10	11	12
<i>points</i>	0	0	10	20	30	40	40	40	40	40	40	40	40

Write 0, 10, 20, 30 or 40 in the i point total box 10 i Point Total

ii. How many months did the effluent BOD (Column 1) exceed permit limits? Circle the number of months and corresponding point total. Write the point total in the box below at the right.

<i>months</i>	0	1	2	3	4	5	6	7	8	9	10	11	12
<i>points</i>	0	5	5	10	10	10	10	10	10	10	10	10	10

Write 0, 5, or 10 in the ii point total box 5 ii Point Total

iii. How many months did the effluent TSS (Column 2) exceed 90% of the permit limits? Circle the number of months and the corresponding point total. Write the point total in the box below at the right.

<i>months</i>	0	1	2	3	4	5	6	7	8	9	10	11	12
<i>points</i>	0	0	10	20	30	40	40	40	40	40	40	40	40

Write 0, 10, 20, 30 or 40 in the iii point total box 0 iii Point Total

iv. How many months did the effluent TSS (Column 2) exceed permit limits? Circle the number of months and corresponding point total. Write the point total in the box below at the right.

<i>months</i>	0	1	2	3	4	5	6	7	8	9	10	11	12
<i>points</i>	0	5	5	10	10	10	10	10	10	10	10	10	10

Write 0, 5, or 10 in the iv point total box 0 iv Point Total

v. Add together each point total for i through iv and place this sum in the box below at the right.

TOTAL POINT VALUE FOR PART 2: 15 (max = 100)

Also enter this value or 100, whichever is less, on the point calculation table on page 16.

Permit #:

LA0036421

D. Other Monitoring and Limitations

- i. At any time in the past year was there an exceedance of a permit limit for other pollutants such as: ammonia-nitrogen, phosphorus, pH, total residual chlorine, or fecal coliform?

√ Check one box.

Yes

No

If Yes, Please describe:

- ii. At any time in the past year was there a "failure" of a Biomonitoring (Whole Effluent Toxicity) test of the effluent?

√ Check one box.

Yes

No

If Yes, Please describe:

- iii. At any time in the past year was there an exceedance of a permit limit for a toxic substance?

√ Check one box.

Yes

No

If Yes, Please describe:

See Attached

D. Other Monitoring and Limitations

iii.

Central Treatment Plant - LA0036421 (*Influent*)*

Sample Date	Pollutant	Reporting Value	Actual Value
June 9, 2015	Total Phenols	0.005 mg/L	0.0073 mg/L
	Zinc	20 µg/L	98 µg/L

Central Treatment Plant - LA0036421 (*Effluent*)

Sample Date	Pollutant	Reporting Value	Actual Value
June 18, 2015	Dieldrin	0.0050 µg/L	0.012 µg/L
	Mercury	0.50 ng/L	12.7 ng/L
	Zinc	20 µg/L	21 µg/L

*1/6 months

Central Treatment Plant - LA0036421 (*Influent*)*

Sample Date	Pollutant	Reporting Value	Actual Value
December 1, 2015	Total Phenols	0.005 mg/L	0.0085 mg/L
	Lead	5.0 µg/L	16 µg/L
	Zinc	20 µg/L	140 µg/L

Central Treatment Plant - LA0036421 (*Effluent*)*

Sample Date	Pollutant	Reporting Value	Actual Value
December 2, 2015	Dieldrin	0.0050 µg/L	0.092 µg/L
	Mercury	0.50 ng/L	9.4 ng/L

*1/6 months

Permit #:

LA0036421

PART 3. AGE OF THE WASTEWATER TREATMENT FACILITY

- A. What year was the wastewater treatment facility constructed or last major expansion/improvements completed?

$$\begin{array}{rcccl}
 & & 1998 & & \\
 & & \hline
 \text{Current Year} & - & \text{Answer to A} & = & \text{Age in years} \\
 2016 & & 1998 & & 18 \\
 \hline & & & & \hline
 \end{array}$$

Enter Age in Part C below.

- B. Check the type of treatment facility that is employed.

	FACTOR:
<input checked="" type="checkbox"/> Mechanical Treatment Plant (trickling filter, activated sludge, etc...) Specify Type: _____	(2.5)
_____ Aerated Lagoon	2.0
_____ Stabilization Pond	1.5
_____ Other Specify Type: _____	1.0

- C. Multiply the factor listed next to the type of facility your community employs by the age of your facility to determine the total point value for Part 3.

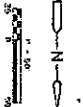
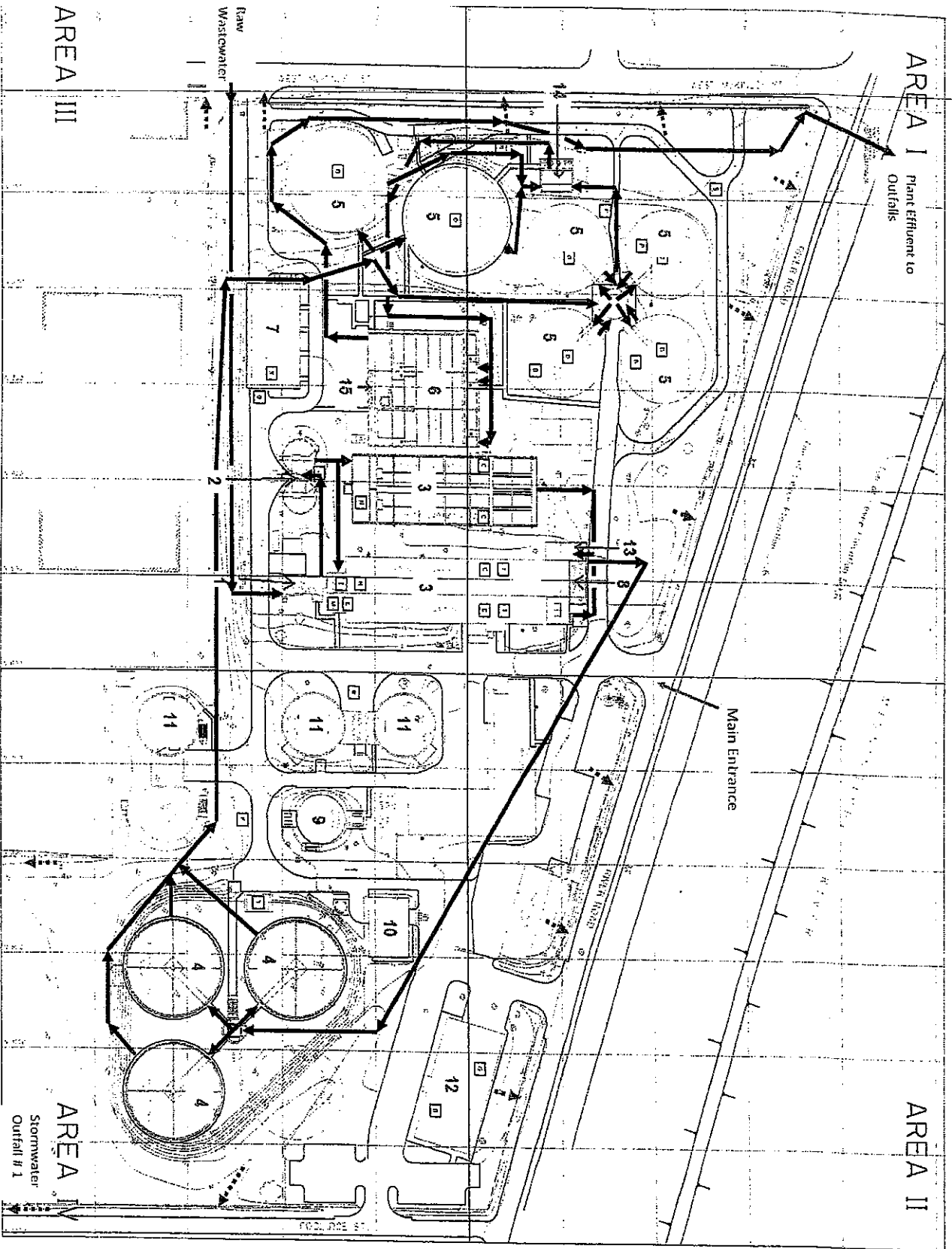
TOTAL POINT VALUE FOR PART 3 =

$$\frac{2.5}{\text{Factor}} \times \frac{18}{\text{Age}} = \boxed{45} \text{ (max = 50)}$$

Also enter this value or 50, whichever is less, on the point calculation table on page 16.

- D. Please attach a schematic of the treatment plant.

* See Attachment



- 1 - Bar Screens
- 2 - Grit Chambers
- 3 - Primary Clarifiers
- 4 - Trickling Filters
- 5 - Final Clarifiers
- 6 - Chlorine Contact Basin
- 7 - Chlorine Building
- 8 - Sulfur Dioxide Building
- 9 - Sludge Holding tank
- 10 - Gravity Belt Thickener
- 11 - Digesters
- 12 - Sludge Dewatering
- 13 - Trickling Filter PS
- 14 - Intermediate PS
- 15 - Effluent Pumps

Wastewater Flow Path
 Stormwater Flow

**Central WWTP
Site Diagram**

Permit #:

LA0036421

PART 5: SEWAGE SLUDGE STORAGE, USE, AND DISPOSAL

A. Sewage Sludge Storage

How many months of sewage sludge storage capacity does your facility have available, either on-site or off-site?

Circle the number of months and the corresponding point total. Write the point total in the box below at the right.

<i>months</i>	<2	2	3	4-5	6
<i>points</i>	50	30	20	10	0

Write 0, 10, 20, 30 or 50 in the A point total box A Point Total

B. For how many months does your facility have approval to use or dispose of sewage sludge at a properly permitted landfill, land application site, or sewage sludge incinerator?

Circle the number of months and the corresponding point total. Write the point total in the box below at the right.

<i>months</i>	<6	6-11	12-23	24-35	>36
<i>points</i>	50	30	20	10	0

Write 0, 10, 20, 30 or 50 in the B point total box B Point Total

C. Add together the A and B point values and place the sum in the box below at the right:

TOTAL POINT VALUE FOR PART 5: (max = 100)

Also enter this value or 100, whichever is less, on the point calculation table on page 16.

Permit #:

LA0036421

PART 6: NEW DEVELOPMENT

A. Please provide the following information for the total of all sewer line extensions which were installed during the last year.

Design Population: 0
Design Flow: 0 MGD
Design BOD: 200 mg/l

B. Has an industry (or other development) moved into the community or expanded production in the past year, such that either flow or pollutant loadings to the sewerage system were significantly increased (5% or greater)?

√ Check one box. Yes = 15 points No = 0 points

If Yes, Please describe:

List any new pollutants:

C. Is there any development (industrial, commercial or residential) anticipated in the next 2-3 years, such that either flow or pollutant loadings to the sewerage system could significantly increase?

√ Check one box. Yes = 15 points No = 0 points

If Yes, Please describe:

List any new pollutants you anticipate:

D. Add together the point value checked in B and C and place the sum in the box below.

TOTAL POINT VALUE FOR PART 6: 0 (max = 30)

Also enter this value or 30, whichever is less, on the point calculation table on page 16.

Permit #:

LA0036421

PART 7: OPERATOR CERTIFICATION AND EDUCATION

A. What was the name of the operator-in-charge for the reporting year?

Name: Clay Vanveckhoven

B. What is his or her certification number:

Cert. #: 7639

C. What level of certification is the operator-in-charge required to have to operate the wastewater treatment facility?

Level Required: Wastewater Treatment IV

D. What is the level of certification of the operator-in-charge?

Level Certified: Wastewater Treatment IV

E. Was the operator-in-charge of the report year certified at least at the grade level required in order to operate this plant?

√ Check one box. Yes = 0 points No = 50 points

Write 0 or 50 in the E point total box E Point Total

F. Has the operator-in-charge maintained recertification requirements during the reporting year?

√ Check one box. Yes No

G. How many hours of continuing education has the operator-in-charge completed over the last two calendar years?

√ Check one box. > 12 hours = 0 points < 12 hours = 50 points

Write 0 or 50 in the G point total box G Point Total

H. Is there a written policy regarding continuing education an training for wastewater treatment plant employees?

√ Check one box. Yes No

Explain: 16 hours of continuing education within a two year period.

I. What percentage of the continuing education expenses of the operator-in-charge were paid for:

By the permittee? 100% By the operator? 0%

J. Add together the E and G point values and place the sum in the box below at the right.

TOTAL POINT VALUE FOR PART 7: (max = 100)

Also enter this value or 100, whichever is less, on the point calculation table on page 16.

Permit #:

LA0036421

PART 8: FINANCIAL STATUS

A. Are User-Charge Revenues sufficient to cover operation and maintenance expenses?

√ Check one box.

Yes

No

If No, How are O&M costs financed?

No, sewer user fee revenues alone are not sufficient to cover O&M expenses. The City-Parish has two sources of revenue for sewer, the sewer user fee, and a one-half of one percent sales and use tax dedicated to sewer. 65% of the revenue base is from the sewer user fee and 35% from the sewer sales tax.

B. What financial resources do you have available to pay for your wastewater improvements and reconstruction needs?

See A above. The City-Parish has financed it's sewer construction needs through the issuance of sewer revenue bonds and any funding that remains after O&M and debt services requirements are met.

Permit #:

LA0036421

PART 9: SUBJECTIVE EVALUATION

A. Collection System Maintenance

- i. Describe what sewer system maintenance work has been done in the last year.

See Attached

- ii. Describe what lift station work has been done in the last year.

See Attached

- iii. What collection system improvements does the community have under construction for the next 5 years?

See Attached

B. If you have ponds please answer the following questions:

√ Check one box.

- | | | |
|---|------------------------------|-----------------------------|
| i. Do you have duckweed buildup in the ponds? | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| ii. Do you mow the dikes regularly (at least monthly), to the waters edge? | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| iii. Do you have bushes or trees growing on the dikes or in the ponds? | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| iv. Do you have excess sludge buildup (> 1foot) on the bottom of any of your ponds? | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| v. Do you exercise all of your valves? | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| vi. Are your control manholes in good structural shape? | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| vii. Do you maintain at least 3 feet of freeboard in all of your ponds? | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| viii. Do you visit your pond system at least weekly? | <input type="checkbox"/> Yes | <input type="checkbox"/> No |

LA0036421 CENTRAL WASTEWATER PLANT

LA MWPP Environmental Audit

Part 9: Subjective Evaluation

- A1.** As part of the Consent Decree, Operation and Maintenance of the Central Treatment Plant Collection Area is performed and reported on a quarterly basis. The following table is a breakdown/summary of activities performed within the Central Treatment Plant Collection System Area during the reporting period.

Central Treatment Area
Monitoring Period (2015 – 2nd qtr. thru 2016 – 1st qtr.)

Line Cleaned	50,166
CCTV Inspected	63,437
Smoke Tested	37,697
Dye Tested	0
Manhole Inspected	88
Line Repaired	595
Manhole Rehabilitated	11
Force Main – Inspected	10.4
Repaired	0
Air Release Valves-Inspected	51
Repaired	37
Wet Wells Cleaned	4
Pump Stations-Repaired	20

- A2.** As shown above, an extensive routine pump station maintenance program is in place. Additionally, the attached Capital Improvement Plan outlines the construction projects that have been completed.
- A3.** The attached Capital Improvement Plan outlines the construction projects that are currently in the planning phase, or currently under design, including estimated completion dates.

CWWTP WWTP 2015 - 2016 Annual Audit

	2nd Qtr 2015	3rd Qtr 2015	4th Qtr 2015	1st Qtr 2016	La MWPP Audit Totals
Lines Cleaned (ft)	14,909.00	14,278.00	5,944.00	15,035.00	50,166.00
CCTV Inspected (ft)	24,252.00	17,792.00	5,565.00	15,828.00	63,437.00
Smoke Tested (ft)	11,157.00	25,790.00	-	750.00	37,697.00
Dye Tested (no. of locations)	-	-	-	-	-
Manholes Inspected (no)	83.00	5.00	-	-	88.00
Lines Repaired(no)	227.00	135.00	49.00	184.00	595.00
Manholes Rehabilitated (no.)	10.00	-	1.00	-	11.00
Force Main -Inspected	2.80	3.80	1.00	2.80	10.40
Force Main -Repaired	-	-	-	-	-
ARV Inspected/Maintained	14.00	19.00	4.00	14.00	51.00
ARV Repaired (no.)	8.00	1.00	4.00	24.00	37.00
Wet Wells Cleaned	-	-	1.00	3.00	4.00
Pump Station Repaired (no.)	3.00	2.00	15.00	-	20.00

Permit #:

LA0036421

C. Treatment Plants

i. Have the influent and effluent flow meters been calibrated in the last year?

Yes No (✓ Check one box.)

08-14-2015

Influent flow meter calibration date(s)

08-28-2015

Effluent flow meter calibration date(s)

ii. What problems, if any, have been experienced over the last year that have threatened treatment?

The plant has equipment at the end of its useful life and lacks redundancy in several areas of the plant.

iii. Is your community presently involved in formal planning for treatment facility upgrade?

✓ Check one box. Yes No *If Yes, Please describe:*

Permit #:

LA0036421

D. Preventive Maintenance

- i. Does your plant have a written plan for preventive maintenance on major equipment items?

√ Check one box.

Yes

No

If Yes, Please describe:

Weekly, monthly and semi-annually preventive maintenance sheets that reflect type and frequency as specified in the O&M manuals. A new computer program will manage the preventive maintenance of plant equipment and spare parts.

- ii. Does this preventive maintenance program depict frequency of intervals, types of lubrication and other preventive maintenance tasks necessary for each piece of equipment?

Yes

No

- iii. Are these preventive maintenance tasks, as well as equipment problems, being recorded and filed so future maintenance problems can be assured properly?

Yes

No

E. Sewer Use Ordinance

- i. Does your community have a sewer use ordinance that limits or prohibits the discharge of excessive conventional pollutants (BOD, TSS or pH) or toxic substances to the sewer system from industries, commercial users and residences?

√ Check one box.

Yes

No

If Yes, Please describe:

Sewer User Fee Ordinance (No. 7853) limits the discharge of BOD & TSS to 200 mg/l and 250 mg/l respectively. Any discharge above these limits is surcharged at a rate of 2% of the monthly sewer user fee for each limit of 10 mg/l. Pretreatment Ordinance (No. 9195) limits the discharge of heavy metals, chemical and toxic substances.

- ii. Has it been necessary to enforce?

√ Check one box.

Yes

No

If Yes, Please describe:

The Sewer User Fee Ordinance is strictly enforced by the City Parish and self monitoring sampling. The same apply to the Pretreatment Ordinance. Enforcement mechanisms include discharge permits, surcharges, letter of violations, administrative orders, water termination, and fines.

- iii. Any additional comments about your treatment plant or collection system? (Attach additional sheets if necessary.)

NO

Permit #:

LA0036421

POINT CALCULATION TABLE

	Actual Values	Maximum
Part 1: <i>Influent Flow/Loadings</i>	0	80 points
Part 2: <i>Effluent Quality / Plant Performance</i>	15	100 points
Part 3: <i>Age of WWTF</i>	45	50 points
Part 4: <i>Overflows and Bypasses</i>	100	100 points
Part 5: <i>Ultimate Disposition of Sludge</i>	0	100 points
Part 6: <i>New Development</i>	0	30 points
Part 7: <i>Operator Certification Training</i>	0	100 points

TOTAL POINTS:

160

ATTACHMENT 3

SAMPLE MWPP RESOLUTION

Resolved that the village/town/city of Baton Rouge informs the Louisiana Department of Environmental Quality that the following actions were taken by City Parish (governing body).

1. Resolved the Municipal Water Pollution Prevention Environmental Audit Report which is attached to this resolution.
2. Set forth the following actions necessary to maintain permit requirements contained in the Louisiana Pollution Discharge Elimination System (LPDES) permit, number LA0036421 AI # 4842 .

(Please be specific in listing the actions that will be taken to address the problems identified in the audit report.)

- a. Currently, we are operating under a consent decree which became effective March 14, 2002.
- b. The plant will be shut down and decommissioned by the end of 2016.
- c.
- d.
- etc..

Passed by a majority unanimous (circle one) vote of the Metropolitan Council on July 27, 2016 (date).

Cassey Castro

CLERK

ADOPTED
EAST BATON ROUGE SEWERAGE
COMMISSION

JUL 27 2016

568 16 163

Casey Cash
COUNCIL ADMINISTRATOR TREASURER

RESOLUTION 52294
EBROSCO RESOLUTION 8216

ADOPTED
METROPOLITAN COUNCIL

JUL 27 2016

Casey Cash
COUNCIL ADMINISTRATOR TREASURER

AUTHORIZING THE MAYOR-PRESIDENT AND/OR EBROSCO TO APPROVE THE SUBMITTAL OF THE LOUISIANA MUNICIPAL WATER POLLUTION PREVENTION (MWPP) ENVIRONMENTAL AUDIT FOR THE CENTRAL TREATMENT PLANT (LA0036421 AI#4842) TO THE LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY (LDEQ) FOR THE MONITORING PERIOD OF MARCH 1, 2015 THROUGH FEBRUARY 29, 2016.

BE IT RESOLVED by the Metropolitan Council of the Parish of East Baton Rouge and City of Baton Rouge and by the Board of Commissioners of the East Baton Rouge Sewerage Commission (EBROSCO), acting as the Authority for EBROSCO, that:

Section 1. The Mayor-President, on behalf of the City of Baton Rouge and Parish of East Baton Rouge, and/or the East Baton Rouge Sewerage Commission, represented by President of said Commission, are hereby authorized to approve the submittal of the Louisiana Municipal Water Pollution Prevention (MWPP) Environmental Audit for the Central Treatment Plant (LA0036421 AI#4842) to the Louisiana Department of Environmental Quality (LDEQ) for the monitoring period of March 1, 2015 through February 29, 2016.

Section 2. Said agreement shall be approved by the Office of the Parish Attorney as to form and legality.

LOUISIANA

MUNICIPAL WATER POLLUTION PREVENTION

MWPP



<i>Facility Name:</i>	City of Baton Rouge / Parish of East Baton Rouge / North Wastewater Treatment Plant
<i>LPDES Permit Number:</i>	LA0036439
<i>Agency Interest (AI) Number:</i>	4843
<i>Address:</i>	55 Mills Avenue
	Baton Rouge, LA
<i>Parish:</i>	East Baton Rouge
<i>(Person Completing Form) Name:</i>	Cynthia Thomas
<i>Title:</i>	Asst. Wastewater Laboratory Supervisor
<i>Date Completed:</i>	June 10, 2016

INSTRUCTIONS

1. Complete only the sections of the Environmental Audit which apply to your wastewater treatment system. Leave sections that do not apply blank and enter a "0" for the point value.
2. Parts 1 through 7 contain questions for which points may be generated. These points are intended to communicate to the department and the governing body or owner what actions will be necessary to prevent effluent violations. Place the point totals from parts 1 through 7 on the Point Calculation page.
3. Add up the point totals.
4. Submit the Environmental Audit to the governing body or owner for review and approval.
5. The governing body must pass a resolution which contains the following items:
 - a. The resolution or letter must acknowledge the governing body or owner has reviewed the Environmental Audit.
 - b. This resolution must indicate specific actions, if any, will be taken to maintain compliance and prevent effluent violations. Proposed actions should address the parts where maximum or close to maximum points were generated in the Environmental Audit.
 - c. The resolution should provide any other information the governing body deems appropriate.

Permit #:

LA0036439

PART I. INFLUENT FLOW/LOADINGS (all plants)

A. List the average monthly volumetric flows and BOD loadings received at your facility during the last reporting year.

157

Column 1 Average Monthly Flow (million gallons per day, MGD)		Column 2 Average Monthly BOD5 Concentration (mg/l)		Column 3 Average Monthly BOD5 Loading (pounds per day, lb/day)
24.96	x	157	x 8.34 =	32,682
20.06	x	143	x 8.34 =	23,924
19.02	x	150	x 8.34 =	23,794
14.48	x	155	x 8.34 =	18,718
12.83	x	179	x 8.34 =	19,153
10.76	x	179	x 8.34 =	16,063
15.39	x	158	x 8.34 =	20,280
20.07	x	138	x 8.34 =	23,099
20.08	x	134	x 8.34 =	22,441
22.94	x	115	x 8.34 =	22,002
19.63	x	155	x 8.34 =	25,376
22.73	x	145	x 8.34 =	27,487

BOD loading = Average Monthly Flow (in MGD) x Average Monthly BOD concentration (in mg/l) x 8.34

B. List the design flow and design BOD loading for your facility in the blanks below. If you are not aware of these design quantities, refer to your Operation and Maintenance (O&M) Manual or contact your consulting engineer.

Design Flow, MGD:

54

x 0.90 =

48.60

Design BOD, lb/day:

75,210

x 0.90 =

67,689

Permit #:

LA0036439

- C. How many months did the monthly flow (Column 1) to the wastewater treatment facility (WWTF) exceed 90% of design flow? Circle the number of months and the corresponding point total. Write the point total in the box below at the right.

months	0	1	2	3	4	5	6	7	8	9	10	11	12
points	0	0	0	0	0	5	5	5	5	5	5	5	5

Write 0 or 5 in the C point total box C Point Total

- D. How many months did the monthly flow (Column 1) to the WWTF exceed the design flow? Circle the number of months and corresponding point total. Write the point total in the box below at the right.

months	0	1	2	3	4	5	6	7	8	9	10	11	12
points	0	5	5	10	10	15	15	15	15	15	15	15	15

Write 0, 5, 10 or 15 in the D point total box D Point Total

- E. How many months did the monthly BOD loading (Column 3) to the WWTF exceed 90% of the design loading? Circle the number of months and corresponding point total. Write the point total in the box below at the right.

months	0	1	2	3	4	5	6	7	8	9	10	11	12
points	0	0	5	5	5	10	10	10	10	10	10	10	10

Write 0, 5, or 10 in the E point total box E Point Total

- F. How many months did the monthly BOD loading (Column 3) to the WWTF exceed the design loading? Circle the number of months and corresponding point total. Write the point total in the box below at the right.

months	0	1	2	3	4	5	6	7	8	9	10	11	12
points	0	10	20	30	40	50	50	50	50	50	50	50	50

Write 0, 10, 20, 30, 40 or 50 in the F point total box F Point Total

- G. Add together each point total for C through F and place this sum in the box below at the right.

TOTAL POINT VALUE FOR PART 1: (max = 80)

Also enter this value or 80, whichever is less, on the point calculation table on page 16.

Permit #:

LA0036439

PART 2: EFFLUENT QUALITY / PLANT PERFORMANCE

- A. List the monthly average effluent BOD and TSS concentrations produced by your facility during the last reporting year.

Month	Column 1 Average Monthly BOD (mg/l)	Column 2 Average Monthly TSS (mg/l)
APRIL	25	19
MAY	23	16
JUNE	20	16
JULY	18	13
AUGUST	20	12
SEPTEMBER	19	10
OCTOBER	19	14
NOVEMBER	19	18
DECEMBER	22	18
JANUARY	22	26
FEBRUARY	30	25
MARCH	24	23

- B. List the monthly average permit limits for your facility in the blanks below.

	Permit Limit		90% of Permit Limit
BOD, mg/l	30	x 0.90 =	27
TSS, mg/l	30	x 0.90 =	27

Permit #:

LA0036439

C. Continuous Discharge to Surface Water.

- i. How many months did the effluent BOD (Column 1) exceed 90% of the permit limits? Circle the number of months and the corresponding point total. Write the point total in the box below at the right.

months	0	1	2	3	4	5	6	7	8	9	10	11	12
points	0	0	10	20	30	40	40	40	40	40	40	40	40

Write 0, 10, 20, 30 or 40 in the i point total box i Point Total

- ii. How many months did the effluent BOD (Column 1) exceed permit limits? Circle the number of months and corresponding point total. Write the point total in the box below at the right.

months	0	1	2	3	4	5	6	7	8	9	10	11	12
points	0	5	5	10	10	10	10	10	10	10	10	10	10

Write 0, 5, or 10 in the ii point total box ii Point Total

- iii. How many months did the effluent TSS (Column 2) exceed 90% of the permit limits? Circle the number of months and the corresponding point total. Write the point total in the box below at the right.

months	0	1	2	3	4	5	6	7	8	9	10	11	12
points	0	0	10	20	30	40	40	40	40	40	40	40	40

Write 0, 10, 20, 30 or 40 in the iii point total box iii Point Total

- iv. How many months did the effluent TSS (Column 2) exceed permit limits? Circle the number of months and corresponding point total. Write the point total in the box below at the right.

months	0	1	2	3	4	5	6	7	8	9	10	11	12
points	0	5	5	10	10	10	10	10	10	10	10	10	10

Write 0, 5, or 10 in the iv point total box iv Point Total

- v. Add together each point total for i through iv and place this sum in the box below at the right.

TOTAL POINT VALUE FOR PART 2: (max = 100)

Also enter this value or 100, whichever is less, on the point calculation table on page 16.

Permit #:

LA0036439

D. Other Monitoring and Limitations

- i.** At any time in the past year was there an exceedance of a permit limit for other pollutants such as: ammonia-nitrogen, phosphorus, pH, total residual chlorine, or fecal coliform?

√ Check one box.

Yes

No

If Yes, Please describe:

- ii.** At any time in the past year was there a "failure" of a Biomonitoring (Whole Effluent Toxicity) test of the effluent?

√ Check one box.

Yes

No

If Yes, Please describe:

- iii.** At any time in the past year was there an exceedance of a permit limit for a toxic substance?

√ Check one box.

Yes

No

If Yes, Please describe:

See Attached

D. Other Monitoring and Limitations

iii.

North Treatment Plant - LA0036439 (*Influent*)*

Sample Date	Pollutant	Reporting Value	Actual Value
June 9, 2015	Total Phenols	0.005 mg/L	0.0067 mg/L
	Zinc	20 µg/L	61 µg/L
	Naphthalene	1.0 µg/L	1.1 µg/L

North Treatment Plant - LA0036439 (*Effluent*)*

Sample Date	Pollutant	Reporting Value	Actual Value
June 18, 2015	Total Phenols	0.005 mg/L	0.014 mg/L
	Zinc	20 µg/L	24 µg/L
	Mercury	0.50 ng/L	7.3 ng/L

*1/6 months

North Treatment Plant - LA0036439 (*Influent*)*

Sample Date	Pollutant	Reporting Value	Actual Value
December 1, 2015	Total Phenols	0.005 mg/L	0.03 mg/L
	Zinc	20 µg/L	52 µg/L

North Treatment Plant - LA0036439 (*Effluent*)*

Sample Date	Pollutant	Reporting Value	Actual Value
December 2, 2015	Zinc	20 µg/L	24 µg/L
	Mercury	0.50 ng/L	21.4 ng/L

*1/6 months

Permit #:

LA0036439

PART 3. AGE OF THE WASTEWATER TREATMENT FACILITY

A. What year was the wastewater treatment facility constructed or last major expansion/improvements completed?

$$\begin{array}{rcccl}
 & & 1998 & & \\
 \text{Current Year} & - & \text{Answer to A} & = & \text{Age in years} \\
 \hline
 2016 & & 1998 & & 18 \\
 \hline
 \end{array}$$

Enter Age in Part C below.

B. Check the type of treatment facility that is employed.

	FACTOR:
<input checked="" type="checkbox"/> Mechanical Treatment Plant (trickling filter, activated sludge, etc...) Specify Type: _____	2.5
_____ Aerated Lagoon	2.0
_____ Stabilization Pond	1.5
_____ Other Specify Type: _____	1.0

C. Multiply the factor listed next to the type of facility your community employs by the age of your facility to determine the total point value for Part 3.

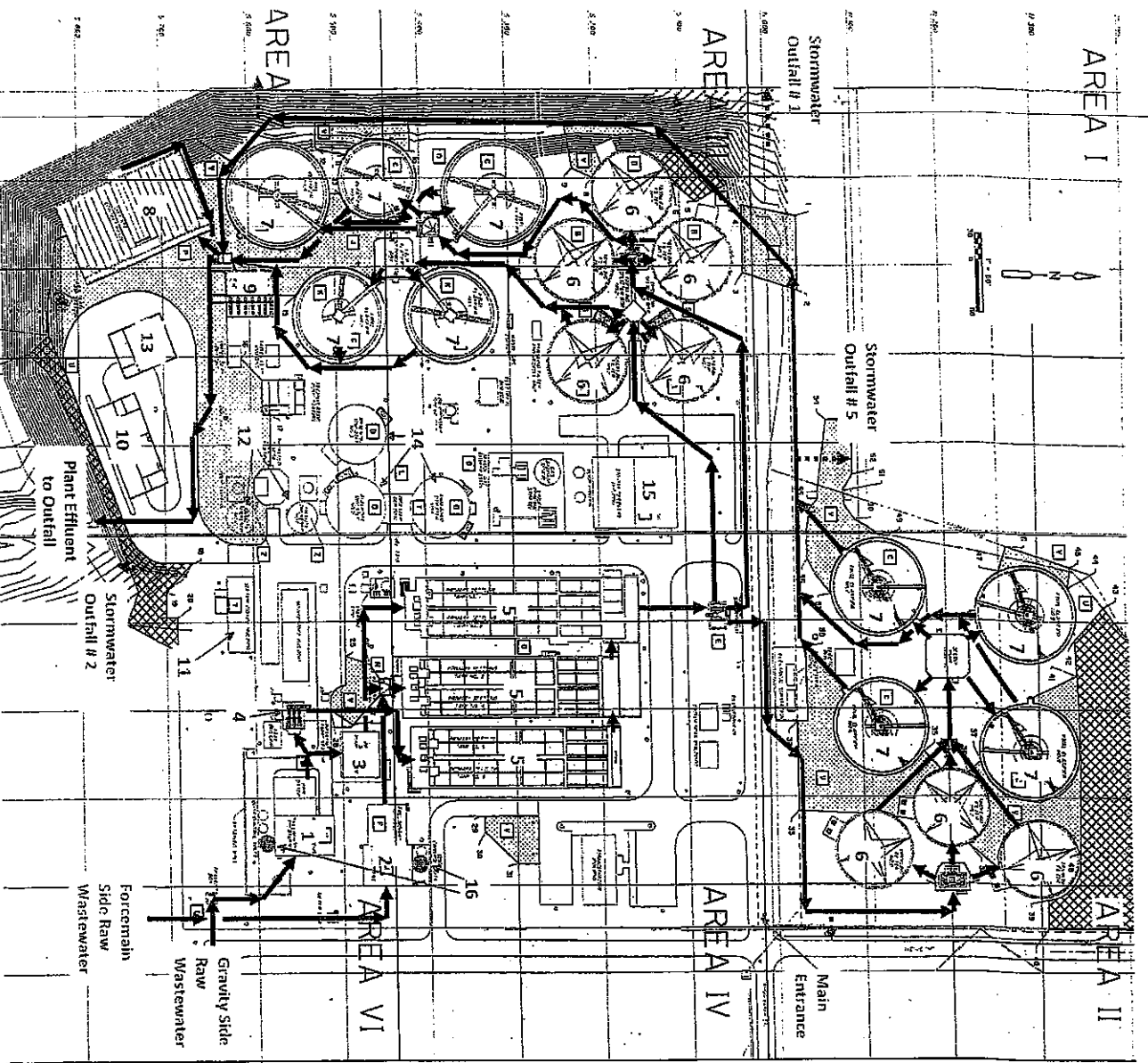
TOTAL POINT VALUE FOR PART 3 =

$$\frac{2.5}{\text{Factor}} \times \frac{18}{\text{Age}} = \boxed{45} \text{ (max = 50)}$$

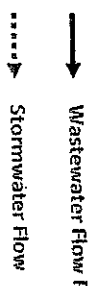
Also enter this value or 50, whichever is less, on the point calculation table on page 16.

D. Please attach a schematic of the treatment plant.

* See Attachment



- 1 - Gravity Side Preliminary Treatment
- 2 - Forcemain Side Preliminary Treatment
- 3 - Screw Influent PS
- 4 - Influent PS
- 5 - Primary Settling Tanks
- 6 - Trickling Filters
- 7 - Final Clarifiers
- 8 - Chlorine Contact Basins
- 9 - Effluent PS
- 10 - Chlorine Building
- 11 - Sulfur Dioxide Building
- 12 - Gravity Thickeners
- 13 - Gravity Belt Thickeners
- 14 - Anaerobic Digesters
- 15 - Sludge Dewatering Building
- 16 - Odor Control Biotowers (New)



**North WWTP
Site Diagram**

Permit #:

LA0036439

PART 5: SEWAGE SLUDGE STORAGE, USE, AND DISPOSAL

A. Sewage Sludge Storage

How many months of sewage sludge storage capacity does your facility have available, either on-site or off-site?

Circle the number of months and the corresponding point total. Write the point total in the box below at the right.

<i>months</i>	<2	2	3	4-5	6
<i>points</i>	50	30	20	10	0

Write 0, 10, 20, 30 or 50 in the A point total box A Point Total

B. For how many months does your facility have approval to use or dispose of sewage sludge at a properly permitted landfill, land application site, or sewage sludge incinerator?

Circle the number of months and the corresponding point total. Write the point total in the box below at the right.

<i>months</i>	<6	6-11	12-23	24-35	>36
<i>points</i>	50	30	20	10	0

Write 0, 10, 20, 30 or 50 in the B point total box B Point Total

C. Add together the A and B point values and place the sum in the box below at the right:

TOTAL POINT VALUE FOR PART 5: (max = 100)

Also enter this value or 100, whichever is less, on the point calculation table on page 16.

Permit #:

LA0036439

PART 6: NEW DEVELOPMENT

A. Please provide the following information for the total of all sewer line extensions which were installed during the last year.

Design Population: 0
Design Flow: 0 MGD
Design BOD: 200 mg/l

B. Has an industry (or other development) moved into the community or expanded production in the past year, such that either flow or pollutant loadings to the sewerage system were significantly increased (5% or greater)?

√ Check one box. Yes = 15 points No = 0 points

If Yes, Please describe:

List any new pollutants:

C. Is there any development (industrial, commercial or residential) anticipated in the next 2-3 years, such that either flow or pollutant loadings to the sewerage system could significantly increase?

√ Check one box. Yes = 15 points No = 0 points

If Yes, Please describe:

List any new pollutants you anticipate:

D. Add together the point value checked in B and C and place the sum in the box below.

TOTAL POINT VALUE FOR PART 6: (max = 30)

Also enter this value or 30, whichever is less, on the point calculation table on page 16.

Permit #:

LA0036439

PART 7: OPERATOR CERTIFICATION AND EDUCATION

A. What was the name of the operator-in-charge for the reporting year?

Name: Calvin Hayes

B. What is his or her certification number:

Cert. #: 7130

C. What level of certification is the operator-in-charge required to have to operate the wastewater treatment facility?

Level Required: Wastewater Treatment IV

D. What is the level of certification of the operator-in-charge?

Level Certified: Wastewater Treatment IV

E. Was the operator-in-charge of the report year certified at least at the grade level required in order to operate this plant?

√ Check one box. Yes = 0 points No = 50 points

Write 0 or 50 in the E point total box E Point Total

F. Has the operator-in-charge maintained recertification requirements during the reporting year?

√ Check one box. Yes No

G. How many hours of continuing education has the operator-in-charge completed over the last two calendar years?

√ Check one box. > 12 hours = 0 points < 12 hours = 50 points

Write 0 or 50 in the G point total box G Point Total

H. Is there a written policy regarding continuing education an training for wastewater treatment plant employees?

√ Check one box. Yes No

Explain: 16 hours of continuing education within a two year period

I. What percentage of the continuing education expenses of the operator-in-charge were paid for:

By the permittee? 100% By the operator? 0%

J. Add together the E and G point values and place the sum in the box below at the right.

TOTAL POINT VALUE FOR PART 7: (max = 100)

Also enter this value or 100, whichever is less, on the point calculation table on page 16.

Permit #:

LA0036439

PART 8: FINANCIAL STATUS

A. Are User-Charge Revenues sufficient to cover operation and maintenance expenses?

√ Check one box. Yes No *If No, How are O&M costs financed?*

No, sewer user fee revenues alone are not sufficient to cover O&M expenses. The City-Parish has two sources of revenue for sewer, the sewer user fee, and a one-half of one percent sales and use tax dedicated to sewer. 65% of the revenue base is from the sewer user fee and 35% from the sewer sales tax.

B. What financial resources do you have available to pay for your wastewater improvements and reconstruction needs?

See A above. The City-Parish has financed it's sewer construction needs through the issuance of sewer revenue bonds and any funding that remains after O&M and debt services requirements are met.

Permit #:

LA0036439

PART 9: SUBJECTIVE EVALUATION

A. Collection System Maintenance

i. Describe what sewer system maintenance work has been done in the last year.

See Attached

ii. Describe what lift station work has been done in the last year.

See Attached

iii. What collection system improvements does the community have under construction for the next 5 years?

See Attached

B. If you have ponds please answer the following questions:

√ Check one box.

- | | | |
|---|------------------------------|-----------------------------|
| i. Do you have duckweed buildup in the ponds? | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| ii. Do you mow the dikes regularly (at least monthly), to the waters edge? | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| iii. Do you have bushes or trees growing on the dikes or in the ponds? | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| iv. Do you have excess sludge buildup (> 1foot) on the bottom of any of your ponds? | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| v. Do you exercise all of your valves? | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| vi. Are your control manholes in good structural shape? | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| vii. Do you maintain at least 3 feet of freeboard in all of your ponds? | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| viii. Do you visit your pond system at least weekly? | <input type="checkbox"/> Yes | <input type="checkbox"/> No |

LA0036439 NORTH WASTEWATER PLANT

LA MWPP Environmental Audit

Part 9: Subjective Evaluation

A1. As part of the Consent Decree, Operation and Maintenance of the North Treatment Plant Collection Area is performed and reported on a quarterly basis. The following table is a breakdown/summary of activities performed within the North Treatment Plant Collection System Area during the reporting period.

North Treatment Area
Monitoring Period (2015 – 2nd qtr. thru 2016 – 1st qtr.)

Line Cleaned	54,889
CCTV Inspected	63,470
Smoke Tested	61,960
Dye Tested	0
Manhole Inspected	188
Line Repaired	492
Manhole Rehabilitated	137
Force Main – Inspected	173
Repaired	283
Air Release Valves-Inspected	876
Repaired	385
Wet Wells Cleaned	146
Pump Stations-Repaired	54

- A2.** As shown above, an extensive routine pump station maintenance program is in place. Additionally, the attached Capital Improvement Plan outlines the construction projects that have been completed.
- A3.** The attached Capital Improvement Plan outlines the construction projects that are currently in the planning phase, or currently under design, including estimated completion dates.

NWWTP WWTP 2015 - 2016 Annual Audit

	2nd Qtr 2015	3rd Qtr 2015	4th Qtr 2015	1st Qtr 2016	La MWPP Audit Totals
Lines Cleaned (ft)	34,676.00	1,420.00	16.00	18,777.00	54,889.00
CCTV Inspected (ft)	34,676.00	1,420.00	16.00	27,358.00	63,470.00
Smoke Tested (ft)	16,368.00	38,628.00	1,412.00	5,552.00	61,960.00
Dye Tested (no. of locations)	-	-	-	-	-
Manholes Inspected (no)	138.00	9.00	8.00	33.00	188.00
Lines Repaired(no)	166.00	137.00	11.00	178.00	492.00
Manholes Rehabilitated (no.)	5.00	4.00	5.00	123.00	137.00
Force Main -Inspected	26.00	59.00	35.00	53.00	173.00
Force Main -Repaired	21.00	1.00	3.00	2.00	27.00
ARV Inspected/Maintained	132.00	294.00	176.00	274.00	876.00
ARV Repaired (no.)	66.00	102.00	103.00	114.00	385.00
Wet Wells Cleaned	-	-	54.00	92.00	146.00
Pump Station Repaired (no.)	6.00	15.00	18.00	15.00	54.00

Permit #:

LA0036439

C. Treatment Plants

i. Have the influent and effluent flow meters been calibrated in the last year?

Yes No (✓ Check one box.)

*See Below

Influent flow meter calibration date(s)

*See Below

Effluent flow meter calibration date(s)

ii. What problems, if any, have been experienced over the last year that have threatened treatment?

Some mechanical units (trickling filters) are down for repairs and the other units are nearing the end of useful life and are in need of rehabilitation and/or replacement.

iii. Is your community presently involved in formal planning for treatment facility upgrade?

✓ Check one box.



Yes



No

If Yes, Please describe:

The North WWTP Improvement Project is expected to start construction in 3rd QTR 2016 and has new preliminary treatment facility (screenings and grit removal), conversion to sodium hypochlorite for disinfection, standby generators, plant-wide SCADA, and solids handling improvements.

*Gravity Influent

9-17-15

*Forcemain Influent

4-7-15

10-7-15

4-7-16

*Final Effluent

7-27-15

1-28-16

Permit #:

LA0036439

D. Preventive Maintenance

- i. Does your plant have a written plan for preventive maintenance on major equipment items?

√ Check one box. Yes No *If Yes, Please describe:*

Weekly, monthly and semi-annually preventive maintenance sheets that reflect type and frequency as specified in the O&M manuals. A new computer program will manage the preventive maintenance of plant equipment and spare parts.

- ii. Does this preventive maintenance program depict frequency of intervals, types of lubrication and other preventive maintenance tasks necessary for each piece of equipment?

Yes No

- iii. Are these preventive maintenance tasks, as well as equipment problems, being recorded and filed so future maintenance problems can be assured properly?

Yes No

E. Sewer Use Ordinance

- i. Does your community have a sewer use ordinance that limits or prohibits the discharge of excessive conventional pollutants (BOD, TSS or pH) or toxic substances to the sewer system from industries, commercial users and residences?

√ Check one box. Yes No *If Yes, Please describe:*

Sewer User Fee Ordinance (No. 7853) limits the discharge of BOD & TSS to 200 mg/l and 250 mg/l respectively. Any discharge above these limits is surcharged at a rate of 2% of the monthly sewer user fee for each limit of 10 mg/l. Pretreatment Ordinance (No. 9195) limits the discharge of heavy metals, chemical and toxic substances.

- ii. Has it been necessary to enforce?

√ Check one box. Yes No *If Yes, Please describe:*

The Sewer User Fee Ordinance is strictly enforced by the City Parish and self monitoring sampling. The same apply to the Pretreatment Ordinance. Enforcement mechanisms include discharge permits, surcharges, letter of violations, administrative orders, water termination, and fines.

- iii. Any additional comments about your treatment plant or collection system? (Attach additional sheets if necessary.)

NO

Permit #:

LA0036439

POINT CALCULATION TABLE

	Actual Values	Maximum
Part 1: <i>Influent Flow/Loadings</i>	0	80 points
Part 2: <i>Effluent Quality / Plant Performance</i>	0	100 points
Part 3: <i>Age of WWTF</i>	45	50 points
Part 4: <i>Overflows and Bypasses</i>	100	100 points
Part 5: <i>Ultimate Disposition of Sludge</i>	0	100 points
Part 6: <i>New Development</i>	0	30 points
Part 7: <i>Operator Certification Training</i>	0	100 points

TOTAL POINTS:

145

ATTACHMENT 3

SAMPLE MWPP RESOLUTION

Resolved that the village/town/city of Baton Rouge informs the Louisiana Department of Environmental Quality that the following actions were taken by City Parish (governing body).

1. Resolved the Municipal Water Pollution Prevention Environmental Audit Report which is attached to this resolution.
2. Set forth the following actions necessary to maintain permit requirements contained in the Louisiana Pollution Discharge Elimination System (LPDES) permit, number LA 0036439 AI # 4843.

(Please be specific in listing the actions that will be taken to address the problems identified in the audit report.)

- a. Currently, we are operating under a consent decree which became effective March 14, 2002.
- b.
- c.
- d.
- etc.,

Passed by a majority/unanimous (circle one) vote of the Metropolitan Council
on July 27, 2016 (date).

Casny Cash

CLERK

ADOPTED
EAST BATON ROUGE
COMMISSION

JUL 27 2016

569 16 164

Cassey Cash
COUNCIL ADMINISTRATOR TREASURER

RESOLUTION

52295

EBROSCO RESOLUTION 8217

ADOPTED
METROPOLITAN COUNCIL

JUL 27 2016

Cassey Cash
COUNCIL ADMINISTRATOR TREASURER

AUTHORIZING THE MAYOR-PRESIDENT AND/OR EBROSCO TO APPROVE THE SUBMITTAL OF THE LOUISIANA MUNICIPAL WATER POLLUTION PREVENTION (MWPP) ENVIRONMENTAL AUDIT FOR THE NORTH TREATMENT PLANT (LA0036439 AI#4843) TO THE LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY (LDEQ) FOR THE MONITORING PERIOD OF APRIL 1, 2015 THROUGH MARCH 31, 2016.

BE IT RESOLVED by the Metropolitan Council of the Parish of East Baton Rouge and City of Baton Rouge and by the Board of Commissioners of the East Baton Rouge Sewerage Commission (EBROSCO), acting as the Authority for EBROSCO, that:

Section 1. The Mayor-President, on behalf of the City of Baton Rouge and Parish of East Baton Rouge, and/or the East Baton Rouge Sewerage Commission, represented by President of said Commission, are hereby authorized to approve the submittal of the Louisiana Municipal Water Pollution Prevention (MWPP) Environmental Audit for the North Treatment Plant (LA0036439 AI#4843) to the Louisiana Department of Environmental Quality (LDEQ) for the monitoring period of April 1, 2015 through March 31, 2016.

Section 2. Said agreement shall be approved by the Office of the Parish Attorney as to form and legality.