BATON ROUGE SSO PROGRAM

2002 CONSENT DECREE

2023 ANNUAL REPORT

January 29, 2024

January 29, 2024

CERTIFIED – RETURN RECEIPT REQUESTED

Ms. Cheryl Seager
Director
Water Enforcement Branch (6EN-W)
Compliance Assurance and Enforcement Division
U.S. Environmental Protection Agency, Region VI
1201 Elm Street, Suite 500
Dallas, TX 75270-210

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, 2023**

Ladies and 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, 2023. 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.

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 M. Smith, PE

Interim Environmental Services Director

Cc: Honorable Sharon Weston Broome, Mayor President
Mr. Dante Bidwell, Chief Administrative Officer
Mr. Gregory Rome, Parish Attorney
Mr. Fred Raiford, Interim Assistant Chief Administrative Officer
Mr. Tom Mariani, Chief, Environmental Enforcement Section, US DOJ
Ms. Aurelia S. Giacometto, LDEQ
Ms. Mona Tates, US EPA Region 6
Mr. Carlos Zequeira, (6RC-EA)
Ms. Darlene Whitten-Hill, (6EN-WC)
Mr. Joseph Young, Jacobs
Mr. Rickey P. Brouillette
Mr. Darren P. Braud
Mr. Ted D. Stephens
Mr. Paul Nata

DATE: January 29, 2024

TO: Mr. Adam Smith, PE
Interim Director, Environmental Services

FROM: Ms. Lisa Purpera, Jacobs

SUBJECT: City of Baton Rouge and Parish of East Baton Rouge
Consent Decree-Civil Action No. 01-978-B-M3
2023 Annual EPA Report Data Review

Mr. Smith,

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 2023 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,

Lisa Purpera

I certify that the information contained in or accompanying the portion of the 2023 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

2023 ANNUAL REPORT

January 29, 2024

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Baton Rouge Consent Decree 2023 Annual Report

This Annual Report for the period from January 1, 2023 to December 31, 2023 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 Consent Decree compliance and additional projects outside of the Consent Decree. By the end of 2018, the City of Baton Rouge/Parish of East Baton Rouge (City/Parish) had functionally completed all Remedial Measures Action Plan (RMAP) projects in accordance and in compliance with the Consent Decree 100% Milestone as shown in Tables 2, 3, and 4 of this Annual Report. Additionally, as of December 31, 2023, there have been 120 Consent Decree reporting deliverables submitted on or ahead of schedule.

1.1 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).

1.1.1 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 Jacobs

(previously 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. Jacobs 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 Jacobs 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 RMAP1 projects are presented in Table 1. 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

		RMAP1 Projects Completed	**RMAP1 Projects Completed**	
Milestone Date		**May 4, 2007**	**Proposed on September 1, 2008**	
Construction Status		**Complete**	**Complete**	**Project Status Summary**
Consent Decree Projects	**Corresponding City/Parish 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)	●		

Table 1. EPA Consent Decree RMAP1 Milestones

Milestone Date		RMAP1 Projects Completed May 4, 2007	RMAP1 Projects Completed Proposed on September 1, 2008	
Construction Status		**Complete**	**Complete**	**Project Status Summary**
Consent Decree Projects	**Corresponding City/Parish Projects**			
	**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.
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)		4th 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)		4th Quarter 2007	**Project completed – 4th quarter 2007.**
S-08 Industriplex Area Upgrades	Industriplex Area PS 355 and FM Upgrades (99-RMP-S08)		2nd Quarter 2010	**Project completed – 1st quarter 2011.**
S-14 Kleinpeter Area Upgrades	Kleinpeter Area Upgrades (03-RMP-S14)		2nd Quarter 2010	**Project completed – 2nd quarter 2009.**

Table 1. EPA Consent Decree RMAP1 Milestones

		RMAP1 Projects Completed	RMAP1 Projects Completed	
Milestone Date		**May 4, 2007**	**Proposed on September 1, 2008**	
Construction Status		**Complete**	**Complete**	**Project Status Summary**
Consent Decree Projects	**Corresponding City/Parish Projects**			
S-16 PS 136 Area Upgrades	PS 136 Area Upgrades (99-RMP-S16)		2nd Quarter 2010	**Project completed – 2nd quarter 2010.**

* This project was executed as a combination of two RMAP1 projects
** These projects were added as RMAP1 projects by the City/Parish after entry into the Consent Decree
*** This RMAP1 project was split up into multiple projects for better execution

1.1.2 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 Jacobs 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 Jacobs' updated plan for South WWTP compliance projects) was submitted by the City/Parish in conjunction with Jacobs on December 12, 2006. Jacobs 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, Jacobs, 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 Jacobs continually refined and performed quality control reviews of the hydraulic model of the sewer system, incorporating new information as it became available. These refinements at times have technically altered some aspects of the RMAP2 projects. However, the City/Parish regularly documented 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 Jacobs 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 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 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 to take into account any changes included in the approved 4-year request for time extension in 2013.

The City/Parish was able to successfully functionally complete all RMAP2 construction 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). The City/Parish is 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, 2018 all one hundred and fifteen (115) projects are functionally completed.

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 also contractor availability and project schedules. The Consent Decree schedule was very demanding, and the time from these force majeure events greatly affected the program. The City/Parish was nonetheless able to meet the 100% milestone and keeps track of these events and their potential effect on other Consent Decree elements' schedule and compliance.

The City/Parish and Jacobs re-evaluated 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.

1.1.2.1 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 their met delivery milestone schedules. 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. EPA Consent Decree RMAP 2 Milestones for Category 1 Projects

	33% Milestone	66% Milestone	100% Milestone	
Milestone Date	**1st QTR 2013**	**2nd QTR 2015**	**4th QTR 2018**	**Project Status Summaries**
Construction Status	**Functionally Complete***	**Functionally Complete***	**Functionally Complete***	
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.**
Kenilworth Boulevard – Boone Drive Area Rehabilitation Project	●			**Project completed – 3rd quarter 2012.**
Foster Drive - Government Street Area Rehabilitation Project Phase A	●			**Project completed – 4th quarter 2011.**
Foster Drive - Government Street Area Rehabilitation Project Phase B	●			**Project completed – 3rd quarter 2012.**
Silverleaf Road – Ford Street Area Rehabilitation Project	●			**Project completed – 4th quarter 2012.**
Brookstown Road - Evangeline Street Phase I Area Rehabilitation Project	●			**Project completed – 4th quarter 2012.**
Brookstown Road – Evangeline Street Phase II Area Rehabilitation Project	●			**Project completed – 4th quarter 2012.**
Bluebonnet Blvd – Jefferson Hwy Phase I Area Rehabilitation Project		●		**Project completed – 4th quarter 2012.**
Bluebonnet Blvd – Jefferson Hwy Phase II Area Rehabilitation Project		●		**Project completed – 1st quarter 2013.**
Highland Road – Washington Street Area Rehabilitation Project		●		**Project completed—3rd quarter 2013.**
Stanford Avenue – Morning Glory Road Area Rehabilitation Project	●			**Project completed – 4th quarter 2012.**
Airline Highway – Goodwood Blvd Phase I Area Rehabilitation Project		●		**Project completed-3rd quarter 2014.**
Airline Highway – Goodwood Blvd Phase II Area Rehabilitation Project		●		**Project completed – 2nd quarter 2015.**
Acadian Thruway – Claycut Road Area Rehabilitation Project		●		**Project completed – 1st quarter 2013.**
Acadian Thruway – Perkins Road Area Rehabilitation Project	●			**Project completed – 4th quarter 2012.**
Antioch Road – Chadsford Drive Area Rehabilitation Project		●		**Project completed – 2nd quarter 2015.**
Jones Creek Road – Tiger Bend Road Area Rehabilitation Project			●	**Project completed – 1st quarter 2016.**

Table 2. EPA Consent Decree RMAP 2 Milestones for Category 1 Projects

	33% Milestone	66% Milestone	100% Milestone	
Milestone Date	**1st QTR 2013**	**2nd QTR 2015**	**4th QTR 2018**	**Project Status Summaries**
Construction Status	**Functionally Complete***	**Functionally Complete***	**Functionally Complete***	
Scenic Highway – Spanish Town Road Phase I Area Rehabilitation Project		●		**Project completed – 2nd quarter 2015.**
Scenic Highway – Spanish Town Road Phase II Area Rehabilitation Project			●	**Project completed – 2nd quarter 2016.**
Siegen Lane – Interstate 10 Area Rehabilitation Project			●	**Project completed – 2nd quarter 2017.**
Interstate 110 – Hollywood Street Area Rehabilitation Project			●	**Project completed – 3rd quarter 2015.**
Ardenwood Drive – Winbourne Street Area Rehabilitation Project			●	**Project completed – 3rd quarter 2016.**
Flannery Road – Florida Boulevard Phase I Area Rehabilitation Project			●	**Project completed – 3rd quarter 2017.**
Flannery Road – Florida Boulevard Phase II Area Rehabilitation Project			●	**Project completed – 4th quarter 2018.**
East Boulevard – Government Street Area Rehabilitation Project			●	**Project completed – 3rd quarter 2017.**
North 38th Street – Gus Young Avenue Area Rehabilitation Project			●	**Project completed – 3rd quarter 2018.**

*A project is deemed "Functionally Complete" when a project has been constructed in accordance with the engineering and operation specifications and has been tested to function as required. The definition functionally complete may or may not mean that the asset has been put into service as designed. Further definition can be found within Quarterly Report #56.

1.1.2.2 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 to accommodate peak wastewater flows remaining in the rehabilitated collection system. Table 3 presents a list of Category 2 projects with corresponding met milestone schedules, current through December 31, 2020.

Table 3. EPA Consent Decree RMAP2 Milestones for Category 2 Projects

	33% Milestone	66% Milestone	100% Milestone	
Milestone Date	**1st QTR 2013**	**2nd QTR 2015**	**4th QTR 2018**	**Project Status Summaries**
Construction Status	**Functionally Complete***	**Functionally Complete***	**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.**

Table 3. EPA Consent Decree RMAP2 Milestones for Category 2 Projects

	33% Milestone	66% Milestone	100% Milestone	
Milestone Date	**1st QTR 2013**	**2nd QTR 2015**	**4th QTR 2018**	**Project Status Summaries**
Construction Status	**Functionally Complete***	**Functionally Complete***	**Functionally Complete***	
Foster Road – Hooper Road Sewer Area Upgrade	●			**Project completed - 4th quarter 2010.**
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			●	**Project completed – 1st quarter 2017.**
South Boulevard – St. Joseph Street Sewer Area Upgrades	●			**Project completed –2nd quarter 2012.**
South Boulevard – St. Joseph Street Sewer Area Upgrades – Phase B			●	**Project completed – 3rd quarter 2017.**
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 – 3rd 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.**
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.**

Table 3. EPA Consent Decree RMAP2 Milestones for Category 2 Projects

	33% Milestone	66% Milestone	100% Milestone	
Milestone Date	**1st QTR 2013**	**2nd QTR 2015**	**4th QTR 2018**	**Project Status Summaries**
Construction Status	**Functionally Complete***	**Functionally Complete***	**Functionally Complete***	
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			●	**Project completed - 3rd quarter 2017.**
Airline Highway Pipeline Improvements-Phase B			●	**Project completed – 3rd quarter 2018.**
Multiple PS - Highland Road - Kenilworth Parkway			●	**Project completed – 2nd quarter 2017.**
Florida Boulevard Pump Station Improvements			●	**Project completed – 4th quarter 2018.**
Plank Road Pump Station Improvements			●	**Project completed – 1st quarter 2017.**
Multiple PS - Highway 61 - Plank Road			●	**Project completed – 2nd quarter 2018.**

Table 3. EPA Consent Decree RMAP2 Milestones for Category 2 Projects

	33% Milestone	66% Milestone	100% Milestone	
Milestone Date	**1st QTR 2013**	**2nd QTR 2015**	**4th QTR 2018**	**Project Status Summaries**
Construction Status	**Functionally Complete***	**Functionally Complete***	**Functionally Complete***	
O'Neal Lane Pump Station Improvements – Group A			●	**Project completed – 2nd quarter 2017.**
O'Neal Lane Pump Station Improvements – Group B			●	**Project completed – 4th quarter 2017.**
Sherwood Forest Blvd – Goodwood Blvd Pipeline Improvements			●	**Project completed – 1st quarter 2018.**
Joor Road - Greenwell Springs Road Sewer Area Upgrades			●	**Project completed – 3rd quarter 2018.**
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			●	**Project completed – 2nd quarter 2017.**
Oak Villa Boulevard - Monterrey Boulevard Sewer Area Upgrades			●	**Project completed – 2nd quarter 2017.**
Lovett Road – Greenwell Springs Road Sewer Area Upgrades			●	**Project completed – 4th quarter 2018.**
Hooper Road Pump Station Improvements			●	**Project completed – 3rd quarter 2018.**
Multiple PS - Prescott Rd - Greenwell Springs Rd			●	**Project completed – 4th quarter 2018.**
Multiple PS - Burbank Drive - Siegen Lane			●	**Project completed – 4th quarter 2017.**
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.**
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.**

1.1.2.3 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 were completed 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 had insufficient flows to justify the cost of

renovation and upgrading for future requirements and was retired when the RMAP2 projects at the South WWTP were completed. Flows predicted for the current central service area were diverted to the South WWTP and adjustments were 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 included 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 included influent pumping, and screening and grit removal for a predicted flow of 345 million gallons per day (MGD). Phase 1 also included 66 million gallons of equalization storage at the South WWTP.
- Phase 2 Improvements at the South WWTP included wet weather flow treatment with a peak capacity of 205 MGD (as previously approved in the November 2006 RMAP2).

In addition, there were 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.

- North – 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 completed. The details of the wastewater treatment and storage projects are listed in Table 4 below and are current.

Table 4. EPA Consent Decree RMAP2 Milestones for Category 3 Projects

	33% Milestone	66% Milestone	100% Milestone	Project Status Summaries
Milestone Date	**1st QTR 2013**	**2nd QTR 2015**	**4th QTR 2018**	
Construction Status	**Functionally Complete***	**Functionally Complete***	**Functionally Complete***	
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.**

*A project is deemed "Functionally Complete" when a project has been constructed in accordance with the engineering and operation specifications and has been tested to function as required. The definition functionally complete may or may not mean that the asset has been put into service as designed. Further definition can be found within Quarterly Report #56.

1.1.3 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 (WWTPs), 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, WWTPs, and storage facilities. Specifically included in this group of projects are both the SCADA Project and the Standby Power Program, which 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 completed project statuses are provided in Table 5.

As mentioned in the 2017 Annual Report, the North WWTP improvements project was 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, all of which are completed, 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	Complete	Complete	**Project completed – 4th quarter 2018.**
NWWTP Standby Generator Project	Complete	Complete	**Project completed – 4th quarter 2018.**
NWWTP Pretreatment & Grit Removal Rehabilitation Project	Complete	Complete	**Project completed – 4th quarter 2018.**
NWWTP General Electrical Rehabilitation Project	Complete	Complete	**Project completed – 4th quarter 2018.**
NWWTP Odor Control & Sodium Hypochlorite Project	Complete	Complete	**Project completed – 4th quarter 2018.**
North WWTP Sustainability Improvements Project	Complete	Complete	**Project completed – 3rd quarter 2018.**
NWWTP Master Plan Project #3 (Public Project) – Plant Buffer	Complete	Complete	**Project completed – 3rd quarter 2018.**
SWWTP Wet Weather Improvements – Phase II (Master Plan portion)	Complete	Complete	**Project completed – 2nd quarter 2015.**
Sewer System and WWTP Stand-by Power Program	Complete	Complete	**Project completed – 4th quarter 2018.**
SCADA (Collection System, Operations Data and Control Center)	Complete	Complete	**Project completed – 4th quarter 2018.**
Environmental Services Facility	Complete	Complete	**Project completed – 2nd quarter 2017.** (DES consolidated staff into one facility to facilitate communications and operations.)
NWWTP Odor Control Project	Complete	Complete	**Project completed – 4th quarter 2010.**
Comite –Foster Road Sewer Area Upgrades - Phase II	Complete	Complete	**Project completed – 1st quarter 2011.**
Zachary Area Transmission Network Improvements Phase V – Zachary Improvements	Complete	Complete	Project moved into RMAP2. See Table 5 for project status update
South Boulevard – Saint Joseph Street Phase B	Complete	Complete	Project moved into RMAP2. See Table 5 for project status update

Table 5. Proposed Schedule for Projects Outside of Consent Decree

	Scheduled Start	Scheduled Finish	Project Status Summary
Central WWTP Decommissioning Project	Complete	Complete	**Project completed – 2nd quarter 2017.** **(Central WWTP decommissioned 3rd quarter 2016; permit discontinued 2nd quarter 2017.)**
Ward Creek Aerial Crossing Replacement Emergency Project	Complete	Complete	**Project completed – 3rd quarter 2015.**
South Basin Coordination Project	Complete	Complete	**Project completed – 4th quarter 2016.**
South WWTP Landscape Buffer Area	Complete	Complete	**Project completed – 2nd quarter 2016.**

1.1.4 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 and South WWTP collection systems. The City/Parish spent approximately $10.2 million; therefore, this goal was exceeded during 2023. 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 2023 to meet this requirement.

Table 6. I/I Reduction Activities Summary

Project	Description	% Complete	Contract Amount	Expenditures 2023
20-PN-MS-0087/ 23-PN-MS-0011	Annual Supplemental Point Repair	79%	$1,500,000.00	$1,178,896.37
19-PI-MS-0003	Sanitary Sewer Cleaning and Physical Inspection	100%	$4,750,000.00	$4,750,000.00
20-PN-MS-0088/ 23PN-MS-0010	Annual Sewer Repair and Replacement Project	88%	$1,500,000.00	$1,325,235.85
22-MH-UF-0012	Parish-wide Manhole Rehab	116%	$1,500,000.00	$1,745,698.30
19-ER-WC-0006/ 22-ER-WC-0009	Parish-wide Sewer Emergency Point Repairs	64.85%	$2,000,000.00	$1,275,650.43
		TOTAL	**$11,250,000.00**	**$10,275,480.95**

1.2 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.) s*igned in April 2009.

The City/Parish typically submits Municipal Water Pollution Prevention (MWPP) Environmental Audit Reports for the North and South 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 and South 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.

1.3 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. In accordance with the Consent Decree Exhibit G, the City/Parish also completed Phase II Monitoring as of December 31, 2021. The City/Parish completed the six (6) quarterly sampling events during the eight (8) quarters immediately after the completion of the RMAP construction projects.

1.4 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.

Effluent limits of 85% removal of BOD and TSS have been in effect following the completion of all RMAP construction projects in December 2018.

1.4.1 North WWTP

During 2023, the North WWTP has been in compliance with the 85% effluent limits for BOD for 0 months and for TSS for 5 months of the reporting period, as shown in Table 7a.

Table 7a. 2023 Monthly Average Percent Removal for North Plant- **LA0036439**

	Jan.	**Feb.**	**Mar.**	**Apr.**	**May**	**June**	**July**	**Aug.**	**Sept.**	**Oct.**	**Nov.**	**Dec.**
BOD	73	60	77	81	70	67	81	77	72	81	81	83
TSS	76	82	C	79	84	C	C	83	77	C	C	79

1.4.2 Central WWTP

The Central WWTP had no discharge and the LPDES permit was terminated by LDEQ in July 2017.

1.4.3 South WWTP

During 2023, the South WWTP has been in compliance with the 85% effluent limits for BOD for 11 months and for TSS for 11 months of the reporting period, as shown in Table 7b.

Table 7b. 2023 Monthly Average Percent Removal for South Plant- **LA0036412**												
	Jan.	**Feb.**	**Mar.**	**Apr.**	**May**	**June**	**July**	**Aug.**	**Sept.**	**Oct.**	**Nov.**	**Dec.**
BOD	C	84	C	C	C	C	C	C	C	C	C	C
TSS	C	C	C	C	C	C	C	C	C	C	C	83

1.5 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://brprojects.com/baton-rouge-sso-program/ 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.

SSO program communications continued 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.

DES continued the “Cap the Cleanout” campaign throughout the City-Parish. This effort includes representatives of DES going door to door to inspect and investigate open and damaged cleanouts throughout the City-Parish, mostly in high I/I Pump Station Basins. Within this effort, cleanout caps are being placed on the defective cleanouts, or repairs are being ordered to remediate the issue. Through this inspection process, when a defective cleanout is found on the private side, the homeowner receives a letter stating the impacts of open cleanouts to the sanitary sewer system, and the importance of repairing the damaged cleanout.

In January, DES and its representatives participated in a Dr. Martin Luther King, Jr. Day of Service Community Clean-up alongside District 6 Metro Councilman Cleve Dunn, Jr. The team worked a 6-block area, picking up trash and tires, and engaging with residents on the wastewater, solid waste, and recycling departments.

DES and its representatives have continued to work alongside homeowners as illicit connections to the sewer system are located through investigations. It is the City-Parish’s intent to adhere to the requirements of the Consent Decree and eliminate all openings allow stormwater into the system. When the burden falls on the homeowner to repair the

openings, the City-Parish offers guidance and information on best practices to complete the work using formal letters and communications over the phone.

Additional outreach efforts included:

- Developed and finalized social media graphics focused on fats, oils, and grease (FOG) awareness and ways for residents to help prevent sanitary sewer overflows.
- Ran educational billboard campaign informing residents of proper FOG practices at five hot spot locations throughout the parish.
- Met with local news station WAFB Channel 9 to discuss opportunities to elevate departmental community updates and engagement through WAFB digital and social platforms.
- Developed comprehensive media outreach and social media calendar for Fall 2023 Household Hazardous Materials Collection Day, including radio and TV script development, social media content calendar development, radio advertisement production coordination, and press release development.

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.

1.6 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.

1.7 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 2023 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	$729,500	$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 2023

Stipulated Penalties	Number	Cost Per Occurrence	Amount Accrued
Cross-Connection Identified & Non-Compliance with the Cross-Connection Elimination Plan	0	$2,000 per day	$0
Unauthorized Discharges 2023			
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	5	$5,000	$25,000
Non-Compliant Discharges (WWTP) 2023			
Weekly Average Limits	2	$1,000	$2,000
Monthly (30-day average) Limits	22	$2,500	$55,000
Daily Limits	0	$1,000	$0
2022 Total Stipulated Penalties (through December 31, 2023)			**$82,000**

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.

2022 Annual Report Attachment A

Municipal Water Pollution Prevention
Environmental Audit Reports

LOUISIANA

MUNICIPAL WATER POLLUTION PREVENTION

MWPP

Facility Name:	City of Baton Rouge / Parish of East Baton Rouge / South Wastewater Treatment Plant
LPDES Permit Number:	LA0036412
Agency Interest (AI) Number:	4841
Address:	2850 Gardere Lane
	Baton Rouge, LA 70820
Parish:	East Baton Rouge
(Person Completing Form) Name:	Department of Environmental Services Staff
Title:	Inclusive
Date Completed:	November 17, 2022

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 <u>specific</u> 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)
59.67	x	110	x 8.34 =	54,741
46.01	x	121	x 8.34 =	46,430
37.50	x	141	x 8.34 =	44,098
44.52	x	135	x 8.34 =	50,125
40.63	x	143	x 8.34 =	48,456
44.00	x	148	x 8.34 =	54,310
43.57	x	135	x 8.34 =	49,055
45.94	x	129	x 8.34 =	49,425
45.91	x	107	x 8.34 =	40,969
41.93	x	118	x 8.34 =	41,264
50.65	x	98	x 8.34 =	41,397
56.59	x	93	x 8.34 =	43,892

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:	58	x 0.90 =	52.20
Design BOD, lb/day:	100,129	x 0.90 =	90,116

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 [0] 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 [5] 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 [0] 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 [0] 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: [5] (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)
SEPTEMBER	12	18
OCTOBER	14	15
NOVEMBER	10	12
DECEMBER	9	15
JANUARY	12	20
FEBRUARY	9	13
MARCH	12	18
APRIL	11	19
MAY	20	23
JUNE	19	17
JULY	13	23
AUGUST	13	21

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 #: 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.

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 [0] 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 [0] 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 [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.

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 [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: [0] (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 and 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:*

TRC:

01-23-2022 1.18 mg/L

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 Attachment 1 & 2

D. Other Monitoring and Limitations
iii.

SWWTP - LA0036412 ***(Influent)****

Sample Date	Pollutant	Reporting Value	Actual Value
10/18-19/2021	Copper	3 µg/L	20 µg/L
	Zinc	20 µg/L	64 µg/L
	Phenolics	5 µg/L	143 µg/L
	Mercury	0.0005 µg/L	0.0147 µg/L

***1/6 months**

SWWTP - LA0036412 ***(Effluent)****

Sample Date	Pollutant	Reporting Value	Actual Value
10/19-20/2021	Mercury	0.0005 µg/L	0.0065 µg/L
	Copper	3 µg/L	11 µg/L
	Zinc	20 µg/L	38 µg/L
	Phenolics	5 µg/L	12 µg/L

***1/6 months**

D. Other Monitoring and Limitations
iii.

SWWTP - LA0036412 ***(Influent)****

Sample Date	Pollutant	Reporting Value	Actual Value
04/27-28/2022	Copper	3 µg/L	16 µg/L
	Mercury	0.0005 µg/L	0.0195 µg/L
	Phenolics	5 µg/L	40 µg/L
	Zinc	20 µg/L	53 µg/L

***1/6 months**

SWWTP - LA0036421 ***(Effluent)****

Sample Date	Pollutant	Reporting Value	Actual Value
04/26-27/2022	Copper	3 µg/L	6 µg/L
	Mercury	0.0005 µg/L	0.0056 µg/L
	Cyanide	10 µg/L	25.9 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?

2015

Current Year	-	*Answer to A*	=	*Age in years*
2022		2015		7

Enter Age in Part C below.

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

		FACTOR:
√	Mechanical Treatment Plant (trickling filter, activated sludge, etc…) Specify Type: Trickling Filter and Activated Sludge	(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 =

2.5	x	7	=	17.5 (max = 50)
Factor		*Age*		

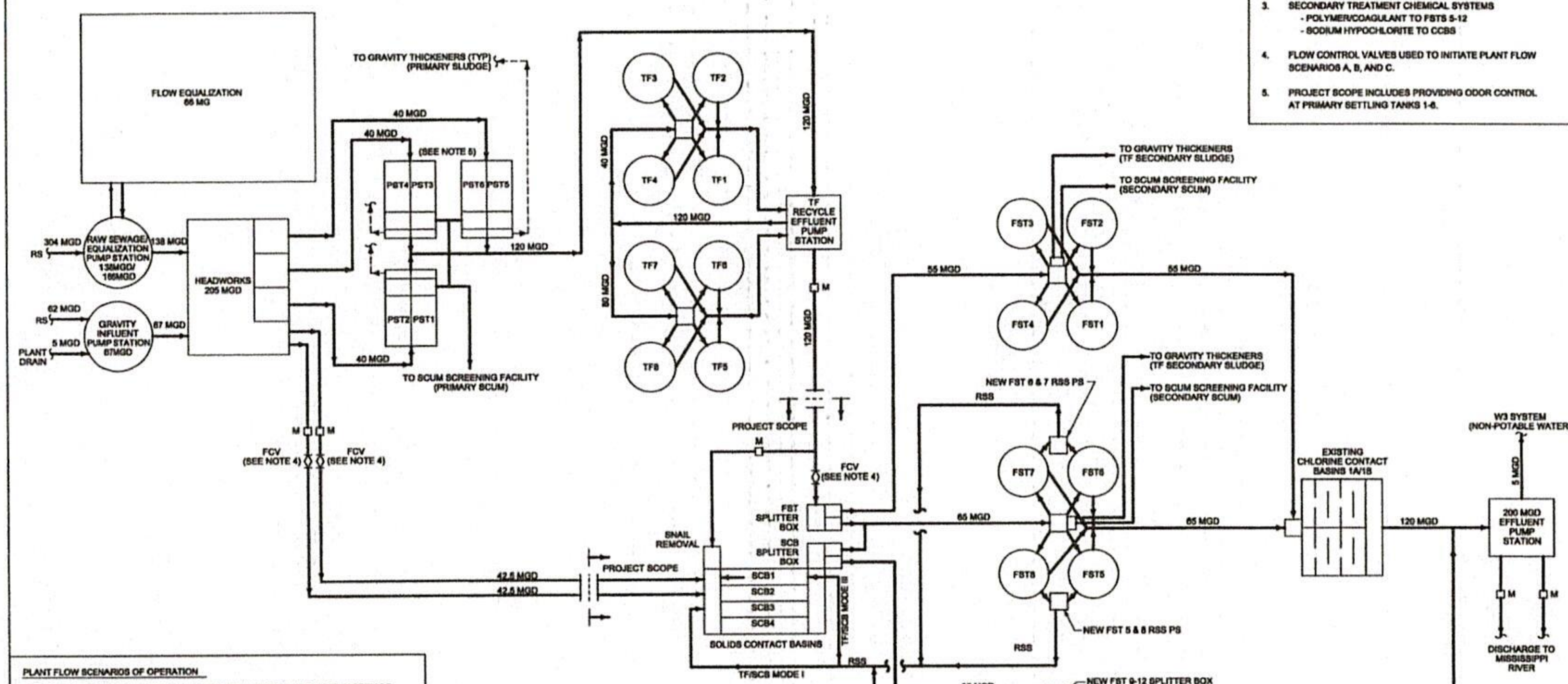
Also enter this value or 50, whichever is less, on the point calculation table on page 16.

D. Please attach a schematic of the treatment plant.

* See attachment

GENERAL SHEET NOTES

1. FLOW VALUES SHOWN REPRESENT THE MAXIMUM FLOWS TO EACH UNIT PROCESS NOT INCLUDING RSS FLOW.
2. SECONDARY TREATMENT AERATION SYSTEMS
   - SCBS AND SCB SPLITTER BOX
   - FST 9-12 SPLITTER BOX
3. SECONDARY TREATMENT CHEMICAL SYSTEMS
   - POLYMER/COAGULANT TO FSTS 5-12
   - SODIUM HYPOCHLORITE TO CCBS
4. FLOW CONTROL VALVES USED TO INITIATE PLANT FLOW SCENARIOS A, B, AND C.
5. PROJECT SCOPE INCLUDES PROVIDING ODOR CONTROL AT PRIMARY SETTLING TANKS 1-6.



PLANT FLOW SCENARIOS OF OPERATION

SCENARIO A - FLOWS 0-MGD TO 120-MGD SCB, FST 5-12, CCB1, AND CCB2 IN SERVICE
SCENARIO A' - FLOWS 0-MGD TO 150-MGD SCB, FST 5-12, CCB1, AND CCB2 IN SERVICE
SCENARIO B - FLOWS 120-MGD TO 175-MGD SCB, FST 5-12, CCB1, AND CCB2 IN SERVICE WITH SIDESTREAM FLOW FROM TRICKLING FILTER PS TO FST 1-4 THE SCB HAS PARTIAL FLOW FROM THE TF PS AND WW DIVERSION.
SCENARIO C - FLOWS 175-MGD TO 205-MGD. ALL UNITS IN SERVICE WITH 120-MGD TREATED IN PSTS, TRICKLING FILTERS, FSTS 1-8, AND CCB 1; AND WW DIVERSION FLOWS ABOVE 120-MGD FROM PRELIMINARY TREATMENT TREATED IN SCBS, FSTS 9-12, AND CCB 2.

SOLID CONTACT MODES OF OPERATION AND FLOWS

THE PLANT IS DESIGNED WITH MODE III AS ITS PRIMARY OPERATING MODE. MODE I CAN BE ACCOMPLISHED BY MANUALLY ADJUSTED GATES. THERE IS NO MODE II OPERATING SCHEME.

MODE I - ALL FOUR SCB ARE OPERATING IN PARALLEL. AND RSS FLOW IS CONVEYED TO SNAIL SCREEN EFFLUENT BOX.

MODE III - FLOW IS REVERSED IN SCB NO. 1 SO THAT IT OPERATES AS A REAERATION BASIN FOR RSS FLOWS. RSS FLOWS PASS THROUGH THE LENGTH OF SCB NO. 1 BEFORE MIXING WITH SCB INFLUENT FLOWS IN THE SCB INFLUENT CHANNEL AND THEN PASSING THROUGH SCBS NOS. 2, 3, AND 4, WHICH OPERATE IN PARALLEL. MODE III IS THE DEFAULT OPERATING MODE FOR THE FACILITY.

LEGEND

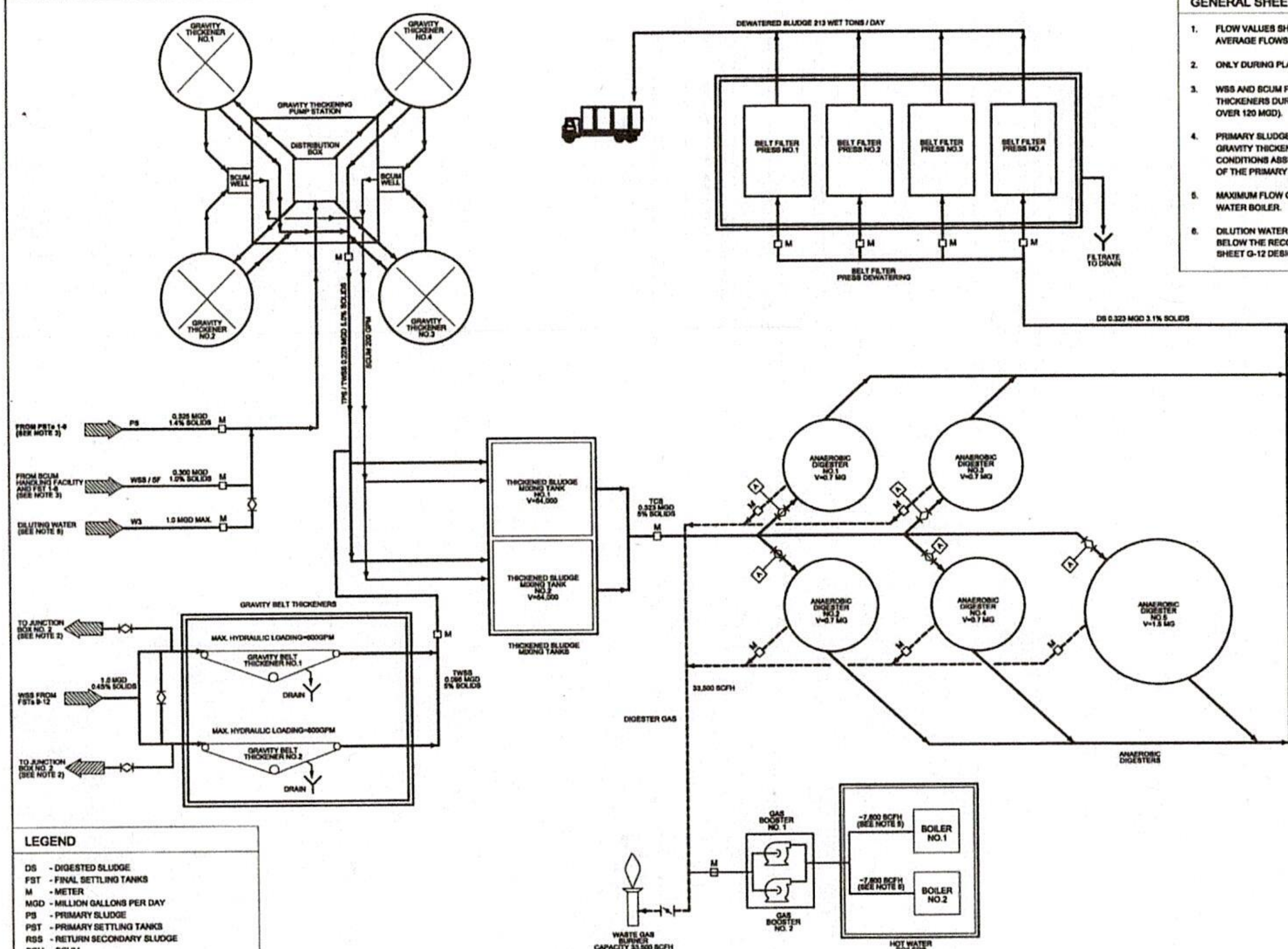
CCB - CHLORIDE CONTACT BASIN
FCV - FLOW CONTROL VALVE
FST - FINAL SETTLING TANKS
M - METER
MGD - MILLION GALLONS PER DAY
PS - PUMP STATION
PST - PRIMARY SETTLING TANKS
RSS - RETURN SECONDARY SLUDGE
SCB - SOLIDS CONTACT BASIN
TF - TRICKLING FILTERS
TFE - TF EFFLUENT
WSS - WASTE SECONDARY SLUDGE

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

EAST BATON ROUGE SOUTH WWTP
WET WEATHER IMPROVEMENTS PHASE II
LIQUID PROCESS FLOW DIAGRAM

SHEET NUMBER G-13

MWH



GENERAL SHEET NOTES

1. FLOW VALUES SHOWN REPRESENT THE MAXIMUM MONTHLY DAILY AVERAGE FLOWS AND AVERAGE CONCENTRATIONS.
2. ONLY DURING PLANT FLOWS OVER 120 MGD.
3. WSS AND SCUM FILTRATE WILL ONLY ENTER THE GRAVITY THICKENERS DURING PEAK FLOW SCENARIOS (PLANT FLOWS OVER 120 MGD).
4. PRIMARY SLUDGE FLOW AND SOLIDS CONCENTRATION TO GRAVITY THICKENERS WAS PROVIDED BY CH2MHILL. THESE CONDITIONS ASSUME FERRIC CHLORIDE ADDITION UPSTREAM OF THE PRIMARY SETTLING TANKS.
5. MAXIMUM FLOW OF DIGESTER GAS REQUIRED PER HOT WATER BOILER.
6. DILUTION WATER REQUIRED WHEN HYDRAULIC LOADING IS BELOW THE RECOMMENDED CONDITIONS (REFER TO SHEET G-12 DESIGN CRITERIA).

LEGEND

- DS - DIGESTED SLUDGE
- FST - FINAL SETTLING TANKS
- M - METER
- MGD - MILLION GALLONS PER DAY
- PS - PRIMARY SLUDGE
- PST - PRIMARY SETTLING TANKS
- RSS - RETURN SECONDARY SLUDGE
- SCM - SCUM
- SF - SCUM FILTRATE
- TCS - THICKENED COMBINED SLUDGE
- TPS - THICKENED PRIMARY SLUDGE
- TWSS - THICKENED WASTE SECONDARY SLUDGE
- W2 - BACKFLOW PREVENTED (NON-POTABLE WATER)
- WSS - WASTE SECONDARY SLUDGE

WARNING
0 ½ 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

SHEET NUMBER G-14

PARISH: EAST BATON ROUGE
CITY: BATON ROUGE
PROJECT: 08-TP-SD-0055

DESIGNED J. PACZIK
CHECKED J. COLENDO
DETAILED M. SAMARTE
CHECKED B. BELLS
DATE MARCH 2011

0 MARCH 2011 ISSUED FOR BID

EAST BATON ROUGE SOUTH WWTP
WET WEATHER IMPROVEMENTS PHASE II

SOLIDS PROCESS FLOW DIAGRAM

MWH

Plot Date: 28-JUL-2011 11:42

Permit #: LA0036412

PART 4: OVERFLOWS AND BYPASSES

A.

i. List the number of times in the last year there was an overflow, bypass or unpermitted discharge of untreated or incompletely treated wastewater due to heavy rain:

10 √ Check one box.

- ☐ 0 = 0 points
- ☐ 1 = 5 points
- ☐ 2 = 10 points
- ☐ 3 = 15 points
- ☐ 4 = 30 points
- ☑ 5 or more = 50 points

ii. List the number of bypasses, overflows or unpermitted discharges shown in A (i) that were within the collection system and the number at the treatment plant

Collection System: 8 Treatment Plant: 2

B.

i. List the number of times in the last year there was an overflow, bypass or unpermitted discharge of untreated or incompletely treated wastewater due to equipment failure, either at the treatment plant or due to pumping problems in the collection system:

218 √ Check one box.

- ☐ 0 = 0 points
- ☐ 1 = 5 points
- ☐ 2 = 10 points
- ☐ 3 = 15 points
- ☐ 4 = 30 points
- ☑ 5 or more = 50 points

ii. List the number of bypasses, overflows or unpermitted discharges shown in B (i) that were within the collection system and the number at the treatment plant

Collection System: 214 Treatment Plant: 4

C. Specify whether the bypasses came from the city/village/town sewer system or from contract or tributary communities/sanitary districts, etc…

D. Add the point values checked for A and B and place the total in the box below.

TOTAL POINT VALUE FOR PART 4: 100 (max = 100)

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

E. List the person responsible (name and title) for reporting overflows, bypasses or unpermitted discharges to State and Federal authorities:

Michael Lowe, Wastewater Laboratory Supervisor

Describe the procedure for gathering, compiling and reporting:

The procedure for gathering, compiling, and reporting is specified in the permit.

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.

months	(<2)	2	3	4-5	6
points	(50)	30	20	10	0

Write 0, 10, 20, 30 or 50 in the A point total box [50] 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.

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

Write 0, 10, 20, 30 or 50 in the B point total box [0] 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: [50] (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: 3,585 cap

Design Flow: 1.68 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 #: LA0036412

PART 7: OPERATOR CERTIFICATION AND EDUCATION

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

Name: Gregory Lewis

B. What is his or her certification number:

Cert.#: 11419

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. [X] Yes = 0 points [ ] No = 50 points

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

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

√ Check one box. [X] Yes [ ] No

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

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

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

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

√ Check one box. [X] 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: [0] (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 past sewer construction needs through the issuance of sewer revenue bonds and pay-as-you-go money. Pay-as-you-go money will be used in the foreseeable future.

Permit #: LA0036412

PART 9: SUBJECTIVE EVALUATION

A. Collection System Maintenance

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

See attachment

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

See attachment

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

See attachment

B. If you have ponds please answer the following questions: √ Check one box.

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

LA0036412 SOUTH WASTEWATER PLANT BASIN
MONITORING PERIOD - September 1, 2021 thru August 31, 2022
LA MWPP Environmental Audit Part 9:

Subjective Evaluation

A1. The City-Parish has continued an aggressive physical inspection and preventative maintenance program on the sewer system. Currently, the City-Parish is on an approximate 8-year rotation for the physical inspection of the collection system, which includes, pipeline cleaning, televising, and smoke testing, and manhole inspection. Additionally, the City-Parish has implemented a grease and root treatment for areas subject to dense tree canopy and high-impact fats, oils and grease (FOG) contributors.

Additionally, the City-Parish maintains multiple annual contracts to complete point repairs, emergency point repairs, manhole rehabilitation, valve maintenance and remove and replace for existing pipelines. A summary of the activities is included in the table below.

Gravity Collection System	SEPT. 2021	Q4 2021	Q1 2022	Q2 2022	JUL/AUG 2022	Total
Lines Cleaned (ft)	16,703	42,698	117,581	104,978	19,770	301,730
CCTV Inspected (ft)	39,922	69,769	101,955	83,432	48,895	343,973
Smoke Tested (ft)	4,800	64,330	14,400	6,900	4,500	94,930
Smoke Tested (no. of locations)	16	58	48	23	15	160
Dye Water Flooded (no. of locations)	21	62	84	110	107	384
Manholes Inspected (no.)	43	69	63	110	103	388
Lines Repaired (no.)	103	140	125	90	53	511
Manholes Rehabilitated (no.)	156	414	319	163	79	1,131
Force Mains						
Visual Surface Inspection (Miles)	5.6	0	0	11	0	17
Repaired (no.)	0	2	0	1	0	3
Air Release Valves						
Inspected / Maintained	28	55	65	55	28	231
Repaired (no.)	17	22	15	21	5	80

A2. The City-Parish maintains a routine pump station preventative maintenance and reactive maintenance program. The pump station staff and contractors are responsible for visits to pump stations for general observations and preventative maintenance and completing repairs to pump stations, identified through site visits, SCADA, and/or public notifications. A summary of the activities is included in the table below.

Pump & Lift Stations	SEPT. 2021	Q4 2021	Q1 2022	Q2 2022	JUL/AUG 2022	Total
Inspections (no.)	341	1143	2013	1783	1341	6280
Wet Wells Cleaned	25	129	117	147	99	492
Repaired (no.)	11	11	13	28	14	66

A3. The City-Parish recently completed a $1.25 billion capital improvements program to improve conveyance, pumping, and treatment capacities and rehabilitate existing system assets.

The City-Parish continues planning, engineering, and construction efforts to continually improve system operation and efficiency. This includes routine collection system rehabilitation through the point repairs, cured-in-place pipe lining, and remove and replace of existing damage pipelines. Additionally, multiple projects are ongoing, in either planning, design, or construction to rehabilitate, improve capacity, and/or expand the collection system. This includes the lining of critical large diameter gravity pipeline infrastructure, improvement to multiple pump stations, the installation of gravity systems to collect septic effluent, and the expansion of the system to accommodate critical healthcare infrastructure.

The City-Parish has begun the prioritizing and planning of a 1-year and 5-year CIP in the to address infrastructure not addressed in other capital projects.

Permit #: LA0036412

C. Treatment Plants

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

☑ Yes ☐ No (√ Check one box.)

03-03-2022	03-03-2022
Influent flow meter calibration date(s)	*Effluent flow meter calibration date(s)*

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

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

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

Permit #: LA0036412

D. Preventive Maintenance

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

√ Check one box. [X] 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 computer program manages the preventive maintenance of plant equipment.

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

[X] 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?

[X] 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. [X] 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. 16120) limits the discharge of heavy metals, chemical and toxic substances.

ii. Has it been necessary to enforce?

√ Check one box. [X] 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: *Influent Flow/Loadings*	5	80 points
Part 2: *Effluent Quality / Plant Performance*	0	100 points
Part 3: *Age of WWTF*	17.5	50 points
Part 4: *Overflows and Bypasses*	100	100 points
Part 5: *Ultimate Disposition of Sludge*	50	100 points
Part 6: *New Development*	0	30 points
Part 7: *Operator Certification Training*	0	100 points

TOTAL POINTS: 172.5

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 Metropolitan Council (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 0036412 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 _____ on _____ (date).

_____

_____

CLERK

LOUISIANA

MUNICIPAL WATER POLLUTION PREVENTION

MWPP

Facility Name:	City of Baton Rouge / Parish of East Baton Rouge / North Wastewater Treatment Plant
LPDES Permit Number:	LA0036439
Agency Interest (AI) Number:	4843
Address:	50 Woodpecker Street
	Baton Rouge, LA 70807
Parish:	East Baton Rouge
(Person Completing Form) Name:	Department of Environmental Services Staff
Title:	Inclusive
Date Completed:	November 17, 2022

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 <u>specific</u> 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.

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)
22.87	x	71	x 8.34 =	13,542
13.51	x	98	x 8.34 =	11,042
10.03	x	103	x 8.34 =	8,616
15.01	x	106	x 8.34 =	13,269
14.68	x	89	x 8.34 =	10,896
14.65	x	98	x 8.34 =	11,974
14.10	x	84	x 8.34 =	9,878
19.27	x	88	x 8.34 =	14,143
14.77	x	72	x 8.34 =	8,869
11.92	x	76	x 8.34 =	7,555
18.39	x	53	x 8.34 =	8,129
26.60	x	38	x 8.34 =	8,430

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 [0] 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 [0] 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 [0] 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 [0] 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: [0] (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)
SEPTEMBER	19	17
OCTOBER	18	12
NOVEMBER	18	11
DECEMBER	21	16
JANUARY	21	12
FEBRUARY	25	12
MARCH	24	14
APRIL	25	19
MAY	26	16
JUNE	27	13
JULY	20	16
AUGUST	16	14

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 [0] 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 [0] 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 [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.

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 [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: [0] (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 and 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 Attachment 1 & 2

D. Other Monitoring and Limitations
iii.

NWWTP - LA0036439 ***(Influent)****

Sample Date	Pollutant	Reporting Value	Actual Value
10/25-26/2021	Mercury	0.0005 µg/L	8.7 µg/L
	Copper	3 µg/L	10 µg/L
	Phenolics	5 µg/L	40 µg/L
	Zinc	20 µg/L	47 µg/L

***1/6 months**

NWWTP - LA0036439 ***(Effluent)****

Sample Date	Pollutant	Reporting Value	Actual Value
10/19-20/2021	Copper	3 µg/L	8 µg/L
	Arsenic	5 µg/L	7.49 µg/L
	Mercury	0.0005 µg/L	0.0056 µg/L
	Selenium	5 µg/L	7.41 µg/L
	Phenolics	5 µg/L	14 µg/L

***1/6 months**

D. Other Monitoring and Limitations
iii.

NWWTP - LA0036439 ***(Influent)****

Sample Date	Pollutant	Reporting Value	Actual Value
04/27-28/2022	Copper	3 µg/L	18 µg/L
	Phenolics	5 µg/L	190 µg/L
	Zinc	20 µg/L	89 µg/L
	Mercury	0.0005 µg/L	0.0308 µg/L
	Nickel	5 µg/L	10 µg/L

***1/6 months**

NWWTP – LA0036439 ***(Effluent)****

Sample Date	Pollutant	Reporting Value	Actual Value
04/26-27/2022	Copper	3 µg/L	7 µg/L
	Zinc	20 µg/L	28 µg/L
	Cyanide	10 µg/L	19.6 µg/L
	Mercury	0.0005 µg/L	0.0082 µg/L
	Phenolics	5 µg/L	14 µg/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?

2018

Current Year	-	*Answer to A*	=	*Age in years*
2022		2018		4

Enter Age in Part C below.

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

		FACTOR:
✓	Mechanical Treatment Plant (trickling filter, activated sludge, etc…) Specify Type: Trickling Filter	(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.

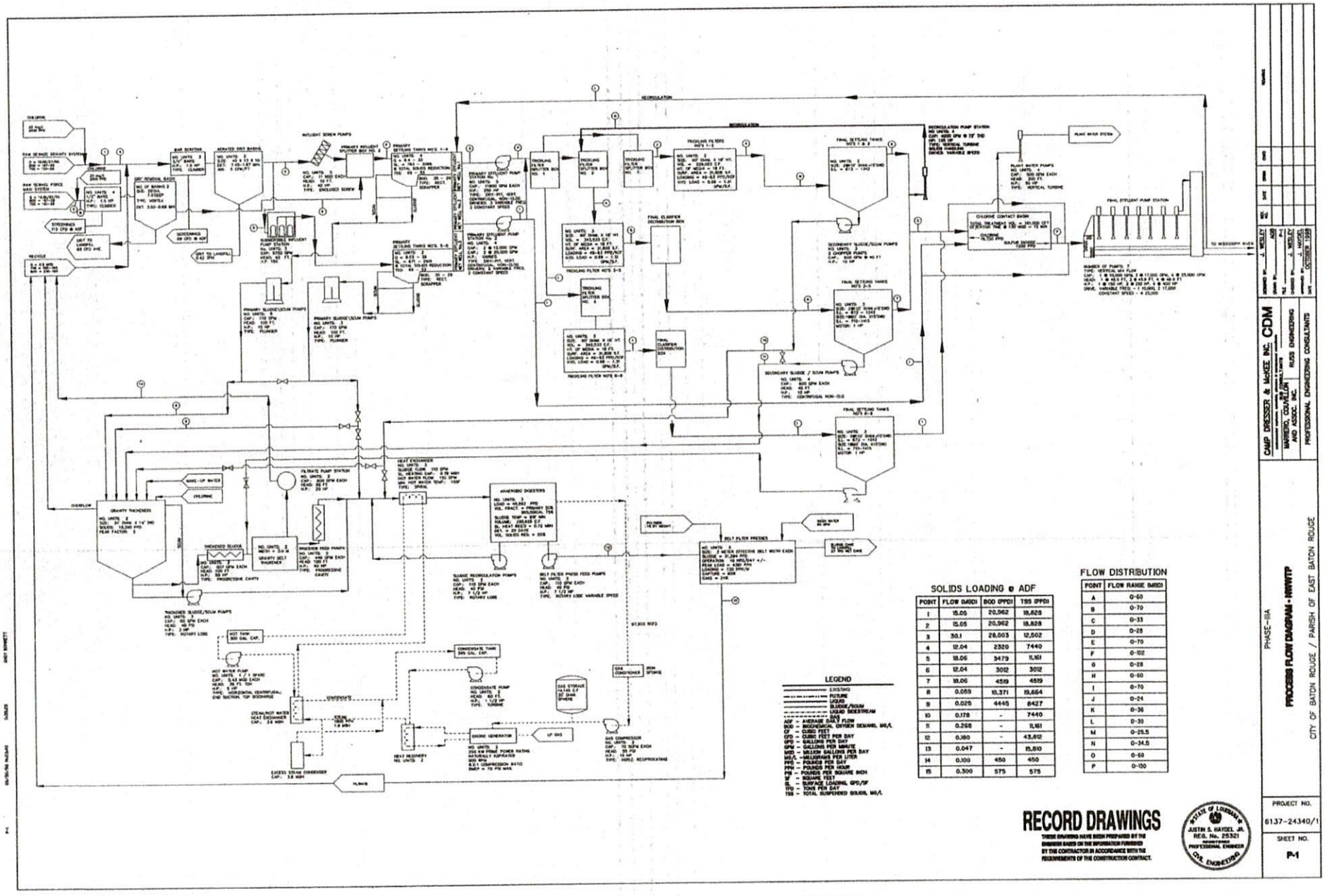
TOTAL POINT VALUE FOR PART 3 =

2.5 (*Factor*) x 4 (*Age*) = [10] (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



SOLIDS LOADING @ ADF

POINT	FLOW (MGD)	BOD (PPD)	TSS (PPD)
1	15.05	20,962	18,629
2	15.05	20,962	18,629
3	30.1	28,003	12,502
4	12.04	2320	7440
5	18.06	3479	11,161
6	12.04	3012	3012
7	18.06	459	459
8	0.059	10,371	19,664
9	0.025	4445	8427
10	0.178	-	7440
11	0.268	-	11,161
12	0.380	-	43,612
13	0.047	-	15,810
14	0.100	450	450
15	0.300	575	575

FLOW DISTRIBUTION

POINT	FLOW RANGE (MGD)
A	0-60
B	0-70
C	0-33
D	0-28
E	0-70
F	0-102
G	0-28
H	0-60
I	0-70
J	0-24
K	0-36
L	0-30
M	0-25.5
N	0-34.5
O	0-60
P	0-130

RECORD DRAWINGS

THESE DRAWINGS HAVE BEEN PREPARED BY THE DIVISION BASED ON THE INFORMATION FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONSTRUCTION CONTRACT.

AUSTIN S. HAYDEL JR. REG. No. 25321 PROFESSIONAL ENGINEER CIVIL ENGINEERING

CAMP DRESSER & McKEE INC. CDM
MARRERO, LOUISIANA
RUSS ENGINEERING AND ASSOC. INC.
PROFESSIONAL ENGINEERING CONSULTANTS

PHASE-IIIA

PROCESS FLOW DIAGRAM - MWWTP

CITY OF BATON ROUGE / PARISH OF EAST BATON ROUGE

PROJECT NO. 6137-24340/1

SHEET NO. P-1

Permit #: LA0036439

PART 4: OVERFLOWS AND BYPASSES

A.

i. List the number of times in the last year there was an overflow, bypass or unpermitted discharge of untreated or incompletely treated wastewater due to heavy rain:

7 √ Check one box.

- ☐ 0 = 0 points
- ☐ 1 = 5 points
- ☐ 2 = 10 points
- ☐ 3 = 15 points
- ☐ 4 = 30 points
- ☑ 5 or more = 50 points

ii. List the number of bypasses, overflows or unpermitted discharges shown in A (i) that were within the collection system and the number at the treatment plant

Collection System: 6 Treatment Plant: 1

B.

i. List the number of times in the last year there was an overflow, bypass or unpermitted discharge of untreated or incompletely treated wastewater due to equipment failure, either at the treatment plant or due to pumping problems in the collection system:

76 √ Check one box.

- ☐ 0 = 0 points
- ☐ 1 = 5 points
- ☐ 2 = 10 points
- ☐ 3 = 15 points
- ☐ 4 = 30 points
- ☑ 5 or more = 50 points

ii. List the number of bypasses, overflows or unpermitted discharges shown in B (i) that were within the collection system and the number at the treatment plant

Collection System: 76 Treatment Plant: 0

C. Specify whether the bypasses came from the city/village/town sewer system or from contract or tributary communities/sanitary districts, etc…

D. Add the point values checked for A and B and place the total in the box below.

TOTAL POINT VALUE FOR PART 4: 100 (max = 100)

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

E. List the person responsible (name and title) for reporting overflows, bypasses or unpermitted discharges to State and Federal authorities:

Michael Lowe, Wastewater Laboratory Supervisor

Describe the procedure for gathering, compiling and reporting:

The procedure for gathering, compiling, and reporting is specified in the permit.

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.

months	(<2)	2	3	4-5	6
points	(50)	30	20	10	0

Write 0, 10, 20, 30 or 50 in the A point total box [50] 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.

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

Write 0, 10, 20, 30 or 50 in the B point total box [0] 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: [50] (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: 1,508 cap

Design Flow: 0.65 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.

NWWTP LA0036439 09/01/2021 to 08/31/2022							
Project Name	Project Number	# of Lots	Pipe Length	Date of Final Inspection	Design Pop.	Flow (gpm)	Flow (MGD)
Miraval 1st Filing, Phase B	SD-2019-941	61	2,069	1/28/2022	244	75	0.11
Lake Haven	SD-2020-1172	167	5957	3/4/2022	668	199	0.29
Cheval Trails	n/a	141	2,443	6/2/2022	564	169	0.24
Satinwood Grove	n/a	8	480	7/30/2022	32	10	0.01
Total					1,508		0.65

SWWTP LA0036412 09/01/2021 to 08/31/2022							
Project Name	Project Number	# of Lots	Pipe Length	Date of Final Inspection	Design Pop.	Flow (gpm)	Flow (MGD)
Cottages at O'Neal	SD-2020-1239	62	1934	9/22/2021	248	76	0.11
Fieldstone Dr - South BR Distribution Center (Amazon)	SD-2020-1156	1	1,175	9/29/2021	0	8	0.01
Lake Villas Crossing	SD-2020-1326	44	642	10/12/2021	176	55	0.08
Dawson Bluff Townhomes, 1st Filing (The Grove)	SD-2020-1240	51	1246.82	10/13/2021	204	63	0.09
Inniswold Park	SD-2021-1373	9	704	10/15/2021	36	11	0.02
Woodstock Park, 1st filing, Phase B	SD-2019-1126	42	1,240	11/19/2021	168	52	0.08
Burbank Parc	SD-2021-1406	37	739	12/22/2021	148	46	0.07
Dawson Park Sewer Extension (Private FM for temp sewer)	SD-2020-1187	1	0	1/20/2022	0	2	0.00
Lexington Estates 4th Filing Part 2	SD-2019-1103	23	1923	1/25/2022	92	29	0.04
Chapel Hill	SD-2020-1268	46	940	2/22/2022	184	57	0.08
Waters Edge at Lexington, 1st Filing	SD-2020-1212	89	2270	2/24/2022	356	108	0.16
Heron Pointe	SD-2021-1343	53	2247	3/8/2022	212	65	0.09
Bellegrove Square	SD-2019-1124	118	4382	3/25/2022	472	142	0.21
Highcroft Townhomes	SD-2021-1418	44	1518	4/7/2022	176	55	0.08
Woman's Child Development Sewer Extension	SD-2019-972	1	323	4/15/2022	0	9	0.01
Andy's Frozen Custard SS Extension + Highland Rd @ Old Perkins Sewer Extension	SD-2021-1842	6	1,193	4/25/2022	0	7	0.01
Gulf Union Property SS Extension (Lewis Property @ Burbank Regional PS)	SD-2021-1818	5	1,149	6/7/2022	169	107	0.15
University Club Plantation, 11th Filing, Phase 3	SD-2020-1222	21	942	6/9/2022	84	26	0.04
Pointe-Marie Phase 1, Part 2	SD-2021-1365	16	1050	6/10/2022	64	20	0.03
Bellacosa, 4th Filing	SD-2019-1099	79	1,906	7/27/2022	316	97	0.14
Cypress at Gardere SS Extension	SD-2020-1241	2	457	7/29/2022	188	41	0.06
Pelican Lakes Phase 5A	SD-2021-1520	73	1939	8/18/2022	292	89	0.13
Total					3,585		1.68

Permit #: LA0036439

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 [0] 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 [0] 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: [0] (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 past sewer construction needs through the issuance of sewer revenue bonds and pay-as-you-go money. Pay-as-you-go money will be used in the foreseeable future.

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 Attachment

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

See Attachment

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

See Attachment

B. If you have ponds please answer the following questions: √ Check one box.

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

LA0036439 NORTH WASTEWATER PLANT BASIN
MONITORING PERIOD - September 1, 2021 thru August 31, 2022
LA MWPP Environmental Audit Part 9:

Subjective Evaluation

A1. The City-Parish has continued an aggressive physical inspection and preventative maintenance program on the sewer system. Currently, the City-Parish is on an approximate 8-year rotation for the physical inspection of the collection system, which includes, pipeline cleaning, televising, and smoke testing, and manhole inspection. Additionally, the City-Parish has implemented a grease and root treatment for areas subject to dense tree canopy and high-impact fats, oils and grease (FOG) contributors.

Additionally, the City-Parish maintains multiple annual contracts to complete point repairs, emergency point repairs, manhole rehabilitation, valve maintenance and remove and replace for existing pipelines. A summary of the activities is included in the table below.

Gravity Collection System	SEPT. 2021	Q4 2021	Q1 2022	Q2 2022	JUL/AUG 2022	Total
Lines Cleaned (ft)	0	19,656	1,095	11,992	4,249	36,992
CCTV Inspected (ft)	1,138	28,285	5,400	46,973	6,232	88,028
Smoke Tested (ft)	2,400	7,200	7,500	2,100	2,100	21,300
Smoke Tested (no. of locations)	8	24	25	12	7	76
Dye Water Flooded (no. of locations)	20	34	50	63	40	207
Manholes Inspected (no.)	2	9	4	64	10	89
Lines Repaired (no.)	56	11	29	38	11	145
Manholes Rehabilitated (no.)	17	147	190	45	52	451
Force Mains						
Visual Surface Inspection (Miles)	2.6	0	0	16.8	0	19
Repaired (no.)	0	0	2	0	1	3
Air Release Valves						
Inspected / Maintained	13	82	95	84	41	315
Repaired (no.)	8	33	25	31	7	104

A2. The City-Parish maintains a routine pump station preventative maintenance and reactive maintenance program. The pump station staff and contractors are responsible for visits to pump stations for general observations and preventative maintenance and completing repairs to pump stations, identified through site visits, SCADA, and/or public notifications. A summary of the activities is included in the table below.

Pump & Lift Stations	SEPT. 2021	Q4 2021	Q1 2022	Q2 2022	JUL/AUG 2022	Total
Inspections (no.)	513	1719	1141	1110	895	5378
Wet Wells Cleaned	12	71	50	65	48	246
Repaired (no.)	14	13	16	0	10	53

A3. The City-Parish recently completed a $1.25 billion capital improvements program to improve conveyance, pumping, and treatment capacities and rehabilitate existing system assets.

The City-Parish continues planning, engineering, and construction efforts to continually improve system operation and efficiency. This includes routine collection system rehabilitation through

the point repairs, cured-in-place pipe lining, and remove and replace of existing damage pipelines. Additionally, multiple projects are ongoing, in either planning, design, or construction to rehabilitate, improve capacity, and/or expand the collection system. This includes the lining of critical large diameter gravity pipeline infrastructure, improvement to multiple pump stations, the installation of gravity systems to collect septic effluent, and the expansion of the system to accommodate critical healthcare infrastructure.

The City-Parish has begun the prioritizing and planning of a 1-year and 5-year CIP in the to address infrastructure not addressed in other capital projects.

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?

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

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

Influent	Efluent
* 09-22-2021	* 09-22-2021
* 05-09-2022	* 05-09-2022

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D. Preventive Maintenance

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

√ Check one box. [X] 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 computer program manages the preventive maintenance of plant equipment.

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

[X] 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?

[X] 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. [X] 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. 16120) limits the discharge of heavy metals, chemical and toxic substances.

ii. Has it been necessary to enforce?

√ Check one box. [X] 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

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POINT CALCULATION TABLE

	Actual Values	Maximum
Part 1: *Influent Flow/Loadings*	0	80 points
Part 2: *Effluent Quality / Plant Performance*	0	100 points
Part 3: *Age of WWTF*	10	50 points
Part 4: *Overflows and Bypasses*	100	100 points
Part 5: *Ultimate Disposition of Sludge*	50	100 points
Part 6: *New Development*	0	30 points
Part 7: *Operator Certification Training*	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 Metropolitan Council (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 _____ on _____ (date).

_____

_____

CLERK