

BATON ROUGE SSO PROGRAM
2002 CONSENT DECREE



2020 ANNUAL REPORT

January 29, 2021



January 29, 2021

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, 2020

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, 2020. 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,

A handwritten signature in blue ink, appearing to read 'RWS', is written over a faint horizontal line.

Richard Speer, P.E.

Environmental Services Director

Cc: Honorable Sharon Weston-Broome, Mayor-President
Mr. Darryl Gissel, Chief Administrative Officer
Mr. Kelvin Hill, Assistant Chief Administrative Officer
Chief, Environmental Enforcement Section, US DOJ
Mr. Bobby Mayweather, LDEQ
Dr. Chuck Carr Brown, LDEQ
Ms. Mona Bates, US EPA Region 6
Mr. Carlos Zequeira, (6RC-EA)
Ms. Darlene Whitten-Hill, (6EN-WC)
Mr. Anderson Dotson, III
Mr. Bob Abbott
Mr. Adam M. Smith
Mr. Rickey P. Brouillette
Mr. Joseph Young, Jacobs
Mr. Obie Watts, Jacobs
Mr. Carlos Giron, Jacobs
Ms. Daymara Mesa, Jacobs
Ms. Cheryl Berry
Mr. Ted D. Stephens
Mr. John Ward
Mr. Paul Nata



DATE: January 29, 2021
TO: Ms. Cheryl Berry, DES
FROM: Ms. Daymara Mesa, Jacobs
SUBJECT: City of Baton Rouge and Parish of East Baton Rouge
Consent Decree-Civil Action No. 01-978-B-M3
2020 Annual EPA Report Data Review

Ms. Berry,

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 2020 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,
Daymara Mesa

I certify that the information contained in or accompanying the portion of the 2020 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



DATE: January 29, 2021
TO: Mr. Adam Smith, DES
FROM: Ms. Daymara Mesa, Jacobs
SUBJECT: City of Baton Rouge and Parish of East Baton Rouge
Consent Decree-Civil Action No. 01-978-B-M3
2020 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 2020 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,
Daymara Mesa

I certify that the information contained in or accompanying the portion of the 2020 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**

2020 ANNUAL REPORT

January 29, 2021

Contents

Section	Page
Contents	i
Baton Rouge Consent Decree 2020 Annual Report	1
1.1 Remedial Measures Action Plan	1
1.1.1 RMAP1 Summary	1
1.1.2 RMAP2 Summary	4
1.1.2.1 Category 1: Comprehensive Sewer Basin Rehabilitation.....	6
1.1.2.2 Category 2: Pump Station and Transmission Improvements	8
1.1.2.3 Category 3: Wastewater Treatment and Storage.....	11
1.1.3 Additional Projects Outside of Consent Decree	13
1.1.4 Infiltration and Inflow Reduction Activities Summary	14
1.2 Treatment Facility Assessment	14
1.3 Environmental Results Monitoring.....	15
1.4 Interim Relief Measures Activities	15
1.4.1 North WWTP	15
1.4.2 Central WWTP.....	16
1.4.3 South WWTP	16
1.5 Outreach and Public Awareness Program	16
1.6 Plan Modification Needs.....	17
1.7 Stipulated Penalties	17

Tables

1	EPA Consent Decree RMAP 1 Milestones
2	EPA Consent Decree RMAP 2 Milestones for Category 1 Projects
3	EPA Consent Decree RMAP 2 Milestones for Category 2 Projects
4	EPA Consent Decree RMAP 2 Milestones for Category 3 Projects
5	Proposed Schedule for Projects Outside of Consent Decree
6	I/I Reduction Activities Summary
7a	Monthly Average Percent Removal for North Plant- LA0036439
7b	Monthly Average Percent Removal for South Plant- LA0036412
8	Penalties Assessed and Paid by the City/Parish to Date
9	Self-Reported Potential Stipulated Penalties (SSOs and WWTP Violations)

Attachments

- A - Notice of Force Majeure Event
- B - Municipal Water Pollution Prevention Environmental Audit Reports
- C - Environmental Results Monitoring

Baton Rouge Consent Decree 2020 Annual Report

This Annual Report for the period from January 1, 2020 to December 31, 2020 is submitted in accordance with Section XVIII, Reporting Paragraph 52, of the Consent Decree. This report addresses all items identified in Consent Decree Exhibit I regarding the Annual Report format and content.

During the past year, there continues to be significant progress made towards achieving Second Remedial Measures Action Plan (RMAP2) compliance and additional projects outside of the Consent Decree. By the end of 2018, the City of Baton Rouge/Parish of East Baton Rouge (City/Parish) had functionally completed all 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, 2020, there have been 97 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 status of the RMAP1 projects is presented in Table 1 and is current through December 31, 2011. As of that time, all 14 RMAP1 projects are functionally completed, and 13 of the 14 were done either on, or ahead of schedule. The RMAP1 - Industriplex Project has had several issues arise during the construction phase pertaining to: unavoidable utility conflicts, difficult easement acquisitions, alignment changes, and permitting and other utility coordination issues that have caused significant delays with the project which could not be overcome by reasonable actions by the City/Parish and its construction contractor. Therefore, this project has been functionally complete and in operation since 1st quarter 2011. The City/Parish strongly asserts that this project is not susceptible to stipulated penalties due to the circumstances of the delay beyond the control of the City/Parish. The circumstances behind the delay are explained in detail in Table 1 below, and have been also reported in previous Quarterly EPA Reports. The *RMAP1 Completion Report* is included in previously submitted/approved *2011 Annual EPA Report* in *Attachment 1: Updated Outreach and Public Awareness Plan and RMAP1 Completion Report* and can also be found attached at the end of the 36th Quarterly EPA Report.

Table 1. EPA Consent Decree RMAP1 Milestones

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

		RMAP1 Projects Completed	RMAP1 Projects Completed	Project Status Summary
Milestone Date		May 4, 2007	Proposed on September 1, 2008	
Construction Status		Complete	Complete	
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)		4 th Quarter 2008	Project completed – 4th quarter 2008 (at 80% complete with construction). Project was in dispute with construction contractor. Both parties reached an agreement on terms and job was closed at 80% complete.
N-12 North Sewer Rehab Projects	North Sewer Rehab Projects (03-RMP-N12)		4 th Quarter 2007	Project completed – 4th quarter 2007.
S-08 Industriplex Area Upgrades	Industriplex Area PS 355 and FM Upgrades (99-RMP-S08)		2 nd Quarter 2010	Project completed – 1st quarter 2011.
S-14 Kleinpeter Area Upgrades	Kleinpeter Area Upgrades (03-RMP-S14)		2 nd Quarter 2010	Project completed – 2nd quarter 2009.

Table 1. EPA Consent Decree RMAP1 Milestones

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

As of December 31, 2018, 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.

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

The RMAP2 projects are separated into three categories with descriptions and schedules provided for all projects, current through December 31, 2018.

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	1 st QTR 2013	2 nd QTR 2015	4 th QTR 2018	Project Status Summaries
Construction Status	Functionally Complete*	Functionally Complete*	Functionally Complete*	
Jefferson Hwy – HooShooToo Road	●			Project completed – 3 rd quarter 2009.
Staring Lane – Boone Drive Area Rehabilitation Project	●			Project completed – 2 nd quarter 2010.
Burbank Drive – Gardere Lane Area Rehabilitation Project	●			Project completed – 1 st quarter 2011.
Oak Villa – Choctaw Street Area Rehabilitation Project	●			Project completed – 3 rd quarter 2011.
Scotland Avenue – Progress Road Area Rehabilitation Project	●			Project completed – 2 nd quarter 2011.
Elm Grove Garden Road – Harding Boulevard Area Rehabilitation Project	●			Project completed – 3 rd quarter 2011.
Sharp Road – Florida Boulevard Area Rehabilitation Project	●			Project completed – 3 rd quarter 2012.
Kenilworth Boulevard – Boone Drive Area Rehabilitation Project	●			Project completed – 3 rd quarter 2012.
Foster Drive - Government Street Area Rehabilitation Project Phase A	●			Project completed – 4 th quarter 2011.
Foster Drive - Government Street Area Rehabilitation Project Phase B	●			Project completed – 3 rd quarter 2012.
Silverleaf Road – Ford Street Area Rehabilitation Project	●			Project completed – 4 th quarter 2012.
Brookstown Road - Evangeline Street Phase I Area Rehabilitation Project	●			Project completed – 4 th quarter 2012.
Brookstown Road – Evangeline Street Phase II Area Rehabilitation Project	●			Project completed – 4 th quarter 2012.
Bluebonnet Blvd – Jefferson Hwy Phase I Area Rehabilitation Project		●		Project completed – 4 th quarter 2012.
Bluebonnet Blvd – Jefferson Hwy Phase II Area Rehabilitation Project		●		Project completed – 1 st quarter 2013.
Highland Road – Washington Street Area Rehabilitation Project		●		Project completed – 3 rd quarter 2013.
Stanford Avenue – Morning Glory Road Area Rehabilitation Project	●			Project completed – 4 th quarter 2012.
Airline Highway – Goodwood Blvd Phase I Area Rehabilitation Project		●		Project completed – 3 rd quarter 2014.
Airline Highway – Goodwood Blvd Phase II Area Rehabilitation Project		●		Project completed – 2 nd quarter 2015.
Acadian Thruway – Claycut Road Area Rehabilitation Project		●		Project completed – 1 st quarter 2013.
Acadian Thruway – Perkins Road Area Rehabilitation Project	●			Project completed – 4 th quarter 2012.
Antioch Road – Chadsford Drive Area Rehabilitation Project		●		Project completed – 2 nd quarter 2015.
Jones Creek Road – Tiger Bend Road Area Rehabilitation Project			●	Project completed – 1 st quarter 2016.

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

	33% Milestone	66% Milestone	100% Milestone	
Milestone Date	1 st QTR 2013	2 nd QTR 2015	4 th 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 – 2 nd quarter 2015.
Scenic Highway – Spanish Town Road Phase II Area Rehabilitation Project			●	Project completed – 2 nd quarter 2016.
Siegen Lane – Interstate 10 Area Rehabilitation Project			●	Project completed – 2 nd quarter 2017.
Interstate 110 – Hollywood Street Area Rehabilitation Project			●	Project completed – 3 rd quarter 2015.
Ardenwood Drive – Winbourne Street Area Rehabilitation Project			●	Project completed – 3 rd quarter 2016.
Flannery Road – Florida Boulevard Phase I Area Rehabilitation Project			●	Project completed – 3 rd quarter 2017.
Flannery Road – Florida Boulevard Phase II Area Rehabilitation Project			●	Project completed – 4 th quarter 2018.
East Boulevard – Government Street Area Rehabilitation Project			●	Project completed – 3 rd quarter 2017.
North 38 th Street – Gus Young Avenue Area Rehabilitation Project			●	Project completed – 3 rd 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	1 st QTR 2013	2 nd QTR 2015	4 th 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 - 2 nd quarter 2012.
Gurney Road - Joor Road	●			Project completed - 4 th quarter 2009.
Sullivan Rd./Lovett Rd./Wax Rd. Sewer Upgrades	●			Project completed - 1 st quarter 2011.
Comite Road – Foster Road Sewer Area Upgrades - Phase I	●			Project completed - 2 nd 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 - 4 th quarter 2010.
Zachary Area Transmission Network Improvements Phase I - 3 Pump Stations and Equalization Basin		●		Project completed - 1 st quarter 2013.
Zachary Area Transmission Network Improvements Phase II – Red Mud Lakes Forcemain to NWWTP		●		Project completed – 2 nd quarter 2016.
Zachary Area Transmission Network Improvements Phase III – Forcemain to Highway 964 to Red Mud Lakes		●		Project completed - 4 th quarter 2014.
Zachary Area Transmission Network Improvements Phase IV – Zachary Improvements		●		Project completed - 4 th quarter 2011.
Zachary Area Transmission Network Improvements Phase V – Zachary Improvements			●	Project completed – 1 st quarter 2017.
South Boulevard – St. Joseph Street Sewer Area Upgrades	●			Project completed – 2 nd quarter 2012.
South Boulevard – St. Joseph Street Sewer Area Upgrades – Phase B			●	Project completed – 3 rd quarter 2017.
Downtown Area Pump Station Improvements		●		Project completed - 2 nd quarter 2012.
Highland Road – Buchanan Street Sewer Area Upgrades	●			Project completed - 4 th quarter 2011.
Citiplace/Essen Area - PS119 & Forcemain Improvements	●			Project completed – 3 rd quarter 2012.
Group Project 1A (Metro Airport Sewer Upgrades)		●		Project completed - 2 nd quarter 2013.
Group Project 1B (Metro Airport Sewer Area Pump Station & Forcemain Upgrades)		●		Project completed - 1 st quarter 2016.
Perkins/Old Perkins Area - Booster PS 514 Improvements		●		Project completed - 2 nd quarter 2013.
Group Project 2 (Old Perkins – Highland Road Area Upgrades)	●			Project completed - 2 nd quarter 2012.
Highland Road – Burbank Drive Capacity Improvements		●		Project completed – 4 th quarter 2016.
Nicholson Drive – Highland Road – Perkins Road Capacity Improvements Phase A		●		Project completed - 1 st quarter 2012.

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

	33% Milestone	66% Milestone	100% Milestone	
Milestone Date	1 st QTR 2013	2 nd QTR 2015	4 th 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 - 1 st quarter 2015.
Bayou Duplantier Area Sewer Upgrades		●		Project completed - 3 rd 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 - 1 st quarter 2016.
Plank Road – Kleinpeter Road Sewer Area Upgrades		●		Project completed - 1 st quarter 2016.
O’Neal Lane Pipeline Improvements – Group A		●		Project completed - 4 th quarter 2014.
O’Neal Lane Pipeline Improvements – Group B		●		Project completed - 2 nd quarter 2015.
Multiple PS - Nicholson Dr - Brightside Dr		●		Project completed - 2 nd quarter 2015.
Pump Station 58 Capacity Improvements		●		Project completed - 1 st quarter 2015.
Staring Lane FM (Phase I - Burbank Drive to Highland Road)	●			Project completed - 2 nd quarter 2010.
Staring Lane FM (Phase II - Highland road to Perkins Road)		●		Project completed - 4 th quarter 2013.
Staring Lane FM (Phase III - Perkins to PS58)		●		Project completed - 3 rd quarter 2014.
Multiple PS - Jefferson Hwy - Park Forest Dr		●		Project completed - 3 rd quarter 2012.
Airline Highway Pipeline Improvements- Phase A			●	Project completed - 3 rd quarter 2017.
Airline Highway Pipeline Improvements- Phase B			●	Project completed – 3 rd quarter 2018.
Multiple PS - Highland Road - Kenilworth Parkway			●	Project completed – 2 nd quarter 2017.
Florida Boulevard Pump Station Improvements			●	Project completed – 4 th quarter 2018.
Plank Road Pump Station Improvements			●	Project completed – 1 st quarter 2017.
Multiple PS - Highway 61 - Plank Road			●	Project completed – 2 nd 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 Force mains-Phase I		●		Project complete - 3rd quarter 2013.
Central Consolidated Force mains-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 through December 31, 2020.

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

	33% Milestone	66% Milestone	100% Milestone	
Milestone Date	1 st QTR 2013	2 nd QTR 2015	4 th QTR 2018	Project Status Summaries
Construction Status	Functionally Complete*	Functionally Complete*	Functionally Complete*	
Choctaw Storage and Pump Station Facility		●		Project completed – 3 rd quarter 2013.
Hooper Storage Facility		●		Project completed – 2 nd quarter 2016.
South WWTP IAP (Consolidated – Screening, Primary Treatment, Trickling Filter Recirculation, Sludge Handling)	●			Project completed - 2 nd quarter 2011.
South WWTP IAP (Effluent Pumping Improvements)	●			Project completed - 1 st quarter 2008.
SWWTP Wet Weather Improvements - Phase I		●		Project completed - 2 nd quarter 2013.
SWWTP Wet Weather Improvements - Phase II (PDP portion)		●		Project completed - 2 nd 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 \$14.5 million; therefore, this goal was exceeded during 2020. 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 2020 to meet this requirement.

Table 6. I/I Reduction Activities Summary

Project	Description	% Complete	Contract Amount	Expenditures 2020
19-MH-UF-0010	Manhole Rehabilitation Contract	100%	\$1,500,000.00	\$1,500,000.00
19-PI-MS-0003	Sewer Physical Inspection Contract	100.1%	\$6,600,000.00	\$6,606,135.00
16-CP-MS-0010	Annual Cured-In-Place Lining Contract	82%	\$1,989,945.00	\$1,634,081.00
17-PN-MS-0016	Supplemental Parishwide Sewer Repair and Replacement Project	68%	\$1,958,625.00	\$1,333,374.46
17-PN-MS-0015	Annual Parishwide Sewer Repair and Replacement Project	42%	\$4,593,505.00	\$1,940,933.63
19-ER-WC-0006	Parishwide Sewer Emergency Repair Contract	38%	\$4,000,000.00	\$1,528,527.16
TOTAL			\$20,642,075.00	\$14,543,051.25

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.)* signed 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, which were last submitted along with the audit on November 13, 2020.

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. As of December 31, 2020, the City/Parish conducted three separate Phase II Environmental Results Monitoring events, which are summarized in Attachment C. Also in Attachment C, is the water sample analysis and chain of custody.

During October 8 – 11, 2020 there were over ten (10) inches of rainfall experienced during a 3 – 4 hour period as a result of Hurricane Delta. The Baton Rouge metropolitan area experienced significant impacts from Hurricane Delta, including heavy rainfall, flash flooding, river flooding and strong winds. In response, the Governor of the State of Louisiana issued a statewide state of emergency on October 6, 2020. The force majeure event notification and the governor's proclamation are included in Attachment A. Due to the hazardous weather conditions; it was not possible to conduct a sampling event during this rain event. There were no additional observed rain events during Quarter 4 of 2020 that met the criteria of a minimum of 2-inches of rainfall over a 24-hour period.

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 2020, the North WWTP has been in compliance with the 85% effluent limits for BOD for 0 months and for TSS for 6 months of the reporting period, as shown in Table 7a.

Table 7a. 2020 Monthly Average Percent Removal for North Plant- LA0036439

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
BOD	71	80	67	72	74	75	65	63	77	82	52	63
TSS	80	73	86	85	76	88	82	92	91	90	83	76

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 2020, the South WWTP has been in compliance with the 85% effluent limits for BOD for 7 months and for TSS for 12 months of the reporting period, as shown in Table 7b.

Table 7b. 2020 Monthly Average Percent Removal for South Plant- LA0036412

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
BOD	82	82	86	86	87	80	79	81	88	91	87	95
TSS	89	86	91	92	92	91	91	93	94	91	86	92

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.

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

SSO program communications 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.

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

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

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 2020 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 2020

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 2020			
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) 2020			
Weekly Average Limits	6	\$1,000	\$6,000
Monthly (30-day average) Limits	11	\$2,500	\$27,500
Daily Limits	0	\$1,000	\$0
2020 Total Stipulated Penalties (through December 31, 2020)			\$58,500

Note: None of these self-reported stipulated penalties in this table have been assessed to the City/Parish by the DOJ/EPA/LDEQ or have been paid by the City/Parish at this time. Historical data utilized in this table was taken from the City/Parish Quarterly EPA Reports. In some instances where Preventative Maintenance Plan goals were not achieved in a given quarter, but the cumulative annual goals were exceeded, it was assumed that no penalties should be assessed for unauthorized discharges that occurred during that given quarter.

2020 Annual Report Attachment A

Notice of Force Majeure Event



CERTIFIED- RETURN RECEIPT REQUESTED

DATE: October 29, 2020

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

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

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

FROM: Richard Speer, PE, Environmental Services Director
Department of Environmental Services, City of Baton Rouge and Parish of East Baton Rouge

SUBJECT: City of Baton Rouge and Parish of East Baton Rouge, Consent Decree-Civil Action No. 01-978-B-M3: Force Majeure Event – Hurricane Delta

Ladies and Gentlemen:

In conformance with the Force Majeure provision included in Section XXII – Force Majeure of the Consent Decree, this letter will serve as a formal notification by the City of Baton Rouge and Parish of East Baton Rouge (City/Parish) to the Department of Justice (DOJ), Environmental Protection Agency (EPA), and Louisiana Department of Environmental Quality (LDEQ) that a force majeure event has taken place beginning October 8, 2020 in the form of Hurricane Delta.

A Hurricane Warning was is in effect in Louisiana and included threats of strong gusty winds, coastal flooding, flash flooding, river flooding and heavy rainfall, with the primary impacts occurring from October 8 – 11, 2020. In response, the Governor of the State of Louisiana, John Bel Edwards, ordered and directed a statewide state of emergency (please see Attachment A: Proclamation Number 133 JBE 2020, State of Emergency – Hurricane Delta) as a result of Hurricane Delta. The Governor's order is effective October 6, 2020 until November 4, 2020.

The Baton Rouge metropolitan area experienced significant impacts from Hurricane Delta, including over ten (10) inches of rainfall in a 3 – 4 hour period and sustained wind speeds of over fifty (50) miles per hour, resulting in flooding and loss of power to over 90,000 customers. The rainfall received far exceeds the 2 year, 12 hour design storm for which the system was designed. Over 130 pump station sites were on generator power at the peak of the event. Unstable power conditions affected several pump station sites causing pump motor and variable frequency drive (VFD) faults. Upon notification of the faults, SCADA dispatched personnel to manually reset the electrical equipment. Response times were adversely affected by weather conditions resulting in 19 sanitary sewer overflows at pump station sites. The approved SSO response plan was implemented and all sites were cleaned accordingly.

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

Sincerely,



Richard Speer, PE
Environmental Services Director



Robert Abbott
Senior Special Parish Attorney

Cc: Honorable Sharon Weston Broome, Mayor-President
Samuel Coleman, PE, Acting Regional Administrator (Region 6)
Adam M. Smith, PE, DES Chief of Wastewater Operations and Maintenance
Carlos Zequeira Brinsfield, US EPA (6RC)
Darlene Whitten-Hill US EPA (6EN)
Ted Broyles, LDEQ
Joseph Young, PE, Program Manager, Jacobs

PROCLAMATION NUMBER
133 JBE 2020, STATE OF
EMERGENCY –
HURRICANE DELTA



EXECUTIVE DEPARTMENT

PROCLAMATION NUMBER 133 JBE 2020

STATE OF EMERGENCY – HURRICANE DELTA

- WHEREAS,** the Louisiana Homeland Security and Emergency Assistance and Disaster Act, La. R.S. 29:721, *et seq.*, confers upon the Governor of the State of Louisiana emergency powers to deal with emergencies and disasters, including those caused by fire, flood, earthquake or other natural or manmade causes, in order to ensure that preparations of this State will be adequate to deal with such emergencies or disasters and to preserve the lives and property of the people of the State of Louisiana;
- WHEREAS,** when the Governor determines that a disaster or emergency has occurred, or the threat thereof is imminent, La. R.S. 29:724(B)(1) empowers him to declare a state of emergency by executive order or proclamation, or both;
- WHEREAS,** the National Weather Service has indicated that Hurricane Delta, which is currently located in the West Central Caribbean, will continue to move and strengthen into a major hurricane before entering into the southern Gulf of Mexico late Tuesday or early Wednesday. The storm will continue to move northwest and eventually move towards the north impacting parts of the Gulf Coast;
- WHEREAS,** the National Weather Service also indicates that Hurricane Delta is projected to make landfall as a category 1 or 2 hurricane on Friday along the Louisiana Coast;
- WHEREAS,** Hurricane Delta will put southeast Louisiana at risk for flash flooding and river flooding through Friday. Significant storm surge is expected across the Texas, Louisiana, and Mississippi coasts;
- WHEREAS,** due to the tropical nature of this system, there is a potential for storm surge, high and damaging winds, and flooding from rainfall in all coastal parishes, but especially for those parishes east of where Hurricane Delta makes landfall;
- WHEREAS,** many parishes along the coast will need to take protective measures to help mitigate flooding and wind damage in response to this imminent threat; and
- WHEREAS,** the State anticipates that coastal parishes will declare states of emergency, and assistance may be needed to assist parishes in their response to this developing threat.

NOW THEREFORE, I, JOHN BEL EDWARDS, Governor of the State of Louisiana, by virtue of the authority vested by the Constitution and the laws of the State of Louisiana, do hereby order and direct as follows:

SECTION 1: Pursuant to the Louisiana Homeland Security and Emergency Assistance and Disaster Act, La. R.S. 29:721, *et seq.*, a state of emergency is hereby declared to exist statewide in the State of Louisiana as a result of the imminent threat of emergency conditions that threaten the lives and property of the citizens of the State.

SECTION 2: The Director of the Governor's Office of Homeland Security and Emergency Preparedness (GOHSEP) is hereby authorized to undertake any activity authorized by law which he deems appropriate in response to this declaration.

SECTION 3: Pursuant to La. R.S. 29:732, during a declared state of emergency, the prices charged or value received for goods and services sold within the designated emergency area may not exceed the prices ordinarily charged for comparable goods and services in the same market area at or immediately before the time of the state of emergency, unless the price by the seller is attributable to fluctuations in applicable commodity markets, fluctuations in applicable regional or national market trends, or to reasonable expenses and charges and attendant business risk incurred in procuring or selling the goods or services during the state of emergency.

SECTION 4: All departments, commissions, boards, agencies and officers of the State, or any political subdivision thereof, are authorized and directed to cooperate in actions the State may take in response to the effects of this severe weather event.

SECTIONS 5: This order is effective upon signature and shall remain in effect from Tuesday, October 6, 2020 to Wednesday, November 4, 2020, unless terminated sooner.



IN WITNESS WHEREOF, I have set my hand officially and caused to be affixed the Great Seal of Louisiana in the City of Baton Rouge, on this 6th day of October, 2020.

A handwritten signature in black ink, appearing to be "John Bel Edwards", is written over a horizontal line.

GOVERNOR OF LOUISIANA

**ATTEST BY THE SECRETARY
OF STATE**

SECRETARY OF STATE

2020 Annual Report Attachment B

Municipal Water Pollution Prevention
Environmental Audit Reports

LOUISIANA
MUNICIPAL WATER
POLLUTION PREVENTION
MWPP



<i>Facility Name:</i>	City of Baton Rouge / Parish of East Baton Rouge / North Wastewater Treatment Plant
<i>LPDES Permit Number:</i>	LA0036439
<i>Agency Interest (AI) Number:</i>	4843
<i>Address:</i>	50 Woodpecker Street
	Baton Rouge, LA 70807
<i>Parish:</i>	East Baton Rouge
<i>(Person Completing Form) Name:</i>	Department of Environmental Services Staff
<i>Title:</i>	Inclusive
<i>Date Completed:</i>	November 13, 2020

INSTRUCTIONS

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

Permit #:

LA0036439

PART I. INFLUENT FLOW/LOADINGS (all plants)

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

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)
17.18	x	93	x 8.34 =	13,325
20.92	x	78	x 8.34 =	13,609
18.55	x	139	x 8.34 =	21,504
24.58	x	73	x 8.34 =	14,965
34.02	x	67	x 8.34 =	19,010
41.11	x	50	x 8.34 =	17,143
23.46	x	78	x 8.34 =	15,261
19.82	x	82	x 8.34 =	13,554
23.53	x	52	x 8.34 =	10,204
31.19	x	48	x 8.34 =	12,486
33.73	x	39	x 8.34 =	10,971
25.30	x	51	x 8.34 =	10,761

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	16	12
OCTOBER	21	21
NOVEMBER	17	17
DECEMBER	12	18
JANUARY	19	20
FEBRUARY	10	15
MARCH	19	18
APRIL	20	16
MAY	16	18
JUNE	17	13
JULY	16	15
AUGUST	19	11

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

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

Permit #:

LA0036439

C. Continuous Discharge to Surface Water.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Permit #:

LA0036439

D. Other Monitoring and Limitations

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

√ Check one box.



Yes



No

If Yes, Please describe:

Fecal Coliform

09/17-23/19 410 col./100ml

02/09-15/20

1027 col./100ml

10/01-07/19 600 col./100ml

03/15-21/20

757 col./100ml

10/08-14/19 533 col./100ml

10/15-21/19 946 col./100ml

12/29-01/04/20 448 col./100ml

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

√ Check one box.



Yes



No

If Yes, Please describe:

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

√ Check one box.



Yes



No

If Yes, Please describe:

See Attachment 1 & 2

D. Other Monitoring and Limitations
iii.

NWWTP - LA0036439 (*Influent*)*

Sample Date	Pollutant	Reporting Value	Actual Value
11/4-5/2019	Mercury	0.0005 µg/L	0.064 µg/L
	Nickel	5 µg/L	11 µg/L
	Copper	3 µg/L	16 µg/L
	Phenolics	5 µg/L	207 µg/L
	Heptachlor	0.01 µg/L	0.147 µg/L
	Zinc	20 µg/L	87 µg/L

*1/6 months

NWWTP - LA0036439 (*Effluent*)*

Sample Date	Pollutant	Reporting Value	Actual Value
11/5-6/2019	Copper	3 µg/L	5 µg/L
	Mercury	0.0005 µg/L	0.022 µg/L
	Nickel	5 µg/L	6 µg/L
	Zinc	20 µg/L	28 µg/L
	Phenolics	5 µg/L	10 µg/L

*1/6 months

D. Other Monitoring and Limitations
iii.

NWWTP - LA0036439 (*Influent*)*

Sample Date	Pollutant	Reporting Value	Actual Value
06/15-16/2020	Copper	3 µg/L	22 µg/L
	Nickel	5 µg/L	7 µg/L
	Phenolics	5 µg/L	87 µg/L
	Zinc	20 µg/L	86 µg/L
	Mercury	0.0005 µg/L	0.0284 µg/L

*1/6 months

NWWTP - LA0036439 (*Effluent*)*

Sample Date	Pollutant	Reporting Value	Actual Value
06/16-17/2020	Copper	3 µg/L	10 µg/L
	Zinc	20 µg/L	30 µg/L
	Mercury	0.0005 µg/L	0.007 µg/L
	Phenolics	5 µg/L	12 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?

$$\begin{array}{rcl}
 & & 2018 \\
 \text{Current Year} & - & \text{Answer to A} = \text{Age in years} \\
 2020 & - & 2018 = 2
 \end{array}$$

Enter Age in Part C below.

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

FACTOR:

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

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

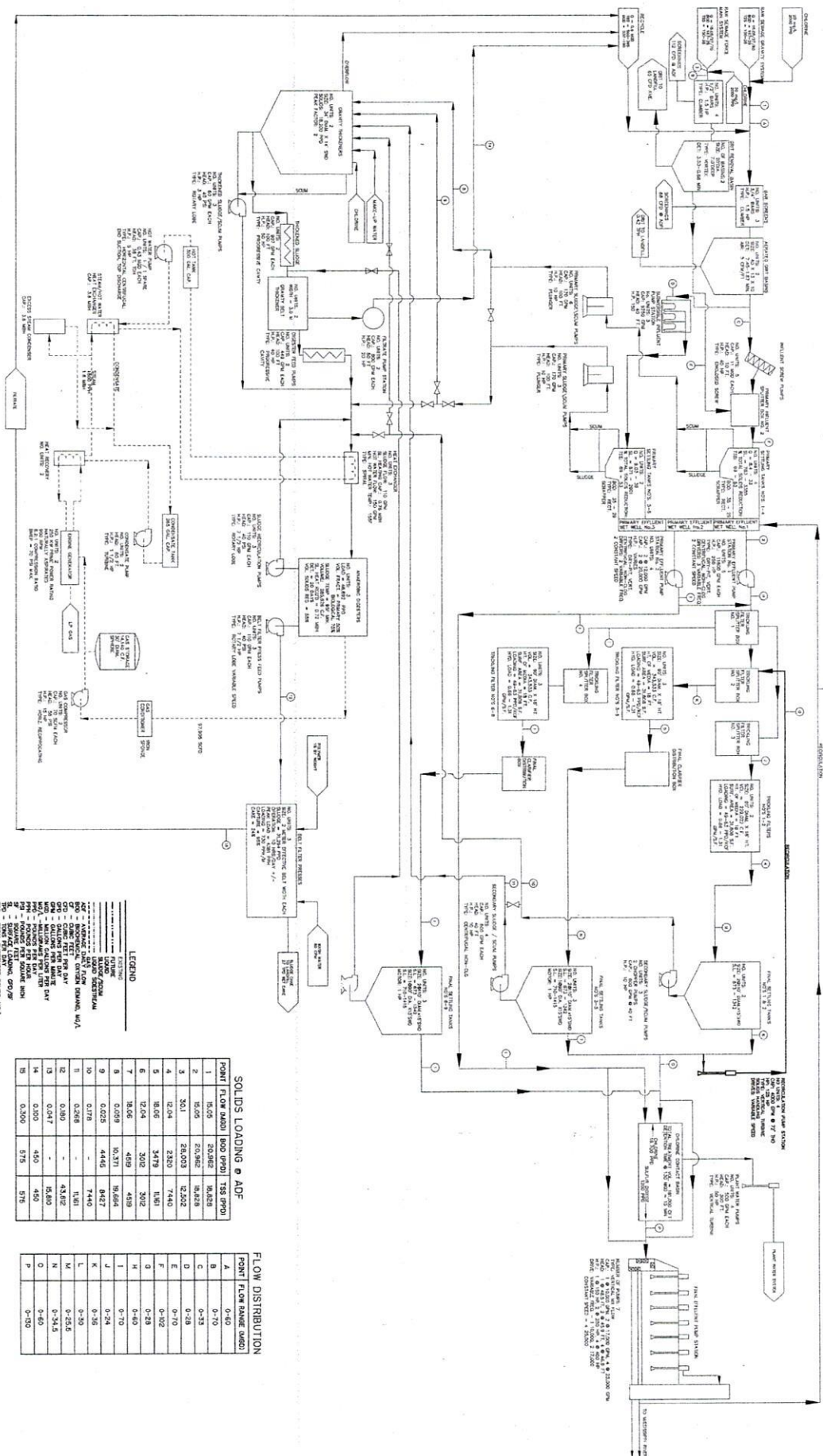
TOTAL POINT VALUE FOR PART 3 =

$$\frac{2.5}{\text{Factor}} \times \frac{2}{\text{Age}} = \boxed{5} \text{ (max = 50)}$$

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

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

* See Attachment



RECORD DRAWINGS

THESE DRAWINGS HAVE BEEN REVIEWED BY THE CITY OF BATON ROUGE AND APPROVED FOR THE REQUIREMENTS OF THE CONSTRUCTION CONTRACT.



PROJECT NO. 6137-2-3440/1
SHEET NO. P-1

PHASE-III
PROCESS FLOW DIAGRAM - NWWT
CITY OF BATON ROUGE / PARISH OF EAST BATON ROUGE

CAMP DRESSER & McKEE INC. CDM
Professional Engineers, Architects, Planners & Environmental Consultants
MARRERO, COUVILLON
AND ASSOC. INC. RUSS ENGINEERING
PROFESSIONAL ENGINEERING CONSULTANTS

DESIGNED BY: J. WESLEY	CHECKED BY: J. WESLEY	DATE: OCTOBER 1998
DRAWN BY: J. WESLEY	CHECKED BY: J. WESLEY	DATE: OCTOBER 1998
FILED BY: J. WESLEY	CHECKED BY: J. WESLEY	DATE: OCTOBER 1998
DATE: OCTOBER 1998	DATE: OCTOBER 1998	DATE: OCTOBER 1998

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:

14 ✓ Check one box. ☐ 0 = 0 points ☐ 3 = 15 points
☐ 1 = 5 points ☐ 4 = 30 points
☐ 2 = 10 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: 3 Treatment Plant: 11

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:

119 ✓ Check one box. ☐ 0 = 0 points ☐ 3 = 15 points
☐ 1 = 5 points ☐ 4 = 30 points
☐ 2 = 10 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: 109 Treatment Plant: 10

- 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.

<i>months</i>	<input checked="" type="radio"/> 2	3	4-5	6
<i>points</i>	50	30	20	10
				0

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

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

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

<i>months</i>	<6	6-11	12-23	24-35	<input checked="" type="radio"/> >36
<i>points</i>	50	30	20	10	0

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

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

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

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

Permit #:

LA0036439

PART 6: NEW DEVELOPMENT

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

Design Population: 180 cap

Design Flow: 0.08 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.

09-01-2019 to 08-31-2020					
Project Name	# of Lots	Design Pop.	Flow (gpm)	Flow (MGD)	Sewer Length (ft)
The Reserve in Zachary, Sewer Improvements (SD-2)	45	180	54	0.08	50
TOTAL	45	180	54	0.08	50

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 sewer construction needs through the issuance of sewer revenue bonds and any funding that remains after O&M and debt services requirements are met.

Permit #:

LA0036439

PART 9: SUBJECTIVE EVALUATION

A. Collection System Maintenance

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

See 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?
ii. Do you mow the dikes regularly (at least monthly), to the waters edge?
iii. Do you have bushes or trees growing on the dikes or in the ponds?
iv. Do you have excess sludge buildup (> 1foot) on the bottom of any of your ponds?
v. Do you exercise all of your valves?
vi. Are your control manholes in good structural shape?
vii. Do you maintain at least 3 feet of freeboard in all of your ponds?
viii. Do you visit your pond system at least weekly?

<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
<input type="checkbox"/>	Yes	<input type="checkbox"/>	No

LA0036439 NORTH WASTEWATER PLANT BASIN
MONITORING PERIOD - September 1, 2019 thru August 31, 2020
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, cured-in-place lining 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. 2019	Q4 2019	Q1 2020	Q2 2020	JUL/AUG 2020	Total
Lines Cleaned (ft)	10,929	17,236	30,269	70,433	10,012	138,879
CCTV Inspected (ft)	20,792	34,603	9,601	18,785	15,376	99,157
Smoke Tested (ft)	18,375	15,600	65,503	28,834	7,680	135,992
Smoke Tested (no. of locations)	0	0	0	69	53	122
Dye Water Flooded (no. of locations)	13	23	90	65	43	234
Manholes Inspected (no.)	6	29	0	1	0	36
Lines Repaired (no.)	48	58	26	51	89	272
Manholes Rehabilitated (no.)	1	160	407	242	122	932
Force Mains						
Visual Surface Inspection (Miles)	4	5	1.8	1	8.8	21
Repaired (no.)	0	0	0	2	0	2
Air Release Valves						
Inspected / Maintained	11	25	9	7	44	96
Repaired (no.)	6	8	1	2	1	18

Note: September 2019 and July/August 2020 data provided as a weighted average based on the quarterly data, as individual month data is not available.

- 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. 2019	Q4 2019	Q1 2020	Q2 2020	JUL/AUG 2020	Total
Inspections (no.)	95	176	478	1,056	570	2,375
Wet Wells Cleaned	39	85	112	108	39	383
Repaired (no.)	6	16	13	13	13	61

Note: September 2019 and July/August 2020 data provided as a weighted average based on the quarterly data, as individual month data is not available.

- 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.)

04-01-2020

Influent flow meter calibration date(s)

04-01-2020

Effluent flow meter calibration date(s)

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

Primary basins 5/6 were out of service due to flight drives that required replacement. Trickling filters were out of service due to construction.

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

✓ Check one box.

☐

Yes

☒

No

If Yes, Please describe:

Permit #:

LA0036439

D. Preventive Maintenance

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

✓ Check one box.

☒

Yes

☐

No

If Yes, Please describe:

Weekly, monthly and semi-annually preventive maintenance sheets that reflect type and frequency as specified in the O&M manuals. A computerized maintenance management system manages the preventive maintenance of plant equipment and spare parts.

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

☒

Yes

☐

No

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

☒

Yes

☐

No

E. Sewer Use Ordinance

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

✓ Check one box.

☒

Yes

☐

No

If Yes, Please describe:

Sewer User Fee Ordinance (No. 7853) limits the discharge of BOD & TSS to 200 mg/l and 250 mg/l respectively. Any discharge above these limits is surcharged at a rate of 2% of the monthly sewer user fee for each limit of 10 mg/l. Pretreatment Ordinance (No. 16120) limits the discharge of heavy metals, chemical and toxic substances.

- ii. Has it been necessary to enforce?

✓ Check one box.

☒

Yes

☐

No

If Yes, Please describe:

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

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

NO

Permit #:

LA0036439

POINT CALCULATION TABLE

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

TOTAL POINTS:

155

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 December 9, 2020 (date).

Metropolitan Council

Ashley Beck
Ashley Beck
CLERK

By Hudson
Introduction 11/24/20
P.H. 12/9/20

ADOPTED
EAST BATON ROUGE SEWAGE
COMMISSION

DEC 09 2020

[Signature]

COUNCIL ADMINISTRATOR TREASURER

20-01419

ADOPTED
METROPOLITAN COUNCIL

DEC 09 2020

[Signature]

COUNCIL ADMINISTRATOR TREASURER

RESOLUTION **55341**

EBROSCO RESOLUTION **8525**

AUTHORIZING THE MAYOR-PRESIDENT AND/OR
EBROSCO TO APPROVE THE SUBMITTAL OF THE
LOUISIANA MUNICIPAL WATER POLLUTION
PREVENTION (MWPP) ENVIRONMENTAL AUDIT FOR THE
NORTH TREATMENT PLANT (LA0036439 AI#4843) TO
THE LOUISIANA DEPARTMENT OF ENVIRONMENTAL
QUALITY (LDEQ) FOR THE MONITORING PERIOD OF
SEPTEMBER 1, 2019 THROUGH AUGUST 31, 2020.

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

Section 1. The Mayor-President, on behalf of the City of
Baton Rouge and Parish of East Baton Rouge, and/or the East Baton
Rouge Sewerage Commission, represented by President of said
Commission, are hereby authorized to approve the submittal of the
Louisiana Municipal Water Pollution Prevention (MWPP)
Environmental Audit for the North Treatment Plant (LA0036439
AI#4843) to the Louisiana Department of Environmental Quality
(LDEQ) for the monitoring period of September 1, 2019 through
August 31, 2020.

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

LOUISIANA
MUNICIPAL WATER
POLLUTION PREVENTION
MWPP



<i>Facility Name:</i>	City of Baton Rouge / Parish of East Baton Rouge / South Wastewater Treatment Plant
<i>LPDES Permit Number:</i>	LA0036412
<i>Agency Interest (AI) Number:</i>	4841
<i>Address:</i>	2850 Gardere Lane
	Baton Rouge, LA 70820
<i>Parish:</i>	East Baton Rouge
<i>(Person Completing Form) Name:</i>	Department of Environmental Services Staff
<i>Title:</i>	Inclusive
<i>Date Completed:</i>	November 13, 2020

INSTRUCTIONS

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

Permit #:

LA0036412

PART I: INFLUENT FLOW/LOADINGS (all plants)

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

Column 1 Average Monthly Flow (million gallons per day, MGD)		Column 2 Average Monthly BOD5 Concentration (mg/l)		Column 3 Average Monthly BOD5 Loading (pounds per day, lb/day)
37.01	x	91	x 8.34 =	28,088
48.34	x	82	x 8.34 =	33,059
40.39	x	101	x 8.34 =	34,022
44.13	x	82	x 8.34 =	30,180
61.57	x	71	x 8.34 =	36,458
61.92	x	82	x 8.34 =	42,346
47.88	x	105	x 8.34 =	41,928
45.24	x	93	x 8.34 =	35,089
50.87	x	89	x 8.34 =	37,759
51.34	x	76	x 8.34 =	32,541
57.81	x	67	x 8.34 =	32,303
43.18	x	83	x 8.34 =	29,890

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 C Point Total

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

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

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

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

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

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

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

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

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

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

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

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

Permit #:

LA0036412

PART 2: EFFLUENT QUALITY / PLANT PERFORMANCE

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

Month	Column 1 Average Monthly BOD (mg/l)	Column 2 Average Monthly TSS (mg/l)
SEPTEMBER	10	11
OCTOBER	12	12
NOVEMBER	13	15
DECEMBER	9	14
JANUARY	9	11
FEBRUARY	11	18
MARCH	12	14
APRIL	12	11
MAY	9	12
JUNE	13	12
JULY	10	10
AUGUST	13	10

- 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 i Point Total

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

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

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

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

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

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

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

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

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

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

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

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

Permit #:

LA0036412

D. Other Monitoring and Limitations

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

✓ Check one box.



Yes



No

If Yes, Please describe:

FECAL		TRC
8/20-26/19	687 col./100mL	11-13-19 - 1.33
2/9-15/20	1000 col./100mL	
2/16-22/20	655 col./100mL	
7/12-18/20	552 col./100mL	

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

✓ Check one box.



Yes



No

If Yes, Please describe:

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

✓ Check one box.



Yes



No

If Yes, Please describe:

See Attachment 1 & 2

D. Other Monitoring and Limitations
iii.

SWWTP - LA0036412 (*Influent*)*

Sample Date	Pollutant	Reporting Value	Actual Value
11/4-5/2019	Copper	3 µg/L	15 µg/L
	Zinc	20 µg/L	91 µg/L
	Lead	2 µg/L	2.26 µg/L
	Phenolics	5 µg/L	47 µg/L
	Heptachlor	0.01 µg/L	0.186 µg/L
	Mercury	0.0005 µg/L	0.0479 µg/L

*1/6 months

SWWTP - LA0036412 (*Effluent*)*

Sample Date	Pollutant	Reporting Value	Actual Value
11/5-6/2019	Mercury	0.0005 µg/L	0.0141 µg/L
	Phenolics	5 µg/L	6 µg/L

*1/6 months

D. Other Monitoring and Limitations
iii.

SWWTP - LA0036412 (*Influent*)*

Sample Date	Pollutant	Reporting Value	Actual Value
06/15-16/2020	Copper	3 µg/L	20 µg/L
	Mercury	0.0005 µg/L	0.023 µg/L
	Phenolics	5 µg/L	34 µg/L
	Zinc	20 µg/L	63 µg/L

***1/6 months**

SWWTP - LA0036421 (*Effluent*)*

Sample Date	Pollutant	Reporting Value	Actual Value
06/16-17/2020	Copper	3 µg/L	8 µg/L
	Mercury	0.0005 µg/L	0.0086 µg/L
	Phenolics	5 µg/L	7 µg/L

***1/6 months**

Permit #:

LA0036412

PART 3: AGE OF THE WASTEWATER TREATMENT FACILITY

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

$$\begin{array}{rclclcl}
 & & 2015 & & & \\
 \text{Current Year} & - & \text{Answer to A} & = & \text{Age in years} & \\
 \hline
 2020 & & 2015 & & 5 &
 \end{array}$$

Enter Age in Part C below.

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

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

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

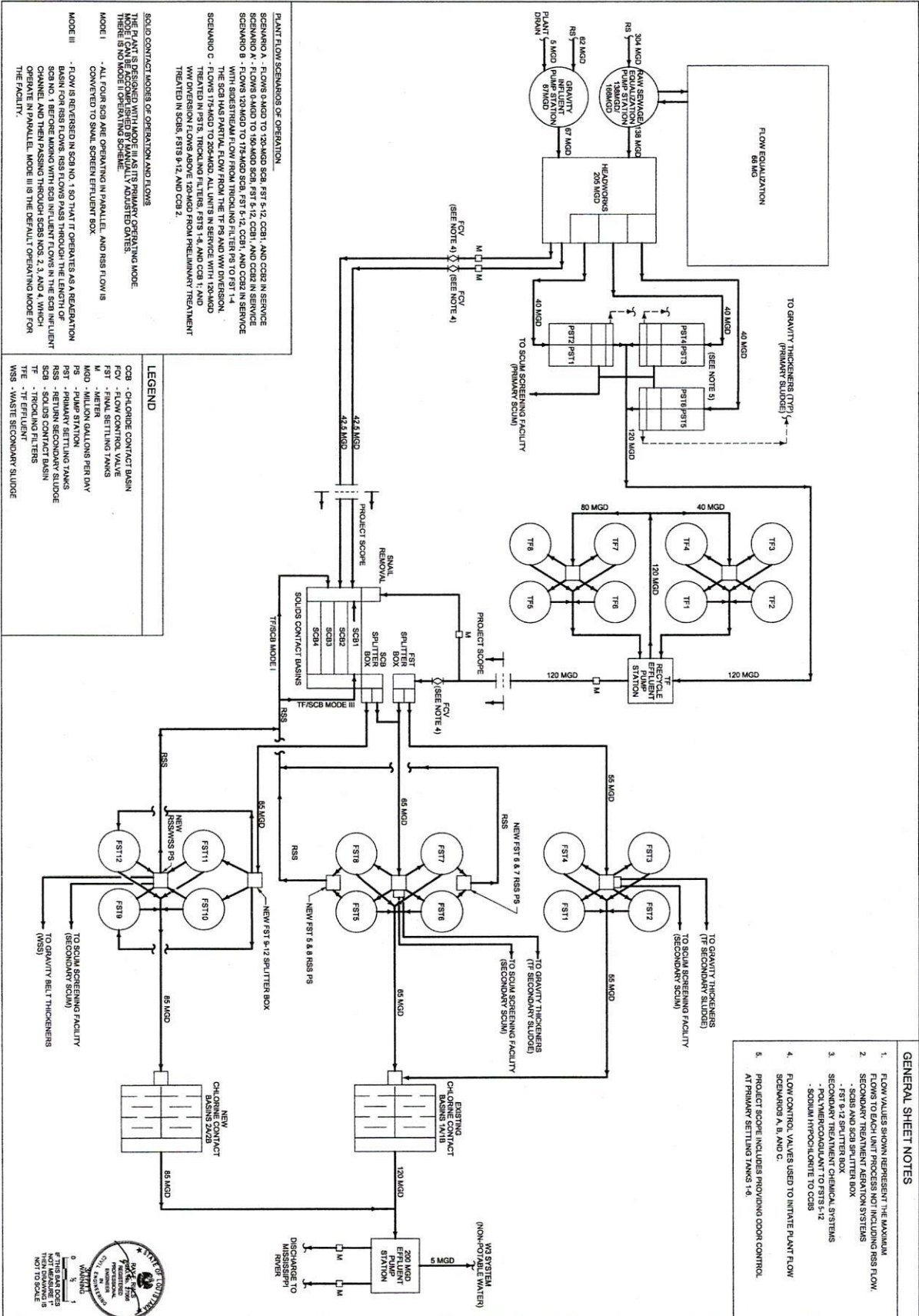
TOTAL POINT VALUE FOR PART 3 =

$$\frac{2.5}{\text{Factor}} \times \frac{5}{\text{Age}} = \boxed{12.5} \text{ (max = 50)}$$

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

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

* See attachment



PLANT FLOW SCENARIOS OF OPERATION

SCENARIO A - FLOWS 0 MGD TO 120 MGD SCB1, FST 5-12, CCB1, AND CCB2 IN SERVICE

SCENARIO B - FLOWS 0 MGD TO 160 MGD SCB1, FST 5-12, CCB1, AND CCB2 IN SERVICE

SCENARIO C - FLOWS 120 MGD TO 200 MGD SCB1, FST 5-12, CCB1, AND CCB2 IN SERVICE

SCENARIO D - FLOWS 120 MGD TO 200 MGD SCB1, FST 5-12, CCB1, AND CCB2 IN SERVICE

SCENARIO E - FLOWS 120 MGD TO 200 MGD SCB1, FST 5-12, CCB1, AND CCB2 IN SERVICE

SCENARIO F - FLOWS 120 MGD TO 200 MGD SCB1, FST 5-12, CCB1, AND CCB2 IN SERVICE

SCENARIO G - FLOWS 120 MGD TO 200 MGD SCB1, FST 5-12, CCB1, AND CCB2 IN SERVICE

SCENARIO H - FLOWS 120 MGD TO 200 MGD SCB1, FST 5-12, CCB1, AND CCB2 IN SERVICE

SCENARIO I - FLOWS 120 MGD TO 200 MGD SCB1, FST 5-12, CCB1, AND CCB2 IN SERVICE

SCENARIO J - FLOWS 120 MGD TO 200 MGD SCB1, FST 5-12, CCB1, AND CCB2 IN SERVICE

SCENARIO K - FLOWS 120 MGD TO 200 MGD SCB1, FST 5-12, CCB1, AND CCB2 IN SERVICE

SCENARIO L - FLOWS 120 MGD TO 200 MGD SCB1, FST 5-12, CCB1, AND CCB2 IN SERVICE

SCENARIO M - FLOWS 120 MGD TO 200 MGD SCB1, FST 5-12, CCB1, AND CCB2 IN SERVICE

SCENARIO N - FLOWS 120 MGD TO 200 MGD SCB1, FST 5-12, CCB1, AND CCB2 IN SERVICE

SCENARIO O - FLOWS 120 MGD TO 200 MGD SCB1, FST 5-12, CCB1, AND CCB2 IN SERVICE

SCENARIO P - FLOWS 120 MGD TO 200 MGD SCB1, FST 5-12, CCB1, AND CCB2 IN SERVICE

SCENARIO Q - FLOWS 120 MGD TO 200 MGD SCB1, FST 5-12, CCB1, AND CCB2 IN SERVICE

SCENARIO R - FLOWS 120 MGD TO 200 MGD SCB1, FST 5-12, CCB1, AND CCB2 IN SERVICE

SCENARIO S - FLOWS 120 MGD TO 200 MGD SCB1, FST 5-12, CCB1, AND CCB2 IN SERVICE

SCENARIO T - FLOWS 120 MGD TO 200 MGD SCB1, FST 5-12, CCB1, AND CCB2 IN SERVICE

SCENARIO U - FLOWS 120 MGD TO 200 MGD SCB1, FST 5-12, CCB1, AND CCB2 IN SERVICE

SCENARIO V - FLOWS 120 MGD TO 200 MGD SCB1, FST 5-12, CCB1, AND CCB2 IN SERVICE

SCENARIO W - FLOWS 120 MGD TO 200 MGD SCB1, FST 5-12, CCB1, AND CCB2 IN SERVICE

SCENARIO X - FLOWS 120 MGD TO 200 MGD SCB1, FST 5-12, CCB1, AND CCB2 IN SERVICE

SCENARIO Y - FLOWS 120 MGD TO 200 MGD SCB1, FST 5-12, CCB1, AND CCB2 IN SERVICE

SCENARIO Z - FLOWS 120 MGD TO 200 MGD SCB1, FST 5-12, CCB1, AND CCB2 IN SERVICE

LEGEND

CCB - CHLORINE CONTACT BASIN

FV - FLOW CONTROL VALVE

FST - FLOW SETTING TANKS

PS - PUMP STATION

RS - RETURN SETTLING TANKS

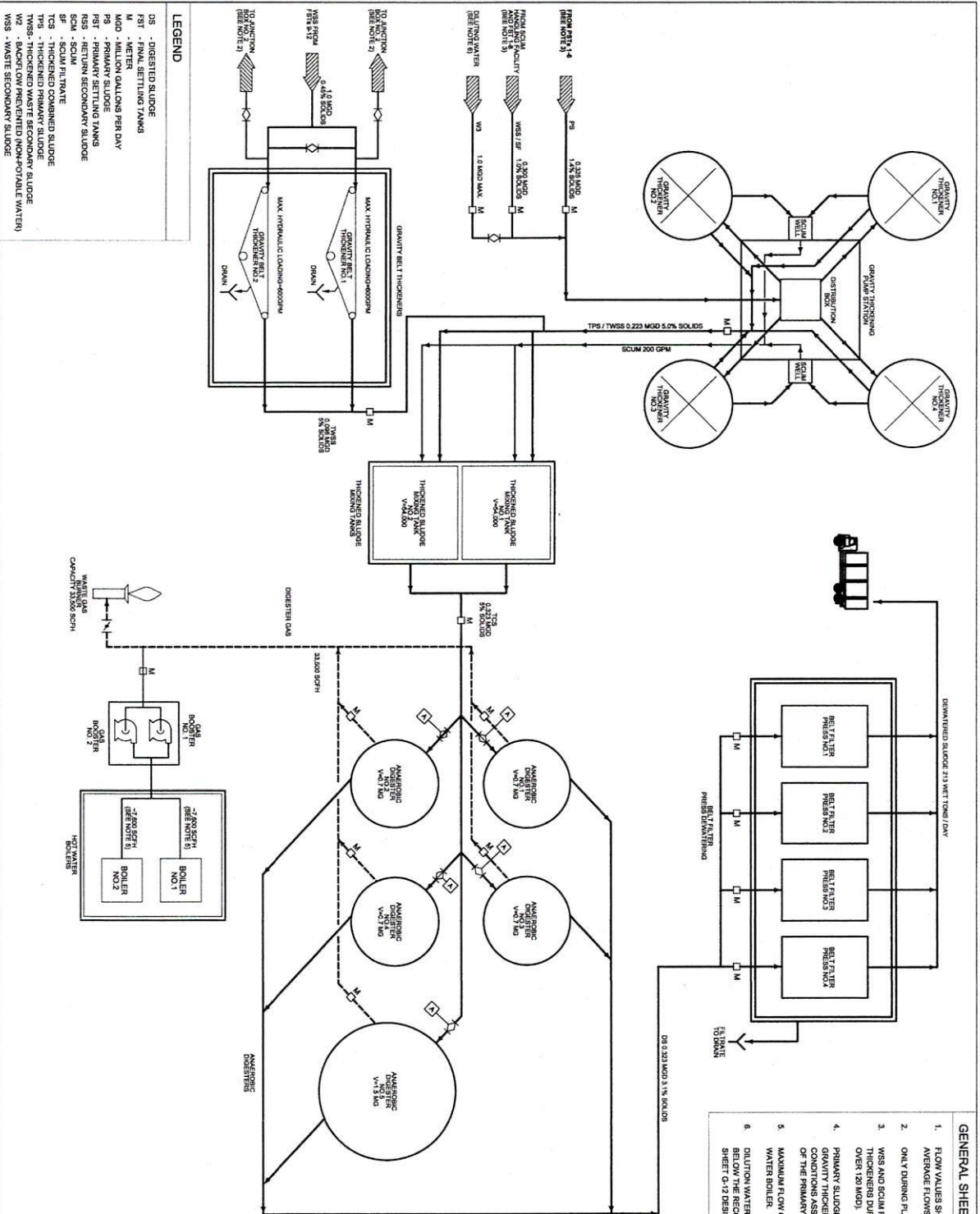
SCB - SOLIDS CONTACT BASIN

TF - TERTIARY FILTERS

WSS - WASTE SECONDARY SLUDGE

GENERAL SHEET NOTES

1. FLOW VALUES SHOWN REPRESENT THE MAXIMUM FLOW RATE FOR THE SYSTEM.
2. FLOW VALUES SHOWN REPRESENT THE MAXIMUM FLOW RATE FOR THE SYSTEM.
3. FLOW VALUES SHOWN REPRESENT THE MAXIMUM FLOW RATE FOR THE SYSTEM.
4. FLOW VALUES SHOWN REPRESENT THE MAXIMUM FLOW RATE FOR THE SYSTEM.
5. FLOW VALUES SHOWN REPRESENT THE MAXIMUM FLOW RATE FOR THE SYSTEM.



- GENERAL SHEET NOTES**
1. FLOW VALUES SHOWN REPRESENT THE MAXIMUM MONTHLY DAILY AVERAGE FLOWS AND AVERAGE CONCENTRATIONS.
 2. ONLY DURING PLANT FLOWS OVER 10 MOD.
 3. WSS AND SCUM FILTRATE WILL ONLY ENTER THE GRAVITY THICKENERS DURING PEAK FLOW SCENARIOS PLANT FLOWS OVER 120 MOD.
 4. PRIMARY THICKENERS FLOW AND SOLIDS CONCENTRATION TO GRAVITY THICKENERS WAS PROVIDED BY CH2M HILL. 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).

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:

18 ✓ Check one box. ☐ 0 = 0 points ☐ 3 = 15 points
☐ 1 = 5 points ☐ 4 = 30 points
☐ 2 = 10 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: 18 Treatment Plant: 0

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:

332 ✓ Check one box. ☐ 0 = 0 points ☐ 3 = 15 points
☐ 1 = 5 points ☐ 4 = 30 points
☐ 2 = 10 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: 331 Treatment Plant: 1

- 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.

<i>months</i>	<input checked="" type="radio"/> 2	3	4-5	6
<i>points</i>	50	30	20	10
				0

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

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.

<i>months</i>	<6	6-11	12-23	24-35	<input checked="" type="radio"/> >36
<i>points</i>	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: 1,860 cap
Design Flow: 1.57 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.

09-01-2019 to 08-31-2020						
Project Name	# of Lots	Design Pop.	Flow (gpm)	Flow (MGD)	Sewer Length (ft)	
ADC Sewer Extension (Adelia) (SD-2019-1098)	4	16	5	0.01	110	
Bellacosa 1st Filing (Infrastructure) (SD-2018-802)	108	432	131	0.19	7,669	
Clark's Ferry, 2nd Filing (SD-2019-1047)	14	56	17	0.02	477	
Cypress Bend (SD-2018-821)	72	288	87	0.13	2,558	
Fair Day Estates II (SD-2018-873)	9	36	11	0.02	292	
Fieldstone Park, 2nd Filing (SD-2019-1120)	45	180	54	0.08	2,754	
Fiero Street Townhomes (SD-2017-653)	14	56	17	0.02	335	
Highland Grove (SD-2019-1067)	11	44	13	0.02	443	
Highpointe Oak (SD-2019-1007)	4	16	5	0.01	0	4 new services
Kimbleton Estates, 3rd Filing (SD-2018-848)	6	24	7	0.01	353	
LOLO Children's Hospital Sanitary Sewer Ext. (SD-2016-299)	5	0	514	0.74	2,543	
StorageMax Bluebonnet Public Sewer Imp. (SD-2018-818)	1	0	12	0.02	268	
Summer Gardens (SD-2019-1022)	32	128	39	0.06	926	
The Park at Jefferson (SD-2019-942)	42	168	51	0.07	1,305	
Villas at White Oak (SD-2019-957)	39	156	47	0.07	1,435	
Willows at Bayou Fountain, Ph. 4 (SD-2019-1082)	65	260	79	0.11	1,497	
TOTAL	471	1,860	1,089	1.57	22,965	

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. ☒ Yes = 0 points ☐ No = 50 points

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

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

✓ Check one box. ☒ Yes ☐ No

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

✓ Check one box. ☒ > 12 hours = 0 points ☐ < 12 hours = 50 points

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

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

✓ Check one box. ☒ Yes ☐ No

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

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

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

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

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

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

Permit #:

LA0036412

PART 8: FINANCIAL STATUS

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

✓ Check one box.

☐

Yes

☒

No

If No, How are O&M costs financed?

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

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

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

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?
ii. Do you mow the dikes regularly (at least monthly), to the waters edge?
iii. Do you have bushes or trees growing on the dikes or in the ponds?
iv. Do you have excess sludge buildup (> 1foot) on the bottom of any of your ponds?
v. Do you exercise all of your valves?
vi. Are your control manholes in good structural shape?
vii. Do you maintain at least 3 feet of freeboard in all of your ponds?
viii. Do you visit your pond system at least weekly?

<input type="checkbox"/> Yes	<input type="checkbox"/> No
<input type="checkbox"/> Yes	<input type="checkbox"/> No
<input type="checkbox"/> Yes	<input type="checkbox"/> No
<input type="checkbox"/> Yes	<input type="checkbox"/> No
<input type="checkbox"/> Yes	<input type="checkbox"/> No
<input type="checkbox"/> Yes	<input type="checkbox"/> No
<input type="checkbox"/> Yes	<input type="checkbox"/> No

LA0036412 SOUTH WASTEWATER PLANT BASIN
MONITORING PERIOD - September 1, 2019 thru August 31, 2020
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, cured-in-place lining 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. 2019	Q4 2019	Q1 2020	Q2 2020	JUL/AUG 2020	Total
Lines Cleaned (ft)	26,573	54,611	155,215	89,935	96,549	422,883
CCTV Inspected (ft)	29,049	78,579	47,671	74,600	67,765	297,664
Smoke Tested (ft)	48,719	99,640	64,320	22,941	17,275	252,895
Smoke Tested (no. of locations)	0	0	0	87	53	140
Dye Water Flooded (no. of locations)	21	57	107	80	60	325
Manholes Inspected (no.)	4	25	34	53	0	116
Lines Repaired (no.)	52	159	119	117	89	536
Manholes Rehabilitated (no.)	0	183	1	4	188	376
Force Mains						
Visual Surface Inspection (Miles)	3	11.6	18.2	29.2	8	70
Repaired (no.)	0	0	0	3	0	3
Air Release Valves						
Inspected / Maintained	25	58	91	146	40	360
Repaired (no.)	0	0	4	4	1	9

Note: September 2019 and July/August 2020 data provided as a weighted average based on the quarterly data, as individual month data is not available.

- 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. 2019	Q4 2019	Q1 2020	Q2 2020	JUL/AUG 2020	Total
Inspections (no.)	74	321	718	1,336	904	3,353
Wet Wells Cleaned	34	120	150	113	119	536
Repaired (no.)	10	14	17	17	12	70

Note: September 2019 and July/August 2020 data provided as a weighted average based on the quarterly data, as individual month data is not available.

- 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.)

03/31/20
Influent flow meter calibration date(s)

03/31/20
Effluent flow meter calibration date(s)

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

NA

- 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.

☒

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 computerized maintenance management system manages the preventive maintenance of plant equipment and spare parts.

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

☒

Yes

☐

No

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

☒

Yes

☐

No

E. Sewer Use Ordinance

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

√ Check one box.

☒

Yes

☐

No

If Yes, Please describe:

Sewer User Fee Ordinance (No. 7853) limits the discharge of BOD & TSS to 200 mg/l and 250 mg/l respectively. Any discharge above these limits is surcharged at a rate of 2% of the monthly sewer user fee for each limit of 10 mg/l. Pretreatment Ordinance (No. 16120) limits the discharge of heavy metals, chemical and toxic substances.

- ii. Has it been necessary to enforce?

√ Check one box.

☒

Yes

☐

No

If Yes, Please describe:

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

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

NO

Permit #:

LA0036412

POINT CALCULATION TABLE

	Actual Values	Maximum
Part 1: <i>Influent Flow/Loadings</i>	<u>5</u>	80 points
Part 2: <i>Effluent Quality / Plant Performance</i>	<u>0</u>	100 points
Part 3: <i>Age of WWTF</i>	<u>12.5</u>	50 points
Part 4: <i>Overflows and Bypasses</i>	<u>100</u>	100 points
Part 5: <i>Ultimate Disposition of Sludge</i>	<u>50</u>	100 points
Part 6: <i>New Development</i>	<u>0</u>	30 points
Part 7: <i>Operator Certification Training</i>	<u>0</u>	100 points

TOTAL POINTS:

167.5

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 December 9, 2020 (date)

Metropolitan Council
Ashley Beck
CLERK

By Hudson
Introduction 12/24/20
P.H. 12/9/20

ADOPTED
EAST BATON ROUGE SEWAGE
COMMISSION

DEC 09 2020

Cheryl Kael
COUNCIL ADMINISTRATOR TREASURER

ADOPTED
METROPOLITAN COUNCIL

DEC 09 2020

Cheryl Kael
COUNCIL ADMINISTRATOR TREASURER

20-01418

RESOLUTION **55340**

EBROSCO RESOLUTION **8524**

AUTHORIZING THE MAYOR-PRESIDENT AND/OR
EBROSCO TO APPROVE THE SUBMITTAL OF THE
LOUISIANA MUNICIPAL WATER POLLUTION
PREVENTION (MWPP) ENVIRONMENTAL AUDIT FOR THE
SOUTH TREATMENT PLANT (LA0036412 AI#4841) TO
THE LOUISIANA DEPARTMENT OF ENVIRONMENTAL
QUALITY (LDEQ) FOR THE MONITORING PERIOD OF
SEPTEMBER 1, 2019 THROUGH AUGUST 31, 2020.

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

Section 1. The Mayor-President, on behalf of the City of
Baton Rouge and Parish of East Baton Rouge, and/or the East Baton
Rouge Sewerage Commission, represented by President of said
Commission, are hereby authorized to approve the submittal of the
Louisiana Municipal Water Pollution Prevention (MWPP)
Environmental Audit for the South Treatment Plant (LA0036412
AI#4841) to the Louisiana Department of Environmental Quality
(LDEQ) for the monitoring period of September 1, 2019 through
August 31, 2020.

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

2020 Annual Report Attachment C

Environmental Results Monitoring

**Environmental Results Monitoring Program Phase 2
Quarter 4 Results**

100 North Street, Suite 901
Baton Rouge, LA 70802

www.jacobs.com

Subject	Environmental Results Monitoring Program Phase 2, Quarter 4 Results	Project Name	Baton Rouge SSOP
Attention	Mr. Richard Speer, P.E. Director, Department of Environmental Services City of Baton Rouge, Louisiana	Project No.	BTRSSO16
From	Patrick Gervais		
Date	February 18, 2020		

Purpose

On February 6, 2020, the City of Baton Rouge, Parish of East Baton Rouge conducted the 4th quarterly Phase 2 Baseline Monitoring event, as required by the 2002 Consent Decree. The purpose of this memorandum is to characterize the rain event, summarize the sampling procedures, and report laboratory analysis results. Background information on the Environmental Results Monitoring (ERM) program can be found in the ERM Plan (Exhibit G of the Consent Decree).

Rain Event

Rainfall data was recorded at USGS monitoring stations located upstream of each of the designated sample locations. The locations of the observed USGS monitoring stations are shown in Figure 1.

Cumulative precipitation from the rain event over February 5-6, 2020 is shown in Figure 2. The event lasted approximately 18 hours, with the highest-intensity rainfall occurring during 11:00 PM on February 5th to 3:30 AM on the 6th. A summary of the rainfall at each sample site is provided in Table 1.

Procedures

One grab sample was taken from each of the five designated sample sites between the hours of 2:04 PM and 3:35 PM. Samples were taken from the approximate center of each stream. Grab samples from each site were poured into three separate laboratory-prepared sample containers, which were labeled with the sample date, time, and location name immediately following sample collection. Samples were stored on ice and delivered to the laboratory immediately following collection of the final sample.

All samples were analyzed at a laboratory for the parameters established in the ERM plan, which include fecal coliform, fecal streptococcus, and enterococcus. Sample holding times and laboratory procedures conformed with those outlines in the USEPA "Methods for Chemical Analysis of Water and Wastes", 1983, and USEPA "Test Methods for the Examination of Solid Waste – SW846", 1992.

Results

Results of laboratory analyses are summarized in Table 2. Further analysis of these results based on future water quality and stream flow data will be conducted upon completion of Phase I Baseline Monitoring. Gage height data from February 4-8, 2020, recorded at USGS stream flow monitoring stations upstream of each sample location, are shown in Figure 3.

Tables

Table 1: Rainfall Summary for Phase 2, Quarter 4

Location	Sample Date and Time	Peak Intensity Date and Time	Peak Intensity (in/hr)	Total Rainfall (in)
Baton Rouge Metro Airport ^a	2/6/20 2:04 PM	2/5/20 11:00 PM	0.71	2.30
Bayou Fountain at Grand Lakes Dr.	2/6/20 2:15 PM	2/5/20 11:45 PM	0.77	1.87
Comite R. at Port Hudson-Pride Rd.	2/6/20 2:41 PM	2/5/20 9:15 PM	0.81	2.99
Jones Cr. at O'Neal Ln.	2/6/20 2:50 PM	2/6/20 3:30 AM	0.61	1.20
Ward Cr. at Highland Rd.	2/6/20 3:35 PM	2/6/20 12:15 AM	1.21	1.97

^a The Comite River at Greenwell Springs gage does not have a precipitation gage. The hourly rainfall recorded at Baton Rouge airport is listed as a substitute for rainfall recorded at the gage.

in: Inches; hr: Hour

Table 2: Water Quality Sampling Results for Phase 2, Quarter 4

Location	Sample Date and Time	Enterococci (MPN/100 mL)	Fecal Coliform (MPN/ 100 mL)
Comite R. at Greenwell Springs Rd.	2/6/20 2:04 PM	19,900	> 24,100
Bayou Fountain at Grand Lakes Dr.	2/6/20 2:15 PM	> 24,100	15,500
Comite R. at Port Hudson-Pride Rd.	2/6/20 2:41 PM	> 24,100	> 24,100
Jones Cr. at O'Neal Ln.	2/6/20 2:50 PM	> 24,100	> 24,100
Ward Cr. at Highland Rd.	2/6/20 3:35 PM	> 24,100	> 24,100

MPN: Most Probable Number; mL: Milliliters

Figures

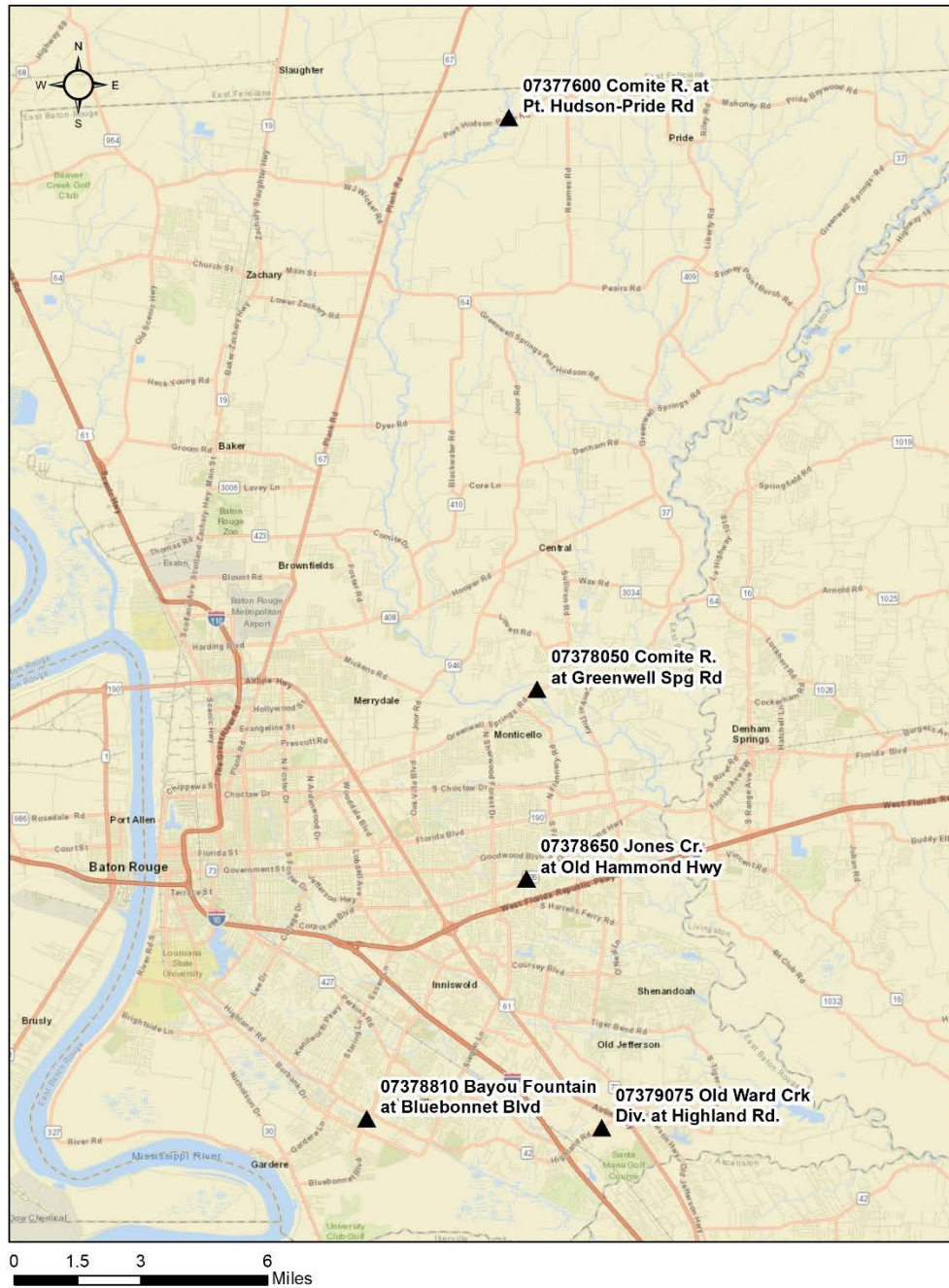


Figure 1: Sampling Locations

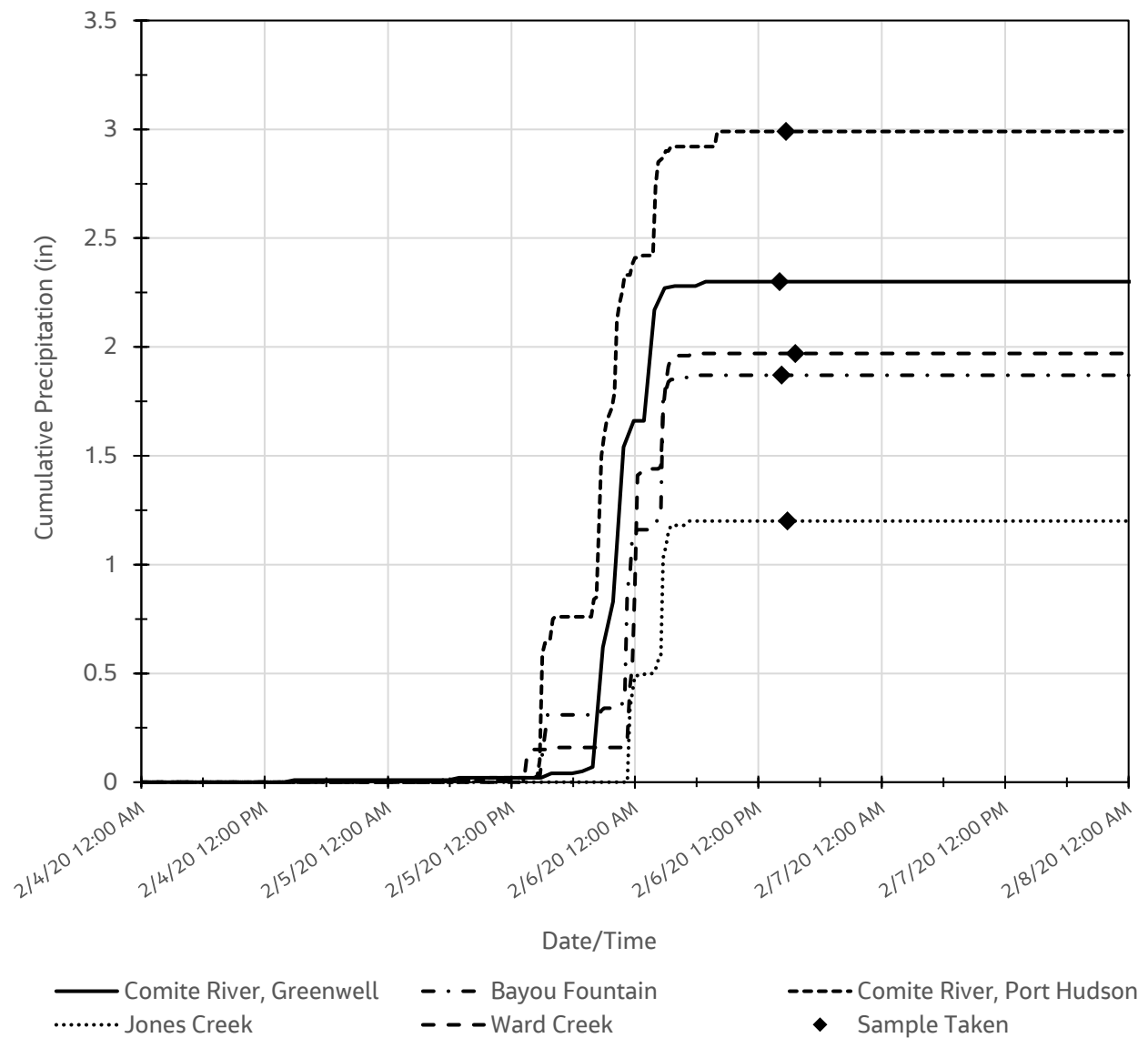


Figure 2: Cumulative Precipitation – February 4-8, 2020

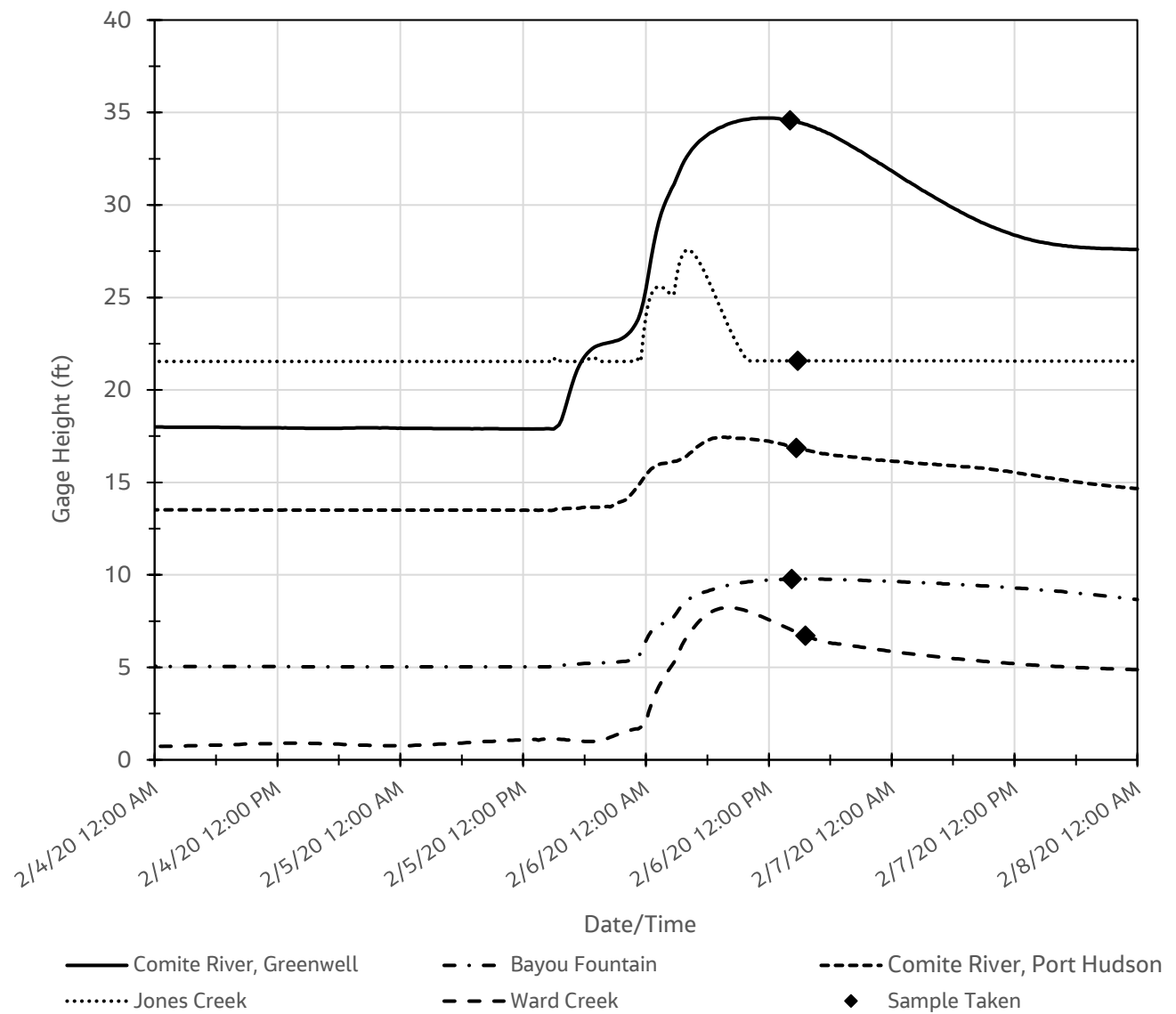


Figure 3: USGS Gage Height – February 4-8, 2020



Element Materials Technology Lafayette
2417 W. Pinhook Road
Lafayette, LA 70508-3344
TEL: (337) 235-0483 FAX: (337) 233-6540
Website: www.element.com

February 10, 2020

Sarah Boudreaux
East Baton Rouge Parish Pretreatment Division
345 Chippewa St.
Baton Rouge, LA 70805
TEL:
FAX:

RE: BF-0220-D

Order No.: 20020238

Dear Sarah Boudreaux:

Element Materials Technology Lafayette received 1 sample(s) on 2/6/2020 for the analyses presented in the following report.

In accordance with your instructions Element Lafayette conducted the analysis shown on the following pages on samples submitted by your company. The results related only to the items tested. Unless otherwise noted, all analyses were conducted using EPA approved methodologies and all test results meet all requirements of TNI. All relevant sampling information is on the attached Chain-of-Custody form.

Where applicable, all soil data, except for 29-B, are on a wet-weight basis unless otherwise indicated in the units field as –dry.

LELAP Certification No.: 01997. TCEQ Certification No.: T104704261. LDHH Certification No.: LA023. ISDH Certification No.: C-LA-01. NDELCP Certification No.: R-226. A scope of accredited parameters is available upon request. A "#" by the test method or analyte indicates this parameter is outside the scope of accreditation.

Estimated uncertainty is available upon request. This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding these test results, please feel free to call.

Cristina Thibaux
Customer Service Supervisor
2417 W. Pinhook Road
Lafayette, LA 70508-3344



Element Materials Technology Lafayette
2417 W. Pinhook Road
Lafayette, LA 70508-3344
TEL: (337) 235-0483 FAX: (337) 233-6540
Website: www.element.com

Case Narrative

WO#: 20020238
Date: 2/10/2020

CLIENT: East Baton Rouge Parish Pretreatment Divi
Project: BF-0220-D

Unless specified by the client, a duplicate or MS/MSD, wherever applicable, is randomly selected and analyzed from each analytical batch provided sample volume is sufficient. The sample chosen for duplicate or MS/MSD may or may not be a sample submitted in this workorder. A method blank and/or a lab control sample (LCS)/lab control sample duplicate (LCSD), wherever applicable, are processed as a quality control check for each analytical batch. When the matrix QC data is not available due to insufficient sample volume or when the results indicate possible matrix effect, the validity of the batch is determined by the method blank and LCS/LCSD.

The results of the laboratory internal quality control data are provided in the QC Summary Report section of the report for your review. Laboratory-related QC exceptions that may impact the validity of data are discussed in the case narrative. Sample-related QC exceptions are flagged either in the results page(s) or in the QC report page(s). End users should consider QC exceptions when evaluating sample data against data quality objectives.

Any other exceptions associated with this report will be footnoted in the results page(s) or the QC summary page(s).



Element Materials Technology Lafayette
2417 W. Pinhook Road
Lafayette, LA 70508-3344
TEL: (337) 235-0483 FAX: (337) 233-6540
Website: www.element.com

Analytical Report

(consolidated)

WO#: 20020238

Date Reported: 2/10/2020

CLIENT: East Baton Rouge Parish Pretreatment Division **Collection Date:** 2/6/2020 2:15:00 PM
Project: BF-0220-D
Lab ID: 20020238-001 **Matrix:** AQUEOUS
Client Sample ID BF-0220-D

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ENTEROCOCCI BY IDEXX ENTEROLERT-E WITH QUANTI-TRAY				SM9230D	Analyst: BXB	
Enterococci	>24100	10.0		MPN/100mL	10	2/6/2020 5:45:00 PM
FECAL COLIFORM USING COLILERT-18 WITH QUANTI-TRAY				COLILERT-18	Analyst: KML	
Fecal Coliform	15,500	10.0		MPN/100mL	10	2/6/2020 5:45:00 PM

Qualifiers:	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	SDL	Sample detection limit	U	Analyte not detected
	W	Sample container temperature is out of limit as specified at testcode		



Element Materials Technology Lafayette
2417 W. Pinhook Road
Lafayette, LA 70508-3344
TEL: (337) 235-0483 FAX: (337) 233-6540
Website: www.element.com

QC SUMMARY REPORT

WO#: 20020238
10-Feb-20

Client: East Baton Rouge Parish Pretreatment Division
Project: BF-0220-D

BatchID: R85909

Sample ID: MB-85909	SampType: MBLK	TestCode: FECAL_COLI	Units: MPN/100mL	Prep Date:	RunNo: 85909						
Client ID: PBW	Batch ID: R85909	TestNo: Colilert-18		Analysis Date: 2/6/2020	SeqNo: 2152454						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fecal Coliform	< 1.0	1.0									

Sample ID: 20020240-001ADUP	SampType: DUP	TestCode: FECAL_COLI	Units: MPN/100mL	Prep Date:	RunNo: 85909						
Client ID: ZZZZZZ	Batch ID: R85909	TestNo: Colilert-18		Analysis Date: 2/6/2020	SeqNo: 2152456						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fecal Coliform	>24100	10.0						24,100	0	20	

Qualifiers: H Holding times for preparation or analysis exceeded
RL Reporting Limit
W Sample container temperature is out of limit as specified at testcode

M Matrix Interference
SDL Sample detection limit

ND Not Detected at the Reporting Limit
U Analyte not detected



Element Materials Technology Lafayette
2417 W. Pinhook Road
Lafayette, LA 70508-3344
TEL: (337) 235-0483 FAX: (337) 233-6540
Website: www.element.com

QC SUMMARY REPORT

WO#: 20020238
10-Feb-20

Client: East Baton Rouge Parish Pretreatment Division
Project: BF-0220-D

BatchID: R85950

Sample ID: MB-R85950	SampType: MBLK	TestCode: ENTEROCOC	Units: MPN/100mL	Prep Date:	RunNo: 85950						
Client ID: PBW	Batch ID: R85950	TestNo: SM9230D		Analysis Date: 2/6/2020	SeqNo: 2153134						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Enterococci	< 1.0	1.0									

Sample ID: 20020238-001ADUP	SampType: DUP	TestCode: ENTEROCOC	Units: MPN/100mL	Prep Date:	RunNo: 85950						
Client ID: BF-0220-D	Batch ID: R85950	TestNo: SM9230D		Analysis Date: 2/6/2020	SeqNo: 2153140						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Enterococci	>24100	10.0						24,100	0	20	

Qualifiers: H Holding times for preparation or analysis exceeded
RL Reporting Limit
W Sample container temperature is out of limit as specified at testcode

M Matrix Interference
SDL Sample detection limit

ND Not Detected at the Reporting Limit
U Analyte not detected



Element Materials Technology Lafayette
2417 W. Pinhook Road
Lafayette, LA 70508-3344
TEL: (337) 235-0483 FAX: (337) 233-6540
Website: www.element.com

Sample Log-In Check List

Client Name: **EAST_BR_PRETREATM**

Work Order Number: **20020238**

RcptNo: **1**

Logged by: **Danielle Hollier** **2/6/2020 5:05:00 PM**

Completed By: **Danielle Hollier** **2/6/2020 5:15:24 PM**

Reviewed By: **Caitlin Duplantis** **2/7/2020 1:58:57 PM**

Danielle Hollier
Danielle Hollier
Caitlin Duplantis

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes ☒ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☒ No ☐
Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒
No. Seal Date: Signed By:
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
6. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes ☐ No ☐ No VOA Vials ☒
12. Were any sample containers received broken? Yes ☐ No ☒
13. Does paperwork match bottle labels? Yes ☒ No ☐
(Note discrepancies on chain of custody)
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
15. Is it clear what analyses were requested? Yes ☒ No ☐
16. Were all holding times able to be met? Yes ☒ No ☐
(If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

18. Additional remarks:

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.5	Good	Not Present			

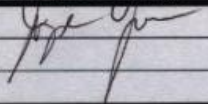
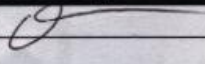
20020238



Chain of Custody Record for Fecal Coliform Testing

Wastewater Treatment Laboratory
2443 River Rd.
Baton Rouge, LA 70802

Sampler Name	Date	Time Taken	Site/Location	Comments/Remarks
D. Mesa	2/6/20	2:15 pm	Grand Lakes / Bayou Fountain	BF-0220-D

Relinquished By:	Received By:	Time:	Date:
		1705	2-6-20

Temp: 2.5^{°C}
JH 12/10



Element Materials Technology Lafayette
2417 W. Pinhook Road
Lafayette, LA 70508-3344
TEL: (337) 235-0483 FAX: (337) 233-6540
Website: www.element.com

February 10, 2020

Sarah Boudreaux
East Baton Rouge Parish Pretreatment Division
345 Chippewa St.
Baton Rouge, LA 70805
TEL:
FAX:

RE: CR-0220-W

Order No.: 20020241

Dear Sarah Boudreaux:

Element Materials Technology Lafayette received 1 sample(s) on 2/6/2020 for the analyses presented in the following report.

In accordance with your instructions Element Lafayette conducted the analysis shown on the following pages on samples submitted by your company. The results related only to the items tested. Unless otherwise noted, all analyses were conducted using EPA approved methodologies and all test results meet all requirements of TNI. All relevant sampling information is on the attached Chain-of-Custody form.

Where applicable, all soil data, except for 29-B, are on a wet-weight basis unless otherwise indicated in the units field as –dry.

LELAP Certification No.: 01997. TCEQ Certification No.: T104704261. LDHH Certification No.: LA023. ISDH Certification No.: C-LA-01. NDELCP Certification No.: R-226. A scope of accredited parameters is available upon request. A "#" by the test method or analyte indicates this parameter is outside the scope of accreditation.

Estimated uncertainty is available upon request. This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding these test results, please feel free to call.

Cristina Thibaux
Customer Service Supervisor
2417 W. Pinhook Road
Lafayette, LA 70508-3344



Element Materials Technology Lafayette
2417 W. Pinhook Road
Lafayette, LA 70508-3344
TEL: (337) 235-0483 FAX: (337) 233-6540
Website: www.element.com

Case Narrative

WO#: 20020241
Date: 2/10/2020

CLIENT: East Baton Rouge Parish Pretreatment Divi
Project: CR-0220-W

Unless specified by the client, a duplicate or MS/MSD, wherever applicable, is randomly selected and analyzed from each analytical batch provided sample volume is sufficient. The sample chosen for duplicate or MS/MSD may or may not be a sample submitted in this workorder. A method blank and/or a lab control sample (LCS)/lab control sample duplicate (LCSD), wherever applicable, are processed as a quality control check for each analytical batch. When the matrix QC data is not available due to insufficient sample volume or when the results indicate possible matrix effect, the validity of the batch is determined by the method blank and LCS/LCSD.

The results of the laboratory internal quality control data are provided in the QC Summary Report section of the report for your review. Laboratory-related QC exceptions that may impact the validity of data are discussed in the case narrative. Sample-related QC exceptions are flagged either in the results page(s) or in the QC report page(s). End users should consider QC exceptions when evaluating sample data against data quality objectives.

Any other exceptions associated with this report will be footnoted in the results page(s) or the QC summary page(s).



Element Materials Technology Lafayette
2417 W. Pinhook Road
Lafayette, LA 70508-3344
TEL: (337) 235-0483 FAX: (337) 233-6540
Website: www.element.com

Analytical Report

(consolidated)

WO#: 20020241

Date Reported: 2/10/2020

CLIENT: East Baton Rouge Parish Pretreatment Division **Collection Date:** 2/6/2020 2:04:00 PM
Project: CR-0220-W
Lab ID: 20020241-001 **Matrix:** AQUEOUS
Client Sample ID CR-0220-W

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ENTEROCOCCI BY IDEXX ENTEROLERT-E WITH QUANTI-TRAY				SM9230D		Analyst: BXB
Enterococci	19,900	10.0		MPN/100mL	10	2/6/2020 5:45:00 PM
FECAL COLIFORM USING COLILERT-18 WITH QUANTI-TRAY				COLILERT-18		Analyst: KML
Fecal Coliform	>24100	10.0		MPN/100mL	10	2/6/2020 5:45:00 PM

Qualifiers:	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	SDL	Sample detection limit	U	Analyte not detected
	W	Sample container temperature is out of limit as specified at testcode		



Element Materials Technology Lafayette
2417 W. Pinhook Road
Lafayette, LA 70508-3344
TEL: (337) 235-0483 FAX: (337) 233-6540
Website: www.element.com

QC SUMMARY REPORT

WO#: 20020241
10-Feb-20

Client: East Baton Rouge Parish Pretreatment Division
Project: CR-0220-W

BatchID: R85909

Sample ID: MB-85909	SampType: MBLK	TestCode: FECAL_COLI	Units: MPN/100mL	Prep Date:	RunNo: 85909						
Client ID: PBW	Batch ID: R85909	TestNo: Colilert-18		Analysis Date: 2/6/2020	SeqNo: 2152454						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fecal Coliform	< 1.0	1.0									

Sample ID: 20020240-001ADUP	SampType: DUP	TestCode: FECAL_COLI	Units: MPN/100mL	Prep Date:	RunNo: 85909						
Client ID: ZZZZZZ	Batch ID: R85909	TestNo: Colilert-18		Analysis Date: 2/6/2020	SeqNo: 2152456						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fecal Coliform	>24100	10.0						24,100	0	20	

Qualifiers: H Holding times for preparation or analysis exceeded
RL Reporting Limit
W Sample container temperature is out of limit as specified at testcode

M Matrix Interference
SDL Sample detection limit

ND Not Detected at the Reporting Limit
U Analyte not detected



Element Materials Technology Lafayette
2417 W. Pinhook Road
Lafayette, LA 70508-3344
TEL: (337) 235-0483 FAX: (337) 233-6540
Website: www.element.com

QC SUMMARY REPORT

WO#: 20020241
10-Feb-20

Client: East Baton Rouge Parish Pretreatment Division
Project: CR-0220-W

BatchID: R85950

Sample ID: MB-R85950	SampType: MBLK	TestCode: ENTEROCOC	Units: MPN/100mL	Prep Date:	RunNo: 85950						
Client ID: PBW	Batch ID: R85950	TestNo: SM9230D		Analysis Date: 2/6/2020	SeqNo: 2153134						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Enterococci	< 1.0	1.0									

Sample ID: 20020238-001ADUP	SampType: DUP	TestCode: ENTEROCOC	Units: MPN/100mL	Prep Date:	RunNo: 85950						
Client ID: ZZZZZZ	Batch ID: R85950	TestNo: SM9230D		Analysis Date: 2/6/2020	SeqNo: 2153140						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Enterococci	>24100	10.0						24,100	0	20	

Qualifiers: H Holding times for preparation or analysis exceeded
RL Reporting Limit
W Sample container temperature is out of limit as specified at testcode

M Matrix Interference
SDL Sample detection limit

ND Not Detected at the Reporting Limit
U Analyte not detected



Element Materials Technology Lafayette
2417 W. Pinhook Road
Lafayette, LA 70508-3344
TEL: (337) 235-0483 FAX: (337) 233-6540
Website: www.element.com

Sample Log-In Check List

Client Name: **EAST_BR_PRETREATM**

Work Order Number: **20020241**

RcptNo: **1**

Logged by: **Danielle Hollier** **2/6/2020 5:05:00 PM**

Completed By: **Danielle Hollier** **2/6/2020 5:21:10 PM**

Reviewed By: **Caitlin Duplantis** **2/7/2020 2:01:59 PM**

Danielle Hollier
Danielle Hollier
Caitlin Duplantis

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes ☒ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☒ No ☐
Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒
No. Seal Date: Signed By:
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
6. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes ☐ No ☐ No VOA Vials ☒
12. Were any sample containers received broken? Yes ☐ No ☒
13. Does paperwork match bottle labels? Yes ☒ No ☐
(Note discrepancies on chain of custody)
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
15. Is it clear what analyses were requested? Yes ☒ No ☐
16. Were all holding times able to be met? Yes ☒ No ☐
(If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

18. Additional remarks:

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.5	Good	Not Present			

20020541

**Chain of Custody Record for Fecal Coliform Testing**

Wastewater Treatment Laboratory
2443 River Rd.
Baton Rouge, LA 70802

Sampler Name	Date	Time Taken	Site/Location	Comments/Remarks
WILLIAM FRESHBURN	2/6/20	2:04 PM	Greenwell Springs - Covington River	CR-0220 - W

Relinquished By:	Received By:	Time:	Date:
<i>[Signature]</i>	<i>[Signature]</i>	2-6-20 2:1705	2-6-20

Temp: 2.5°
2/6/20



Element Materials Technology Lafayette
2417 W. Pinhook Road
Lafayette, LA 70508-3344
TEL: (337) 235-0483 FAX: (337) 233-6540
Website: www.element.com

February 10, 2020

Sarah Boudreaux
East Baton Rouge Parish Pretreatment Division
345 Chippewa St.
Baton Rouge, LA 70805
TEL:
FAX:

RE: JC-0220-D

Order No.: 20020239

Dear Sarah Boudreaux:

Element Materials Technology Lafayette received 1 sample(s) on 2/6/2020 for the analyses presented in the following report.

In accordance with your instructions Element Lafayette conducted the analysis shown on the following pages on samples submitted by your company. The results related only to the items tested. Unless otherwise noted, all analyses were conducted using EPA approved methodologies and all test results meet all requirements of TNI. All relevant sampling information is on the attached Chain-of-Custody form.

Where applicable, all soil data, except for 29-B, are on a wet-weight basis unless otherwise indicated in the units field as –dry.

LELAP Certification No.: 01997. TCEQ Certification No.: T104704261. LDHH Certification No.: LA023. ISDH Certification No.: C-LA-01. NDELCP Certification No.: R-226. A scope of accredited parameters is available upon request. A "#" by the test method or analyte indicates this parameter is outside the scope of accreditation.

Estimated uncertainty is available upon request. This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding these test results, please feel free to call.

A handwritten signature in blue ink, appearing to read 'Cristina Thibaux'.

Cristina Thibaux
Customer Service Supervisor
2417 W. Pinhook Road
Lafayette, LA 70508-3344



Element Materials Technology Lafayette
2417 W. Pinhook Road
Lafayette, LA 70508-3344
TEL: (337) 235-0483 FAX: (337) 233-6540
Website: www.element.com

Case Narrative

WO#: 20020239
Date: 2/10/2020

CLIENT: East Baton Rouge Parish Pretreatment Divi
Project: JC-0220-D

Unless specified by the client, a duplicate or MS/MSD, wherever applicable, is randomly selected and analyzed from each analytical batch provided sample volume is sufficient. The sample chosen for duplicate or MS/MSD may or may not be a sample submitted in this workorder. A method blank and/or a lab control sample (LCS)/lab control sample duplicate (LCSD), wherever applicable, are processed as a quality control check for each analytical batch. When the matrix QC data is not available due to insufficient sample volume or when the results indicate possible matrix effect, the validity of the batch is determined by the method blank and LCS/LCSD.

The results of the laboratory internal quality control data are provided in the QC Summary Report section of the report for your review. Laboratory-related QC exceptions that may impact the validity of data are discussed in the case narrative. Sample-related QC exceptions are flagged either in the results page(s) or in the QC report page(s). End users should consider QC exceptions when evaluating sample data against data quality objectives.

Any other exceptions associated with this report will be footnoted in the results page(s) or the QC summary page(s).



Element Materials Technology Lafayette
2417 W. Pinhook Road
Lafayette, LA 70508-3344
TEL: (337) 235-0483 FAX: (337) 233-6540
Website: www.element.com

Analytical Report

(consolidated)

WO#: 20020239

Date Reported: 2/10/2020

CLIENT: East Baton Rouge Parish Pretreatment Division **Collection Date:** 2/6/2020 2:50:00 PM
Project: JC-0220-D
Lab ID: 20020239-001 **Matrix:** AQUEOUS
Client Sample ID: JC-0220-D

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ENTEROCOCCI BY IDEXX ENTEROLERT-E WITH QUANTI-TRAY				SM9230D		Analyst: BXB
Enterococci	>24100	10.0		MPN/100mL	10	2/6/2020 5:45:00 PM
FECAL COLIFORM USING COLILERT-18 WITH QUANTI-TRAY				COLILERT-18		Analyst: KML
Fecal Coliform	>24100	10.0		MPN/100mL	10	2/6/2020 5:45:00 PM

Qualifiers:	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	SDL	Sample detection limit	U	Analyte not detected
	W	Sample container temperature is out of limit as specified at testcode		



Element Materials Technology Lafayette
2417 W. Pinhook Road
Lafayette, LA 70508-3344
TEL: (337) 235-0483 FAX: (337) 233-6540
Website: www.element.com

QC SUMMARY REPORT

WO#: 20020239
10-Feb-20

Client: East Baton Rouge Parish Pretreatment Division
Project: JC-0220-D

BatchID: R85909

Sample ID: MB-85909	SampType: MBLK	TestCode: FECAL_COLI	Units: MPN/100mL	Prep Date:	RunNo: 85909						
Client ID: PBW	Batch ID: R85909	TestNo: Colilert-18		Analysis Date: 2/6/2020	SeqNo: 2152454						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fecal Coliform	< 1.0	1.0									

Sample ID: 20020240-001ADUP	SampType: DUP	TestCode: FECAL_COLI	Units: MPN/100mL	Prep Date:	RunNo: 85909						
Client ID: ZZZZZZ	Batch ID: R85909	TestNo: Colilert-18		Analysis Date: 2/6/2020	SeqNo: 2152456						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fecal Coliform	>24100	10.0						24,100	0	20	

Qualifiers: H Holding times for preparation or analysis exceeded
RL Reporting Limit
W Sample container temperature is out of limit as specified at testcode

M Matrix Interference
SDL Sample detection limit

ND Not Detected at the Reporting Limit
U Analyte not detected



Element Materials Technology Lafayette
2417 W. Pinhook Road
Lafayette, LA 70508-3344
TEL: (337) 235-0483 FAX: (337) 233-6540
Website: www.element.com

QC SUMMARY REPORT

WO#: 20020239
10-Feb-20

Client: East Baton Rouge Parish Pretreatment Division
Project: JC-0220-D

BatchID: R85950

Sample ID: MB-R85950	SampType: MBLK	TestCode: ENTEROCOC	Units: MPN/100mL	Prep Date:	RunNo: 85950						
Client ID: PBW	Batch ID: R85950	TestNo: SM9230D		Analysis Date: 2/6/2020	SeqNo: 2153134						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Enterococci	< 1.0	1.0									
-------------	-------	-----	--	--	--	--	--	--	--	--	--

Sample ID: 20020238-001ADUP	SampType: DUP	TestCode: ENTEROCOC	Units: MPN/100mL	Prep Date:	RunNo: 85950						
Client ID: ZZZZZZ	Batch ID: R85950	TestNo: SM9230D		Analysis Date: 2/6/2020	SeqNo: 2153140						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Enterococci	>24100	10.0						24,100	0	20	
-------------	--------	------	--	--	--	--	--	--------	---	----	--

Qualifiers:

H	Holding times for preparation or analysis exceeded
RL	Reporting Limit
W	Sample container temperature is out of limit as specified at testcode

M	Matrix Interference
SDL	Sample detection limit

ND	Not Detected at the Reporting Limit
U	Analyte not detected



Element Materials Technology Lafayette
2417 W. Pinhook Road
Lafayette, LA 70508-3344
TEL: (337) 235-0483 FAX: (337) 233-6540
Website: www.element.com

Sample Log-In Check List

Client Name: **EAST_BR_PRETREATM**

Work Order Number: **20020239**

RcptNo: **1**

Logged by: **Danielle Hollier** **2/6/2020 5:05:00 PM**

Completed By: **Danielle Hollier** **2/6/2020 5:17:53 PM**

Reviewed By: **Caitlin Duplantis** **2/7/2020 2:00:07 PM**

Danielle Hollier
Danielle Hollier
Caitlin Duplantis

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes ☒ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☒ No ☐
Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒
No. Seal Date: Signed By:
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
6. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes ☐ No ☐ No VOA Vials ☒
12. Were any sample containers received broken? Yes ☐ No ☒
13. Does paperwork match bottle labels? Yes ☒ No ☐
(Note discrepancies on chain of custody)
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
15. Is it clear what analyses were requested? Yes ☒ No ☐
16. Were all holding times able to be met? Yes ☒ No ☐
(If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

18. Additional remarks:

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.5	Good	Not Present			

20020239

**Chain of Custody Record for Fecal Coliform Testing**

Wastewater Treatment Laboratory
2443 River Rd.
Baton Rouge, LA 70802

Sampler Name	Date	Time Taken	Site/Location	Comments/Remarks
D. Mesa	2/6/20	2:50pm	O'Neal Jones Creek	JC-0220-D

Relinquished By:	Received By:	Time:	Date:
		1705	2-6-20

Temp: 2.5^a
SHIRIO



Element Materials Technology Lafayette
2417 W. Pinhook Road
Lafayette, LA 70508-3344
TEL: (337) 235-0483 FAX: (337) 233-6540
Website: www.element.com

February 10, 2020

Sarah Boudreaux
East Baton Rouge Parish Pretreatment Division
345 Chippewa St.
Baton Rouge, LA 70805
TEL:
FAX:

RE: CRN-0220-W

Order No.: 20020242

Dear Sarah Boudreaux:

Element Materials Technology Lafayette received 1 sample(s) on 2/6/2020 for the analyses presented in the following report.

In accordance with your instructions Element Lafayette conducted the analysis shown on the following pages on samples submitted by your company. The results related only to the items tested. Unless otherwise noted, all analyses were conducted using EPA approved methodologies and all test results meet all requirements of TNI. All relevant sampling information is on the attached Chain-of-Custody form.

Where applicable, all soil data, except for 29-B, are on a wet-weight basis unless otherwise indicated in the units field as –dry.

LELAP Certification No.: 01997. TCEQ Certification No.: T104704261. LDHH Certification No.: LA023. ISDH Certification No.: C-LA-01. NDELCP Certification No.: R-226. A scope of accredited parameters is available upon request. A "#" by the test method or analyte indicates this parameter is outside the scope of accreditation.

Estimated uncertainty is available upon request. This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding these test results, please feel free to call.

Cristina Thibeaux
Customer Service Supervisor
2417 W. Pinhook Road
Lafayette, LA 70508-3344



Element Materials Technology Lafayette
2417 W. Pinhook Road
Lafayette, LA 70508-3344
TEL: (337) 235-0483 FAX: (337) 233-6540
Website: www.element.com

Case Narrative

WO#: 20020242
Date: 2/10/2020

CLIENT: East Baton Rouge Parish Pretreatment Divi
Project: CRN-0220-W

Unless specified by the client, a duplicate or MS/MSD, wherever applicable, is randomly selected and analyzed from each analytical batch provided sample volume is sufficient. The sample chosen for duplicate or MS/MSD may or may not be a sample submitted in this workorder. A method blank and/or a lab control sample (LCS)/lab control sample duplicate (LCSD), wherever applicable, are processed as a quality control check for each analytical batch. When the matrix QC data is not available due to insufficient sample volume or when the results indicate possible matrix effect, the validity of the batch is determined by the method blank and LCS/LCSD.

The results of the laboratory internal quality control data are provided in the QC Summary Report section of the report for your review. Laboratory-related QC exceptions that may impact the validity of data are discussed in the case narrative. Sample-related QC exceptions are flagged either in the results page(s) or in the QC report page(s). End users should consider QC exceptions when evaluating sample data against data quality objectives.

Any other exceptions associated with this report will be footnoted in the results page(s) or the QC summary page(s).



Element Materials Technology Lafayette
2417 W. Pinhook Road
Lafayette, LA 70508-3344
TEL: (337) 235-0483 FAX: (337) 233-6540
Website: www.element.com

Analytical Report

(consolidated)

WO#: 20020242

Date Reported: 2/10/2020

CLIENT: East Baton Rouge Parish Pretreatment Division **Collection Date:** 2/6/2020 2:41:00 PM
Project: CRN-0220-W
Lab ID: 20020242-001 **Matrix:** AQUEOUS
Client Sample ID CRN-0220-W

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ENTEROCOCCI BY IDEXX ENTEROLERT-E WITH QUANTI-TRAY				SM9230D	Analyst: BXB	
Enterococci	>24100	10.0		MPN/100mL	10	2/6/2020 5:45:00 PM
FECAL COLIFORM USING COLILERT-18 WITH QUANTI-TRAY				COLILERT-18	Analyst: KML	
Fecal Coliform	>24100	10.0		MPN/100mL	10	2/6/2020 5:45:00 PM

Qualifiers:	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	SDL	Sample detection limit	U	Analyte not detected
	W	Sample container temperature is out of limit as specified at testcode		



Element Materials Technology Lafayette
2417 W. Pinhook Road
Lafayette, LA 70508-3344
TEL: (337) 235-0483 FAX: (337) 233-6540
Website: www.element.com

QC SUMMARY REPORT

WO#: 20020242
10-Feb-20

Client: East Baton Rouge Parish Pretreatment Division
Project: CRN-0220-W

BatchID: R85909

Sample ID: MB-85909	SampType: MBLK	TestCode: FECAL_COLI	Units: MPN/100mL	Prep Date:	RunNo: 85909						
Client ID: PBW	Batch ID: R85909	TestNo: Colilert-18		Analysis Date: 2/6/2020	SeqNo: 2152454						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fecal Coliform	< 1.0	1.0									

Sample ID: 20020240-001ADUP	SampType: DUP	TestCode: FECAL_COLI	Units: MPN/100mL	Prep Date:	RunNo: 85909						
Client ID: ZZZZZZ	Batch ID: R85909	TestNo: Colilert-18		Analysis Date: 2/6/2020	SeqNo: 2152456						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fecal Coliform	>24100	10.0						24,100	0	20	

Qualifiers: H Holding times for preparation or analysis exceeded
RL Reporting Limit
W Sample container temperature is out of limit as specified at testcode

M Matrix Interference
SDL Sample detection limit

ND Not Detected at the Reporting Limit
U Analyte not detected



Element Materials Technology Lafayette
2417 W. Pinhook Road
Lafayette, LA 70508-3344
TEL: (337) 235-0483 FAX: (337) 233-6540
Website: www.element.com

QC SUMMARY REPORT

WO#: 20020242
10-Feb-20

Client: East Baton Rouge Parish Pretreatment Division
Project: CRN-0220-W

BatchID: R85950

Sample ID: MB-R85950	SampType: MBLK	TestCode: ENTEROCOC	Units: MPN/100mL	Prep Date:	RunNo: 85950						
Client ID: PBW	Batch ID: R85950	TestNo: SM9230D		Analysis Date: 2/6/2020	SeqNo: 2153134						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Enterococci	< 1.0	1.0									
-------------	-------	-----	--	--	--	--	--	--	--	--	--

Sample ID: 20020238-001ADUP	SampType: DUP	TestCode: ENTEROCOC	Units: MPN/100mL	Prep Date:	RunNo: 85950						
Client ID: ZZZZZZ	Batch ID: R85950	TestNo: SM9230D		Analysis Date: 2/6/2020	SeqNo: 2153140						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Enterococci	>24100	10.0						24,100	0	20	
-------------	--------	------	--	--	--	--	--	--------	---	----	--

Qualifiers:

H	Holding times for preparation or analysis exceeded
RL	Reporting Limit
W	Sample container temperature is out of limit as specified at testcode

M	Matrix Interference
SDL	Sample detection limit

ND	Not Detected at the Reporting Limit
U	Analyte not detected



Element Materials Technology Lafayette
2417 W. Pinhook Road
Lafayette, LA 70508-3344
TEL: (337) 235-0483 FAX: (337) 233-6540
Website: www.element.com

Sample Log-In Check List

Client Name: **EAST_BR_PRETREATM**

Work Order Number: **20020242**

RcptNo: **1**

Logged by: **Danielle Hollier** **2/6/2020 5:05:00 PM**

Completed By: **Danielle Hollier** **2/6/2020 5:22:40 PM**

Reviewed By: **Caitlin Duplantis** **2/7/2020 2:03:12 PM**

Danielle Hollier
Danielle Hollier
Caitlin Duplantis

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes ☒ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☒ No ☐
Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒
No. Seal Date: Signed By:
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
6. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes ☐ No ☐ No VOA Vials ☒
12. Were any sample containers received broken? Yes ☐ No ☒
13. Does paperwork match bottle labels? Yes ☒ No ☐
(Note discrepancies on chain of custody)
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
15. Is it clear what analyses were requested? Yes ☒ No ☐
16. Were all holding times able to be met? Yes ☒ No ☐
(If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

18. Additional remarks:

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.5	Good	Not Present			

20020242



Chain of Custody Record for Fecal Coliform Testing

Wastewater Treatment Laboratory
2443 River Rd.
Baton Rouge, LA 70802

Sampler Name	Date	Time Taken	Site/Location	Comments/Remarks
WILLIAM FISHBURN	2/6/20	2:41 pm	Port Hudson Bridge Catahoula River	CRN-0220-W

Relinquished By:	Received By:	Time:	Date:
<i>[Signature]</i>	<i>[Signature]</i>	1705	2-6-20

Temp: 2.5°C
JHTR10



Element Materials Technology Lafayette
2417 W. Pinhook Road
Lafayette, LA 70508-3344
TEL: (337) 235-0483 FAX: (337) 233-6540
Website: www.element.com

February 10, 2020

Sarah Boudreaux
East Baton Rouge Parish Pretreatment Division
345 Chippewa St.
Baton Rouge, LA 70805
TEL:
FAX:

RE: WC-0220-D

Order No.: 20020240

Dear Sarah Boudreaux:

Element Materials Technology Lafayette received 1 sample(s) on 2/6/2020 for the analyses presented in the following report.

In accordance with your instructions Element Lafayette conducted the analysis shown on the following pages on samples submitted by your company. The results related only to the items tested. Unless otherwise noted, all analyses were conducted using EPA approved methodologies and all test results meet all requirements of TNI. All relevant sampling information is on the attached Chain-of-Custody form.

Where applicable, all soil data, except for 29-B, are on a wet-weight basis unless otherwise indicated in the units field as –dry.

LELAP Certification No.: 01997. TCEQ Certification No.: T104704261. LDHH Certification No.: LA023. ISDH Certification No.: C-LA-01. NDELCP Certification No.: R-226. A scope of accredited parameters is available upon request. A "#" by the test method or analyte indicates this parameter is outside the scope of accreditation.

Estimated uncertainty is available upon request. This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding these test results, please feel free to call.

Cristina Thibeaux
Customer Service Supervisor
2417 W. Pinhook Road
Lafayette, LA 70508-3344



Element Materials Technology Lafayette
2417 W. Pinhook Road
Lafayette, LA 70508-3344
TEL: (337) 235-0483 FAX: (337) 233-6540
Website: www.element.com

Case Narrative

WO#: 20020240
Date: 2/10/2020

CLIENT: East Baton Rouge Parish Pretreatment Divi
Project: WC-0220-D

Unless specified by the client, a duplicate or MS/MSD, wherever applicable, is randomly selected and analyzed from each analytical batch provided sample volume is sufficient. The sample chosen for duplicate or MS/MSD may or may not be a sample submitted in this workorder. A method blank and/or a lab control sample (LCS)/lab control sample duplicate (LCSD), wherever applicable, are processed as a quality control check for each analytical batch. When the matrix QC data is not available due to insufficient sample volume or when the results indicate possible matrix effect, the validity of the batch is determined by the method blank and LCS/LCSD.

The results of the laboratory internal quality control data are provided in the QC Summary Report section of the report for your review. Laboratory-related QC exceptions that may impact the validity of data are discussed in the case narrative. Sample-related QC exceptions are flagged either in the results page(s) or in the QC report page(s). End users should consider QC exceptions when evaluating sample data against data quality objectives.

Any other exceptions associated with this report will be footnoted in the results page(s) or the QC summary page(s).



Element Materials Technology Lafayette
2417 W. Pinhook Road
Lafayette, LA 70508-3344
TEL: (337) 235-0483 FAX: (337) 233-6540
Website: www.element.com

Analytical Report

(consolidated)

WO#: 20020240

Date Reported: 2/10/2020

CLIENT: East Baton Rouge Parish Pretreatment Division **Collection Date:** 2/6/2020 3:35:00 PM
Project: WC-0220-D
Lab ID: 20020240-001 **Matrix:** AQUEOUS
Client Sample ID WC-0220-D

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ENTEROCOCCI BY IDEXX ENTEROLERT-E WITH QUANTI-TRAY				SM9230D	Analyst: BXB	
Enterococci	>24100	10.0		MPN/100mL	10	2/6/2020 5:45:00 PM
FECAL COLIFORM USING COLILERT-18 WITH QUANTI-TRAY				COLILERT-18	Analyst: KML	
Fecal Coliform	>24100	10.0		MPN/100mL	10	2/6/2020 5:45:00 PM

Qualifiers:	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	SDL	Sample detection limit	U	Analyte not detected
	W	Sample container temperature is out of limit as specified at testcode		



Element Materials Technology Lafayette
2417 W. Pinhook Road
Lafayette, LA 70508-3344
TEL: (337) 235-0483 FAX: (337) 233-6540
Website: www.element.com

QC SUMMARY REPORT

WO#: 20020240
10-Feb-20

Client: East Baton Rouge Parish Pretreatment Division
Project: WC-0220-D

BatchID: R85909

Sample ID: MB-85909	SampType: MBLK	TestCode: FECAL_COLI	Units: MPN/100mL	Prep Date:	RunNo: 85909						
Client ID: PBW	Batch ID: R85909	TestNo: Colilert-18		Analysis Date: 2/6/2020	SeqNo: 2152454						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fecal Coliform	< 1.0	1.0									

Sample ID: 20020240-001ADUP	SampType: DUP	TestCode: FECAL_COLI	Units: MPN/100mL	Prep Date:	RunNo: 85909						
Client ID: WC-0220-D	Batch ID: R85909	TestNo: Colilert-18		Analysis Date: 2/6/2020	SeqNo: 2152456						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fecal Coliform	>24100	10.0						24,100	0	20	

Qualifiers: H Holding times for preparation or analysis exceeded
RL Reporting Limit
W Sample container temperature is out of limit as specified at testcode

M Matrix Interference
SDL Sample detection limit

ND Not Detected at the Reporting Limit
U Analyte not detected



Element Materials Technology Lafayette
2417 W. Pinhook Road
Lafayette, LA 70508-3344
TEL: (337) 235-0483 FAX: (337) 233-6540
Website: www.element.com

QC SUMMARY REPORT

WO#: 20020240
10-Feb-20

Client: East Baton Rouge Parish Pretreatment Division
Project: WC-0220-D

BatchID: R85950

Sample ID: MB-R85950	SampType: MBLK	TestCode: ENTEROCOC	Units: MPN/100mL	Prep Date:					RunNo: 85950		
Client ID: PBW	Batch ID: R85950	TestNo: SM9230D	Analysis Date: 2/6/2020					SeqNo: 2153134			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Enterococci	< 1.0	1.0									
-------------	-------	-----	--	--	--	--	--	--	--	--	--

Sample ID: 20020238-001ADUP	SampType: DUP	TestCode: ENTEROCOC	Units: MPN/100mL	Prep Date:	RunNo: 85950						
Client ID: ZZZZZZ	Batch ID: R85950	TestNo: SM9230D		Analysis Date: 2/6/2020	SeqNo: 2153140						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Enterococci	>24100	10.0						24,100	0	20	
-------------	--------	------	--	--	--	--	--	--------	---	----	--

Qualifiers:

H	Holding times for preparation or analysis exceeded
RL	Reporting Limit
W	Sample container temperature is out of limit as specified at testcode

M	Matrix Interference
SDL	Sample detection limit

ND	Not Detected at the Reporting Limit
U	Analyte not detected



Element Materials Technology Lafayette
2417 W. Pinhook Road
Lafayette, LA 70508-3344
TEL: (337) 235-0483 FAX: (337) 233-6540
Website: www.element.com

Sample Log-In Check List

Client Name: **EAST_BR_PRETREATM**

Work Order Number: **20020240**

RcptNo: **1**

Logged by: **Danielle Hollier** **2/6/2020 5:05:00 PM**

Completed By: **Danielle Hollier** **2/6/2020 5:19:21 PM**

Reviewed By: **Caitlin Duplantis** **2/7/2020 2:01:09 PM**

Danielle Hollier
Danielle Hollier
Caitlin Duplantis

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes ☒ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☒ No ☐
Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒
No. Seal Date: Signed By:
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
6. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes ☐ No ☐ No VOA Vials ☒
12. Were any sample containers received broken? Yes ☐ No ☒
13. Does paperwork match bottle labels? Yes ☒ No ☐
(Note discrepancies on chain of custody)
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
15. Is it clear what analyses were requested? Yes ☒ No ☐
16. Were all holding times able to be met? Yes ☒ No ☐
(If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

18. Additional remarks:

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.5	Good	Not Present			

20020240



Chain of Custody Record for Fecal Coliform Testing

Wastewater Treatment Laboratory
2443 River Rd.
Baton Rouge, LA 70802

Sampler Name	Date	Time Taken	Site/Location	Comments/Remarks
W. Fishburn	2/6/20	3:35pm	Highland Rd / Ward Creek	WC-0220-D

Relinquished By:	Received By:	Time:	Date:
<i>[Signature]</i>	<i>[Signature]</i>	1705	2-6-20

Temp: 2.5°
DH IRID

**Environmental Results Monitoring Program Phase 2
Quarter 5 Results**

100 North Street, Suite 901
Baton Rouge, LA 70802

www.jacobs.com

Subject	Environmental Results Monitoring Program Phase 2, Quarter 5 Results	Project Name	Baton Rouge SSOP
Attention	Mr. Richard Speer, P.E. Director, Department of Environmental Services City of Baton Rouge, Louisiana	Project No.	BTRSS016
From	Patrick Gervais		
Date	June 16, 2020		

Purpose

On April 29, 2020, the City of Baton Rouge, Parish of East Baton Rouge conducted the 5th quarterly Phase 2 Baseline Monitoring event, as required by the 2002 Consent Decree. The purpose of this memorandum is to characterize the rain event, summarize the sampling procedures, and report laboratory analysis results. Background information on the Environmental Results Monitoring (ERM) program can be found in the ERM Plan (Exhibit G of the Consent Decree).

Rain Event

Rainfall data was recorded at USGS monitoring stations located upstream of each of the designated sample locations. The locations of the observed USGS monitoring stations are shown in Figure 1.

Cumulative precipitation from the rain event over April 26 to May 1st, 2020 is shown in Figure 2. The rainfall during this period arrived in two waves, with the first wave starting April 28th at 3:00 PM and lasting until 9:00 PM. The most intense rainfall for this wave (which was also the most intense rainfall period over the entire period) occurred at 4:00 PM. A second wave of rainfall began on April 29th starting at 5:00 AM and lasted until 9:00 AM. The most intense rainfall for this wave occurred at 6:00 AM. A summary of the rainfall at each sample site is provided in Table 1.

Previous reports included precipitation data collected at the USGS Comite River Port Hudson gage, however the precipitation gage appears to have failed for this event and no rainfall was recorded.

Procedures

One grab sample was taken from each of the five designated sample sites between the hours of 9:52 AM and 11:20 AM. Samples were taken from the approximate center of each stream. Grab samples from each site were poured into three separate laboratory-prepared sample containers, which were labeled with the

sample date, time, and location name immediately following sample collection. Samples were stored on ice and delivered to the laboratory immediately following collection of the final sample.

All samples were analyzed at a laboratory for the parameters established in the ERM plan, which include fecal coliform and enterococcus. Sample holding times and laboratory procedures conformed with those outlines in the USEPA "Methods for Chemical Analysis of Water and Wastes", 1983, and USEPA "Test Methods for the Examination of Solid Waste – SW846", 1992.

Results

Results of laboratory analyses are summarized in Table 2. Further analysis of these results based on future water quality and stream flow data will be conducted upon completion of Phase I Baseline Monitoring. Gage height data from April 26 to May 1st, 2020, recorded at USGS stream flow monitoring stations upstream of each sample location, are shown in Figure 3.

Tables

Table 1: Rainfall Summary for Phase 2, Quarter 5

Location	Sample Date and Time	Peak Intensity Date and Time	Peak Intensity (in/hr)	Total Rainfall (in)
Baton Rouge Metro Airport ^a	4/29/20 11:20 AM	4/28/20 4:00 PM	1.03	3.16
Bayou Fountain at Grand Lakes Dr.	4/29/20 9:52 AM	4/28/20 6:30 PM	1.92	3.76
Comite R. at Port Hudson-Pride Rd.	4/29/20 10:40 AM	4/28/20 4:00 PM	0.00	0.00
Jones Cr. at O'Neal Ln.	4/29/20 10:37 AM	4/29/20 5:30 AM	1.17	3.42
Ward Cr. at Highland Rd.	4/29/20 10:12 AM	4/28/20 6:45 PM	1.70	4.00

^a The Comite River at Greenwell Springs gage does not have a precipitation gage. The hourly rainfall recorded at Baton Rouge airport is listed as a substitute for rainfall recorded at the gage.

in: Inches; hr: Hour

Table 2: Water Quality Sampling Results for Phase 2, Quarter 5

Location	Sample Date and Time	Enterococci (MPN/100 mL)	Fecal Coliform (MPN/ 100 mL)
Comite R. at Greenwell Springs Rd.	4/29/20 11:20 AM	> 4,820	> 4,820
Bayou Fountain at Grand Lakes Dr.	4/29/20 9:52 AM	> 4,820	> 4,820
Comite R. at Port Hudson-Pride Rd.	4/29/20 10:40 AM	> 4,820	> 4,820
Jones Cr. at O'Neal Ln.	4/29/20 10:37 AM	> 4,820	> 24,100
Ward Cr. at Highland Rd.	4/29/20 10:12 AM	> 9,640	> 4,820

MPN: Most Probable Number; mL: Milliliters

Figures

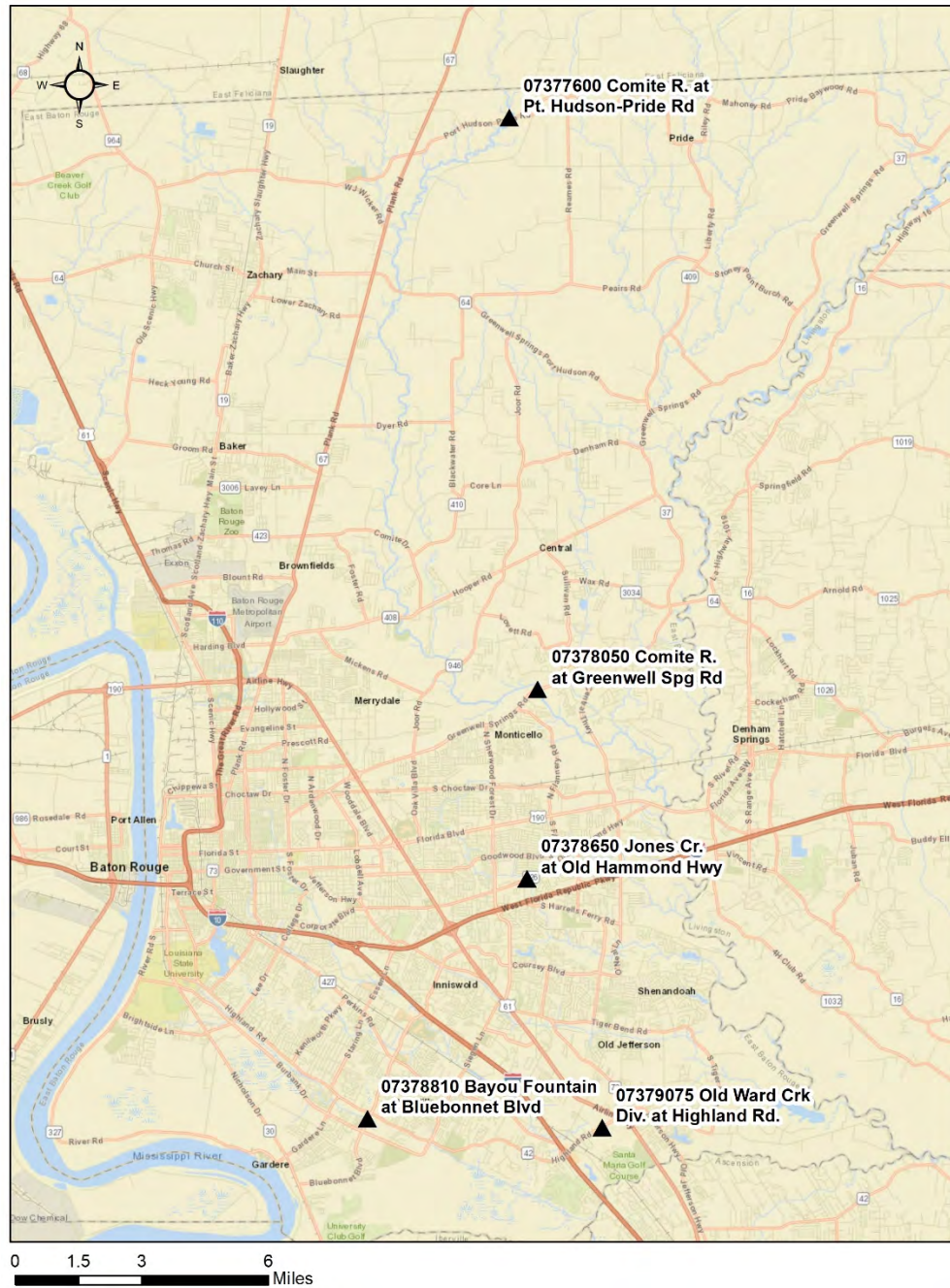


Figure 1: Sampling Locations

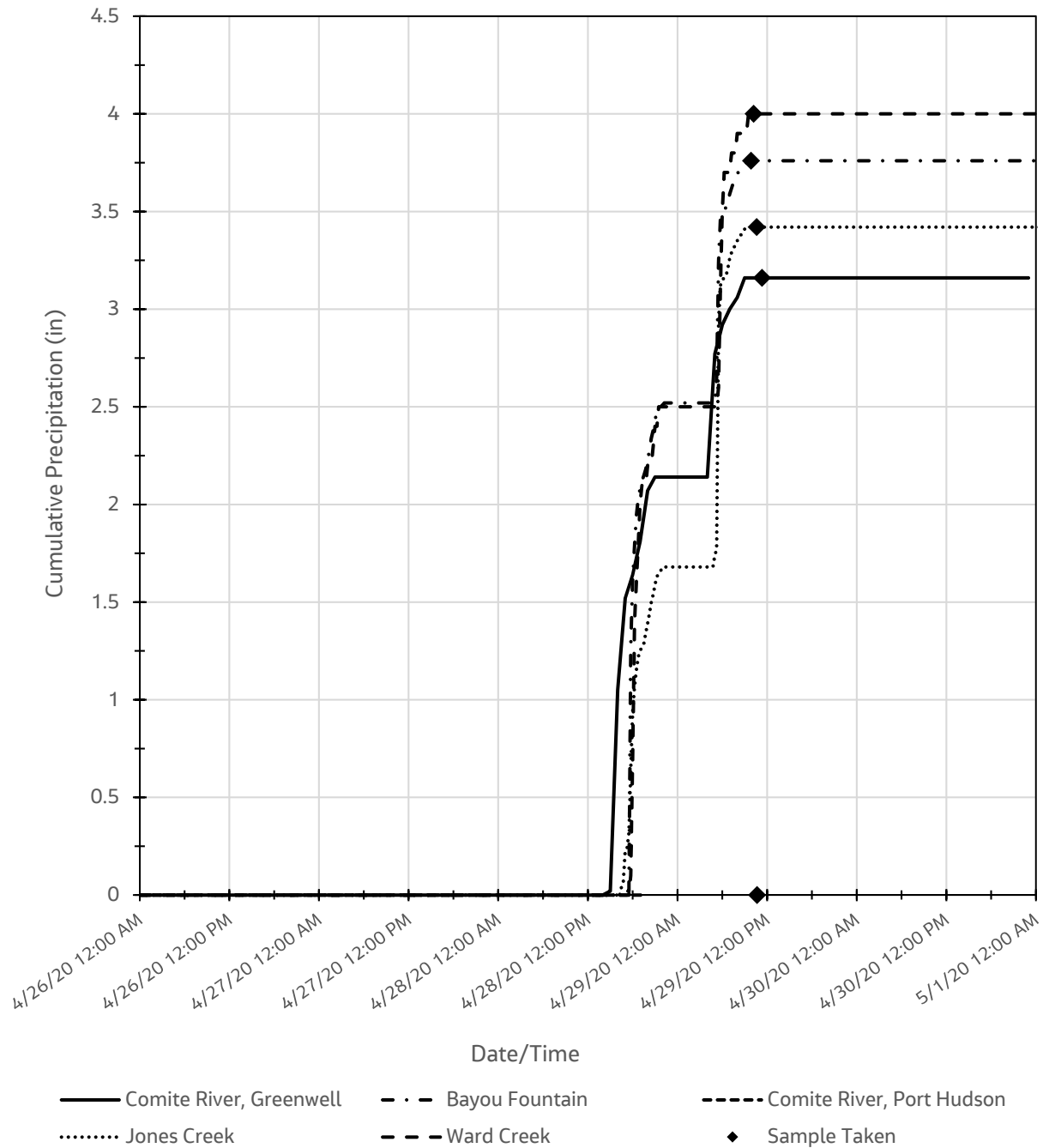


Figure 2: Cumulative Precipitation – February 4-8, 2020

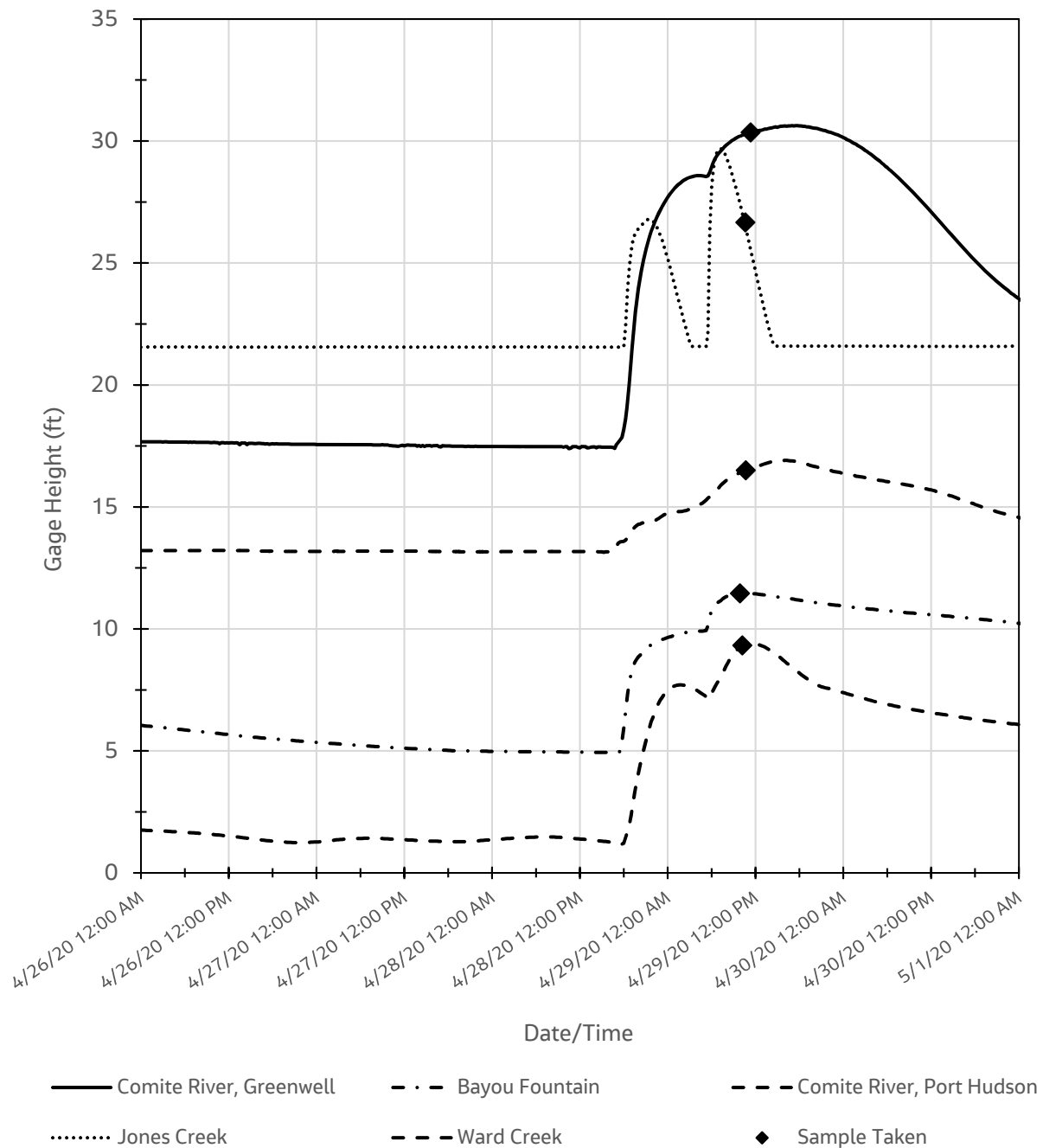


Figure 3: USGS Gage Height – April 26 – May 1, 2020

**Environmental Results Monitoring Program Phase 2
Quarter 6 Results**

Subject	Environmental Results Monitoring Program Phase 2, Quarter 6 Results	Project Name	Baton Rouge SSOP
Attention	Mr. Richard Speer, P.E. Director, Department of Environmental Services City of Baton Rouge, Louisiana	Project No.	BTRSSO16
From	Patrick Gervais		
Date	October 22, 2020		

Purpose

On September 24, 2020, the City of Baton Rouge, Parish of East Baton Rouge conducted the 6th quarterly Phase 2 Baseline Monitoring event, as required by the 2002 Consent Decree. The purpose of this memorandum is to characterize the rain event, summarize the sampling procedures, and report laboratory analysis results. Background information on the Environmental Results Monitoring (ERM) program can be found in the ERM Plan (Exhibit G of the Consent Decree).

Rain Event

Rainfall data was recorded at USGS monitoring stations located upstream of each of the designated sample locations. The locations of the observed USGS monitoring stations are shown in Figure 1.

Cumulative precipitation from the rain event over September 23 - 24, 2020 is shown in Figure 2. The event lasted approximately 24 hours, with the highest-intensity rainfall occurring around 10:00 AM and 6:30 PM on the 24th. A summary of the rainfall at each sample site is provided in Table 1.

Procedures

One grab sample was taken from each of the five designated sample sites between the hours of 10:15 AM and 11:57 AM. Samples were taken from the approximate center of each stream. Grab samples from each site were poured into three separate laboratory-prepared sample containers, which were labeled with the sample date, time, and location name immediately following sample collection. Samples were stored on ice and delivered to the laboratory immediately following collection of the final sample.

All samples were analyzed at a laboratory for the parameters established in the ERM plan, which include fecal coliform and enterococcus. Sample holding times and laboratory procedures conformed with those outlines in the USEPA "Methods for Chemical Analysis of Water and Wastes", 1983, and USEPA "Test Methods for the Examination of Solid Waste – SW846", 1992.

Results

Results of laboratory analyses are summarized in Table 2. Further analysis of these results based on future water quality and stream flow data will be conducted upon completion of Phase I Baseline Monitoring. Gage height data from September 23 - 24, 2020, recorded at USGS stream flow monitoring stations upstream of each sample location, are shown in Figure 3.

Tables

Table 1: Rainfall Summary for Phase 2, Quarter 6

Location	Sample Date and Time	Peak Intensity Date and Time	Peak Intensity (in/hr)	Total Rainfall (in)
Baton Rouge Metro Airport ^a	9/24/20 11:03 AM	9/23/20 5:50 PM	0.27	1.00
Bayou Fountain at Grand Lakes Dr.	9/24/20 10:50 AM	9/23/20 10:00 AM	0.31	0.91
Comite R. at Port Hudson-Pride Rd.	9/24/20 11:57 AM	9/23/20 7:00 PM	0.21	0.71
Jones Cr. at O'Neal Ln.	9/24/20 10:15 AM	9/23/20 10:00 AM	0.30	0.80
Ward Cr. at Highland Rd.	9/24/20 10:28 AM	9/23/20 10:30 AM	0.60	0.80

^a The Comite River at Greenwell Springs gage does not have a precipitation gage. The hourly rainfall recorded at Baton Rouge airport is listed as a substitute for rainfall recorded at the gage.

in: Inches; hr: Hour

Table 2: Water Quality Sampling Results for Phase 2, Quarter 6

Location	Sample Date and Time	Enterococci (MPN/100 mL)	Fecal Coliform (MPN/ 100 mL)
Comite R. at Greenwell Springs Rd.	9/24/20 11:03 AM	6,490	4,610
Bayou Fountain at Grand Lakes Dr.	9/24/20 10:50 AM	4,110	2,360
Comite R. at Port Hudson-Pride Rd.	9/24/20 11:57 AM	6,130	< 10
Jones Cr. at O'Neal Ln.	9/24/20 10:15 AM	8,160	>24,100
Ward Cr. at Highland Rd.	9/24/20 10:28 AM	6,130	8,160

MPN: Most Probable Number; mL: Milliliters

Figures

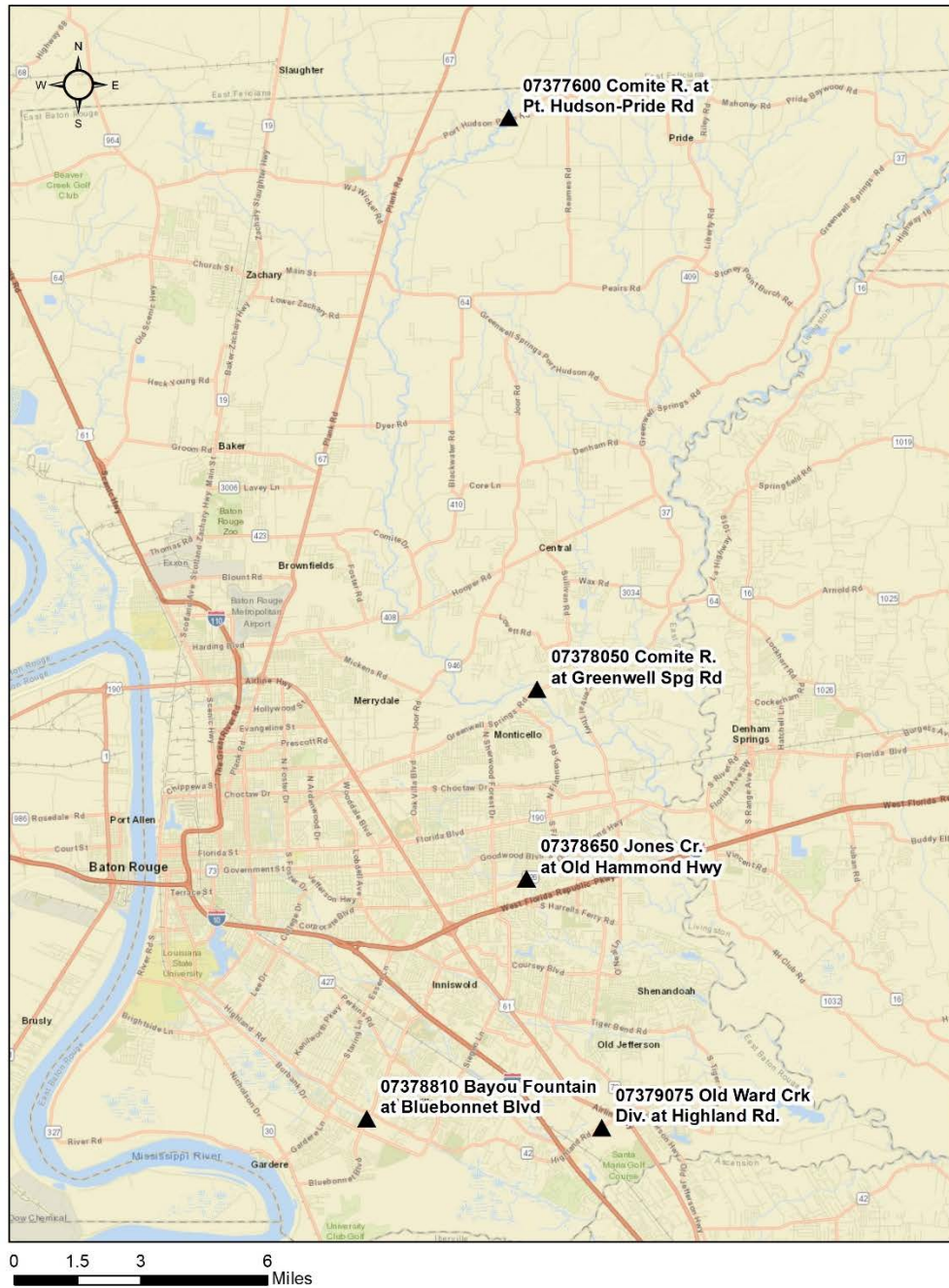


Figure 1: Sampling Locations

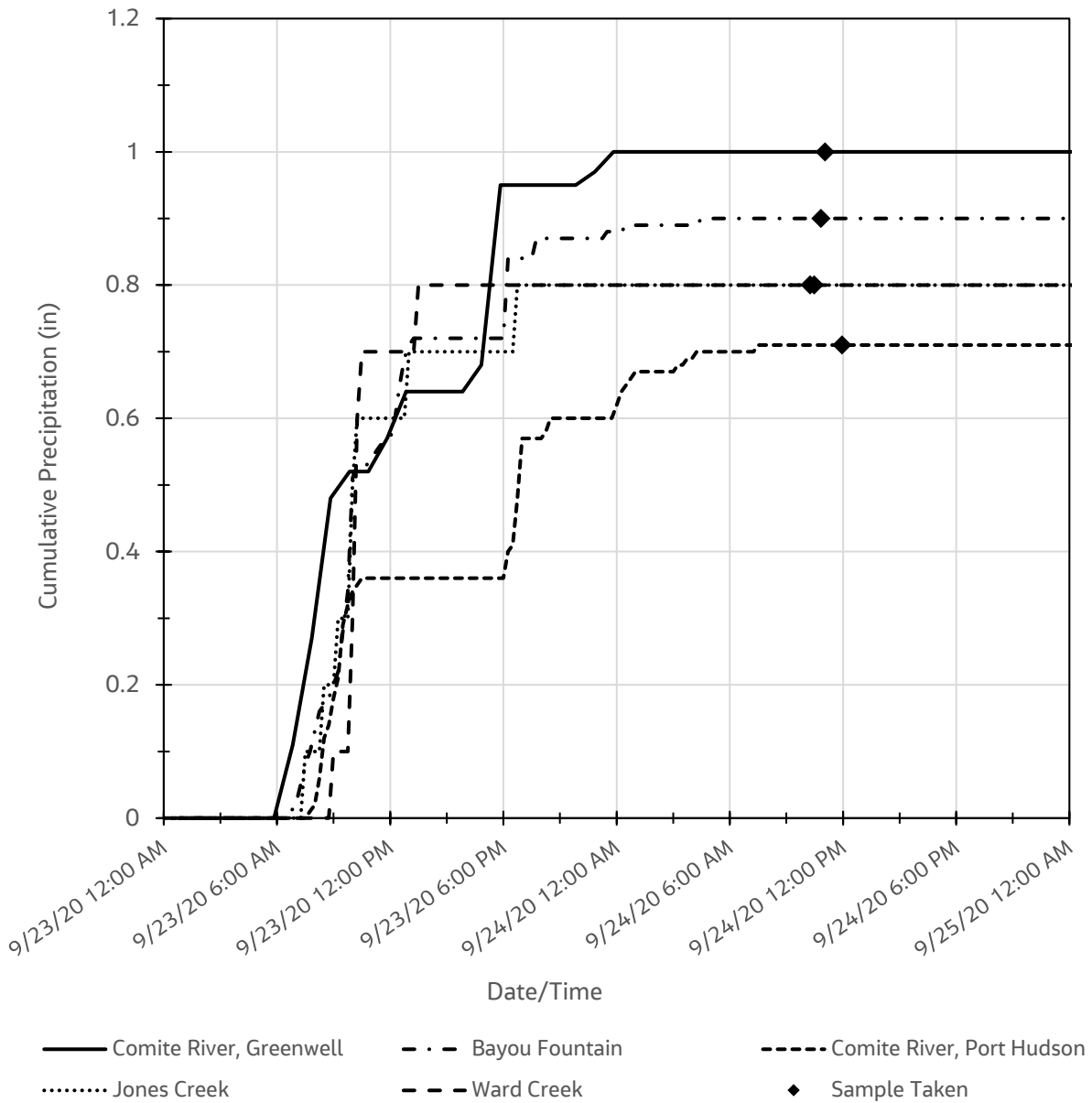


Figure 2: Cumulative Precipitation – September 23 - 24, 2020

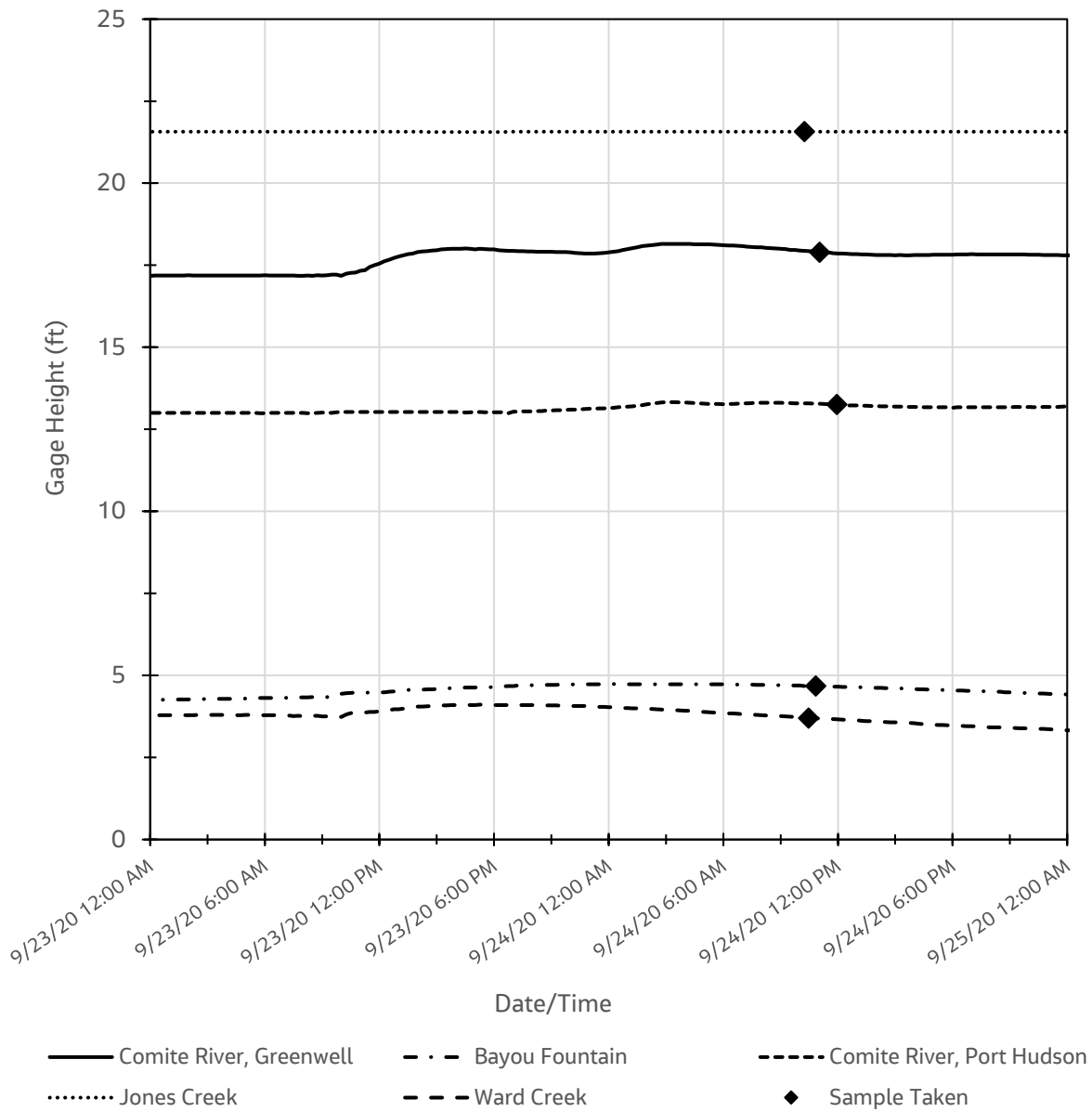


Figure 3: USGS Gage Height – September 23 - 24, 2020



Element Materials Technology Lafayette
2417 W. Pinhook Road
Lafayette, LA 70508-3344
TEL: (337) 235-0483 FAX: (337) 233-6540
Website: www.element.com

September 28, 2020

Sarah Boudreaux
East Baton Rouge Parish Pretreatment Division
345 Chippewa St.
Baton Rouge, LA 70805
TEL:
FAX

RE: EBR/ERM

Order No.: 20090881

Dear Sarah Boudreaux:

Element Materials Technology Lafayette received 5 sample(s) on 9/24/2020 for the analyses presented in the following report.

In accordance with your instructions Element Lafayette conducted the analysis shown on the following pages on samples submitted by your company. The results related only to the items tested. Unless otherwise noted, all analyses were conducted using EPA approved methodologies and all test results meet all requirements of TNI. All relevant sampling information is on the attached Chain-of-Custody form.

Where applicable, all soil data, except for 29-B, are on a wet-weight basis unless otherwise indicated in the units field as –dry.

LELAP Certification No.: 01997. TCEQ Certification No.: T104704261. LDHH Certification No.: LA023. ISDH Certification No.: C-LA-01. NDELCP Certification No.: R-226. A scope of accredited parameters is available upon request. A "#" by the test method or analyte indicates this parameter is outside the scope of accreditation.

Estimated uncertainty is available upon request. This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding these test results, please feel free to call.

Cristina Thibeaux
Customer Service Supervisor
2417 W. Pinhook Road
Lafayette, LA 70508-3344



Element Materials Technology Lafayette
2417 W. Pinhook Road
Lafayette, LA 70508-3344
TEL: (337) 235-0483 FAX: (337) 233-6540
Website: www.element.com

Case Narrative

WO#: 20090881
Date: 9/28/2020

CLIENT: East Baton Rouge Parish Pretreatment Division

Project: EBR/ERM

Unless specified by the client, a duplicate or MS/MSD, wherever applicable, is randomly selected and analyzed from each analytical batch provided sample volume is sufficient. The sample chosen for duplicate or MS/MSD may or may not be a sample submitted in this workorder. A method blank and/or a lab control sample (LCS)/lab control sample duplicate (LCSD), wherever applicable, are processed as a quality control check for each analytical batch. When the matrix QC data is not available due to insufficient sample volume or when the results indicate possible matrix effect, the validity of the batch is determined by the method blank and LCS/LCSD.

The results of the laboratory internal quality control data are provided in the QC Summary Report section of the report for your review. Laboratory-related QC exceptions that may impact the validity of data are discussed in the case narrative. Sample-related QC exceptions are flagged either in the results page(s) or in the QC report page(s). End users should consider QC exceptions when evaluating sample data against data quality objectives.

Exception- Fecal Coliform: Due to an oversight by the laboratory personnel, the 8 hour hold time for the start of the Fecal Coliform analysis for the submitted sample, JC-0920-W (lab ID: 20090881-004) was exceeded by 13 minutes. Upon discovery, the client was informed of the oversight and the lab was authorized to continue with requested analysis though the sample will be recollected at a later date for this parameter. The analytical results for the Fecal Coliform will be reported with a hold time (H) qualifier.

Any other exceptions associated with this report will be footnoted in the results page(s) or the QC summary page(s).



Element Materials Technology Lafayette
2417 W. Pinhook Road
Lafayette, LA 70508-3344
TEL: (337) 235-0483 FAX: (337) 233-6540
Website: www.element.com

Analytical Report

(consolidated)

WO#: 20090881

Date Reported 9/28/2020

CLIENT: East Baton Rouge Parish Pretreatment Division **Collection Date:** 9/24/2020 11:03:00 AM
Project: EBR/ERM
Lab ID: 20090881-001 **Matrix:** AQUEOUS
Client Sample ID CR-0920-W

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ENTEROCOCCI BY IDEXX ENTEROLERT-E WITH QUANTI-TRAY				SM9230D	Analyst: JH	
Enterococci	6,490	10.0		MPN/100mL	10	9/24/2020 6:28:00 PM
FECAL COLIFORM USING COLILERT-18 WITH QUANTI-TRAY				COLILERT-18	Analyst: JH	
Fecal Coliform	4,610	10.0		MPN/100mL	10	9/24/2020 6:28:00 PM

Qualifiers:	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
	RL	Reporting Limit	SDL	Sample detection limit
	U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode



Element Materials Technology Lafayette
2417 W. Pinhook Road
Lafayette, LA 70508-3344
TEL: (337) 235-0483 FAX: (337) 233-6540
Website: www.element.com

Analytical Report

(consolidated)

WO#: 20090881

Date Reported 9/28/2020

CLIENT: East Baton Rouge Parish Pretreatment Division **Collection Date:** 9/24/2020 11:57:00 AM
Project: EBR/ERM
Lab ID: 20090881-002 **Matrix:** AQUEOUS
Client Sample ID CRN-0920-W

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ENTEROCOCCI BY IDEXX ENTEROLERT-E WITH QUANTI-TRAY				SM9230D		Analyst: JH
Enterococci	6,130	10.0		MPN/100mL	10	9/24/2020 6:28:00 PM
FECAL COLIFORM USING COLILERT-18 WITH QUANTI-TRAY				COLILERT-18		Analyst: JH
Fecal Coliform	< 10.0	10.0		MPN/100mL	10	9/24/2020 6:28:00 PM

NOTES:

Note: The reporting limit was elevated due to limited sample.

Qualifiers:	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
	RL	Reporting Limit	SDL	Sample detection limit
	U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode



Element Materials Technology Lafayette
2417 W. Pinhook Road
Lafayette, LA 70508-3344
TEL: (337) 235-0483 FAX: (337) 233-6540
Website: www.element.com

Analytical Report

(consolidated)

WO#: 20090881

Date Reported 9/28/2020

CLIENT: East Baton Rouge Parish Pretreatment Division **Collection Date:** 9/24/2020 10:28:00 AM
Project: EBR/ERM
Lab ID: 20090881-003 **Matrix:** AQUEOUS
Client Sample ID WC-0920-W

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ENTEROCOCCI BY IDEXX ENTEROLERT-E WITH QUANTI-TRAY				SM9230D	Analyst: JH	
Enterococci	6,130	10.0		MPN/100mL	10	9/24/2020 6:28:00 PM
FECAL COLIFORM USING COLILERT-18 WITH QUANTI-TRAY				COLILERT-18	Analyst: JH	
Fecal Coliform	8,160	10.0		MPN/100mL	10	9/24/2020 6:28:00 PM

Qualifiers:	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
	RL	Reporting Limit	SDL	Sample detection limit
	U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode



Element Materials Technology Lafayette
2417 W. Pinhook Road
Lafayette, LA 70508-3344
TEL: (337) 235-0483 FAX: (337) 233-6540
Website: www.element.com

Analytical Report

(consolidated)

WO#: 20090881

Date Reported 9/28/2020

CLIENT: East Baton Rouge Parish Pretreatment Division **Collection Date:** 9/24/2020 10:15:00 AM
Project: EBR/ERM
Lab ID: 20090881-004 **Matrix:** AQUEOUS
Client Sample ID JC-0920-W

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ENTEROCOCCI BY IDEXX ENTEROLERT-E WITH QUANTI-TRAY				SM9230D		Analyst: JH
Enterococci	8,160	10.0		MPN/100mL	10	9/24/2020 6:28:00 PM
FECAL COLIFORM USING COLILERT-18 WITH QUANTI-TRAY				COLILERT-18		Analyst: JH
Fecal Coliform	>24100	10.0	H	MPN/100mL	10	9/24/2020 6:28:00 PM

NOTES:

H: Sample was analyzed 13 minutes outside of 8 hour hold time.

Qualifiers:	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
	RL	Reporting Limit	SDL	Sample detection limit
	U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode



Element Materials Technology Lafayette
2417 W. Pinhook Road
Lafayette, LA 70508-3344
TEL: (337) 235-0483 FAX: (337) 233-6540
Website: www.element.com

Analytical Report

(consolidated)

WO#: 20090881

Date Reported 9/28/2020

CLIENT: East Baton Rouge Parish Pretreatment Division **Collection Date:** 9/24/2020 10:50:00 AM
Project: EBR/ERM
Lab ID: 20090881-005 **Matrix:** AQUEOUS
Client Sample ID BF-0920-W

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
ENTEROCOCCI BY IDEXX ENTEROLERT-E WITH QUANTI-TRAY				SM9230D	Analyst: JH	
Enterococci	4,110	10.0		MPN/100mL	10	9/24/2020 6:28:00 PM
FECAL COLIFORM USING COLILERT-18 WITH QUANTI-TRAY				COLILERT-18	Analyst: JH	
Fecal Coliform	2,360	10.0		MPN/100mL	10	9/24/2020 6:28:00 PM

Qualifiers:	H	Holding times for preparation or analysis exceeded	M	Matrix Interference
	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
	RL	Reporting Limit	SDL	Sample detection limit
	U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode



Element Materials Technology Lafayette
2417 W. Pinhook Road
Lafayette, LA 70508-3344
TEL: (337) 235-0483 FAX: (337) 233-6540
Website: www.element.com

QC SUMMARY REPORT

WO#: 20090881
01-Oct-20

Client: East Baton Rouge Parish Pretreatment Division

Project: EBR/ERM

BatchID: R92654

Sample ID: MB-R92654	SampType: MBLK	TestCode: FECAL_COLI	Units: MPN/100mL	Prep Date:	RunNo: 92654						
Client ID: PBW	Batch ID: R92654	TestNo: Colilert-18		Analysis Date: 9/24/2020	SeqNo: 2292950						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Fecal Coliform	< 1.0	1.0									
----------------	-------	-----	--	--	--	--	--	--	--	--	--

Sample ID: 20090835-002ADUP	SampType: DUP	TestCode: FECAL_COLI	Units: MPN/100mL	Prep Date:					RunNo: 92654		
Client ID: ZZZZZZ	Batch ID: R92654	TestNo: Colilert-18	Analysis Date: 9/24/2020					SeqNo: 2292953			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Fecal Coliform	3.0	1.0						4.1	31.0	20	R
----------------	-----	-----	--	--	--	--	--	-----	------	----	---

NOTES:

R - High RPD due to suspected sample non-homogeneity.

Qualifiers:	H	Holding times for preparation or analysis exceeded	M	Matrix Interference	ND	Not Detected at the Reporting Limit
	R	RPD outside accepted recovery limits	RL	Reporting Limit	SDL	Sample detection limit
	U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode		



Element Materials Technology Lafayette
2417 W. Pinhook Road
Lafayette, LA 70508-3344
TEL: (337) 235-0483 FAX: (337) 233-6540
Website: www.element.com

QC SUMMARY REPORT

WO#: 20090881
01-Oct-20

Client: East Baton Rouge Parish Pretreatment Division

Project: EBR/ERM

BatchID: R92662

Sample ID: MB-R92662	SampType: MBLK	TestCode: FECAL_COLI	Units: MPN/100mL	Prep Date:					RunNo: 92662		
Client ID: PBW	Batch ID: R92662	TestNo: Colilert-18	Analysis Date: 9/24/2020					SeqNo: 2292963			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Fecal Coliform	< 1.0	1.0									
----------------	-------	-----	--	--	--	--	--	--	--	--	--

Sample ID: 20090881-001ADUP	SampType: DUP	TestCode: FECAL_COLI	Units: MPN/100mL	Prep Date:	RunNo: 92662						
Client ID: CR-0920-W	Batch ID: R92662	TestNo: Colilert-18	Analysis Date: 9/24/2020	SeqNo: 2292965							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Fecal Coliform	4,350	10.0						4,611	5.8	20	
----------------	-------	------	--	--	--	--	--	-------	-----	----	--

Qualifiers:	H	Holding times for preparation or analysis exceeded	M	Matrix Interference	ND	Not Detected at the Reporting Limit
	R	RPD outside accepted recovery limits	RL	Reporting Limit	SDL	Sample detection limit
	U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode		



Element Materials Technology Lafayette
2417 W. Pinhook Road
Lafayette, LA 70508-3344
TEL: (337) 235-0483 FAX: (337) 233-6540
Website: www.element.com

QC SUMMARY REPORT

WO#: 20090881
01-Oct-20

Client: East Baton Rouge Parish Pretreatment Division

Project: EBR/ERM

BatchID: R92663

Sample ID: MB-R92663	SampType: MBLK	TestCode: ENTEROCOC	Units: MPN/100mL	Prep Date:	RunNo: 92663						
Client ID: PBW	Batch ID: R92663	TestNo: SM9230D		Analysis Date: 9/24/2020	SeqNo: 2293609						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Enterococci	1.0	1.0									
-------------	-----	-----	--	--	--	--	--	--	--	--	--

Sample ID: 20090881-001ADUP	SampType: DUP	TestCode: ENTEROCOC	Units: MPN/100mL	Prep Date:	RunNo: 92663						
Client ID: CR-0920-W	Batch ID: R92663	TestNo: SM9230D		Analysis Date: 9/24/2020	SeqNo: 2293611						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Enterococci	5,790	10.0						6,488	11.3	20	
-------------	-------	------	--	--	--	--	--	-------	------	----	--

Qualifiers:	H	Holding times for preparation or analysis exceeded	M	Matrix Interference	ND	Not Detected at the Reporting Limit
	R	RPD outside accepted recovery limits	RL	Reporting Limit	SDL	Sample detection limit
	U	Analyte not detected	W	Sample container temperature is out of limit as specified at testcode		



Element Materials Technology Lafayette
2417 W. Pinhook Road
Lafayette, LA 70508-3344
TEL: (337) 235-0483 FAX: (337) 233-6540
Website: www.element.com

Sample Log-In Check List

Client Name: **EAST_BR_PRETREATM**

Work Order Number: **20090881**

RcptNo: **1**

Logged by: **Danielle Hollier** **9/24/2020 5:49:00 PM**

Completed By: **Danielle Hollier** **9/24/2020 5:58:45 PM**

Reviewed By: **Caitlin Duplantis** **9/25/2020 2:28:35 PM**

Danielle Hollier
Danielle Hollier
Caitlin Duplantis

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes ☒ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☒ No ☐
Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒
No. Seal Date: Signed By:
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
6. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☐ No ☒
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes ☐ No ☐ No VOA Vials ☒
12. Were any sample containers received broken? Yes ☐ No ☒
13. Does paperwork match bottle labels? Yes ☐ No ☒
(Note discrepancies on chain of custody)
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
15. Is it clear what analyses were requested? Yes ☒ No ☐
16. Were all holding times able to be met? Yes ☐ No ☒
(If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☒ No ☐ NA ☐

Person Notified: Sarah Boudreaux Date: 9/25/2020
By Whom: Caitlin Duplantis Via: ☒ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: Only one sample bottle received per sample. Holding time for JC-0920-W missed.
Client Instructions: Proceed and report.

18. Additional remarks:

Corrected quantities of samples received on COC.

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.3	Good	Not Present			

Chain of Custody

Laboratory
Number:

y 2009088

Company Name:	Client Information:	Billing Information:	PO Number:	Project Name:	Page of
Contact Name:	East Baton Rouge	Same	Contract Rates	EBR ERM	Matrix Code
Address:	Sarah Boudreaux		Quote Number:		DW = Drinking Water
	345 Chippewa St.		4705	Sampler's Signature	WW = Waste Water
			Required QC Level		GW = Ground Water
City, State Zip:	Baton Rouge, LA 70805				AQ = Aqueous
Phone Number:	225-389-5456 Ext:	Ext:	Bill Monthly	Shipping Method:	OT = Other
Mobile Number:	225-615-0661		<input type="checkbox"/> Yes	UPS / FedEx / Airborne	SL = Sludge SOL = Solid
E-mail Address:	saboubreaux@brla.gov		<input type="checkbox"/> No	DHL / Element / <u>Hand</u> / Mail	O = Oil SO = Soil
					F = Food SW = Swab
					NG = Natural Gas
					NGL = Natural Gas Liquid
					PW = Produced Water
					CF = Completion Fluid

Which Regulations Apply:		Turn Time		(Rush turn times will incur a surcharge and must be pre-approved by lab.)	Container		Pres.	Requested Tests						Comments
<input type="checkbox"/> RCRA	<input type="checkbox"/> Drinking Water	<input type="checkbox"/> Standard	<input type="checkbox"/> RUSH		Quantity	Type P=Plastic, G=Glass, V=Vial	HCl, HNO ₃ , H ₂ SO ₄ , NaOH, Na ₂ S ₂ O ₃	Fecal	Enterococci					
<input type="checkbox"/> POTW	<input type="checkbox"/> Distribution	<input type="checkbox"/> 1 Day	<input type="checkbox"/> 2 Day											
<input type="checkbox"/> NPDES	<input type="checkbox"/> Special	<input type="checkbox"/> Other												
<input type="checkbox"/> USDA/FDA	<input type="checkbox"/> State													
<input type="checkbox"/> RECAP/RISC	<input type="checkbox"/> Other													
Sample ID/Description		Collection Information			Matrix									
	Date	Time	Grab / Composite											
CR-0920-W	9/24/20	11:03A	GRAB	AG	2	P	Na ₂ S ₂ O ₃	X	X					
CRN-0920-W	9/24/20	11:57A	GRAB	AG	2	P	Na ₂ S ₂ O ₃	X	X					
WC-0920-W	9/24/20	10:28A	GRAB	AG	2	P	Na ₂ S ₂ O ₃	X	X					
JC-0920-W	8/24/20	10:15A	GRAB	AG	2	P	Na ₂ S ₂ O ₃	X	X					
BF-0920-W	9/24/20	10:50A	GRAB	AG	2	P	Na ₂ S ₂ O ₃	X	X					

COC revision eff. 10/10/17

	Relinquished by	Date/Time	Received by	Date/Time	Field Notes:
1	Joe Young	9-24-20 1749	<i>[Signature]</i>	9-24-20 1749	
2					Received at lab on ice? <i>At</i>
3					<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Temp: 4.3°C

All samples submitted to Element Materials Technology for analysis are accepted on a custodial basis only. Ownership of the material remains with the client submitting the samples. Element Materials Technology reserves the right to return unused sample portions.

**9301 Innovation Drive, Suite 115
Daleville, IN
47334-0569 USA
P 765-378-4103
F 765-378-4109**

**629 Washington St. Suite 300
Columbus, IN
47201-6231 USA
P 812-375-0531
F 812-375-0731**

**2121 East Washington Boulevard
Fort Wayne, IN
46803-1328 USA
P 260-471-7000
F 260-471-7777**

**560 South Zimmer Road
Warsaw, IN
46580-2368 USA
P 574-267-3305
F 574-269-6569**

3371 Cleveland Road, Suite 100A
South Bend, IN
46628-9780 USA
P 574-277-0707
F 574-273-5699

2417 W. Pinhook Rd
Lafayette, LA
70508-3344 USA
P 337-235-0483
F 337-233-6540