



Stormwater Management 2019 sMS4 Annual Report

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and Development

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Introduction

This document represents Calcasieu Parish Police Jury's (CPPJ) Stormwater Management Program Plan. CPPJ is required to obtain and maintain authorization for stormwater discharges from its urbanized area as outlined in the current censuses (**Figure 1** is the stormwater area map). Environmental Protection Agency (EPA) published the final rule for Phase II small Municipal Separate Storm Sewer Systems (MS4) in December 1999. This final rule, small MS4s having a population less than 100,000 and defined as urbanized had to obtain permit coverage.

The Louisiana Department of Environmental Quality (LDEQ) developed the LPDES Small MS4 General Permit for such permit authorization. CPPJ is the primary holder of this permit and prepares its Notice of Intent (NOI) to be covered under the LPDES Small MS4 General Permit along with Co-permittees City of Lake Charles, City of Westlake and City of Sulphur. CPPJ submits the NOI at each renewal under the LDEQ assigned LPDES small municipal general permit number LAR041019 to all co-permittees along with individual AI numbers as followed: Calcasieu Parish Police Jury AI# 108485, City of Lake Charles AI# 108479, City of Westlake AI# 109975, City of Sulphur AI# 108413.

The SWMP is designed to reduce the discharge of pollutants to the Maximum Extent Practicable (MEP), protect water quality and satisfy the appropriate water quality requirements in accordance with Louisiana Pollutant Discharge Elimination System (LPDES) Permit LAR041019 this will be done by together implementing the following six Minimum Control Measures (MCMs):

- Public Education and Outreach;
- Public Involvement and Participation;
- Illicit Discharge Detection and Elimination;
- Construction Site Runoff Control
- Post-Construction Stormwater Management in New/Redevelopment;
- Pollution Prevention/Good Housekeeping for Municipal Operations.

To address specific stormwater problems with in Calcasieu Parish CPPJ will select and implement Best Management Practices (BMPs) and measurable goals for each minimum control measure. CPPJ will use MCMs to gauge permit compliance in program effectiveness. With the responsibility of monitoring and reporting on the BMPs and measurable goals selected to fulfill the minimal control measures.

Executive Summary

The Calcasieu River Basin is located in southwestern Louisiana. It is bordered by the Mermentau River to the east and the Sabine River to the west. Its headwaters arise in the hills west of Alexandria and flow in a north-to-south direction toward the Gulf of Mexico. The drainage area of the basin comprises approximately 3,910 square miles. The Lake Charles Urbanized Area is situated within the Calcasieu River watershed which is impacted by agricultural and forestry activities to the north, petrochemical industries toward the west, and population growth throughout the region.

The Lake Charles Urbanized Area lies within Calcasieu Parish and is comprised of the cities of Lake Charles, Sulphur, and Westlake as well as the populated areas surrounding those three cities. Lake Charles, the fifth largest city in the State of Louisiana has a population of approximately 77,000. The City of Sulphur's population is approximately 22,500 and that of Westlake is just under 5,000. The urbanized areas surrounding the three cities include the unincorporated locations of Carlyss, which lies south of Sulphur, Prien situated south-southwest of Lake Charles, and Moss Bluff located north of that city. **Figure 2** is the site location map for the entire Calcasieu Parish.

The Calcasieu River flows through the parish, creating an estuarine system of lakes and brackish waters throughout the region including Lake Charles, Prien Lake, Moss Lake and ultimately Calcasieu Lake in Cameron Parish before discharging to the Gulf of Mexico. A number of bayous including Bayou Serpent, Indian Bayou, English Bayou, Bayou D'Inde, Bayou Verdine, and Contraband Bayou discharge directly or indirectly into Calcasieu River as it meanders through the region. **Figure 3** depicts the drainage laterals with the parish.

The area lakes, rivers and waterways are used for primary and secondary contact recreation such as swimming, boating, and fishing, fish and wildlife protection and preservation, and agricultural use. The Calcasieu River and ship channel are utilized for transportation, shipping and commerce to the area's petrochemical industries and the Port of Lake Charles, ranked as the eleventh largest port in the nation. **Figure 4** illustrates other land use classifications for the parish.

Background

In 2003, the Lake Charles Urbanized Area was issued a small Municipal Separate Storm Sewer System (sMS4) Permit by the Louisiana Department of Environmental Quality (LDEQ). The sMS4 was reissued in September 2018. Calcasieu Parish administers the permit and related program, including issuance of the Storm Water Annual Report, however, each co-permittee is responsible for the activities and related ordinances for their respective jurisdictions. The co-permittees continue to work together to meet compliance with the permit conditions and conduct quarterly meetings for information sharing and problem-solving purposes.

Name of sMS4

Lake Charles Urbanized Area
Permit # LAR041019
AI# 108485

sMS4 Address:

Calcasieu Parish Police Jury
1015 Pithon Street
P.O. Drawer 3287
Lake Charles, LA 70602

Contact Information

sMS4 Coordinator: Tara Ross Environmental Coordinator
Division of Planning and Development
Calcasieu Parish Police Jury
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Lake Charles, LA 70602

Chief Elected Official: Shelly Mayo President, Calcasieu Parish Police Jury
1015 Pithon Street
P.O. Drawer 3287
Lake Charles, LA 70602

Impaired Water Bodies

According to the information from the 2018 Integrated Report of Water Quality in Louisiana, a number of the area waterways are impacted by one or more of several physical, chemical and/or biological water quality indicators including dissolved oxygen, low pH, lead, mercury, dioxin, furan compounds, PCBS, enterococcus, nitrate/nitrite, total phosphorus, and fecal coliform. The indicated or suspected sources of the impairments include agriculture, construction stormwater discharge (permitted), sediment re-suspension, silviculture, and plantation management, changes in tidal circulation /flushing, flow regulation/modification, impacts from hydrostructure, flow regulation/modification, and flow alterations from water diversions.

Others include naturally occurring organic acids, toxics, atmospheric deposition, and/or natural and unknown sources. Suspected biological sources include discharges from municipal separate storm sewer systems (MS4), sanitary sewer overflows, sewage discharges in unsewered areas, unpermitted discharge (domestic waste), on-site treatment systems (septic systems and similar decentralized systems), industrial point source discharge and wildlife other than waterfowl.

The area 303 (d) listed water bodies are rated as Low and Moderate on the TMDL priority list for all water quality indicators. Currently no requirements have been specified for TMDL's on waterbodies impaired by urban runoff/ storm sewers, municipal, or unspecified stormwater within Calcasieu Parish, therefore CPPJ is not required to perform wet weather monitoring under the LPDES sMS4 General Permit. CPPJ will continue to review the Louisiana Water Quality Integrated Report (IR) for any new Waste load Allocations within its jurisdiction and update the SWMP plan if any are identified.

Legal Authority

Management of stormwater activities are addressed in CPPJ municipal code of ordinances (Chapter 26. Zoning and Development, Article VII. Technical Design Standards). Ordinances are enforceable by CPPJ Code Enforcement personnel, under the direction of the Director of Planning and Development. Failure to comply with said ordinances will result in financial penalties as scheduled.

Allowable Non-Stormwater Discharges

CPPJ has a stormwater ordinance (Ord. No.6143, § II, 12-6-12) that prohibits non-stormwater discharges except for discharges composed entirely of one or more of the following categories of discharges:

- A discharge authorized by, and in full compliance with, an LPDES permit (other than the LPDES permit for discharges from the MS4);
- A discharge or flow resulting from the firefighting by the area firefighting department;
- A discharge or flow of fire protection water that does not contain oil or hazardous substances or materials;
- Agricultural water runoff;
- A discharge or flow from water line flushing, but not including a discharge from water line disinfection by super-chlorination or other means unless it contains no harmful quantities of chlorine or any other chemical used in the line disinfection;
- A discharge from swimming pool filter backwashing or pool or spa draining, provided that such water is discharged at a rate or volume that allows for percolation into the soil and does not negatively impact neighboring property or the parish drainage ways;
- A discharge or flow from lawn watering, landscape irrigation, or other irrigation water;
- A discharge or flow from a diverted stream flow or natural spring;
- A discharge or flow from uncontaminated pumped groundwater or rising groundwater;
- Uncontaminated groundwater infiltration (as defined as in 40 CFR 35.2005(2) to the MS4);
- Uncontaminated discharge or flow from a foundation drain, crawl space pump, or footing drain;
- A discharge or flow from air conditioning condensation that is not mixed with water from a cooling tower, emissions scrubber, emission filter, or any other source of pollutant;
- A discharge or flow from a potable water source not containing any harmful substance or material from the cleaning or draining of a storage tank or other container;
- A discharge or flow from individual residential car washing;
- A discharge or flow from a riparian habitat or wetland;

- A discharge or flow from water used in street washing that is not contaminated with any soap, detergent, solvent, emulsifier, dispersant, or any other harmful cleaning substance;
and
- Stormwater runoff from a roof that is not contaminated by any runoff or discharge from an emissions scrubber or filter or any other source of pollutant.

CPPJ ordinance states no affirmative defense shall be available if the discharge or flow in question has been determined by the compliance officer or their agent to be a source of a pollutant or pollutants to the waters of the United States or to the MS4.

MINIMUM CONTROL MEASURES

CPPJ Stormwater Management Program Plan is distinguished by six Minimum Control Measures (MCMs) listed in the LPDES sMS4 Master General Permit LAR 040000. Best Management Practices (BMPs) have been selected and implemented or to be implemented to align with the requirements of each of the six MCMs. An explanation depicting how and why the BMP was selected is also provided. For each BMP measurable goals are described including elements such as the time frame to commence the component, markers for goal achievement, the number of occurrences of the component and who is responsible for implementing each MCM is outlined below, with descriptions of related BMPs for each MCM Table charts summarizing the BMPs, BMP task description, Measurable Goals and implementation timeline for each MCM are included.

Public Education and Outreach

Providing educational information to the public on the impacts of stormwater discharges through public education and outreach programs by conveying what steps the public can take to reduce pollutants in stormwater runoff creates an informed and knowledgeable community. CPPJ defines this as one of the most vital elements to the success of its stormwater management program. Educating the public on implementing actions that can reduce discharge through the MS4 has created better understanding and greater success for achieving compliance.

CPPJ has identified BMP's under this program with education and outreach efforts and materials focusing on how minimizing pollutants allowed in stormwater run-off improves the bodies of water around Calcasieu Parish. Overall success of the program will be evaluated through change in behavior, documented improvements in water quality when available and achievement of measurable goals.

BMP 1-1 Distribution of Educational Materials Through Utility Inserts, Flyers and Brochures. Develop a list of subjects for inclusion and discussion in the flyers based on the consideration of the residents the parish caters to. Develop a list of subjects to be included in public education material based on residential activities such as, car washing, oil changing, household chemical waste disposal, pet waste, septic tank care, gardening and lawn care practices. Design and print utility bill insert for each of the selected topics.

Measurable Goal Distribute at least 2 scheduled materials to selected target audiences annually. Maintain records of the number and type of public education materials distributed. Annually report on the number and type of public education materials distributed.

2019 Results Calcasieu Parish continues to make available to the public the Stormwater flyers and educational pamphlets and handouts in the Planning and Permits offices as well as other areas of governmental buildings. The flyer and pamphlet information that has been made available to the public through handouts at conventions, conferences and classrooms has included recycling, litter reduction, household hazardous waste reduction, and Stormwater pollution prevention materials. The literature is also provided at local workshops and other events during the year. In 2018 an informational display highlighting Best Management Practices for construction site stormwater runoff was installed in the Permits office and remains on display to this day. In 2019 Bilingual information was made available as well. (Attachment #1)

Calcasieu Parish provides flyers developed by the Louisiana Department of Health and Hospitals regarding proper maintenance of individual mechanical sewer systems that have been mailed out to residents along with the letter from the parish announcing the sewer inspection program. In 2019, 1,406 inspection cards and flyers were mailed. This was also made available to the public at the parish government building and included with other handouts available at events. <http://new.dhh.louisiana.gov/assets/oph/Center-EH/sanitarian/onsitewastewater/HomeATUBrochure.pdf> (Attachment #1)

2020 Goals Calcasieu Parish will continue to make available to the public the Stormwater flyers and educational pamphlets and handouts in the Planning and Permits offices as well as other areas of governmental buildings.

BMP 1-2 Events and Presentations. Include youth organizations and local civic groups in promoting pollution prevention and awareness through activities and events related to run-off and the importance in protecting area waterways and waterbodies. Present educational environmental

awareness demonstrations, fieldtrips, and events on any of the following: water quality, litter, recycling and household hazardous waste.

Measurable Goal Conduct at least 1 Public Presentation/Event, distribute at least 2 scheduled materials to selected target audiences, and conduct at least 1 Public Presentation/Event with local schools annually. Maintain records of the number and type of public education materials distributed that focus on the impacts of illegal dumping and litter. Annually report on the number and type of public education materials distributed that focus on the impacts of illegal dumping and litter.

2019 Results Calcasieu Parish contacted the Superintendent of Calcasieu Parish School Board for permissions to offer education outreach materials and presentations to area schools when and where it may be needed. We were granted approval and the information was then forwarded to the area schools. <https://www.pickitupcalcasieu.com/pick-it-up/schools/> (Attachment #2)

Calcasieu Parish continues to participate with the Environmental Affairs Committee of the Chamber Southwest Louisiana in a poster contest in which "Litter", "Water Quality", "Air Quality", "Household Hazardous Waste" and "Louisiana Coastal Restoration and Protection" were the topics choices. Information to anyone requesting had been made available through Region 5 Science Fair website, cppj.calcasieuparish.gov and via e-mail requests. The contest was held February 13, 2019 in sequence with Regional Science Fair. Information on this contest has been circulating since September 2018. Roughly 75 posters were submitted. <http://www.lasciencefair.org/Forms/2019Poster.pdf> (Attachment #2)

Calcasieu Parish implemented an "Environmental Awareness Commercial Contest" in conjunction with the Environmental Affairs Committee of the Chamber Southwest Louisiana poster contest as the Parish's part of the event for the 2018 Region 5 Science Fair. Topics for the commercial contest include "Litter", "Water Quality", "Air Quality", "Household Hazardous Waste" and "Louisiana Coastal Restoration and Protection". As recognition, the top two-division winner's commercials will be shown on the Parish's website for one year. This will be a reoccurring event held each year in sequence with the Region 5 Science Fair. There were 22 commercial submissions. <http://www.lasciencefair.org/Forms/2019Commercial.pdf> (Attachment #2)

Calcasieu Parish made anti-littering presentations to 12 Calcasieu Parish schools from September to December where the ill effects of litter from economic, pride, growth, new business and opportunities for their future were discussed. Roughly, 1,383 litterbags were given out between the 12 Calcasieu Parish schools. <https://www.pickitupcalcasieu.com/pick-it-up/schools/> <http://www.cppj.net/residents/fighting-litter-in-calcasieu-parish/education> <https://www.pickitupcalcasieu.com/> (Attachment # 3)

Calcasieu Parish also made anti-littering presentations to 2 Rotary Clubs, 1 Kiwanis Club and 1 Neighborhood Association. <https://www.pickitupcalcasieu.com/pick-it-up/residents/> <https://www.pickitupcalcasieu.com/pick-it-up/businesses/> (Attachment # 3)

Each year Calcasieu Parish Environmental Coordinator assists in the judging of environmental project entries in local Science and Social Studies Fairs.

2020 Goals Calcasieu Parish will continue to contact schools and offer presentations as well as distribute scheduled materials to selected target audiences and report annually.

BMP 1-3 Disseminate Information Using Local Media. Develop a list of storm water issues based on BMP's selected in the SWMP to broadcast PSAs on any of the following: local television, radio, billboards, flyers, posters, newspaper and social media sources.

Measurable Goal Promote at least 1 water quality issue annually. Maintain records of the types of PSA's under this program. Annually report on the types of PSA's under this program.

2019 Results As noted in years past much of the Stormwater media publicity disseminated during the 2019 calendar year related to inspection of individual mechanical sewer systems throughout the parish through the Calcasieu Parish sewer inspection program. Publicity for the program included announcements through the government channel as well as information on the parish website. As previously stated, notification letters were sent to selected area residents where the inspections would be taking place. Information regarding the progress of the sewer inspection program as well as proper maintenance continue to be made available on the parish's website. <http://www.cppj.net/services/planning-development/sewage-inspection-program> (Attachment #4)

Calcasieu Parish implemented an anti-litter campaign started in 2009 to present that has included televised announcements and billboards composed of actual local litter. Paid litter advertising through the O'Carroll Group, which does not include PSA's, for Calcasieu Parish in 2019 included 1,444 spots on local T.V. stations. The commercial that played on these viewed spots was entitled "Litter is a Crime". Social Media hits for 2019 were as followed: 164,854 impressions, and 4,396 likes/comments/shares. There are 13 Digital Outdoor advertising locations that was estimated to receive 2,148,601.84 views and 1 full time billboard and 5 periodic billboard that received an estimated 3,535,095 views for 2019. The running slogan during 2019 was "Litter is a Crime". Automobile litter bags and/or stickers are made available at several area litter program sponsors' locations including banks and automobile cleaning sites. Calcasieu Parish has information on their websites www.calcasieuparish.gov <https://www.kplctv.com/2019/09/18/pick-it-up-calcasieu-cppj-announces-new-initiative-combat-litter/> and <https://www.facebook.com/CalcasieuParishPoliceJury/> (Attachment #4)

2020 Goals Calcasieu Parish will continue to promote water quality issues and maintain records of PSA's annually.

BMP 1-4 Stormwater Website. Develop a list of subjects for inclusion and discussion in the website based on consideration of the residents the

parish caters to. Provide stormwater informational materials, updates, event notifications and additional related resources when necessary.

Measurable Goal Updated as needed. Maintain records of website traffic using a sign-in log or hit counter. Annually report on website traffic under this program.

2019 Results Calcasieu Parish created a website dedicated to Stormwater education and outreach. The website includes facts about Stormwater, ways to eliminate or decrease Stormwater runoff and a page for kids. The webpage has had significant updates and changes throughout the year. <http://www.cppj.net/services/planning-development/stormwater> (Attachment #5)

Calcasieu Parish

2020 Goals Calcasieu Parish will continue to Update the stormwater outreach information on the Calcasieu Parish website and report on the number of hits annually.

BMP 1-5 Commercial Community Outreach. Distribute commercial community public education material in accordance with identified schedule.

Measurable Goal Distribute scheduled educational materials to selected target audiences annually. Maintain records of the number and type of public education materials distributed to commercial facility owners. Annually report on the number and type of public education materials distributed that focus on the impacts of commercial activities.

2019 Results Calcasieu Parish was once again, provided a booth at the area Home Builders Association Home Show in March of 2019 and featured information on Stormwater, litter, and all available services in the Department of Planning and Development. Nine Parish Planning Department employees participated in the two-day event answering questions, providing informational handouts and educating attendees on various functions of the department. Flyers and other related information on permits, occupational licenses, adjudicated property, home construction, litter abatement, pollution prevention, and Stormwater compliance at construction sites were made available to the 1,700 attendees. Stormwater promotional items including 100 pet waste dispensers, 500 "Drink Up" stormwater pollution cups, 300 reusable automobile trash bags and 150 car air fresheners both with the Parish Litter Reporting Hotline number printed on them were all used as giveaways as part of outreach efforts. <http://www.hbaswla.org/> (Attachments #6)

2020 Goals Calcasieu Parish will continue to distribute public education materials and report annually.

Public Involvement and Public Participation

Creating opportunities for public involvement and participation is key to the success of the overall SWMP. An involved public is more likely to support a stormwater program by both helping implement new initiatives and sustain longevity of the program elements. Greater support is shown for the program as the public gains a better understanding for the reason why it is necessary and important to meet compliance with the SWMP. Higher compliance is achieved as the public becomes aware of the personal responsibilities expected of them and others in the community, including individual actions that they take to protect or improve the quality of area waters.

CPPJ uses public involvement and participation events to connect its citizens to the importance our actions as a whole community has on achieving better water quality. Overall success of the program will be evaluated through change in behavior, documented improvements in water quality when available and achievement of measurable goals.

BMP 2-1 Public Involvement Opportunities. Involve local organizations in promoting pollution prevention and awareness through activities related to the importance in protecting area waterways and waterbodies.

Measurable Goal Conduct at least 2 opportunities annually. Maintain records of agenda, attendance, and minutes for each meeting. Annually report on the number of meetings and subjects presented.

2019 Results Calcasieu Parish presented several presentations on Parishwide Watershed Planning to area engineers, developers, landowners, municipalities, jurors and SWLA Alliance. The presentation addressed several issues that affect our local watershed and the steps that the Police Jury is taking in formalizing an organizational structure for a Stormwater and Watershed Management Department. Discussion on the watershed master plan goals and objectives were the focus. <https://www.cppj.net/services/engineering-and-public-works/public-works/storm-water-master-planning> (Attachment # 7)

2020 Goals Calcasieu Parish will continue to present presentations on Parishwide Watershed Planning.

BMP 2-2 Litter Reduction and Recycling. Establish programs for reducing litter throughout the area and develop method for determining success of programs. Provide information to and resources for the public to recycle through presentations, activities, and events.

Measurable Goal Conduct at least 1 event annually. Maintain records of the number of street segments under adoption, number of cleaning or maintenance events conducted, and the volume of litter removed at each event. Annually report on the number of spots under adoption, number of cleaning or maintenance events conducted, and the volume of litter removed at each event.

2019 Results The anti-litter campaign introduced in Calcasieu Parish in 2009 continued during 2019. The litter program at the Calcasieu Parish Police Jury has been active on several fronts within the past year. Including media ads that are run via the C-Gov channel. In 2019 Calcasieu Parish produced a video entitled "Crime Scenes" that featured CPPJ employees examining a litter "crime scene". The staged crime scenes were located at two Calcasieu Parish parks, one at Prien Lake Park and the other at the Moss Bluff Park. These scenes stayed on display for three months at each location and was covered by local media outlets highlighting the importance of reducing litter. Scenes in the commercials included trash in a residential yard, trash floating in a waterway, a ditch full of trash, and a drain clogged with trash.

<https://www.kplctv.com/video/2019/10/04/cppj-pick-it-up-calcasieu-initiative-encourages-citizens-keep-communities-clean/> <https://www.kplctv.com/video/2019/09/18/pick-it-up-calcasieu-cppj-announces-new-initiative-combat-litter/>

Calcasieu Parish Keep Calcasieu Beautiful also participated with Keep Greater Lake Charles Beautiful assisted in the organizing, setting up and participation in E-Recycle Day (03/23/2019) and Trash Bash (04/13/2019) during Keep America Beautiful Great American Clean-Up Month and Beach Sweep and Inland Waterway Clean Up (09/21/2019) and Adopt-A-Spot (10/19/2019). <https://www.kplctv.com/2019/09/09/lake-charles-beach-sweep/> <https://www.kplctv.com/video/2019/03/19/citgo-th-annual-e-recycle-day/> <https://www.kplctv.com/video/2019/01/17/brownie-girl-scout-fighting-back-against-swla-litter-problem/> <https://www.kplctv.com/2019/03/07/mardi-gras-clean-up-what-is-process-collecting-parade-litter/> (Attachment #8)

Calcasieu Parish signed up 3 new Adopt-A-Spot sponsors in 2019. <https://www.pickitupcalcasieu.com/pick-it-up/adopt-a-spot/> (Attachment #9)

Calcasieu Parish is routinely contacted by residents seeking alternative disposal options for materials that are normally disposed of through regular garbage service or illicitly dumped along rural roadways. In response, the parish Stormwater personnel have collected and continue to update the information on waste and recycling disposal location options available throughout the parish. The list of wastes and recyclables, as well as those previously mentioned, includes construction and demolition and other debris, yard waste, scrap metal, tires, oil and other automotive fluids, batteries, furniture, clothing, household goods, appliances, electronics, and mercury. The information is made available to the public through educational pamphlets and phone inquiries to the parish Public Works Department as well as the CPPJ website. <https://www.cppj.net/services/engineering-and-public-works/residential-solid-waste-convenience-centers> (Attachment #10)

Calcasieu Parish maintains two drop off sites at two locations within the parish. The “manned” sites are located at the East and West Maintenance Facilities and make available to residents of the parish sites where household waste may be dropped off on weekdays. Items for inclusion are yard waste, white goods, residential construction and demolition waste, trash, large items such as furniture, as well as the waste tires. A total of 58,012 yards of non-recyclable trash had been collected in 2019 between the two dumpsites. (Attachment #10) <http://www.cppj.net/services/engineering-and-public-works/residential-solid-waste-convenience-centers>. <https://www.pickitupcalcasieu.com/pick-it-up/dumpsites/>

The parish-contracted waste hauling services and recyclers will continue to collect the materials. Waste Management contracted by CPPJ reported 36,298.8 tons of trash collected from roadside pickup. The intent of the program is focused on reducing litter and the likelihood of roadside dumping. Calcasieu Parish collected and recycled 529 batteries and 12,220 yards of general recycled materials in 2019 between the two convenience stations. Residents and municipal governmental agencies from within the Parish may take tires to the designated site for recycling. A recycling contractor collects the tires from the maintenance facilities on a routine basis for transport to the recycling facility. Tire drop off sites have been integrated into the two parish recycling and drop off stations located at the two maintenance facilities. There were 9,638 total number of tires collected between both sites in 2019. (Attachment #10)

Calcasieu Parishes Animal Services and Adoption Department holds two rabies clinics each year, this year the Stormwater “Poop Fairy” helped greet those entering the drive thru clinic. At the clinic, (03-16-2019) Calcasieu Parish gave away 250 promotional pet waste dispensers and 250 “Drink

Up" stormwater pollution cups with stormwater pollution information on them, as part of outreach to pet owners in the parish. (Attachment #11)

2020 Goals Calcasieu Parish will continue to establish programs for reducing litter throughout the area as well as provide information and resources for the public to recycle through presentations, activities, and events.

BMP 2-3 Storm Drain Marking Program. Involve public, schools and organizational participation in installing storm drain markers throughout the urbanized area for public awareness purposes. Coordinate activity with GIS mapping of area storm drain locations.

Measurable Goal Conduct at least 1 event annually. Maintain records of storm drain stenciling and volunteer participation. Annually report on number of storm drains stenciled by volunteers.

2019 Results Calcasieu Parish had a storm drain marking event scheduled with an area high school in March of 2019, however due to inclement weather the event was cancelled.

Calcasieu Parish had a booth at the Calcasieu Parish Library Summer Reading Kick-Off program (05/24/2019) where the Poop Fairy educated children on pets' fecal matter in stormwater run-off and read them "All the Way to the Ocean" by Joel Harper. 50 storm drain markers were given out for the children to place in their neighborhood. (Attachment # 12)

Calcasieu Parish Environmental Coordinator organized, facilitated and provided Stormwater training to Jr Team Green. They were taught about Stormwater Runoff Pollution and provided storm drain markers were given to them to install in their neighborhoods. (Attachment #12)

2020 Goals Calcasieu Parish will continue to involve public, schools and organizational participation with storm drain marking events and presentations.

BMP 2-4 Public Monitoring and Reporting Program. Develop volunteer stormwater monitoring program to Identify outfalls for volunteer monitoring groups to conduct storm water monitoring or dry weather screening. Develop a volunteer community monitored hotline for reporting storm water quality problems that could be reported by the public.

Measurable Goal Establish at least 1 volunteer monitoring group. Maintain records of volunteer monitoring activities conducted under this program. Annually report on volunteer monitoring activities conducted under this program. Maintain records of public reports and comments received under this program. Annually report on the number and type of public reports received.

2019 Results Calcasieu Parish has yet to establish a volunteer monitoring group to conduct stormwater monitoring.

2020 Goals Calcasieu Parish will begin to take steps in the coming years to establish a volunteer monitoring group to conduct stormwater monitoring.

Public Involvement and Public Participation

Creating opportunities for public involvement and participation is key to the success of the overall SWMP. An involved public is more likely to support a stormwater program by both helping implement new initiatives and sustain longevity of the program elements. Greater support is shown for the program as the public gains a better understanding for the reason why it is necessary and important to meet compliance with the SWMP. Higher compliance is achieved as the public becomes aware of the personal responsibilities expected of them and others in the community, including individual actions that they take to protect or improve the quality of area waters.

CPPJ uses public involvement and participation events to connect its citizens to the importance our actions as a whole community has on achieving better water quality. Overall success of the program will be evaluated through change in behavior, documented improvements in water quality when available and achievement of measurable goals.

BMP 3-1 Parish Ordinances. Refine and or change any existing laws, ordinances, and other legal powers that prohibit specific types of illicit discharges and pollutants into the MS4 from both residential and commercial pollution.

Measurable Goal Review annually and amend as needed. Maintain records of each illicit discharge identified and the corresponding corrective actions taken to eliminate the illicit discharge. Annually report on the number of illicit discharges that are identified, eliminated, and the associated enforcement actions issued.

An ordinance was also passed in 2008 authorizing the City of Lake Charles to enter into a Joint Services Agreement with the Calcasieu Parish Sheriff's office for the Litter Abatement Program. That agreement continues to be in effect. https://library.municode.com/la/calcasieu_parish_police_jury/codes/code_of_ordinances?nodeId=COOR_CH11GATRWE_ARTVLI_S11-118DIFICAPABEFUESLICOSE

The Calcasieu Parish Sheriff's Department continues to undertake surveillance of illicit dumping sites around the Parish to identify the possible sources and conduct follow up enforcement. Calcasieu Parish Sheriff's Department issued the following littering citations in 2019, Intentional Littering, Gross Littering and Simple Littering.

2020 Goals Calcasieu Parish will continue to review and amend local ordinances as needed to control illicit discharge and annual report on illicit discharges identified, eliminated and enforcement actions.

BMP 3-2 Illicit Discharge Detection Tracking and Mapping. Develop procedures for the investigation, identification, tracking, and reporting of new and existing MS4 outfalls and address illicit discharge from failing private sewage treatment systems and sanitary sewer overflows.

Measurable Goal Annually report on the number of new outfall locations identified under this program. Maintain records of outfall screening and investigations for each outfall and any elimination activities. Annually report on the number of outfalls screened, number of non-storm water discharges, number of illicit discharges, and elimination activities conducted under this program. Conduct inspections on a routine basis and respond to complaints. Annually report on the number of illicit discharges from septic systems and/or gray water sources identified and eliminated under this program. Annually report on any capital improvement projects

under consideration to serve areas with septic system and/or gray water problems.

2019 Results The Calcasieu Parish mechanical sewer inspection program to address illicit discharges from failing sewer systems is the first in the state to encompass a parish-wide area. This program continues to this day.

During 2019, Calcasieu Parish code enforcement officers continued the complaint driven as well as routine sewer inspection program and identified number of violations of the parish sewer ordinance. As previously stated, notification letters were sent to selected area residents where the inspections would be taking place. Information regarding the progress of the sewer inspection program as well as proper maintenance continue to be made available on the parish's website. A total of 5,082 sewer inspections were completed in 2019 with an estimate of over 685 violations being cited. Of those cited violations during 2019 only 100 remain in violation. Letters were sent to the locations to inform the owners of the need to repair their systems. (Attachment #13)

Calcasieu Parish inspected approximately 81 construction areas for illicit discharge within the urbanized area in 2019. If a construction site is found to have an illicit discharge, the parish may issue a stop work order followed by an assessment of civil penalties. The parish also continues to address all complains from citizen. The complaint is investigated, images of the violation(s) are recorded, and the parish issues a violation letter requiring all Stormwater violations to be rectified or we may serve a stop work order. Citizens may fill out a complaint form on www.calcasieuparish.gov Stormwater page as well as may make a formal complaint to CPPJ Environmental Coordinator. <https://www.calcasieuparish.gov/services/planning-development/stormwater/stormwater-complaint-form/stormwater-complaint-form> (Attachment #23)

2020 Goals Calcasieu Parish will continue to develop procedures for the investigation, identification, tracking, and reporting of new and existing MS4 outfalls and address illicit discharge from failing private sewage treatment systems and sanitary sewer overflows.

BMP 3-3 Illicit Discharge Elimination and Education. Develop SW program and tracking for types of facilities that may be likely to contribute illicit discharges to the MS4. Develop trainings for personnel of identified facilities to be educated on the identification and reporting of illicit discharges.

Measurable Goal Annually monitor, maintain and report on the number of sanitary sewer systems leaks identified and eliminated under this program. Annually monitor, maintain and report on the number of sanitary sewer system overflows identified and the status of elimination projects. Track facilities and provide at least 1 educational material annually. Annually report number of facilities and materials distributed to facilities. Provide at least 1 training annually. Annually report on the personnel training program in terms of the number of training sessions conducted

and employee attendance. Annually report on the quantities of educational materials distributed, facilities inspected, and pollutant sources eliminated. Annually report on the quantity of educational materials distributed.

2019 Results Calcasieu Parish finalized a master plan for regionalization of the sewer systems within the Parish to incorporate the outlying areas into existing systems and/or develop new systems to serve those areas. The Parish has taken assumed responsibility for Sewer District 8 of Ward 4, Mossville Sewer, all sewer is sent to City of Sulphur, 27 connections. Waterworks District 2 of Ward 4, 232 connections. Waterworks District 5 of Wards 3 & 8, 1796 connections. Sewer District 11 of Ward 3, 816 connections the Parish continues to maintain these plants as well as manage the billing and customer service. In addition to the water and sewer districts that are being maintained by CPPJ there are 7 systems that CPPJ has agreed to maintain after construction. Oak Grove, 64 connections and Highland Hill 36 connections, Orleans Run (Phase 1), 104 connections, Courtyards, 27 connections, Ravenwood 33 connections, and Cooling Springs 130 mobile home connections, 39 RV connections as well as one dump site. Two new plants were added in 2018, Shadows 24 connections and Wallace Point 5, connections and Waterworks District 12 of Ward 3 has 653 connections.

Calcasieu Parish has 7 employees with water/wastewater certifications. They receive 8 hours of training every two years to maintain their certifications.

In 2019 Calcasieu Parish repaired 13 broken sewer lines, 33 water lines and had 1 reportable sewer overflow (10-14-2019). (Attachment#14)

To educate residents on how to care for their home aerobic treatment units Calcasieu Parish provides flyers developed by the Louisiana Department of Health and Hospitals regarding proper maintenance of individual mechanical sewer systems that have been mailed out to residents along with the letter from the parish announcing the sewer inspection program. In 2019, 1,406 inspection cards and flyers were mailed. This was also made available to the public at the parish government building and included with other handouts available at events.

<http://new.dhh.louisiana.gov/assets/oph/Center-EH/sanitarian/onsitewastewater/HomeATUBrochure.pdf> (Attachment #1)

2020 Goals Calcasieu Parish will continue to track types of facilities that may be likely to contribute illicit discharges to the MS4. As well as, continue trainings for personnel of identified facilities to be educated on the identification and reporting of illicit discharges.

BMP 3-4 Illicit Discharge Identification and Reporting. Develop an internal hotline and website for reporting stormwater quality problems that could be reported by the public. Develop interagency agreements to eliminate illicit discharges that may originate outside of the MS4 jurisdiction.

Measurable Goal Annually report on the number of public reports received, investigated, and the number of illicit discharges eliminated as a result of public reports. Report annually on the status of interagency agreements regarding illicit discharge elimination and the number of illicit discharges eliminated under this program.

2019 Results As noted earlier, the anti-litter campaign introduced in Calcasieu Parish in 2009 was continued during 2019. The program provides a litter hot line for reporting littering. In 2019, 30 litter violation letters were sent out in response to calls into the litter hot line. (Attachment #15)
<http://www.cppj.net/residents/fighting-litter-in-calcasieu-parish/report-litterers-here>
<https://www.pickitupcalcasieu.com/report-litter/>

2019 Results Calcasieu Parish created a website dedicated to Stormwater education and outreach. The website includes facts about Stormwater, ways to eliminate or decrease Stormwater runoff and a page for kids. There is also a complaint form where citizens can report illicit discharge. The webpage has had significant updates and changes throughout the year.
<http://www.cppj.net/services/planning-development/stormwater> (Attachment #16)

2020 Goals Calcasieu Parish will continue to maintain its internal hotline and website for reporting stormwater quality problems that could be reported by the public and its interagency agreements to eliminate illicit discharges that may originate outside of the MS4 jurisdiction.

Construction Site Runoff Control

CPPJ MCM for Construction Site Runoff Control takes steps intended to minimize pollutants from construction related activities disturbing one acre or more, or less than an acre if part of a larger joint plan of development. Guidelines and been developed addressing issues necessary to control stormwater runoff from construction sites, such as, temporary erosion control measures, control of other construction wastes, operation and general prohibitions, and final stabilization.

Ordinances upheld by CPPJ specifically address stormwater runoff from construction actives, and requires conformance to local storm water regulations, appropriate use, maintenance and inspection of temporary erosion controls, inclusion of any required local, state, and/or federal stormwater permit. Overall success of the program will be evaluated through change in behavior, documented improvements in water quality when available and achievement of measurable goals.

BMP 4-1 Stormwater Standards Ordinance. Refine and or change any existing laws, ordinances, and other legal powers for current stormwater runoff policies.

Measurable Goal Review annually and amend as needed. Annually report any changes. Review annually and amend as needed. Annually report any changes.

2019 Results December 8, 1999: EPA issues final rule on discharge of storm water from small municipal separate storm sewer systems (MS4s) serving less than 100,000 persons and construction sites that disturb one to five acres. MS4 Storm Water Discharge Permits are issued through DEQ, the state primacy agency. On March 10, 2003, the DEQ issued a Storm Water General Permit to Calcasieu Parish, Cities of Lake Charles, Sulphur, and Westlake, who shall operate as co-permittees. The first Stormwater ordinance was adopted in 2007 and was updated in 2012 Ord. No. 6143. The ordinance has not been changed since 2012.

https://library.municode.com/la/calcasieu_parish_police_jury/codes/code_of_ordinances?nodeId=COOR_CH26ZODE_ARTVIITEDEST_DIV6STST (Attachment #17)

2020 Goals Calcasieu Parish will continue to review and amend local ordinances as needed to control stormwater runoff and annual report any changes annually.

BMP 4-2 Construction Site Runoff Reporting, Inspection, and Enforcement. Develop stormwater construction runoff inspection program addressing complaints and enforcing the control of construction related runoff issues.

Measurable Goal Annually review, investigate, track and report on the number of Stormwater construction runoff inspections completed. Annually review, investigate, track and report on the quantity of public reports received and considered under this program.

2019 Results Calcasieu Parish's Permits Department continued use of the forms for use in the building and construction permitting process to inform developers of the state and parish requirements. The forms in use through the department include the Contractor/Developer/Builder Environmental Permit Requirements, Stormwater BMP Inspection Report Requirements, Stormwater Permitting Requirements, Stormwater Erosion & Sediment Control Checklist, and the Stormwater BMP Site Inspection Report. Other information provided includes grading plans and permits as well as information on construction site BMPs and the Louisiana Department of Environmental Quality permit requirements for medium and large sites. <https://www.calcasieuparish.gov/services/planning-development/stormwater/stormwater-management/stormwater-permits> (Attachment #18)

Calcasieu Parish requires a permit application for any construction that takes place within the delineated Stormwater area. The application requires a site map and plan. The plan is reviewed as well as modified, if needed, prior to approval. The applicant is required to contact CPPJ prior to beginning construction for an inspection of required BMPs. If an inspection reveals insufficiencies in the required BMPs the construction is not authorized to begin. Inspection continues through the construction process and if BMPs are not properly installed and maintained, a stop work order may be issued as well as civil penalties assessed. Rack cards of BMPs are made available to parishioners in the permit office as well as on the CPPJ website. <https://www.calcasieuparish.gov/services/planning-development/stormwater/stormwater-management/best-management-practices-bmp> (See Attachment #18)

In 2019 the Calcasieu Parish Stormwater personnel reviewed approximately 368 site plans for proposed construction sites within the Urbanized Area of the parish. During the site plans review, applicants for construction permits for sites within the urbanized storm water area of Calcasieu Parish are informed of the requirements to maintain good housekeeping practices regardless of the size of the construction "footprint". Emphasis is placed upon construction site litter and debris as well as waste concrete disposal practices. Footprints larger than 5 acres are required to provide a copy of their LPDES permit and SWPPP. (Attachment #18)

The Louisiana Department of Environmental Quality has requested that parishes provide land developers with written correspondence indicating that any proposed activities comply with the Parish's sMS4 Stormwater Management Plan. A total of 6 request for these written acknowledgements had been completed in 2019 by Calcasieu Parish. (Attachment #18)

Calcasieu Parish maintains a minimum of three Certified Stormwater Inspectors (CSI). In 2019, responses were made to a number of sites by Calcasieu Parish Stormwater inspectors to address illicit discharges from construction sites into drainage ways or onto roadways throughout the parish. Continuing Education on Stormwater issues are obtained during the year.

2020 Goals Calcasieu Parish will continue to review, investigate, track and report on the number of Stormwater construction runoff inspections completed.

BMP 4-3 Permit Review and Tracking. Develop stormwater permit review process for construction permits required for obtaining state and/or federal construction storm water permits applicable to permittee owned and operated construction sites. Develop tracking system for new and ongoing construction in regulated stormwater area.

Measurable Goal Maintain records of plans reviewed and approved for construction under this program. Annually report on the number of plans reviewed, approved and rejected under the plans review program. Maintain records of construction site inspections, enforcement actions, and corrective actions performed by local construction site owners and operators. Annually report on the total number of construction sites permitted, the number of construction sites inspected, and the number of

enforcement actions issued. Maintain compliance records for permittee owned and operated construction sites requiring state and/or federal construction storm water permits. Annually report on the number of permittee owned and operated construction projects permitted under state and/or federal construction storm water regulations.

2019 Results Calcasieu Parish issues culvert permits to applicants wishing to install entryways to their property, if not previously existing. Specifications on pipe size and composition details are included in the guidelines. The owners are also informed of their responsibility to install storm water BMPs to minimize erosion of soil around the newly installed culvert. The owner is provided guidance on hay bale and silt fencing installation. Once completed, the culvert installation and BMPs are inspected. There were a total 501 culvert permits applications and 396 issued in Calcasieu Parish for 2019. <https://www.calcasieuparish.gov/services/planning-development/building-permits/culvert-permits> (Attachment #19)

During 2019 Calcasieu Parish continued the Joint Services Agreements with the City of Westlake to conduct the city's construction inspections and include Stormwater permit compliance activities during the inspections in those areas.

2020 Goals Calcasieu Parish will continue to maintain records of plans reviewed and approved for construction under this program.

BMP 4-4 Distribution of Educational Information. Develop and distribute stormwater runoff educational materials and resources for local construction community on local, state and federal requirements for construction site management of stormwater runoff quality.

Measurable Goal Distribute at least 1 scheduled educational material annually. Annually report on educational materials distributed, attendance at presentations, and identity of any changes made to local construction storm water regulations.

2019 Results Calcasieu Parish continues to make available to the contractors and the public Stormwater flyers and educational pamphlets and handouts in the Planning and Permits offices as well as other areas of governmental buildings. The flyer and pamphlet information that has been made available to the public through handouts at conventions, conferences and classrooms has included recycling, litter reduction, household hazardous waste reduction, and Stormwater pollution prevention materials. The literature is also provided at local workshops and other events during the year. In 2018 an informational display highlighting Best Management Practices for construction site stormwater runoff was installed in the Permits office and remains on display to this day. (Attachment #20)

2020 Goals Calcasieu Parish will continue to make available to the public the Stormwater flyers and educational pamphlets and handouts in the Planning and Permits offices as well as other areas of governmental buildings.

Post-Construction Stormwater Management in New/Redevelopment

CPPJ MCM goal for BMP Post-Construction Stormwater Management in New/Redevelopment are to help reduce the impact that new/redevelopment has on larger developments. Stormwater Standards, Drainage Standards, Coastal Zone Management and Floodplain Management ordinances upheld by CPPJ contain measures for structural and non-structural controls and/or measures intended to reduce impacts of new/redevelopment activities.

CPPJ Department of Planning and Development along with the Department of Engineering are responsible for reviewing projects to assure and confirm that all measures conform with any related ordinances for development and do not create adverse impacts and water quality as well as water quantity. Overall success of the program will be evaluated through change in behavior, documented improvements in water quality when available and achievement of measurable goals.

BMP 5-1 Stormwater, Watershed, Drainage, Coastal and Floodplain Management. Develop, refine, and or change any existing laws, ordinances, and other legal powers for current post-construction stormwater runoff management policies. Develop low impact standards for development and redevelopment with in the MS4.

Measurable Goal Maintain records of development plans reviewed for incorporation of low impact development standards. Annually report on the number of development plans reviewed for the incorporation of low impact development standards.

2019 Results Existing parish zoning and floodplain ordinances authorize the requirement of post-construction Stormwater management plans for large projects. These ordinances are routinely enforced. The Stormwater ordinances for Calcasieu Parish includes language that addresses long-term post-construction Stormwater pollution process maintenance. https://www.municode.com/library/la/calcasieu_parish_police_jury/codes/code_of_ordinances?nodelid=COOR_CH26ZODE_ARTVIITEDEST_DIV6STST (Attachment #21)

Over the last few years, the Department of Public works has presented numerous presentations that addressed several issues affecting Calcasieu Parish and our local watershed. As a result, in addressing these issues an ordinance amending various provisions relative to drainage standards have been made to Chapter 26 - Zoning and Development. These amendments were accepted in November of 2017 and has been put in place June 2018 and remains in effect to this day. <https://www.kplctv.com/2019/03/13/calcasieu-parish-drainage-committee-hears-final-drainage-district-consolidation-recommendations/> <https://www.calcasieuparish.gov/services/engineering-and-public-works/public-works/storm-water-master-planning> (Attachment #7)

2020 Goals Calcasieu Parish will continue to review and amend local ordinances as needed to control stormwater runoff and annual report any changes annually.

BMP 5-2 Post-Construction Site Runoff Reporting, Inspection, and Enforcement. Develop a reporting and inspection program to inspect complaints from local new and re-development projects in order to ensure compliance with local post-construction runoff regulations and approved plans.

Measurable Goal Annually review, investigate, track and report on any changes.

2019 Results Calcasieu Parish requires a permit application for any construction that takes place within the delineated Stormwater area. The application requires a site map and plan. The plan is reviewed as well as modified, if needed, prior to approval. The applicant is required to contact CPPJ prior to beginning construction for an inspection of required BMPs. If an inspection

reveals insufficiencies in the required BMPs the construction is not authorized to begin. Inspection continues through the construction process and if BMPs are not properly installed and maintained, a stop work order may be issued as well as civil penalties assessed. There were 368 Stormwater permits issued in 2019. Rack cards of BMPs are made available to parishioners in the permit office as well as on the CPPJ website. <https://www.calcasieuparish.gov/services/planning-development/stormwater/stormwater-management/best-management-practices-bmp> (See Attachment #22)

Calcasieu Parish continues to regulate and inspect the maintenance on erosion control devices on parish road projects as specified by Section 204 and Section 739 of the Louisiana Standard Specifications for Road and Bridges 2000 Edition. The Parish also requires that all new subdivision developments use temporary hay or straw bales, silt fencing, etc. for sediment and erosion control. The Parish Engineering Division inspects this during construction. Also, the Parish specifies that certain BMPs are part of the conditions for zoning approval concerning large developments (i.e. require installation of limestone at the exit of access roads for borrow pits to reduce dirt/dust collection on public roads, preserve existing vegetation and re-vegetating disturbed soils). <https://www.calcasieuparish.gov/services/engineering-and-public-works/public-works/projects> (Attachment #23)

2020 Goals Calcasieu Parish will continue to annually review, investigate, track and review any changes.

BMP 5-3 Permit Review and Tracking. Develop a construction plans review process for stormwater compliance on local post development. Develop process for tracking local development and post development stormwater related issues that require local regulation.

Measurable Goal Annually review, investigate, track and report any changes. Maintain records of development plans reviewed and actions taken under this program. Annually report on the number of plans reviewed, approved, and rejected under this program.

2019 Results Calcasieu Parish Planning personnel handles construction site plan reviews that include verification of planned Stormwater BMPs during both construction and post-construction phases of the project. Parish site inspections occur at pre, during and post-construction intervals. Commercial, subdivision, and individual residential site plans are handled separately and are reviewed by designated parish personnel. The staffs responsible for components of the development or construction is consulted on specific aspects of the project. On an as needed basis, other representatives including parish engineering, public works, planning and development, permits, code enforcement, Office of Emergency Preparedness, and environmental departments as well as representatives from the Louisiana Department of Health and Hospitals may be involved in the plan review process. There were 368 Stormwater permits issued in 2019. (Attachment #24)

During the Stormwater site plans review, applicants for construction permits for sites within the urbanized Stormwater area of Calcasieu Parish are informed of the requirements to maintain good housekeeping practices regardless of the size of the construction "footprint". Emphasis is placed

upon construction site litter and debris as well as waste concrete disposal practices. <http://www.cppj.net/services/planning-development/building-permits/checklists-fee-schedules>

As the Calcasieu Parish Stormwater program progresses, it is anticipated that more post-construction related activity will occur. Existing developments in the final stages of construction and site stabilization are being reviewed and inspected by parish personnel for compliance with the parish post-construction Stormwater requirements. Continued public awareness of the parish Stormwater requirements is being presented daily to residential and commercial customers through the construction and development permitting process as well as in pamphlets located in the permitting office and on both the Permit page and Stormwater page on www.calcasieuparish.gov. Public awareness has shown an evident rise noted by the increased number of calls received from neighboring residents reporting conditions of non-compliance with the Stormwater requirements. (Attachment #20)

2020 Goals Calcasieu Parish will continue to annually review, investigate, track and review any changes.

BMP 5-4 Water Quality Monitoring. Develop a program to monitor changes in impaired water bodies. Develop program for local watershed monitoring.

Measurable Goal Maintain records of areas zoned and acquired for critical areas protection. Annually report on the number and location of buffer zone areas and land acquired to protect critical areas adjacent to sensitive or impaired water bodies. Maintain records of any TMDL requirements and pollutants of concern for any local MS4 receiving streams that are considered sensitive or impaired. Annually report on the number of watershed planning meetings attended and any associated changes in the MS4's BMP's. Maintain records of development project site inspections, enforcement actions, and corrective actions performed by local development project owners. Annually report on the number of development project sites inspected, and the number of enforcement actions issued.

Maintain records of permittee owned development projects approved, inspected, and records of structural control maintenance if applicable. Report annually on the number of permittee owned projects approved, constructed, and inspected.

2019 Results Calcasieu Parish has yet to establish a volunteer monitoring group to conduct water quality and watershed monitoring.

2020 Goals Calcasieu Parish will begin to take steps in the coming years to establish a volunteer monitoring group to conduct water quality and watershed monitoring.

Pollution Prevention/Good House Keeping for Municipal Operations

CPPJ MCM Pollution Prevention and Good Housekeeping for Municipal Operations is in place to ensure that routine activities conducted throughout CPPJ municipal operations and maintenance help minimize pollutants entering waters of the MS4. Elements of education and training along with good operations and maintenance programs are the main focus for this CPPJ MCM.

Municipal facilities and activities can be sources to numerous stormwater pollutants. Involving responsible departments to focus on the maintenance of controls on specific activities helps address any pollutants of concern. Overall success of the program will be evaluated through change in behavior, documented improvements in water quality when available and achievement of measurable goals.

BMP 6-1 Street and Parking Lot Sweeping. Develop street sweeping program on roadways to remove sediment and other pollutants. Develop permittee owned and operated parking lot sweeping program.

Measurable Goal Annually report on the distance swept and quantity of materials removed from roadways included in the program. Annually review, investigate, track and report on the quantity of materials removed from permittee owned parking areas.

2019 Results Calcasieu Parish currently does not have routine street and parking lot sweeping. Sweeping is performed as needed on special projects through Facility Management. Currently there are no methods of tracking these activities.

2020 Goals Calcasieu Parish will begin tracking street and parking lot sweeping activities and report on them annually.

BMP 6-2 Drainage Inspection and Maintenance. Develop an inspection and maintenance program for cleaning inlets, catch basins, culverts and manholes.

Measurable Goal Maintain records of the quantity of materials removed from catch basins and surface inlet structures. Annually report on the number of catch basins, surface inlets, and other MS4 structures cleaned as well as the quantity of materials removed during cleaning activities.

2019 Results Calcasieu Parish continues to stay in compliance with the Good Housekeeping at each of its Public works Facilities by carrying out routine on-site maintenance the Drop Site Compactor Pits and Wash Rack drains. Maintenance logs from both Public Works Facilities are kept throughout the year reflecting catch basin and culvert cleaning within Calcasieu Parish. A log of onsite maintenance is kept for the wash racks and trash compactor pits as well (Attachment #25)

Calcasieu Parish does routine and complaint-based cleanings on inlets, catch basins, culverts and manholes. In 2019 public works crews completed 7,845 tasks related to drainage inspections and maintenance.

2020 Goals Calcasieu Parish will continue to track tasks related to drainage inspection and maintenance of inlets, catch basins, culverts and manholes.

BMP 6-3 Pollution Prevention at CPPJ Facilities. Develop a routine inspection and maintenance program for all permittee owned fleet. Develop permittee owned and operated stormwater program for landscaping and

lawn care activates. Develop process for identifying, tracking and inspecting permittee owned facilities that require SPCC. Develop process for identifying, tracking and inspecting permittee owned facilities that require general permits.

Measurable Goal Maintain vehicle maintenance records and document fluid leak repair activities. Annually report on the number of leaking vehicles repaired under this program.

2019 Results Calcasieu Parish has 354 parish owned vehicles in its fleet. Routine inspections and maintenance is preformed at this time by each department. There are plans for all fleet to be managed by Risk Management at which time routine inspections and maintenance will be reported. Calcasieu Parish currently contracts out all landscaping and lawn care services. New SPCC are being done by a local engineering firm and will be implemented once received.

Calcasieu Parish Public Works Facilities maintain Stormwater Pollution Prevention by recycling oil from there fleet maintenance operations, in 2019 a combined 2,767 gallons of oil was recycled between Public Works East and Public Works West. These facilities also continue to implement the revised spill incident and response form to the parish owned facilities. The parish hopes that this will help current and future parish employees prevent and reduce any pollution from entering storm drains as well as water bodies. (Attachment #28)

2020 Goals Calcasieu Parish will continue to perform routine maintenance and inspections on its parish owned fleet. Calcasieu Parish will provide stormwater training to its contracted landscaping and lawn service providers.

BMP 6-4 Pollution Prevention and Good Housekeeping Parish-wide. Develop a litter collection program. Develop an herbicide / pesticide application monitoring program. Develop process for evaluating and use of BMP on roadway maintenance activities. Develop process for identifying, tracking and enforcing illegal dumping.

Measurable Goal Maintain records of the quantity of litter collected from permittee owned areas. Annually report on the quantity of litter collected from permittee owned areas. Annually report on the total volume of pesticide and herbicide applied and the progress of any projects that results in a reduction of pesticide and herbicide application volumes. Report annually on the activities conducted under this program. Annually report on the number of facilities with SPCC plans and the current status

of each SPCC plan. Annually report on the number of permittees owned industrial facilities and current permit compliance status.

2019 Results Calcasieu Parish maintains two drop off sites at two locations within the parish. The “manned” sites are located at the East and West Maintenance Facilities and make available to residents of the parish sites where household waste may be dropped off on weekdays. Items for inclusion are yard waste, white goods, residential construction and demolition waste, trash, large items such as furniture, as well as the waste tires. A total of 58,012 yards of non-recyclable trash had been collected in 2019 between the two dumpsites. (Attachment #26) <https://www.calcasieuparish.gov/services/engineering-and-public-works/public-works/solid-waste> .

The parish-contracted waste hauling services and recyclers will continue to collect the materials. Waste Management contracted by CPPJ reported 36,298.8 tons of trash collected from roadside pickup. The intent of the program is focused on reducing litter and the likelihood of roadside dumping. Calcasieu Parish collected and recycled 529 batteries and 12,220 yards of general recycled materials in 2019 between the two convenience stations. Residents and municipal governmental agencies from within the Parish may take tires to the designated site for recycling. A recycling contractor collects the tires from the maintenance facilities on a routine basis for transport to the recycling facility. Tire drop off sites have been integrated into the two parish recycling and drop off stations located at the two maintenance facilities. There were 9,638 total number of tires collected between both sites in 2019. (Attachment #26)

2020 Goals Calcasieu Parish will continue to report annually on the its litter collection program. New SPCC's are being created by a local engineering firm and will be implemented once received.

BMP 6-5 Education and Training. Develop and implement an operation and maintenance program for jurisdictional facilities to include a training component with a goal of preventing or reducing pollutant runoff from municipal and parish operations. Conduct employee training to prevent and reduce Stormwater pollution during routine maintenance activities.

Measurable Goal Annually report on the personnel training program in terms of the number of training sessions conducted and employee attendance. Maintain records of road maintenance activities and the use of alternative maintenance practices. Annually report on road maintenance activities and the use of alternative maintenance practices. Annually report on the number of illegal dumping locations identified, volume of materials removed, and the number of associated enforcement actions.

2019 Results Calcasieu Parish Environmental Coordinator along with CPPJ media department produced a new Pollution Prevention/Good Housekeeping training video during the

year 2017 to train CPPJ employees. This video training was presented to both Public Works Maintenance Facilities. For the Pollution Prevention/Good Housekeeping training video presentation, there were total of 98 employees in attendance between both Public Works East and Public Works West. (Attachment #27)

Calcasieu Parish in order to better form partnerships with area entities to address the importance of Stormwater pollution prevention at area facilities, has started production on a video presentation on preventing Stormwater pollution. This presentation is shown during meetings with area entities in the parish as well as municipalities' parishwide. An introduction video to the SMS4 permitting program in Calcasieu Parish with contact information for presentation request has been added to the Stormwater page on. <https://www.calcasieuparish.gov/services/planning-development/stormwater/stormwater-management>

2020 Goals Calcasieu Parish will continue to train its employees on an annual basis. Calcasieu Parish will continue to report annually on the amount of litter collected.

Certification:

I certify under penalty of law that this document and all attachments were prepared in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name: Bryan C. Beam

Title: Calcasieu Parish Administrator

Signature: 

Date: March 11, 2020