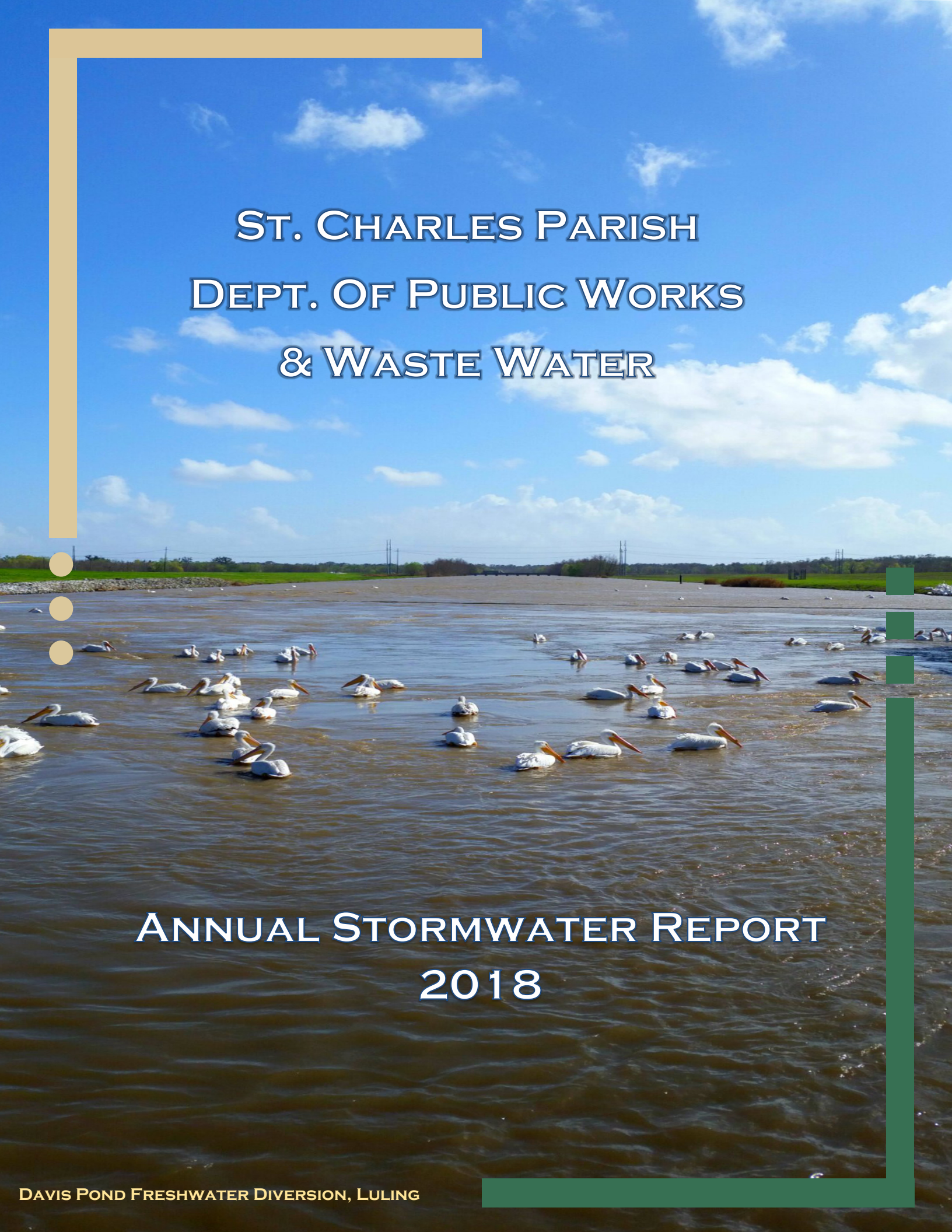
St. Charles Parish
Dept. Of Public Works
& Waste Water



Annual Stormwater Report
2018

Davis Pond Freshwater Diversion, Luling

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Section 1: Introduction

Storm water discharges in St. Charles Parish are regulated by the Louisiana Pollutant Discharge Elimination System (LPDES) General Permit LAR041032 (AI# 115009) for discharge from Regulated Small Municipal Separate Storm Sewer Systems (MS4s). The permit was reissued to the Parish by the Louisiana Department of Environmental Quality (LDEQ) on December 5, 2007, which expired on December 14, 2012. St. Charles Parish received its new permit effective March 1, 2013.

Storm water discharges from municipal separate storm water systems are regulated at both the federal and state levels. In 1990, the US Environmental Protection Agency (USEPA) established Phase I of the MS4 Program for cities with a population greater than 100,000 with separate storm sewers that convey storm water. In 2000, Phase II of the program expanded coverage to smaller municipalities, including St. Charles Parish.

In July 2003, LDEQ informed St. Charles Parish of the MS4 storm water compliance requirements. St. Charles Parish responded in September 2003 and filed its Notice of Intent (NOI) to discharge in order to comply with the requirements of the permit. On March 1, 2013, LDEQ reissued St. Charles Parish's LPDES General Permit. The new permit required the Parish to submit its storm water management plan (SWMP) and new NOI to LDEQ.

This MS4 annual report serves as a progress report of the Parish's MS4 Program. The SWMP will continue to be a living document and enhanced in the coming years, with the goal of improving the quality of storm water discharged to the surrounding water bodies. Every year, St. Charles Parish will use the document to review its status of compliance, assess the appropriateness of identified best management practices (BMPs) and consider changes and amendments to the procedures that will promote improved storm water quality within the Parish.

St. Charles Parish is currently authorized for discharge under 2013 LAR040000.

Section 2: Results of Information Collected & Analyzed

As required by the State of Louisiana and USEPA, St. Charles Parish performs yearly evaluations of the status of storm water management activities within the Parish. Following this analysis, St. Charles Parish has determined that the MS4 program continues to improve the quality of storm water discharges to surrounding water bodies. In 2017 St. Charles Parish continued to implement measures in the storm water management program, implementing several of the goals planned while re-evaluating the focus of the program. The six minimum control methods (Section 3) outlines the methods used by the Department of Public Works to ensure that the Parish remains in MS4 discharge permit compliance.

The following are advancements in St. Charles Parish's Storm Water Management Program:

- St. Charles Parish continues efforts to track Best Management Practices (BMPs) that the Parish has undertaken in the past several years, including the following: Household Hazardous Materials Collection Day, Trash Bash, addressing dumping concerns, culvert cleaning, tracking sewer complaints, and logging sanitary sewer overflows. Since 2013, the St. Charles Parish Department of Wastewater completed the Sewer Overflow Response Plan (SORP) and continues its efforts to minimize environmental impact of sanitary sewer overflows. There were 71 tracked overflows in 2017.

- Household Hazardous Materials Collection Day has been held annually in St. Charles Parish since 1998. It provides area households an opportunity to properly dispose of or recycle materials that are inappropriate for curbside pickup. Materials such as solvents, pesticides, herbicides, used oil, and corrosives require special handling to minimize safety and environmental impact. This past year's Household Hazardous Materials Collection Day was held on Saturday, April 29. 2017 and collected 136, 511 pounds of hazardous materials; 86% of the collected material was recovered or recycled. The next scheduled Hazmat Day is April 7, 2017. Further details can be found on www.hhmcd.com.

- Occurring in March, St. Charles Parish organizes Trash Bash. Volunteers from the community consisting of students, representatives from local industry, and volunteers pick up roadside debris and inform the community that roadside pollution directly contributes to the contamination of local receiving waters. In 2017, the Spring Trash Bash was held on March 25. 203 bags were collected by 315 volunteers. Additionally, the MS4 Coordinator continues to be a Trash Bash Committee member in order to provide input on how the event can provide the greatest impact towards St. Charles Parish's goal of improved storm water quality.

- The Parish, prompted by information from the LDEQ and United States Environmental Protection Agency (USEPA), initially decided to enact a draft ordinance from USEPA for Parish use. After further analysis and comparison to IDDE ordinances in place in surrounding parishes, it was determined that the draft ordinance was insufficient for St. Charles Parish purposes. After consultation and legal review by Parish attorneys, the Chapter 25 Ordinance was enacted to provide a more comprehensive approach to storm water management. The new ordinance includes sections for addressing Illicit Discharge Detection & Elimination (IDDE), construction

site storm water controls, and post-construction storm water management. No changes were required to the ordinance in 2017.

- Both the MS4 Coordinator and the MS4 General Inspector have undergone chemical spill response training by Sigma Consulting and Training. This training was given as a 2017 substitution to the now-delayed purchase of the spill vacuum system.

- After developing the Parish's SWMP and Chapter 25 Ordinance, the Parish completed reviews of the planning/permitting procedures with the St. Charles Parish Department of Planning & Zoning to ensure water quality considerations were implemented in the permitting process. The MS4 Coordinator is present during the construction permitting process to ensure new construction sites are compliant with LAR100000 and LAR200000 discharge permits. As part of the implementation of the MS4 compliance program, The Parish has integrated Storm Water Pollution Prevention Plan (SWPPP) review, drainage analysis, Erosion and Sedimentation Control (ESC) Agreements, and Storm Water maintenance permitting into the building permit process at Parish Planning & Zoning. The Parish completed and approved 6 of 6 submitted Stormwater Pollution Prevention Plans in 2017, and the Parish continues to require MS4 certification before building permits and/or occupancy certificates are issued.

- As part of the annual review of MS4 BMPs, the Parish elected to formalize spill prevention, control, and countermeasures (SPCC) plans for municipally-controlled pump stations and maintenance yards to achieve compliance with 40 CFR part 112. In 2013, the Parish developed an inventory of aboveground fuel storage and this inventory is continually maintained and amended as more storage comes online, is decommissioned, upgraded, or replaced. As implemented in 2014, the Department of Public Works continues to collect information on the fuel storage of other departments in order to construct a plan to assist the departments as required. Purchase of the spill control vacuum system originally planned for 2017 has been delayed at the Director level. No estimated date for purchase has been given at the time of this publication.

Section 3: Status of Compliance with Permit Conditions, Minimum Controls, & BMPs

The MS4 Phase II Rule defines a Stormwater Management Program for a small MS4 as a program composed of six elements that, when implemented together, are expected to reduce pollutants discharged into receiving water bodies to the maximum extent practical.

The following are the six program elements or minimum control measures:

1. Public Education & Outreach on Stormwater Impacts
2. Public Involvement/Participation
3. Illicit Discharge Detection & Elimination
4. Construction Site Runoff Control
5. Post-Construction Stormwater Management in New Development & Redevelopment

6. Pollution Prevention/Good Housekeeping for Municipal Operations

Based on the NOI sent to LDEQ, the Parish has committed to measureable goals to address each of the six minimum controls through selected BMPs. The forms in Appendix A of this document are an example of the BMPs designed to address one or more measureable goals and commitments made to LDEQ.

Section 3.1: Public Outreach & Involvement

3.1.1 Educational Pamphlets

Initiated in 2011, the Parish began distribution of construction site runoff pamphlets at all preconstruction meetings at the Department of Planning & Zoning. In 2014, this was expanded to include the "Erosion and Sedimentation Control Guidelines for Contractors, Architects, and Property Developers" document that was created to define Parish expectations for stormwater compliance. This document is given out to all parties seeking permits for constructions disturbing more than one acre of soil during the construction process. In 2016, all construction site operators began orientation regarding their responsibilities of providing Best Management Practices for sediment control, regardless of disturbed soil area as part of the parish Planning & Zoning permitting process. This activity continues through 2018 and beyond.

The Parish has continued the distribution of the auto maintenance pamphlet that began distribution in 2015, and has made instructional materials available on the official St. Charles Parish website. Last year, this program was expanded to include distribution of a revised and redesigned pamphlet at four auto parts retailers providing used oil collection services located within St. Charles Parish. In addition, this distribution was expanded in 2016 to include the St. Charles Parish Public Libraries, the West Bank Community Center, and the Public Information Office of the Courthouse. These pamphlets are replenished as needed and continue to be made available to the public.

3.1.2: Facilitating Public Comment/Complaint Procedures

The Parish "Stormwater Information" page (http://www.stcharlesparish-la.gov/departments/public-works-and-wastewater/-folder-92) includes links for reporting of drainage and garbage concerns. These complaints are then archived for tracking purposes and forwarded to the appropriate department. Complaints/Comments are made by the public via the website, telephone, email, and in person to Parish employees. The website was redesigned in 2015 to achieve a more straightforward design with the goal of making stormwater information more easily accessible. St. Charles Parish Public Information maintains a Facebook account (http://facebook.com/stcharlesgov) that is often used by the public for reporting issues including MS4/Environmental concerns. These concerns are routed to the Public Works Department via the Parish Public Information Officer.

Additionally, located on the Stormwater Information section of the Parish's official website are links providing information regarding LPDES permitting, the Parish's MS4 Annual Reports, Stormwater runoff specifications, the full Chapter 25 ordinance, SPCC FAQs, the Parish SWMP, NOI, Stormwater pollution prevention guidance, and a link to the USEPA/Weather Channel documentary "After the Storm." The MS4 Coordinator remains "on-call" 24 hours a day to handle serious environmental complaints & concerns.

For 2017, an "Environmental Concerns" reporting button was added to the main page of the St. Charles Parish website. Tracking has begun regarding reports generated via this method; 29 complaints were submitted to Public Works via this reporting utility.

3.1.3: Public Service Announcements on Local Television

In March 2012, as part of the public outreach campaign, the Parish began airing the USEPA/Weather Channel documentary "After the Storm," on SCP TV, or cable TV channel 6. This document airs on the 1st of every month at 9:30a and this schedule will continue into 2017 and beyond. "After the Storm" and instructional videos on Stormwater Pollution Prevention Plans are currently available for viewing via streaming video on the Stormwater Information section of the Parish website. New for 2017, a TV segment about the Parish's MS4 program was filmed and inserted into the programming rotation on SCP TV. That video is available for viewing here: https://tinyurl.com/ybtnvapm

3.2: Public Involvement & Participation

3.2.1 Storm Drain Marker Program

Identifying a need for public education, the St. Charles Parish Department of Public Works began installing storm drain catch basin markers in January 2012 in order to educate the public that storm drains discharge directly to receiving water bodies. 75 drain markers were replaced in 2017; this figure includes new installations and replacement due to theft/accidental detachment. The storm drain marker program has entered its maintenance phase and new markers will be placed as the Parish drainage system is expanded. The storm drain marker program remains in place for 2018 and will be expanded to include the two new major subdivisions planned for completion this year.

3.2.2 Household Hazardous Material Collection Day & Trash Bash

Parish employees, industry professionals, schools, and the general public have worked together towards the goal of improving stormwater quality through teamwork. Trash Bash was formerly held twice a year in the spring and fall to reduce debris/refuse in the Parish MS4 system. In 2017, the Fall event was canceled in order to focus on the much more popular spring Trash Bash events. The Household Hazardous Material Collection day is an ongoing venture between St. Charles, St. John, & St. James Parishes, and the Louisiana Departments of Environmental Quality and Agriculture & Forestry. On this day collection locations are staffed in order to collect household hazardous material that cannot be disposed of during normal curbside trash collection.

In 2017, the MS4 Coordinator for the St. Charles Parish Department of Public Works was placed on the Trash Bash committee. This participation will continue in 2018.

3.3: Illicit Discharge Detection & Elimination

In 2014, the Parish passed the Chapter 25 ordinance, which included in-depth provisions for IDDE, as well as construction site runoff regulation and post-construction stormwater inspection procedures. 18 Public Works maintenance vehicles contain spill kits; expansion to 25 units had been planned for 2015. As an alternative to this goal, the Parish has elected to centralize spill containment & control equipment at several locations within the Parish. Parish employees have been given a standing order to report all

environmental concerns to the Department of Public Works – MS4 Coordinator. For 2016, our IDDE program was expanded by establishment of a dedicated spill control vehicle, Unit #152. In 2017, St. Charles Parish planned to further expand our spill control equipment with the purchase of a dedicated spill cleanup & weir skimmer system. This purchase was delayed at the Director level and reserved for future acquisition.

3.3.1: Watershed Inspection Program

Drainage System Maintenance Procedures and Watershed Inspection List can be found in Appendix B of the SWMP. Evaluations of the drainage ponds/canals are documented on the Watershed Inspection work order and at a minimum attempt to identify the following information:

- Verify continued access to drainage conveyances & facilities via easements and berms;
- Detention ponds that require maintenance, grassing, outlet control structure repair, and evaluation of erosion control efficacy;
- Accumulation of dirt, debris, or other notable damage at the discharge of outfall structures;
- Stormwater collection and transfer structures that are not properly maintained and the actions required to restore proper function to the stormwater structure.

The following are the drainage conveyance inspection activities currently performed:

- Periodic inspection to remove sediment and vegetation from inlet, pond, and forebay;
- Occasional inspection for sediment removal;
- Visual screening for contaminants/pollutants on water surface. (e.g. oil sheen)

The following are the stormwater inspection activities for separator units and pump station bar screens:

- Inspect separator unit/bar screens for integrity
- Inspect for and remove sediment, oil/grease, and debris using catch basin cleaning equipment. Manual removal is used if required.

Expansion of the Watershed Inspection program began in 2015 and will continue with the expansion of the MS4 section of the Department of Public Works. Pump stations and station equipment is inspected on a frequent basis by pump maintenance personnel, electricians, and the MS4 General Inspector.

3.3.2: Illegal Dumping Ordinance

Illicit dumping is prohibited by the St. Charles Parish Code of Ordinances Chapter 10. St. Charles Parish tracks reported dumping issues through the website and uses security cameras when available at hotspots to monitor activity. Approximately 18 work orders were completed regarding trash cleanup in 2017.

The Parish tracks work orders associated with trash/debris pickup, including but not limited to; tire cleanup, ditch clearing/cleaning, culverts blown, and installing or replacing “No Dumping” signs. Regular inspections of culverts, canals, pump stations, and other drainage structures can be reviewed using the Department of Public Works’ monthly and annual reports. Details are found in Appendix A in the Best Management Practices tracking charts.

3.3.3 Sewer Ordinance Enforcement

Sewer system regulations are located in the St. Charles Parish Code of Ordinances, chapter 22. Sanitary Sewer Overflows are tracked and handled according to the Sewer Overflow Response Plan (SORP), written in 2013. The SORP is fully implemented and issues are tracked to expedite cleanup and necessary repairs by the necessary personnel. 71 sewer overflows were tracked, vacuumed, deodorized, and returned to the sewer system in 2017.

3.3.4 Master Drainage Plan

The Parish has written and maintained a Master Drainage Plan as part of the IDDE minimum control measures and in 2013 ongoing drainage capital improvement projects were incorporated into the parish MDP.

St. Charles Parish maintains an updated GIS inventory of storm water control and conveyance structures including; pipes, catch basins, pump stations, manholes, jack & bores, canals, and ditches located across the Parish. Inspection and maintenance teams locate individual structures, record inspection results, prioritize maintenance needs, and issue maintenance work orders. Drainage System Inventory is continuously updated and incorporated into the Parish's Master Drainage Plan.

Parish agencies work together to maintain an updated inventory of storm water control structures and conveyances within St. Charles Parish. Inventory monitoring will provide Public Works personnel the ability to observe signs of increased drainage loads to pump stations in order to signal the need for enhanced controls due to an increase in the impervious areas of new developments.

St. Charles parish continues to refine the data needed to maintain an updated outfall inventory. Maps displaying the outfall locations are maintained by Parish Geographic Information System (GIS) and MS4 personnel. These maps are updated as repairs and improvements are made; the outfall map became operationally complete in late 2016. The MS4 outfall map is a shareable Google Earth file containing information for each pumping station such as; station name & address, station ID, tank type, genset presence, capacity, and fuel type. The MS4 outfall map is updated on a continual basis as the information changes.

3.4 Construction Site Stormwater Runoff Control

3.4.1 Construction Site Runoff Control Ordinance

St. Charles Parish passed the Chapter 25 ordinance on January 21, 2014, effective March 1st of the same year. The ordinance was drafted after consultation with parish officials, attorneys, environmental engineers, and parish officials from larger municipalities with fully-implemented MS4 programs. The ordinance included provisions for addressing IDDE, construction site stormwater control, and post-construction stormwater management. A guideline document has been produced by the Department of Public Works and is given to property owners, architects, and contractors during the building permit process.

3.4.2 Construction Site Inspection and Enforcement Procedures

In late 2014, Department of Public Works personnel met with the Department of Planning and Zoning to integrate MS4 compliance procedures into the building permit process. This process included runoff control specification checklists, SWPPP review, and custom site inspection checklists. As part of the permitting process, documents submitted are subject to approval by the MS4 Coordinator and certification must be attained before construction is allowed to begin. The Parish has identified the need for construction site stormwater training for its construction inspectors and answered this need by sending both full-time MS4 employees to be certified as Stormwater Inspectors by the National Stormwater Center.

The Department of Public Works worked extensively with the Planning and Zoning Department in the development of the Chapter 25 ordinance and the stormwater management plan (SWMP). The ordinance allows for plan review processes to ensure water quality considerations and contractor compliance with permits LAR100000 and LAR200000. The Parish now conducts SWPPP review, drainage impact analysis, Erosion & Sediment Control (ESC) Agreements, and Stormwater Maintenance into these review processes. The MS4 Coordinator, along with the MS4 General Inspector, performs weekly "compliance patrols" to ensure that Best Management Practices outlined in the Chapter 25 ordinance are followed by residential, commercial, and industrial site operators.

St. Charles parish continues to improve its MS4 inspection procedures. Following a pilot program in the 2nd half of 2016, once/weekly "patrols" are performed by the MS4 Coordinator and MS4 General Inspector. Due to the success of this program in quickly identifying violations, this activity will continue in 2018. During these patrols, informal inspections are made at construction sites within the parish, regardless of size or intended final usage. During these inspections, Parish MS4 employees ensure that at a minimum, silt fencing, concrete washout areas, and temporary construction entrances are utilized in full compliance with the Parish's storm water ordinance.

3.5 Post-Construction Stormwater Management

St. Charles Parish drafted a comprehensive stormwater ordinance that included provisions for post-construction runoff control. These practices were incorporated into the Chapter 25 ordinance and the updated Stormwater Management Plan (SWMP) as part of the MS4 permit renewal process. The Department of Public Works & Planning & Zoning collaborated in order to incorporate the new water quality guidelines during the planning/permitting process. These new directives included SWPPP reviews, drainage impact analysis, Erosion and Sedimentation Control (ESC) Agreements, and Structural Stormwater permitting. The Chapter 25 ordinance, which contains provisions for post-construction stormwater management, was signed on January 21, 2014 and officially in place on March of 2014. To enforce the new ordinance, the MS4 Coordinator was hired to oversee the implementation & enforcement, and an MS4 General Inspector hired in July 2015 performs monthly fuel tank inspections of all St. Charles Parish Public Works facilities. Both MS4 employees are certified as Stormwater Inspectors by the National Stormwater Center, and both MS4 employees were OSHA hazmat operations Level II certified in 2017 by Sigma Consulting and Training.

3.6 Pollution Prevention and Good Housekeeping for Municipal Operations

3.6.1 Spill Response and Prevention Plan

The Parish elected to formalize spill plans for municipally controlled pump station and maintenance yards in 2012 and has issued a task order to an environmental consultant to develop SPCC plans for the facilities. These plans were completed in 2014. Additionally, the Department of Public Works has issued a technical memorandum to the other Parish departments outlining the criteria determining the need for a formal SPCC plan. In 2013, the Department of Public Works collected information on the fuel storage of other departments, and put together a plan to assist the departments. To date, information has been received from the Wastewater Department, Water Works, Hospital, Courthouse, Community Center, both Community Centers, Emergency Operations, & Sheriff's Department. SPCC plans for the Wastewater, Water Works Departments, Emergency Operations, and the Courthouse are completed and implemented.

As part of the SPCC (Spill Prevention Controls and Countermeasure) and SWMP (Storm Water Management Plan) development effort in 2013, St. Charles Parish now maintains an SPCC inventory of Municipal facilities that have the potential to cause pollution. Appendix C of the SWMP lists all municipal facilities inventoried for SPCC to date, including 2 fleet maintenance and fueling facilities, East Bank Water Works, West Bank Water Works, East Bank and West Bank Wastewater Department, Courthouse, Emergency Operations, and 45 drainage pump stations. The facility inventory may be further updated as future facilities become operational, are decommissioned, or upgraded. Two new pumping stations, Willow Ridge and Mimosa planned for 2017 are nearing completion and control of these pumping stations will be transferred to the Parish in 2018.

Currently there are 18 spill response kits located on various SCP Public Works vehicles within the Parish; this number was previously planned to expand to 25 units in 2015, but after further review with department heads it was decided that the Parish would centralize bulk stores of spill cleanup/control equipment in several geographically spaced locations. A current inventory of vehicles/locations equipped with spill response equipment is available at the Director's Office, St. Charles Parish Department of Public Works/Waste Water. Parish truck #152 was converted into a dedicated "spill unit" for 2016. Unit 152 stores supplies such as oil absorbent, spill booms, and spill pads to allow a rapid response to any spill events that may arise.3

In a further spill reduction effort, the Parish currently recycles used oil and will continue to develop and refine standard operation procedures for handling used oil and other maintenance-related fluids (antifreeze, etc.) at the various maintenance locations, as well as procedures for handling other hazardous materials. The procedures will describe measures to prevent or reduce the discharge of pollutants to drainage systems or waterways from leaks and spills by reducing the chance for spills, stopping the source of spills, containing and cleaning up spills, and properly disposing of spill materials. It will include training for employees on spill prevention and cleanup, and ready access to spill cleanup materials. Training in spill response procedures for all applicable parish employees began early 2015. 2016's goal involved attaining at least an 80% completion of the spill response training for Public Works, Wastewater, and Waterworks field personnel. 90% of Public Works field personnel, 76% of Wastewater, and 75% of Waterworks attended in 2017. This goal to continue in 2018.

The Parish will continue to develop procedures per the current used oil collection process and will identify potential expansion of the program to make collection and recycling of used oil easier for the community. In 2012, the Parish distributed an auto-maintenance pamphlet throughout the Parish, and added the pamphlet to the website in 2013. Expanding of the distribution of this pamphlet to parish auto parts retailers acting as an oil collection point began in 2015. Distribution of a residential car washing procedure pamphlet was planned for 2016, but that goal was revised in favor of the parish-wide distribution of 22,000 "Don't Dump That Oil Down the Drain" pamphlet via water utility bills. Due to unavoidable circumstances outside of the control of the St. Charles Parish Department of Public Works, distribution of these was canceled. As a substitution, the brochures were distributed via the Parish's 5 public libraries, both East Bank and West Bank Community Centers, and the Courthouse. This activity to continue in 2018.

Section 4: Assessment of Appropriateness of Identified BMPs

Table 1 on the next page identifies the BMPs that St. Charles Parish is currently using. The table provides a summary by BMP, and identifies updates to any BMPs to ensure consistency with current Parish capital expenditures.

Table 1

BMP Assessment					
Minimum Control	BMP Unique Identifier	Description	Degree of Suitability	Proposed Change	Comments
Public Education and Outreach	1A	Pamphlets	Good	Enhancement	Pamphlets and education materials will be an overarching minimum control to help the community understand the importance of stormwater management, and will strategically target specific audiences to facilitate many of the BMPs listed below. Each year the Parish will explore new target audiences. To substitute for the 2016 distribution goal, distribution of the Parish-created oil disposal pamphlet was expanded to include the 5 public libraries, the two Community Centers, and the Courthouse. This distribution will continue in 2018.
	1B	Website	Good	Enhancement	In 2011, the Parish added a stormwater link from the homepage which includes instructional videos, links for reporting drainage and dumping concerns. Enhancements in 2014 included; information on stormwater ordinances and management practices, and information on construction site runoff management, and pamphlets. As new material is developed, it will be added to the Parish "Stormwater Information" page. For 2016, an Environmental Concerns reporting function was added to the front page of the St. Charles Parish website, located at www.stcharlesparish-la.gov. 29 complaints were reported in 2017 using this utility. This Environmental Reporting function and related tracking will continue in 2018.
	1C	Utilize Parish use of Ch. 6	Good	Enhancement	The Parish uses Ch. 6 for public service announcements and as the parish wide notification system. The Parish began airing the EPA and Weather Channel watershed documentary "After the Storm" in March 2012 and will continue the first of every month at 9:30 am. Informational stormwater-related slides are periodically released for public viewing on a rotational basis. These videos will remain in the Ch. 6 programming in 2018, along with a new instructional segment filmed in 2017 that outlines the goals and issues faced by St. Charles Parish's MS4 program. That segment is available here: https://tinyurl.com/ybtnvapm
Public Involvement /Participation	2A	Storm Drain Markers	Good	Continue Development	The Drain Marker Program has entered in the maintenance phase of the program, with expansion as further drains are installed within the Parish. Two major subdivisions are in construction and are scheduled for completion in 2018.
	2B	Hazardous Waste Day and Trash Bash Day	Superior	None	This BMP changed in 2011. Household Hazardous Materials Collection Day had been held annually in St. Charles Parish since 1992 and its purpose to provide area households an opportunity to properly dispose or recycle materials that are inappropriate for curbside pickup. The Parish will propose to use this event along with Trash Bash Day in lieu of Stream Clean-up activity for Public Involvement.
Illicit Discharge detection and Elimination	3A	IDDE Ordinance	Superior	None	In 2011, the Parish developed a draft IDDE ordinance to specifically address illicit discharges to the storm drain system. This ordinance was reviewed in 2012 through parish legal, and a more comprehensive draft stormwater ordinance developed. IDDE part of Chapter 25 passed January 2014, and implementation began on March 1, 2014.
	3B	Dumping Ordinance	Superior	None	In 2011, the Parish began tracking work orders associated with picking up trash/debris, old tires, cleaning ditches and culverts of trash and installing/replacing "No Dumping" signage. This activity to continue.
	3C	Sewer Ordinance	Good	Monitoring	The Parish tracks all sewer complaints and SSOs. Parish to formalize document controls associated with the Sewer Overflow Response Plan (SORP). 71 overflow incidents occurred in 2017.
	3D	Master Drainage Plan	Superior	Continue Development	The Master Drainage Plan will continue capital improvement projects. Begin to identify potential sources of pollution and prioritize watershed inspections for IDDE based on the inventory of structural stormwater controls. Inspections for all SCP stations began in 2015, and the first round of annual inspections were completed February 2017. The third annual fuel tank inspections will take place in March-April of 2018
Construction Site Runoff Control	4A	Construction Site Runoff Ordinance	Good	Continue Development	In January 2014, the Parish passed the Chapter 25 ordinance addressing construction site stormwater control. The Parish developed tools for managing construction site runoff including; Construction Site Runoff Control Specification Section, Site Inspection checklists, and SWPPP documentation checklists. For 2018, the weekly "compliance patrols" will continue. During these patrols, identified construction sites are visited weekly in order to ensure compliance with the Ordinance.
	4B	Construction Site Inspection and Enforcement Procedures	Good	Continue Development	Construction Site inspection forms were created in 2014, along with an MS4 enforcement policy. St. Charles parish continues to maintain a 100% certification rate as Stormwater Inspectors for MS4 personnel.
Post-Construction Runoff Control	5A	Landscape and Stormwater Management Ordinance	Good	Continue Development	In January 2014, Parish Passed ordinance Chapter 25 addressing post-construction runoff control. The Parish will continue to refine its processes through implementation of Chapter 25.

	5A	Watershed Inspections	Good	Enhancement	Watershed inspections are an ongoing Parish Maintenance activity. The SCP PW/WW Outfall Map was considered functionally completed in late 2016, and pumping stations/outfalls will be added as St. Charles Parish expands.
Pollution Prevention/Good Housekeeping	6A	Spill Response and Prevention Plan	Good	Enhancement	Currently 16 maintenance units are equipped with spill kits. In 2017, 92% of Public Works field Personnel and 76% of Waste Water field personnel were spill response-trained. The spill unit planned for 2017 purchase has been delayed with no estimated date of acquisition given.
	6B	Culvert Cleaning Program	Superior	Superior	Continue Culvert Cleaning Operations

Assessment Key follows on next page.

Assessment Key	
Inappropriate	*Parish will change BMP*
Minimal	*Parish will consider change*
Good	*Parish will perform a yearly review of measurable goals associated with this BMP*
Superior	*SOPs, documentation, and monitoring are in place for updating annual report*

Section 5: Progress of Measurable Goals

St. Charles Parish is progressing towards its goals of cleaner water for its residents and implementation of efforts to maintain in compliance with its stormwater discharge permit. As more and more local construction site operators are becoming more familiarized with the new restrictions within the Parish, compliance actions on those sites have been increasing. St. Charles Parish continues to refine the SPCC to allow for more rapid response and cleanup of spill incidents; the SPCC inventory is continually amended to provide the most accurate inventory of Parish-controlled petroleum stores & cleanup equipment. The following list describes progress with respect to measurable goals reported for the 2016 annual report:

- No changes or amendments to the Chapter 25 Ordinance were required in 2016. Potential changes were discussed with consultants present during the creation of the ordinance, and it was determined that the Ordinance remains effective for the purposes of MS4 compliance.

- 100% of full-time MS4 personnel continue to be certified as Stormwater Inspectors. Additionally, the MS4 personnel were certified as OSHA Level II HazMat Operators by Sigma Consulting & Training in 2017.

- The Parish Web site was updated to provide a link for the public to report drainage, sewer and dumping concerns, which are tracked as they apply to each of the minimum controls. The results of tracking are presented monthly by the Department of Public Works to the Parish President. Stormwater/Environmental concerns from the public are also reported on the Parish-run facebook page located at https://www.facebook.com/stcharlesgov/ and the official St. Charles Parish twitter account, @stcharlesgov. 29 complaints were made in 2017 via this new reporting utility.

- The Parish Stormwater Information web page was remodeled in 2015. Prominently displayed along the right side of the Stormwater Information and Public Works pages are links for reporting drainage or dumping concerns, videos, FAQs, annual MS4 reports, pamphlets, construction specification section, Best Management Practices, the Parish's SWPPP, Chapter 25 MS4 Ordinance, and the Parish's Notice of Intent. For 2017, an easily-located "Report an Environmental Concern" button was added to the banner menu of the Parish's main page. This report allows residents to submit questions/concerns directly to the MS4 Coordinator's email for rapid response, and incident tracking occurs via these generated reports. This tracking will continue in 2018.

- With the development of the SWMP in 2013, St. Charles Parish now maintains an updated, searchable inventory of stormwater control and conveyance structures, including pipes, catch basins, pump stations, manholes, jack & bores, canals, and ditches, etc. located across St. Charles Parish. Inspection and maintenance teams locate individual structures, record inspection results, prioritize maintenance needs, and issue maintenance work orders. Drainage System Maintenance Procedures and Watershed Inspection List can be found in Appendix B of the SWMP. This inventory is continuously updated and incorporated on an ongoing basis into the Parish's Master Drainage Plan. St. Charles Parish will continue to refine the outfall inventory

during ongoing inspections and develop revised inventories as part of the Annual Report Cycle. Maps detailing the structural inventory are maintained by the Parish GIS Department and updated as necessary. Outfall Mapping for Parish-owned/operated stormwater pumping stations was considered functionally complete in late 2016 and will undergo further additions/revisions in 2018 and beyond as new drainage systems come online within St. Charles Parish. The St. Charles Parish MS4 Map consists of a shareable .kmz Google Earth file with annotated pins containing information such as: pump station name & unique identifier for each fuel tank, address, capacities, tank containment status, and tank application.

- In 2011, the Parish developed an erosion and sediment control brochure/pamphlet, and distributed it to all construction permit applicants at preconstruction meetings. The pamphlets were distributed throughout 2012, and will continue in an increased capacity. Also, in 2011, the Parish modified an existing auto-maintenance pamphlet, and distributed it throughout the Parish during 2012. In 2013, these pamphlets were added to the parish website. In 2015, an oil change pamphlet was distributed to participating auto parts stores that act as used oil collection points. The planned subject for the 2016 pamphlets will be BMPs for residential car washing, but after discussion with parish officials the Parish elected to distribute the oil pamphlet on a broader basis. Originally, 22,000 pamphlets were printed in preparation for distribution in resident's water bills, but due to unforeseen circumstances outside of the control of Public Works, it was necessary that this goal be postponed until further notice. In substitution, the pamphlets were distributed to the Parish's 5 public libraries, the West Bank community center, and the Public Information office in the Courthouse. Distribution at these locations will continue in 2018. For 2017, a 15 minute MS4 instructional segment was filmed and scheduled for rotation into SCP TV, Parish Channel 6. That segment is available for viewing here: https://tinyurl.com/ybtnvapm

- After attaining an inventory assessment from the two Community Centers, Animal Control, and Emergency Operations, it was determined that only the EOC will require a Spill Prevention Control & Containment (SPCC) plan, which was completed and implemented in 2016. The Annual Spill Training program has begun, with field personnel from all departments attending. As proof of attendance, sign-in logs for these classes will be kept for a minimum of 3 years. The declared goal for 2016's reporting cycle was 80% of Parish field personnel in Public Works, Wastewater, and Waterworks trained in spill control. 92% of Public Works field personnel, 76% of Wastewater field personnel, and 74% of Waterworks field personnel were trained in 2017.

  St. Charles Parish DPW plans to continue collecting information on the fuel storage of other Parish departments. Appendix C of the SWMP lists all municipal facilities inventoried for SPCC to date, including 2 fleet maintenance and fueling facilities, East Bank Waterworks, West Bank Waterworks, East Bank and West Bank Wastewater Department, Courthouse, Community Center, and 116 drainage pump stations. The facility inventory may be further updated as future facilities become operational, decommissioned, or upgraded. For 2016, Public Works Unit #152 was designated as an official "spill control" vehicle. It contains spill cleanup equipment stored in a centralized location available for immediate response. Planned activities for 2017 included the purchase of a dedicated spill cleanup vacuum system; however, this purchase was delayed

unexpectedly and not estimated date of acquisition was given. As a substitute to this goal, the MS4 Coordinator and MS4 General Inspector were trained in Hazardous Materials/OSHA Level II handling in 2017 by Sigma Consulting & Training.

- In 2015, the storm drain marker program entered its maintenance phase. The Parish has installed 225 storm drain markers in 2016, and will continue placing new markers as the Parish drainage system is expanded. Two major subdivisions are nearing completion for 2018 and the relevant storm drains will be marked as part of the storm drain marker program along with any others that have been detached due to theft/vandalism/damage. This program will continue in 2018.

- Over 136,511 pounds of hazardous materials were collected at the 2017 annual Household Hazardous Materials Collection Day on April 19, 2017. Approximately 86% was recycled and/or recovered. Of the total weight of all materials collected, 9,012 lbs consisted of oil & antifreeze, twice as much as last year's totals. The 2018 Household Hazardous Materials Collection Day is scheduled to occur on April 7, 2017 from 9:00a to 1:00p with two collection sites located at the Judge Edward Dufrene Community Center and the Plaza LaPlace Shopping Center on Airline Hwy in LaPlace, LA.

- The spring 2017 Trash Bash event was held on April 22, 2017. A total of 315 volunteers from community groups and industry filled 203 bags with roadside litter. The event was sponsored and staffed by volunteers from the St. Charles Parish Parks and Recreation Department, the United Way of St. Charles, Matrix Service, Valero, Pelican Waste, DNG Electric, Raising Canes, River Parish Electric, the Capital Area Corporate Recycling Council, Entergy Louisiana and the Harry Hurst Wetland Watchers.

- The Parish will continue to use Channel 6 for public service announcements on stormwater and what the public can do to prevent stormwater impacts. The Parish began airing the USEPA and Weather Channel watershed documentary "After the Storm" on March 1, 2012, and will continue airing it at 9:30 on the 1st of every month. Informational slides related to stormwater sediment/pollution control run periodically on a rotation with other public information material. This rotation to continue in 2018.

- Currently 18 Public Works/Drainage service vehicles are equipped with OIL-DRI spill kits, and bulk spill cleanup supplies have been made available at 4 centralized locations within the Parish in addition to the 18 Public Works/Drainage vehicles containing spill kits. For 2016, Public Works Unit #152 was converted into a "spill response unit." This truck contains bulk supplies that would be required for an effective spill response of petroleum contaminants in aquatic or terrestrial sites and is dispatched to assist in incident containment & cleanup. Both MS4 employees were trained by Sigma Consulting & Training in OSHA Level II Hazmat Operations in 2017.

Section 6: Changes in identified BMPs or Measurable Goals

The specific SMPs identified in this document have served as the basis for the Parish's Stormwater Management Program and Plan since 2011. The BMPs that have been identified to address the six minimum controls will continue to be enhanced in the coming years as the program develops. The annual report is used as a self-assessment tool by the Parish when identifying potential changes in BMPs or measurable goals every year. For example, when a sufficient number of storm drains have been marked, changes will be considered for the BMP. The Household Hazardous Materials Collection Day, initiated in 1998, will continue annually, and the annual Trash Bash will be held, providing an opportunity for the community to participate in removal of the additional waste streams from potential stormwater exposure. The Parish is currently authorized for discharge under 2013 LAR0400000 after receiving notification of the new revised permit on February 20, 2013, and developed an updated Stormwater Management Program and Plan and new NOI. The effort resulted in changes to the identified BMPs and associated measurable goals based on the revised permit. The BMP revisions are reflected below for the 2017 annual reporting cycle.

Listed in the following subsections are the current measurable goals sent to LDEQ as part of the permit's NOI, and changes proposed in 2015.

6.1 Public Outreach and Involvement

St. Charles Parish updated the measurable goals for Public Outreach and Involvement in 2017 to reflect current Parish priorities.

The following are the current Parish measurable goals consistent with the NOI submission:

- Number of comments/complaints posted to the Parish website regarding drainage and dumping – *29 complaints were submitted via the Parish Environmental Concerns reporting utility in 2017. 18 dumping complaints. Tracking continues.*
- Website enhancements – *On-going*
- Social Media Outreach has been implemented via a Parish-run Facebook account. Implementation of a "Report Environmental Concerns" link that goes directly to the MS4 Coordinator. This activity and tracking of concerns to continue in 2018.
- The Parish will continue to air the EPA documentary "After the Storm" on the first of every month on Channel 6. In 2016, the educational slides presented on Channel 6 were expanded and included in the rotation. For 2017 an MS4-related instructional segment was filmed and added to the Channel 6 programming rotation and is available here: https://tinyurl.com/ybtnvapm This scheduling will continue for 2018.
- The Parish plans to release at least one stormwater related education pamphlet per year to an identified target audience. This program is ongoing and will be expanded annually. Parish officials will continue to review available pamphlets, decide which ones are useful for the local audience, and develop for use with local contact information where useful, distributing the pamphlets at locations of interest. The activities will be documented and presented in the annual report. Expansion of the auto care pamphlet to Parish auto parts retailers was implemented in 2015. In 2016 this distribution was expanded to include the Courthouse, the West Bank Community Center, and the St. Charles Parish Public Libraries. – *This distribution plan will continue in 2018.*

6.2 Public Involvement and Participation

St. Charles Parish updated the measurable goals for Public Involvement and Participation in 2013 to reflect current Parish priorities.

The following are the current Parish measurable goals consistent with the NOI submission:

- Pounds of material collected during Household Hazardous Material Collection Day: *136,511, 86% recycled.*
- Number of bags of trash collected during Trash Bash Day: *203. Total weight not available for 2017.*

The following were the Parish measurable goals in the previous reporting cycle:

- Number of storm drains marked: 75. *This includes new drains marked and replacement of stolen/detached markers.*
- Trash Bash and Household Hazardous Material Collection Day will continue to log measurable quantities of materials collected and volunteers used as a public participation control measure. *2017 Trash Bash collected 203 bags, and HHMCD collected 136,511 pounds of materials. 86% of the material from HHMCD was recovered or recycled.*

6.3 Illicit Discharge Detection and Elimination

As part of the SWMP and NOI submission and reauthorization process, the Parish changed its measurable goals for the IDDE control measure. The following is consistent with NOI submission:

- New MS4 Employees will be trained as Certified Stormwater Inspectors. 100% of current full-time MS4 employees are certified.
- Complete outfall inventory. *MS4 mapping complete and available upon request.*
- Complete inventory of industrial and commercial facilities by 2017. *On hold.*
- Number of work orders generated to address drainage and dumping concerns. *18 complaints in 2017. On-going*.
- Social Media Outreach via Parish-run Facebook account has been implemented. Environmental Concerns reporting utility implemented on main parish website. *29 complaints via this utility in 2017.*
- Number of SSOs reported, work orders executed to address overflows. *71 overflows in 2017. Tracking is ongoing.*
- MS4 Coordinator continues to be the Point of Contact for all Stormwater/Environmental concerns within St. Charles parish.

The following were the goals outlined in the previous reporting cycle:

- Continue to monitor dumping through Parish ordinances (existing). *Approximately 18 complaints in reference to garbage/dumping were made to Public Works in 2017.*
- Passage of draft stormwater ordinance to specifically address illicit discharges into the storm drainage system. In 2013, this measurable goal changed to passage of the comprehensive stormwater ordinance designed to address IDDE as well as construction site runoff control and post-construction stormwater management. *Construction site inspection protocols in effect. 6 formal site visits and 25 informal visits were performed in 2017.*
- The internal Parish reporting procedures handle and monitor sanitary sewer overflows. The Parish will continue to report sanitary sewer overflows. *71 overflows occurred in 2017.*
- Removal of single walled tanks and replacing with double walled tanks. *All traditional-type single walled tanks have been removed from St. Charles Parish Public Works' inventory. The remaining single walled tanks are either mobile or have integral containment walls and are only used on an emergency basis.*

6.4 Construction Site Stormwater Runoff Control

As part of the SWMP and NOI submission and reauthorization process, the Parish changed its measurable goals for this control measure. The following is consistent with NOI submission:

- Passage of Chapter 25, Code of Ordinances – Stormwater Management and Erosion and Sedimentation Control. *Completed and implemented.*
- One Parish inspector trained in Construction Erosion and Sedimentation Control. *100% of full-time MS4 employees are trained as Certified Stormwater Inspectors by the National Stormwater Center. St. Charles Parish maintains this goal for 2018.*
- Job sites inspected for SWPPP compliance. *8 plans inspected and approved in 2017. Sites are inspected periodically throughout the construction process to insure compliance.*

The following were the goals outlined in the previous reporting cycle:

- *All construction sites regardless of size will be informed of Stormwater Management expectations throughout the Planning & Zoning process. This is done via a guidelines pamphlet given to permit applicants at the time of application.*
- Parish inspectors and engineers will be set up to monitor compliance. The Parish formalized process with Planning and Zoning department for ordinance and SWMP implementation. *The MS4 Coordinator is present during pre-application meetings in order to educate contractors and architects on MS4 Compliance.*
- LDEQ Stormwater General Permit requirements will be added to all Parish construction permits and established by Parish law. *This was completed with the passage of Chapter 25. The Chapter 25 Stormwater Ordinance is continually reviewed and will be revised as changes to Federal and State law are implemented. No changes were necessary in 2017.*
- New specifications will be added to all future construction contracts. *On-going since 2011.*
- The contractor will be required to specify specific stormwater abatement issues.

- Additional evaluation of planning and zoning processes. St. Charles Parish plans to evaluate the existing erosion and sediment control inspection process, and develop and document standard policies and procedures that are consistent with the current LPDES General Permit for Discharges of Stormwater from Construction Activities. *The Parish completed this activity with the development of the SWMP and stormwater ordinance. MS4 Personnel inspect each construction site over 1 acre in size at least three times throughout the course of construction. For these sites, a letter of "MS4 Certification" is required from the MS4 Coordinator before construction is allowed to begin. This letter serves as proof that the site owners/operators have submitted the proper documents to attain LPDES compliance. The Parish has maintained this protocol since 2015.*
- Number of Parish construction inspectors trained for stormwater runoff control. *2. Additional inspectors will trained as they are hired, and all current MS4 employees in the Department of Public Works are storm water-certified.*

6.5 Post-construction Stormwater Management

As part of the SWMP and NOI submission and reauthorization process, the Parish changed its measurable goals for this control measure. The following is consistent with NOI submission:

- Passage of Chapter 15, Code of Ordinances – Stormwater Management and Erosion and Sedimentation Control. *Complete. The ordinance is continually reviewed and will be amended as required.*
- Number ESC agreements issued. *ESC review requirements by MS4 coordinator is in effect. 8 Erosion & Sedimentation Agreements reviewed in 2017.*
- Number of Post-Construction Stormwater Permits issued. *Post-Construction permitting is now in effect for new projects.*
- MS4 Certification required for all new construction > 1 acre. A*ll construction sites regardless of size are expected to implement minimum site measures in order to continue operation within the Parish. These minimum measures include: utilization of temporary site entrances, silt fencing protecting low-lying borders of construction sites, concrete washout structures, and dumpster/trash receptacle protection. This action was implemented in 2016. It remains a goal for 2018.*
- Two of the three pumping stations referenced in the 2015 report have come online but have not yet been transferred to Parish possession. This is expected for 2018.
- Parish MS4 Outfall mapping was made operational in 2016 and is available for immediate reference.

The following are the Parish measurable goals for the previous reporting cycle:

- The Parish is updating the master drainage plan. *On-going. Master Drainage plan will be updated as new infrastructure is installed.*
- New ordinances will include requirements for site/BMP inspection and maintenance. *Complete. All construction projects regardless of size will be expected to implement Best Management Practices designed for controlling sediment/pollution.*
- Develop ordinance to eliminate or reduce post-construction runoff. *Complete.*

- Continued enhancement of master drainage plan through capital improvement projects. *On-going. 3 new stormwater pumping stations are currently under construction, Willow Ridge, Mimosa, & Magnolia Ridge. Willow Ridge and Mimosa have become operational but have not yet been transferred to Parish control. This is expected in 2018. Magnolia Ridge remains under construction.*
- Completeness evaluation of the master drainage plan. *This resulted in the structural inventory presented in section 3.3.4. New drainage infrastructure is added to the master drainage plan as it is completed.*

6.6 Pollution Prevention and Good Housekeeping Municipal Operations

AS part of the SWMP and NOI submission and reauthorization process in 2013, the Parish changed its measurable goals for this control measure. The following is consistent with NOI submission:

- On-going program to replace all single-walled tanks under Parish operation. *Non-mobile pumping stations have had all single-walled tanks removed and replaced with double-walled fuel tanks. The only remaining single-walled tanks within Parish inventory are either mobile or have integral containment walls within the tank structure. The integral walled-tanks are only used for storm-related emergencies.*
- Complete SPCC Plans for all municipal facilities. *Complete.*
- Culvert and ditch cleaning program. *On-going.*

The following were the Parish measurable goals for the previous reporting cycle:

- The spill response and prevention plan will be updated. Public Works, Wastewater, Waterworks, and the Courthouse plans have already been completed and implemented. Begin audit of emergency services for SPCC compliance. *Emergency Operations' spill plan was completed and implemented in 2016.*
- The Parish currently recycles used oil but has no procedure; a procedure will be developed. *Procedure completed. The Parish currently uses Oil-Mop Inc. as its oil/fluids disposal contractor.*
- Maintain 100% spill training rate for Pump Mechanics and Electricians involved with Pump Station repair/maintenance – *complete.*
- Parish field personnel trained in Spill Response for 2017:
  Public Works = 92%
  WasteWater = 75%
  Waterworks = 74%

Spill prevention activities included under this BMP have been reviewed, and the following updates are being implemented for 2018

- Purchasing of a vacuum unit designated for spill cleanup. *St. Charles Parish is partnering with an industry-leading manufacturer to bring a new type of spill vacuum and self-propelled weir skimmer into the service of the Parish. This equipment will allow the Parish to mount a swift response to spill incidents with a minimum of impact to normal Parish pump station operations. This purchase is held over from 2017 by order of the Director. No estimated date of acquisition was given.*

- Expansion of spill control equipment & training. *The Parish strives for a 100% completion of field personnel attending annual spill training; the 2017 goal was 85% of field personnel trained. Currently SCP Public Works has attained a 92% training rate for field personnel, Waste Water 75%, and Water Works 74%. The 85% goal for the three departments remains for 2018.*

Section 7: Activities for the Next Reporting Cycle

Table 2 presents the BMP activities planned for 2018.

Table 2 – Anticipated 2017 Activities

BMP Unique Identifier	Description	Activity Planned
1A	Pamphlets	Continue distribution via Parish Buildings, explore new avenues of distributing "Don't Dump That Oil" pamphlet to new audiences. Connoisseur
1B	Website	Improve tracking, Public Awareness of reporting avenues.
1C	Channel 6	MS4 Council Presentation continues to air on Channel 6, accompanied by MS4 instructional slides.
2A	Catch Basin Markers	Continue installation of markers on unmarked catch basins – ongoing. Implement basin inspections as part of MS4 personnel daily activities. – Ongoing.
2B	Haz. Mat. Collection Day	Household Hazardous Material Collection Day – April 7, 2018
2C	Trash Bash Day	Roadside garbage clean-up day, March 3, 2018
3A	IDDE Inspection	Implement focus on IDDE as part of employees' Annual Spill Training - ongoing
3B	Dumping Ordinance	Continue to monitor dumping through parish ordinance – ongoing
3C	Sewer Ordinance	Continue to monitor sanitary sewers through parish ordinance. Document responses in accordance with Sewer Overflow Response Plan (SORP) – ongoing. 71 sewage overflows occurred in 2017.
3D	Master Drainage Plan	Continue Revision of Master Drainage Plan as required.
4A	Construction Ordinance	Implement BMP practice standard for all construction projects within the Parish – informational material given to all applicants during the Planning & Zoning Process. Construction projects are required to implement minimum BMPs for all Parish construction projects, regardless of size.
4B	Construction Inspection	Continue expansion of MS4 Department.

5A	Post-Construction Runoff	Begin construction site visit database for future tracking of site visits. – Postponed from 2017, sites are visited as a part of the weekly patrols program implemented late 2016.
5B	Watershed Inspections	Watershed inspections are an ongoing Parish Maintenance activity.
6A	Spill Prevention	Purchase and utilize spill vacuum system. Implement vacuum system operation training as part of Annual Spill Training. This goal held over from 2016; no estimated date of acquisition given.
6B	Culvert Management Program	Continue to record number of work orders, number of ditches/culverts cleaned, linear feet of new culverts dug, linear feet of culverts blown - ongoing

APPENDIX A: BMP ACTIVITY SUMMARY

MS4 Name: St. Charles Parish
Unique Identifying Control Number: 1A
Minimum Control Measures Addressed by this BMP

x	Public education & outreach		Construction site runoff controls
x	Public participation & involvement		Post construction stormwater management
x	Illicit discharge detection & elimination	x	Pollution prevention/Good housekeeping

BMP Title: Educational Pamphlets

BMP Description:
St. Charles Parish officials annually review available pamphlets and literature readily available online at LDNR or EPA's websites decide which ones to use and direct at a specific audience, then distribute the pamphlets at locations of interest. The Parish also works with a consultant to develop memos and educational materials directed at specific audiences.

Measurable Goals:

- Guidelines document outlining Parish/LDEQ expectations for contractors/architects distributed to managers of applicable projects distributed at Planning & Zoning Pre-Application Meetings regardless of size – *ongoing.*
- Modified Auto-maintenance pamphlet and distributed amongst Parish-located Auto Parts stores. – *ongoing.*
- Identify additional target audiences and potential material – *Continue distribution of oil pamphlets at libraries, community center, & courthouse.*

Timeline/Implementation Schedule:

- 2018 – Continue distribution of pamphlets through all available avenues.
- Explore & distribute Oil Change pamphlet at least one new avenue of distribution.

Specific Components & Notes (optional):

Responsible Person
Name: John Gutierrez, Jr.
Title: MS4 Coordinator – SCP Public Works
Phone: (985) 331-4478
E-mail: jgutierrez@stcharlesgov.net

Educational components related to this BMP (description or number – optional):
Audience: Contractors/General Public
Educational Goal: To improve auto-maintenance and car care practices
Technical memorandum outlining criteria for identifying the need for SPCC plans – Audience: Other Parish Departments

MS4 Name: St. Charles Parish

Unique Identifying Control Number: 1B

Minimum Control Measures Addressed by this BMP

x	Public education & outreach	x	Construction site runoff controls
x	Public participation & involvement	x	Post construction stormwater management
x	Illicit discharge detection & elimination		Pollution prevention/Good housekeeping

BMP Title: Public Comment/Complaint Procedures

BMP Description:

The Parish, with the assistance of an environmental consultant, had further developed the website to include Frequently Asked Questions (FAQs) links from EPA, LDEQ and the Center for Watershed Protection, as well as a video link to "After the Storm." The Parish stormwater page also has a link for reporting drainage and garbage concerns. Future development of the website will include links to the Parish stormwater ordinances and management practices. The Parish will continue tracking and responding to complaints and concerns. These complaints and concerns are received in a number of ways including through the website, and through telephone, e-mail, and verbal communication with Parish officials. Additional links, videos and enhancements included on the Trash Bash link.

Measurable Goals:

- Number of complaints/comments posted to the website. 18 garbage/dumping complaints in 2017.
- Documented actions by DPW.
- The Department of Public Works processed 11,284 work orders in 2017. (See DPW annual report to Parish President)
- Begin tracking Environmental complaints related to Stormwater routed through new "Report an Environmental Concern" button. 29 complaints in 2017.

Timeline/Implementation Schedule:

- Tracking work orders continue through 2018 and beyond. – ongoing
- Tracking of Environmental Complaints via reporting utility to continue through 2018

Specific Components & Notes (optional):

Stormwater Information Page – http://www.stcharlesparish-la.gov/departments/public-works-and-wastewater/-folder-92
Added links reporting drainage or dumping concern, a link for Haz. Mat. Collection Day and Trash Bash including videos, FAQs, annual report, pamphlets, construction specification section, and videos "After the Storm" and SWPPP intro
Haz. Mat. Collection Day Page – www.hhmcd.com
Trash Bash Day Page – http://www.stcharlesparish-la.gov/government/special-government-events/trash-bash Trash Bash Website enhancements now include links for sign-up, spread the word, photos, previous events, trash bash stats map, recycling locations, Garbage/Recycling/Hazardous Materials FAQ, News, Harry Hurst Wetland Watchers, Volunteer Roll Call, Public service announcements, Facebook, Litter hotspots map.

Responsible Person

Name: Tristan Babin

Title: Public Information Officer

Phone: (985) 783-5000

E-mail: tbabin@stcharlesgov.net

Educational components related to this BMP (description or number – optional):

Audience: General Public

Educational Goal: To provide complain/comment forum for illicit discharge, detection and elimination, as well as construction site stormwater violations

MS4 Name: St. Charles Parish
Unique Identifying Control Number: 1C
Minimum Control Measures Addressed by this BMP

x	Public education & outreach	x	Construction site runoff controls
x	Public participation & involvement	x	Post construction stormwater management
x	Illicit discharge detection & elimination		Pollution prevention/Good housekeeping

BMP Title: Public Service Announcement on local TV (Ch.6)

BMP Description:
The parish will utilize Ch. 6 for public service announcements on stormwater and what the public can do to prevent stormwater impacts. The Parish began airing the EPA and Weather Channel watershed documentary "After the Storm" on March 1, 2012, and will continue airing at 9:30 on the 1st of every month.

Measurable Goals:

- "After the Storm" airs per month on local Ch. 6, with a minimum of the first of every month at 9:30 am.
- "After the Storm" video available again on Parish "Stormwater Information" webpage.
- Continue airing SWPPP intro video to the Parish Stormwater webpage,
- Introduction of MS4 Coordinator to "FloodAware" flood awareness program committee
- MS4 Awareness presentation to Council.
- Channel 6 Segment – MS4 Awareness
- Continue existing programming on Channel 6
- Film new stormwater informational segment in 2018

Timeline/Implementation Schedule:

- March 2012 – Began airing "After the Storm" and will continue at 9:30 am the first of every month.
- October 2015 – Identify and distribute two new stormwater/environmental instructional videos on the "Stormwater Information" webpage.
- March 2017 – #FloodAware program begins.
- December 2017 – MS4 Awareness Presentation given to St. Charles Parish council and aired on Channel 6
- December 2018 – Insert new storm water informational segment into programming rotation

Specific Components & Notes (optional):
"After the Storm" DVD, "Stormwater Pollution Prevention Intro"
Airs the first of each month at 9:30 am. First air date was March 1, 2012. Video also embedded from the Parish's Vimeo account accessed through a link on the stormwater information page:
http://www.stcharlesparish-la.gov/government/special-sections/stormwater-information

Responsible Person
Name: Tristan Babin
Title: Public Information Officer
Phone: (985) 783-5000
E-mail: tbabin@stcharlesgov.net

Educational components related to this BMP (description or number – optional):
Audience: General Public
Educational Goal: To generate public awareness of impacts of stormwater runoff and introduce residents to stormwater conservation concepts.

MS4 Name: St. Charles Parish
Unique Identifying Control Number: 2A
Minimum Control Measures Addressed by this BMP

x	Public education & outreach	x	Construction site runoff controls
	Public participation & involvement	x	Post construction stormwater management
x	Illicit discharge detection & elimination		Pollution prevention/Good housekeeping

BMP Title: Storm Drain Marker Program

BMP Description:
The Parish with the assistance of an environmental consultant will mark storm drains with "No Dumping" or similar message to discourage non-stormwater discharges. This provides educational awareness to residents that the catch basin is directly connected to the Parish receiving waters.

Measurable Goals:
- Storm Drain Marker Program has entered its maintenance phase. Drain markers are placed on every second drain and will be replaced as required.
- Mark "Ashton Oaks" subdivision with drain markers

Timeline/Implementation Schedule:
- 2018 – Install markers in two new major subdivisions being constructed, completion eta 2018.

Specific Components & Notes (optional):
Parish installation work orders available upon request.

Responsible Person
Name: John Gutierrez, Jr.
Title: MS4 Coordinator
Phone: (985) 331-4478
E-mail: jgutierrez@stcharlesgov.net

Educational components related to this BMP (description or number – optional):
Audience: General Public

Educational Goal: To provide awareness to Parish residents that the stormwater catch basins are directly connected to receiving waters.

MS4 Name: St. Charles Parish
Unique Identifying Control Number: 2B
Minimum Control Measures Addressed by this BMP

x	Public education & outreach		Construction site runoff controls
x	Public participation & involvement		Post construction stormwater management
	Illicit discharge detection & elimination	x	Pollution prevention/Good housekeeping

BMP Title: Household Hazardous Material Collection Day

BMP Description:
On Saturday, April 16, 2017, the 19th Household Hazardous Materials Collection Day was held in Luling & LaPlace, LA. This event had been held annually since 1998 and its purpose is to provide area households an opportunity to properly dispose or recycle materials that are inappropriate for curbside pickup. Materials such as solvents, poisons, used oil, electronics, and corrosives require special handling to minimize safety and environmental impact.
http:www.hhmcd.com

Measurable Goals:
26 area manufacturers sponsored the event, providing funding and volunteers. Of the 136,511 pounds of materials collected, 86% was recycled or recovered. Of the 136,511 pounds, 9,012 pounds was used oil or antifreeze, twice as much as collected during the 2016 event. Used electronics accounted for 38,1567 pounds. Both sites included assistance from 105 volunteers who serviced drop-offs from 624 vehicles. For more information, visit the event website at www.hhmcd.com.

Timeline/Implementation Schedule:
- This activity has taken place since 1998.
- The 19th annual Household Hazardous Materials Collection Day will be held April 7, 2018

Specific Components & Notes (optional):
With approval from Louisiana Department of Environmental Quality and support from St. Charles Parish Council, St. James Parish Office of Emergency Preparedness, Department of Transportation and Development and St. John Parish, this event was sponsored by the following companies as a community service: Air Liquide, Air Products (multiple locations), Arkema, Bayou Steel, Bunge, Cornerstone Chemical Company, Denka Performance Elastomer, Dow, DuPont, Entergy, Evonik Corporation – Reserve, Evonik Corporation - Garyville, Galata Chemicals LLC, Hexion, Marathon Petroleum Company LP, Monsanto, Nalco Champion – an EcoLab Company, Noranda, Norco Manufacturing Complex (now Shell Chemical), Nucor, OxyChem, Praxair, Shell Pipeline Company LP, and Valero. Other organizations which provided donations, volunteers, food, support services and/or recycling were: Air Liquide, Denka Performance Elastomer, Bayou Steel, COLT, Inc., Habitat for Humanity, Louisiana Department of Agriculture & Forestry, New Wine Christian Fellowship, Pelican Pointe Car Wash, Positive Results, Inc. and Jerusalem Shriners Hall AAONMS. Clean Harbors Environmental Services provided waste and recycling professional services. Marathon Petroleum Company, United Way of St. Charles and St. John United Way assisted with fiscal tasks for the event.
-press release from HHMCD.com

Responsible Person
Name: Clayton Faucheux
Title: Director of Public Works/Wastewater
Phone: (985) 783-5102
E-mail: cfaucheux@stcharlesgov.net

Educational components related to this BMP (description or number – optional):
Audience: General Public
Educational Goal: To provide awareness to Parish residents an opportunity to properly dispose or recycle materials that are inappropriate for curbside pickup.

MS4 Name: St. Charles Parish
Unique Identifying Control Number: 2C
Minimum Control Measures Addressed by this BMP

x	Public education & outreach		Construction site runoff controls
x	Public participation & involvement		Post construction stormwater management
	Illicit discharge detection & elimination	x	Pollution prevention/Good housekeeping

BMP Title: Trash Bash Day

BMP Description:
St. Charles Parish organizes Trash Bash day with volunteers from around the community including students and representatives from local industry to pick up roadside debris and inform the community that roadside pollution directly contributes to the contamination of local receiving waters. For more information see http://www.stcharlesparish-la.gov/government/special-government-events/trash-bash

Measurable Goals:
Trash Bash 2018: March 3, 2018
Approximately 315 volunteers gathered on March 25 to help clean up St. Charles Parish as part of the fifth annual spring Trash Bash. In all, 203 bags of trash were collected

Timeline/Implementation Schedule:
- This event began in March 2009. Historic information on this event can be found on the Parish website.
- Trash Bash will be on March 3, 2018.

Specific Components & Notes (optional):
Trash Bash 2016
Sponsors for the event included: St. Charles Parish Parks and Recreation Department, the United Way of St. Charles, Matrix Service, Valero, Pelican Waste, DNG Electric, Raising Canes, River Parish Electric, the Capital Area Corporate Recycling Council, Entergy Louisiana and the Harry Hurst Wetland Watchers.
Trash Bash Website enhancements now include links for sign-up, spread the word, photos, previous events, trash bash stats map, recycling locations, Garbage/Recycling/Hazardous materials FAQ, News, Harry Hurst Wetland Watchers, Volunteer Roll Call, Public service announcements, Facebook link, Litter hotspots map.

Responsible Person
Name: Tristan Babin
Title: Public Information Officer
Phone: (985) 783-5000
E-mail: tbabin@stcharlesgov.net

Educational components related to this BMP (description or number – optional):
Audience: General Public

Educational Goal: To provide Parish residents an opportunity to participate in good housekeeping and pollution prevention activities.

MS4 Name: St. Charles Parish
Unique Identifying Control Number: 3A
Minimum Control Measures Addressed by this BMP

	Public education & outreach		Construction site runoff controls
	Public participation & involvement		Post construction stormwater management
x	Illicit discharge detection & elimination		Pollution prevention/Good housekeeping

BMP Title: Illegal Discharge Detection and Elimination (IDDE) Inspection Program

BMP Description:
The Parish inspects each inventoried stormwater structure (i.e catch basins, detention ponds, storm drain lines, ditches, etc.) in accordance with Drainage System Maintenance Procedures and Watershed Inspections found in Appendix B of the SWMP to identify potential illicit discharges. St. Charles Parish prioritizes stormwater control structure inspections based on those that discharge to stormwater impaired 303(d)-listed waters and those resulting from complaint investigations. Currently there are no discharges to stormwater impaired 303(d)-listed waters; these will be identified and prioritized as TMDLs are implemented. In 2011, after a review of existing Parish IDDE language, the Parish Director of Public Works directed environmental consultants to draft an IDDE ordinance. A new more comprehensive draft ordinance was developed in 2012, which included sections for addressing IDDE, construction site stormwater control, and post-construction management. In 2013, the Parish performed legal review of the draft ordinance, and passed the general stormwater ordinance Chapter 25 in January 2014.

Measurable Goals:

- Attain a minimum 80% attendance for field personnel in Public Works, Waterworks, & Waste Water – 2016 goal remains.
- 2017 Attendance totals:
  Public Works: 92%
  Waste Water: 76%
  Water Works: 74%

Timeline/Implementation Schedule:

- October 2017 – implement vacuum/weir skimmer system into spill remediation protocols – Purchase delayed, no estimated date of acquisition given.
- December 2018 - Attain a minimum 80% attendance for field personnel in Public Works, Waterworks, & Waste Water.

Specific Components & Notes (optional):
A comprehensive stormwater ordinance was developed in 2012, which included sections for addressing IDDE, construction site stormwater control, and post-construction stormwater management. In 2013, the ordinance was thoroughly reviewed by Parish legal council, and all Parish officials. Chapter 25 – Stormwater Management and Erosion and Sedimentation Control was passed in January 2014.
Drainage System Maintenance Procedures and Watershed Inspections found in Appendix B of the SWMP. In December 2014 the MS4 Coordinator developed an Enforcement Response Plan with IDDE components.
St. Charles Parish Municipal Code of Ordinances Chapter 22 – Sewers and Sewerage Disposal Specifically addresses illicit discharge and illicit connection to sewers

Responsible Person
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Educational components related to this BMP (description or number – optional):
Chapter 25 ordinance posted to the Parish Stormwater webpage and was advertised in the local paper for public review and comment. The Parish plans to train employees responsible for watershed inspections on IDDE in the coming years.

MS4 Name: St. Charles Parish
Unique Identifying Control Number: 3B
Minimum Control Measures Addressed by this BMP

	Public education & outreach		Construction site runoff controls
x	Public participation & involvement		Post construction stormwater management
x	Illicit discharge detection & elimination		Pollution prevention/Good housekeeping

BMP Title: Illegal Dumping Ordinance

BMP Description:
The St. Charles Parish Municipal Code of Ordinances Chapter 10 addresses illicit dumping and requires proper storage and disposal of garbage and rubbish. Specifically, "No person shall place any rubbish in any street, alley, or other public place or upon any private property, whether or not owned by the person, within the parish, unless it is in proper containers for collection, nor shall any person throw unauthorized accumulation of garbage on any premises is hereby declared to be a nuisance and is prohibited." This ordinance was reinforced with IDDE provisions in the Chapter 25 stormwater ordinance passed January 2015.
The Parish will track reported problems through the Parish website. The ongoing parish monitoring activities will be documented and presented in the annual report. The Parish uses security cameras at selected hotpots to monitor dumping.

Measurable Goals:
Approximately 18 Work Orders generated in 2017 to address trash/debris pick-up or dumping concerns. This work consisted of picking up trash/debris, old tires, clearing ditches and culverts of trash and install/replacing "No Dumping" signage.

Timeline/Implementation Schedule:
- January 2009 – The Parish began tracking website complaints and actions taken by the Parish
- ongoing – Parish will continue to monitor dumping through its website and Public Works requests

Specific Components & Notes (optional):
St. Charles Parish Municipal Code of Ordinances Chapter 10 – Garbage and Trash

Responsible Person
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Educational components related to this BMP (description or number – optional):
Audience: General Public

MS4 Name: St. Charles Parish
Unique Identifying Control Number: 3C
Minimum Control Measures Addressed by this BMP

	Public education & outreach		Construction site runoff controls
	Public participation & involvement		Post construction stormwater management
x	Illicit discharge detection & elimination	x	Pollution prevention/Good housekeeping

BMP Title: Sewer Ordinance and Enforcement

BMP Description:
The St. Charles Parish Municipal Code of Ordinances Chapter 22 addresses regulations for the sewer system. The Parish currently tracks all SSOs from the three WWTP: Destrehan, Hahnville, and Luling. The Parish Department of Wastewater has a service area of approximately 384 sq. miles with over 300 lift stations and approximately 314 miles of sewer lines. The Department has developed a Capacity, Management, Operations and Maintenance (CMOM) Program. The program consists of a CMOM crew and support from office personnel. The CMOM Crew is inspecting, numbering, labeling, and repairing manholes throughout the entire parish. These men also video lines, record problem areas and when necessary make minor repairs. Office personnel log complaints and maintain and organize all necessary documentation. In 2013, the Parish Wastewater Department formalized a Sewer Overflow Response Plan (see Appendix D of the SWMP). The SORP was fully implemented for 2014.

Measurable Goals:
71 overflows in 2017. All overflows are disinfected and deodorized. Overflows are also washed down, returned back to the system or vacuumed whenever possible.

- Draft IDDE Ordinance complete in 2012
- Chapter 25 Ordinance completed legal and Parish review in 2013
- Chapter 25 Ordinance passed in Jan. 2014
- Completed Sewer Overflow Response Plan (SORP)

Timeline/Implementation Schedule:
- The Parish will continue operations, service, and maintenance of sewer system.
- Ongoing – formalized document controls on SSO responses.

Specific Components & Notes (optional):
St. Charles Parish Municipal Code of Ordinances Chapter 22 – Sewers and Sewerage Disposal Public Comment/complaint procedures on parish website
Illicit discharge inspection program
The Parish continues a number of capital improvement projects to address SSOs.
Sewer Overflow Response Plan (SORP)

Responsible Person
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Educational components related to this BMP (description or number – optional):
Audience: General Public
Post Chapter 25 ordinance and SORP on Parish website

MS4 Name: St. Charles Parish
Unique Identifying Control Number: 3D
Minimum Control Measures Addressed by this BMP

	Public education & outreach		Construction site runoff controls
	Public participation & involvement	x	Post construction stormwater management
x	Illicit discharge detection & elimination		Pollution prevention/Good housekeeping

BMP Title: Master Drainage Plan

BMP Description:
St. Charles Parish maintains an updated, searchable inventory of stormwater control and conveyance structures, including pipes, catch basins, pump stations, manholes, jack & bores, canals, and ditches, etc. located across St. Charles Parish. The Parish will continue to refine the outfall inventory during ongoing inspections and develop revised inventories as part of the Annual Report cycle. Maps detailing the structural inventory are maintained by the Parish GIS Department and updated as necessary. The Parish's current MS4 structural inventory is included below in measurable goals.

Measurable Goals:
- 6,631 catch basins
- 14,500 ditches
- 1,001 drainage manholes
- 179,596 linear feet of storm drain lines

Timeline/Implementation Schedule:
- Master Drainage Plan is updated as necessary – ongoing.

Specific Components & Notes (optional):
East Bank Master Drainage Plan
West Bank Master Drainage Plan
Montz MDP – Improve/Realign Coulee Drainage
Mimosa and Lagatutta Pump Station
Randolph Pump Station improvements
Sunset Pump Station improvements
Major Canal Bank Stabilization – Dunleith Phase V & VI
Willow Ridge Pump Station Project
Willowdale T-wall & Levee extension
Ellington Levee Phase I Levee

Responsible Person
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Educational components related to this BMP (description or number – optional):
Audience: General Public

MS4 Name: St. Charles Parish
Unique Identifying Control Number: 4A
Minimum Control Measures Addressed by this BMP

	Public education & outreach	x	Construction site runoff controls
	Public participation & involvement	x	Post construction stormwater management
	Illicit discharge detection & elimination	x	Pollution prevention/Good housekeeping

BMP Title: Construction Site Runoff Control Ordinance

BMP Description:
In January 2014, the Parish Council passed the ordinance Chapter 25 – Stormwater Management and Erosion and Sedimentation Control. IN 2013 DPW and P&Z formalized plan review processes for inclusion into the SWMP and implantation of the new ordinance. All plans and supporting documents are submitted to the Planning and Zoning Department to obtain an Erosion and Sediment Control (SEC) Agreement, then submitted to DPW for review and approval in accordance with the new ordinance. The MS4 Coordinator meets with all contractors/architects/property owners during the Planning & Zoning permit application process in order to provide guidance on MS4 compliance.

Measurable Goals:
- Continue pilot program of 1x/weekly "compliance patrols" consisting of spot inspections of parish construction sites known to MS4 personnel. These patrols handle all identified environmental issues, not just construction sites.
- Documentation & communication regarding Best Management Practices continues to be given to all construction site owners/operators during the Planning & Zoning process.

Timeline/Implementation Schedule:
- Implemented July 2016. Previously BMP documentation was only given to operators of sites <1 acre in size.
- Ongoing – continue weekly compliance patrols and tracking.

Specific Components & Notes (optional):
Construction Site Runoff Inspection and SWPPP checklists/Construction Permit Procedures/Monitoring and Inspection activities/Construction site runoff control specification

Responsible Person
Name: John Gutierrez, Jr.
Title: MS4 Coordinator
Phone: (985) 331-4478
E-mail: jgutierrez@stcharlesgov.net

Educational components related to this BMP (description or number – optional):
Chapter 25 stormwater ordinance continues to be posted to the Parish Stormwater webpage. Links on stormwater webpage include construction specification section, SWPPP intro video. New information is posted to the "Stormwater Information" website as it becomes available.

MS4 Name: St. Charles Parish
Unique Identifying Control Number: 4B
Minimum Control Measures Addressed by this BMP

x	Public education & outreach	x	Construction site runoff controls
	Public participation & involvement	x	Post construction stormwater management
	Illicit discharge detection & elimination		Pollution prevention/Good housekeeping

BMP Title: Construction Site Inspection and Enforcement Procedures

BMP Description:
St. Charles Parish evaluated the existing erosion and sediment control inspection process for consistency with current LPDES General Permit for Discharges of Stormwater from Construction Activities. With the assistance of environmental consultants the Parish developed a Construction Site Runoff Control Specification Section, Site Inspection checklists, and SWPPP documentation checklists. In 2013, the Parish reviewed and formalized permitting processes for ordinance implementation. The Parish began implementation of SWPPP review, and will continue to implement this plan review with implantation of the new ordinance. These processes are included in the SWMP. St. Charles Parish evaluated several different stormwater construction site inspection forms, and has elected to instead modify the form currently used by Parish inspectors to include items to ensure compliance with the construction general permits – LAR100000 and LAR200000. The Parish has identified the need for construction site stormwater training for its construction inspectors. Training began in early 2015, beginning with the MS4 Coordinator and new stormwater training will occur as the MS4 department undergoes expansion.

Measurable Goals:
- Number of Parish inspectors certified as stormwater inspectors – 2 currently. 100% training rate for MS4 Personnel
- Number of SWPPP reviews – 6 reviewed of 6 submitted in 2017.

Timeline/Implementation Schedule:
- December 2017: Continue SWPPP reviews, maintain 100% review rating for applicable sites
- Ongoing – maintain 100% certification rate as Stormwater Inspectors by MS4 personnel

Specific Components & Notes (optional):
New Stormwater Ordinance
Construction Permit Procedures
Monitoring and Inspection activities
Enforcement procedures
Construction Site Runoff Inspection and SWPPP checklists
Construction Site Runoff Control Specification Section

Responsible Person
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Title: MS4 Coordinator
Phone: (985) 331-4478
E-mail: jgutierrez@stcharlesgov.net

Educational components related to this BMP (description or number – optional):
Audience: General Public
Links on Parish website include stormwater specification section, SWPPP intro video, and erosion and sediment pamphlet

MS4 Name: St. Charles Parish
Unique Identifying Control Number: 5A
Minimum Control Measures Addressed by this BMP

	Public education & outreach	x	Construction site runoff controls
	Public participation & involvement	x	Post construction stormwater management
	Illicit discharge detection & elimination		Pollution prevention/Good housekeeping

BMP Title: Post-Construction Site Runoff Control Ordinance

BMP Description:
In 2013, DPW and P&Z formalized plan review processes for inclusion into the SWMP and implementation of the new ordinance that includes provisions for post-construction runoff control. In January 2014, the Parish Council passed the ordinance Chapter 25 – Stormwater Management and Erosion and Sedimentation Control. A Stormwater Maintenance Permit will be required which will specify inspections and maintenance activities, allowing tracking of the effectiveness and maintenance of existing structural BMPs. All structural BMPs in a single development will be covered under on Stormwater Maintenance Permit. A Stormwater Maintenance Permit will be issued for any permanent structural Stormwater controls to the developer, or his assignee, upon fulfillment of the performance and warranty obligations and final acceptance of the subdivision in accordance with Appendix C, of the Parish Code of Ordinances, St. Charles Parish Subdivision Regulations of 1981, Ordinance 81-8-2, Sec. II.H. The Parish will survey existing subdivisions and commercial developments every three (3) years to locate existing structural Stormwater controls that do not have a Stormwater Maintenance Permit.

Measurable Goals:	**Timeline/Implementation Schedule:**
• Inspect qualifying new developments weekly during MS4 Compliance Patrols. Violations are logged via the "Complaint Log"	• Ongoing

Specific Components & Notes (optional):
Stormwater Maintenance Permit
Post-Construction Permit Procedures
Chapter 25 – Code of Ordinances, Stormwater Management and Erosion and Sedimentation Control
Construction Site Runoff Control Specification Section

Responsible Person
Name: John Gutierrez, Jr
Title: MS4 Coordinator
Phone: (985) 331-4478
E-mail: jgutierrez@stcharlesgov.net

Educational components related to this BMP (description or number – optional):
New Draft ordinance will be posted to the Parish Stormwater Information webpage and will be advertised in the local paper for public review and comment. Links on stormwater webpage include construction specification section, SWPPP intro video. New information will be added as it becomes available.

MS4 Name: St. Charles Parish

Unique Identifying Control Number: 5B

Minimum Control Measures Addressed by this BMP

	Public education & outreach		Construction site runoff controls
	Public participation & involvement	x	Post construction stormwater management
	Illicit discharge detection & elimination	X	Pollution prevention/Good housekeeping

BMP Title: Watershed Inspections

BMP Description:

Inspections of Structural Stormwater controls by St. Charles Parish staff are documented on the Watershed inspection work order and, at a minimum, attempt to identify the following information:

- Adequate access to structures via drainage easements and berms;
- Detention ponds that require sediment removal, grassing, outlet control structure repair, and erosion control;
- Accumulation of dirt, debris, or other notable damage at the discharge of outfall structures;
- Stormwater collection and transfer structures that are not properly maintained.

The following are the stormwater pond inspection activities carried out by St. Charles Parish:
Periodic inspection to remove sediment and vegetation from inlet, pond, and forebay, occasional inspection for sediment buildup.
The following are the stormwater inspection activities for separator units and pump station bar screens:
Inspect the separator until/bar screen integrity, clean out sediment, oil and greased, and floatables, using catch basin cleaning equipment (vacuum pumps). Manual removal of pollutants may be necessary. These stations are inspected weekly, at minimum, and maintenance/cleaning operations performed as necessary to maintain operational health of the pumping station.

Measurable Goals:

- Maintain 100% spill training for Parish Pump Mechanics performing Pump Station maintenance.
- New for 2017: train 80% of pump station maintenance personnel on spill vacuum/weir skimmer operation – goal postponed due to delayed acquisition of spill vacuum

Timeline/Implementation Schedule:

- Watershed inspections are an ongoing Parish Maintenance activity
- Pump Mechanics spill training 100% completion rate – December 2018. Continuing goal from 2017.

Specific Components & Notes (optional):

Stormwater Maintenance Permit
Post-Construction Permit Procedures
Chapter 25 – Code of Ordinances, Stormwater Management and Erosion and Sedimentation Control
Drainage System Maintenance Procedures and Watershed Inspections found in Appendix B of the SWMP

Responsible Person

Name: John Gutierrez, Jr.

Title: MS4 Coordinator

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Educational components related to this BMP (description or number – optional):

New Draft ordinance will be posted to the Parish Stormwater webpage and will be advertised in the local paper for public review and comment. Links on stormwater webpage include construction specification section, SWPPP intro video.

MS4 Name: St. Charles Parish
Unique Identifying Control Number: 6A
Minimum Control Measures Addressed by this BMP

	Public education & outreach		Construction site runoff controls
	Public participation & involvement		Post construction stormwater management
	Illicit discharge detection & elimination	X	Pollution prevention/Good housekeeping

BMP Title: Spill Response and Prevention Plan

BMP Description:
The Parish currently recycles used oil and will develop standard operating procedures for handling used oil and other maintenance related fluids (antifreeze, etc.) at the various maintenance locations, as well as procedures for handling other hazardous materials. The plan will describe measures to prevent or reduce the discharge of pollutants to drainage systems or waterways from leaks and spills by reducing the chance for spills, stopping the source of spills, containing and cleaning up spills, and properly disposing of spill materials. This will include training for employees on spill prevention and cleanup, and provide ready access to materials. The Parish will develop procedures around the current used oil collection process and identify expansion of the program to make collection and recycling of used oil easier for the community. Through the MS4 Program the Parish will continue to work toward full compliance with 40 CFR Part 112 throughout all departments and facilities.

Measurable Goals:
- Continue ongoing survey of public services for spill compliance

Timeline/Implementation Schedul
- December 2018 – Public Services spill compliance audit completion - continued in 2018

Specific Components & Notes (optional):
Completed SPCC plans: Department of Public Works Pump Stations & Yards, Wastewater, Waterworks.
In-progress SPCC plans: EOC, Community Centers
Parish Maintenance Trucks are equipped with "Oil Dri" spill kit – 5 gallon bucket. The Parish has 18 units in drainage that have these spill kits; including pump mechanics, electricians, and foremen.
Unit #s 110, 111, 119, 122, 149, 181, 187, 260, 261, 265, 273, 274, 275, 277, 278, 284. Fueler trucks – 904, 911.

Responsible Person
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Educational components related to this BMP (description or number – optional):
Audience: Other Parish departments
Technical memorandum outlining criteria for identifying the need for SPCC plans

MS4 Name: St. Charles Parish
Unique Identifying Control Number: 6B
Minimum Control Measures Addressed by this BMP

	Public education & outreach		Construction site runoff controls
	Public participation & involvement		Post construction stormwater management
	Illicit discharge detection & elimination	X	Pollution prevention/Good housekeeping

BMP Title: Culvert Management Program

BMP Description:
The Parish has an ongoing Culvert Management Program. As part of the Program, the Parish maintains work crew, a response system, and culvert cleaning operations. Also as part of the Program, the Parish modified its Culvert Ordinance on April 4, 2011 by adopting Ordinance No. 11-4-25 amending the code of Ordinances by revising Chapter 21, Article I, section 21-1 (a) and (b).

Measurable Goals:	**Timeline/Implementation Schedule:**
Explore new tracking methods for work order system to replace previous culvert management tracking.	• Ongoing - Continue Culvert Cleaning Operations

Specific Components & Notes (optional):

Responsible Person
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Educational components related to this BMP (description or number – optional):
Audience: General Public