

Phase II (Small) MS4 Annual Report Form

TPDES General Permit Number TXR040000

A. General Information

Authorization Number: **TXR040438** Annual Reporting Year: (calendar year, permit year, or fiscal year): **2 (FY 2015)** Last day of fiscal year, if applicable: **September 30th**

MS4 Operator Level: **2** Name of MS4/Permittee: **Chambers County**

Contact Name: **Robert L. Hall Jr., P.E., P.R.L.S.** Telephone Number: **(409) 267-8379**

Mailing Address: **201 Airport Road, Anahuac, TX 77514**

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B. Narrative Provisions (Part IV Section B.2.(a))

1. Provide information on the status of complying with permit conditions:(Part V - Standard Permit Conditions):

	Yes	No	Explain
Permittee is currently in compliance with the SWMP as submitted to and approved by the TCEQ.	X		
Permittee is currently in compliance with recordkeeping and reporting requirements.	X		
Permittee meets the eligibility requirements of the permit (e.g., TMDL requirements, Edwards Aquifer limitations, compliance history, etc.)	X		

2. Provide a general assessment of the appropriateness of the selected BMPs. Use table below or attach a summary, as appropriate (See Example 1 in instructions):

The permittee selected the BMPs included in the SWMP based on the permit requirements included in each minimum control measure. The BMPs selected are currently considered appropriate for reducing the discharge of stormwater pollutants. The SWMP was reviewed by the TCEQ to determine if the SWMP met the MEP.

3. Describe progress towards reducing the discharge of pollutants to the maximum extent practicable. Summarize any information used (such as monitoring data) to evaluate reductions in the discharge of pollutants. Use a table or attach a narrative description as appropriate:

MCM	BMP	Parameter	Quantity	Units	Does BMP Demonstrate a Direct Reduction in Pollutants? (Yes / No / Explain)
1	Flyers and Brochures	estimated quantities of materials distributed or posted	40 – After the Storm brochures; 40 – Pet Waste brochures	materials	No
1	Develop Materials for Local Schools/ Libraries	estimated quantities of education materials distributed	20 – Coloring Books	materials	No
1	Education of Construction Site Personnel	estimated quantities of educational materials or guidance documents distributed	1 – guidance document, 40 brochures, and stormwater website	materials	No
1	Public Service Announcements	number of different PSA's being aired by local media	4 – PSAs on website	materials	No
1	Stormwater Quality Website	number of website updates and estimated number of hits	1 – site update; 48 – site visits	updates/ site visits	No

1	SWMP Committee	number of meetings held and associated sign-in sheets	2	meetings	No
2	MS4 Outfall Inspections	percentage of outfalls inspected	20%	percentage	Yes – Identification and elimination of illicit discharges represents a direct reduction in pollutants
5	Litter/Garbage Collection	estimated volume of litter/garbage removed	22,552.72	tons	Yes – Conducting litter/garbage collection reduces the amount of floatables and other dumping related waste
5	Vehicle and Equipment Maintenance	total number of vehicles/equipment operated by MS4	320	vehicles/equipment	Yes – Properly maintaining vehicles and equipment reduces the chance of pollutants being discharged to the MS4
5	Permittee Parking Lots	number of parking lot inspections	2	inspections	Yes – Conducting inspections of permittee owned parking lots reduces the potential of pollutants being discharged to the MS4

4. Provide the measurable goals for each of the MCMs, and an evaluation of the success of the implementation of the measurable goals (See Example 2 in instructions):

MCM(s)	Measurable Goal(s)	Success
1	Distribute or post at least 2 types of available brochures per year	Goal Met

MCM(s)	Measurable Goal(s)	Success
1	Ensure at least 1 type of material is distributed annually for local schools and/or public libraries	Goal Met
1	Make available to construction site personnel at least 1 guidance document, brochure, or webpage on construction site runoff issues each year	Goal Exceeded – Guidance document, brochures, and webpage made available to construction site personnel
1	Provide at least 1 PSA to be aired by local media, public access channel, or website at least once per permit term	Goal Met
1	Update website at least once per permit term	Goal Met
1	Comply with state and local public notice requirements for applicable events	Goal Met
1	Make SWMP available to the public annually	Goal Met
1	⁽¹⁾ Conduct at least 2 SWMP Committee meetings per year and ⁽²⁾ encourage local groups to participate at least once per permit term	⁽¹⁾ Goal Met ⁽²⁾ Not Due Yet
1	Conduct public meeting at least once per permit term	Not Due Yet
1	Distribute at least 2 types of materials per year that informs the public about reporting stormwater quality concerns	Goal Met
2	Conduct 1 review of the map per permit term. Map outfalls in new development areas on an as needed basis	Goal Met

MCM(s)	Measurable Goal(s)	Success
2	Inspect approximately 20% of the identified outfalls per year	Goal Met
2	Report identified illicit discharges to the appropriate adjacent MS4 or TCEQ Field Operations Support Division	Goal Met
2	Conduct training for MS4 field staff at least once per permit term	Not Due Yet
2	Develop and maintain appropriate IDDE procedures	Goal Met
2	Distribute at least 2 types of media/materials to help facilitate public reporting of illicit discharges	Goal Met
3	Review applicable permittee owned construction site plans for compliance with the CGP	Not Due Yet
3	Inspect all permittee owned construction sites for compliance with the CGP	Not Due Yet
3	Post an appropriate site notice at each permittee owned construction site subject to the TPDES Construction General Permit TXR150000	Not Due Yet
3	Develop procedures for receipt and consideration of information submitted by the public	Goal Met
3	Conduct training for MS4 field staff at least once per permit term	Not Due Yet
4	Review construction plans for the inclusion of appropriate post-construction controls for permittee owned projects	Goal Met

MCM(s)	Measurable Goal(s)	Success
4	Conduct at least 1 inspection of control measures per permit term	Not Due Yet
5	Develop and maintain MS4 facility inventory list and stormwater controls within the regulated area	Goal Met
5	Conduct at least 1 training session per permit term	Not Due Yet
5	Properly dispose of waste materials on a routine basis and maintain documentation regarding disposal procedures	Goal Met
5	Develop contractor oversight procedures and conduct a review of the procedures once per permit term	Goal Met
5	Inspect municipal facilities at least once per permit term	Not Due Yet
5	Inspect structural controls at least once per year	Not Due Yet
5	Conduct routine maintenance and repairs on permittee owned equipment	Goal Met
5	Conduct litter/garbage collection at least once per year within the regulated area	Goal Met
5	Inspect and maintain permittee owned construction sites as required by the TCEQ Construction General Permit	Goal Met
5	Inspect/maintain permittee parking areas at least once per year	Goal Met

C. Stormwater Monitoring Data (Part IV Section B.2.(b))

1. The MS4 has conducted monitoring of stormwater quality and submitted in the annual report (i.e. analytical and visual observations).

____ Yes ☒ No

a. Explain below or attach a summary to submit along with any monitoring data used to evaluate the success of the SWMP at reducing pollutants to the maximum extent practicable. Be sure to include a discussion of results: N/A

D. Impaired Waterbodies (Part IV Section B.2.(c))

1. If applicable, explain below or attach a summary of any activities taken to address the discharge to impaired waterbodies, including any sampling results and a summary of the small MS4's BMPs used to address the pollutant of concern:

The permittee has referred to the CWA 303(d) list and existing TMDL Implementation Plans and determined that they are a potential source of bacteria being discharged to Trinity Bay (stream segment no. 2422), Cedar Bayou Tidal (stream segment no. 0901), and Upper Galveston Bay (stream segment no. 2421). Appropriate focused BMPs and corresponding measurable goals have been developed to reduce the discharge of the pollutant of concern that is contributing to the impairment of the water body. The focused BMPs include activities related to TMDL implementation plans, failing on-site sewer systems, promoting proper maintenance of on-site sewer systems, MS4 outfall inspections, public reporting, pet waste management, animal shelters, zoos and/or horse stables, and residential education for bacterial sources.

Our research indicates that the pollutants of dioxin in edible tissue and PCBs in edible tissue are legacy pollutants and/or directly related to industrial discharges. Therefore, the permittee is not considered a potential source and no additional focused BMPs were developed by the permittee to target those pollutants.

2. Describe the implementation of targeted controls if the small MS4 discharges to an impaired water body with an approved TMDL (*Part II Section D.4.(a)*):

The permittee will implement the targeted BMPs and associated measurable goals as outlined in their stormwater management program. During the reporting period, approximately 20% of the identified outfalls were inspected to identify illicit discharges and meet the established measurable goals. All other focused BMPs are scheduled to be fully implemented by December 2017. The assessment of progress towards the identified benchmarks will be conducted by the evaluation of program implementation measures.

3. Report the benchmark identified by the MS4 and assessment activities (*Part II Section D.4.(a)(6)*):

Benchmark Parameter	Benchmark Value	Description of additional sampling or other assessment activities	Year(s) conducted
Stream Segment No. – 2422: Bacteria	126 MPN/100 mL E. coli	20% of identified outfalls were inspected to identify illicit discharges	Permit Year 1 Permit Year 2
Stream Segment No. – 2421: Bacteria	126 MPN/100 mL E. coli	20% of identified outfalls were inspected to identify illicit discharges	Permit Year 1 Permit Year 2

The permittee will assess progress in achieving benchmarks and determining the effectiveness of BMPs by evaluating program implementation measures. The following indicators will be utilized to assess progress towards the benchmark(s): the number of illicit discharge sources identified or eliminated, number of public education opportunities conducted, and results of dry weather screening activities. If, by the end of the third year from the effective date of the permit, the permittee observes no progress towards the benchmark from evaluating the program implementation measures, the permittee will identify alternative focused BMPs that address new or increased efforts towards the benchmark.

4. Provide an analysis of how the selected BMPs will be effective in contributing to achieving the benchmark (Part II Section D.4.(a)(4)):

Benchmark Parameter	Selected BMP	Contribution to achieving Benchmark
Bacteria	TMDL I-Plans	Compliance with existing TMDL I-Plans will reduce the amount of illicit discharges
Bacteria	Failing On-Site Sewer Systems	Identification of failing on-site sewer systems through complaints and/or visual inspections will help reduce the potential for illicit discharges
Bacteria	Promote Proper Maintenance of On-Site Sewer Systems	Public education will help increase awareness on stormwater quality and instruct citizens on how to properly report potential illicit discharges
Bacteria	MS4 Outfall Inspections	Conducting outfall inspections will enable the permittee to identify and eliminate illicit discharges
Bacteria	Public Reporting	Development of public education materials which raise awareness of stormwater quality and encourage public reporting will increase the effectiveness of the program
Bacteria	Pet Waste Management	Promoting proper pet waste management through the development of educational materials will raise awareness on the impacts pet waste has on water quality
Bacteria	Animal Shelters, Zoos and/or Horse Stables	Development of pollution prevention guidelines for municipally owned animal shelters, zoos and/or horse stables will help reduce the potential for pollutants in the MS4

Benchmark Parameter	Selected BMP	Contribution to achieving Benchmark
Bacteria	Residential Education for Bacterial Sources	Development of public education materials which raise awareness of stormwater quality and encourage public reporting will increase the effectiveness of the program

5. If applicable, report on focused BMPs to address impairment (*Part II Section D.4.(a)(5)*):

Pollutant to Address	Description of Focused BMP	Comments/Discussion
Bacteria	TMDL I-Plans: Comply with existing implementation plans for discharges to impaired water bodies for which there is a TCEQ and EPA approved TMDL.	Implementation not due yet
Bacteria	Failing On-Site Sewer Systems: Identification of failing on-site sewer systems through complaints and/or visual inspections of the storm sewer system. Identified discharges from failing on-site sewer systems will be addressed as illicit discharges to the MS4 through the operator's legal authority.	Implementation not due yet
Bacteria	Promote Proper Maintenance of On-Site Sewer Systems: Develop media to facilitate proper maintenance of on-site sewer systems. Educational materials may include brochures, websites, and/or social media pages.	Implementation not due yet
Bacteria	MS4 Outfall Inspections: Utilize reports from MS4 field staff, citizens, and a concentrated dry weather screening program to inspect outfalls for illicit discharges.	20% of identified outfalls inspected during reporting period

Pollutant to Address	Description of Focused BMP	Comments/Discussion
Bacteria	Public Reporting: Develop media targeting the pollutant(s) of concern to facilitate public reporting sanitary sewer overflows, failing on-site sewer systems, illicit discharges and/or other pollutant sources. Educational materials may include stormwater hotlines, brochures, websites, and/or social media pages.	2 brochures and a stormwater quality website that help facilitate public reporting of the pollutant(s) of concern were developed and made available
Bacteria	Pet Waste Management: Develop media to facilitate and promote proper pet waste management practices. Educational materials may include flyers/brochures, websites, and/or social media pages.	Brochure promoting proper pet waste management was developed and made available
Bacteria	Animal Shelters, Zoos and/or Horse Stables: Develop pollution prevention guidelines for municipally owned animal shelters, zoos and/or horse stables. Conduct employee training and implement control measures focused on the reduction of pollutant(s) of concern from municipally owned animal shelters, zoos and/or horse stables.	Implementation not due yet
Bacteria	Residential Education for Bacterial Sources: Develop media to facilitate public education for bacterial sources including residential sources, proper disposal of fats, oils and greases, and decorative ponds. Educational materials may include flyers/brochures, websites, and/or social media pages.	2 brochures, 1 flyer, and a stormwater quality website were developed and made available

6. Describe progress in achieving the benchmark (*Part II.D.4.(a)(6)*):

Benchmark Indicator	Description/Comments
Number of sources identified or eliminated	Dry weather outfall screening was conducted on approximately 20% of the identified outfalls; there were 0 illicit discharges found.

E. Stormwater Activities (Part IV Section B.2.(d))

Describe any stormwater activities the MS4 operator has planned for the next reporting year. Use the table or attach a summary, as appropriate:

MCM(s)	BMP	Stormwater Activity	Description/Comments
1	Flyers and Brochures	Distribute or post at least 2 types of available brochures per year	Distribution or posting of flyers and brochures for the purpose of educating the public on stormwater impacts and ways they can minimize stormwater pollution
1	Develop Materials for Local Schools/Libraries	Ensure at least 1 type of material is distributed annually for local schools and/or public libraries	Development of educational materials for school age children in order to foster an early age respect for water quality
1	Education of Construction Site Personnel	Make available to construction site personnel at least 1 guidance document, brochure, or webpage on construction site runoff issues each year	Development of guidance materials/brochures/webpage for construction site personnel on the proper installation and maintenance of erosion and sediment controls, and other construction site runoff issues
1	Public Service Announcements	Provide at least 1 PSA to be aired by local media, public access channel, or website at least once per permit term	Develop and make available PSAs on the impacts of stormwater pollution and steps that residents can take to improve water quality

MCM(s)	BMP	Stormwater Activity	Description/Comments
1	Stormwater Quality Website	Update website at least once per permit term	Develop and maintain a stormwater quality website. The website will include stormwater education per the TCEQ general permit guidelines and provide specific information regarding the TPDES Phase II program; including links to other local, state and national stormwater websites. In addition, the website will provide viewers with instructions on how to report stormwater quality concerns in their area.
1	SWMP Availability	Make SWMP available to the public annually	Make the SWMP available to the public on the stormwater quality website. Website address will be included on flyers and brochures distributed by the permittee.
1	SWMP Committee	Conduct at least 2 SWMP Committee meetings per year and encourage local groups to participate at least once per permit term	Formation/maintenance of a committee on SWMP program development and implementation
1	Stormwater Hotline	Distribute at least 2 types of materials per year that informs the public about reporting stormwater quality concerns	Advertise appropriate phone numbers for citizens to report information regarding illicit discharges, illegal dumping, construction site discharges, etc.
2	MS4 Outfall Map	Conduct 1 review of the map per permit term. Map outfalls in new development areas on an as needed basis	Develop/Maintain an updated map of the MS4 indicating the location of stormwater outfalls that discharge to waters of the U.S. and the location and name of all surface waters receiving discharge from the MS4
2	MS4 Outfall Inspections	Inspect approximately 20% of the identified outfalls per year	Utilize reports from MS4 field staff, citizens, and a concentrated dry weather screening program to inspect outfalls for illicit discharges

MCM(s)	BMP	Stormwater Activity	Description/Comments
2	Regulatory Mechanisms	Report identified illicit discharges to the appropriate adjacent MS4 or TCEQ Field Operations Support Division	With the permittee being non-traditional MS4, the permittee will rely on adjacent MS4 operators and the TCEQ Field Operations Support Division for enforcement authority according to Part III.A.3(b) of the TPDES General Permit TXR040000.
2	Public Reporting	Distribute at least 2 types of media/materials to help facilitate public reporting of illicit discharges	Develop media to facilitate public reporting of illicit discharges. Options may include stormwater hotlines, websites, and social media pages.
3	Construction Site Plan Review	Review applicable permittee owned construction site plans for compliance with the CGP	Implement a construction site plan review program that focuses on compliance with the Construction General Permit for permittee owned construction sites and develop associated guidance materials.
3	Construction Site Inspection/ Enforcement	Inspect all permittee owned construction sites for compliance with the CGP	Conduct inspections of permittee owned construction sites/associated control measures to ensure compliance with the CGP.
3	Construction Site Notice Posting	Post and appropriate site notice at each permittee owned construction site subject to the TPDES Construction General Permit TXR150000	Post and appropriate site notice of NOI in a publicly accessible location for each permittee owned construction project subject to the TCEQ Construction General Permit.
3	Public Reporting	Develop procedures for receipt and consideration of information submitted by the public	Implement standard operating procedures for public reporting regarding construction site stormwater runoff. SOP was developed in Year 2 (FY 2015).

MCM(s)	BMP	Stormwater Activity	Description/Comments
4	Development Project Plan Review	Review construction plans for the inclusion of appropriate post-construction controls for permittee owned projects	Review development plans for permittee owned sites to ensure compliance with local post-construction runoff guidelines and inclusion of appropriate permanent stormwater quality controls. Ensure that contracted operators hired by the permittee design, install, implement, and maintain a combination of structural and non-structural BMPs appropriate for the community and that protects water quality.
5	MS4 Facility Inventory	Develop and maintain MS4 facility inventory list and stormwater controls within the regulated area	Maintain an inventory of the applicable MS4's facilities and stormwater controls within the regulated area
5	Disposal of Waste	Properly dispose of waste materials on a routine basis and maintain documentation regarding disposal procedures	Properly dispose of waste materials that are removed as a result of maintenance activities; such as floatables, dredge spoils, and or accumulated sediments
5	Vehicle and Equipment Maintenance	Conduct routine maintenance and repairs on permittee owned equipment	Conduct routine maintenance of permittee owned vehicles according to manufacturer's specifications
5	Litter/Garbage Collection	Conduct litter/garbage collection at least once per year within the regulated area	Conduct garbage and/or litter collection in order to reduce floatable material discharges to stormwater
5	Maintain Municipally Owned Construction Sites	Inspect and maintain permittee owned construction sites as required by the TCEQ Construction General Permit	Conduct maintenance activities necessary to properly maintain erosion and sediment controls at municipally owned construction sites based on needs identified during construction site inspections

MCM(s)	BMP	Stormwater Activity	Description/Comments
5	Permittee Parking Lots	Inspect/maintain permittee parking areas at least once per year	Inspect and maintain municipal parking lots

F. SWMP Modifications (Part IV Section B.2.(e))

1. Changes have been made or are proposed to the SWMP since the NOI or the last annual report, including changes in response to TCEQ's review.

____ Yes **X** No

If 'Yes', report on changes made to measurable goals and BMPs: **N/A**

MCM(s)	Measurable Goal(s) or BMP(s)	Implemented or Proposed Changes (Submit NOC as needed)
<u>N/A</u>	<u>N/A</u>	<u>N/A</u>

Note: If changes include additions or substitutions of BMPs, include a written analysis explaining why the original BMP is ineffective or not feasible and why the replacement BMP is expected to achieve the goals of the original BMP.

2. Explain additional changes or proposed changes not previously mentioned (i.e. dates, contacts, procedures, annexation of land etc.): **N/A**

G. Additional BMPs (Part IV Section B.2.(f))

Provide a description and schedule for implementation of additional BMPs that may be necessary, based on monitoring results, to ensure compliance with applicable TMDLs and implementation plans. N/A

BMP	Description	Implementation Schedule (Start Date etc.)	Status / Completion Date (completed, in progress, not started)
<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>

H. Additional Information (Part IV Section B.2.(g))

1. Is the permittee relying on another entity/ies to satisfy some of its permit obligations?

☐ Yes ☒ No

If 'Yes,' provide the name(s) of other entity/ies and an explanation of their responsibilities (add more spaces or pages if needed): N/A

- 2.a. Is the named permittee sharing a SWMP with other entities?

☐ Yes ☒ No

- 2.b. If 'yes,' is this a system-wide annual report including information for all permittees? N/A

☐ Yes ☐ No

If 'Yes,' list all associated permit numbers and permittee names (add additional spaces or pages if needed): N/A

I. Construction Activities (Part IV Section B.2.(h-i))

1. The number of construction projects in the jurisdiction of the MS4 where the permittee was not the construction site operator (as provided in submittals to the MS4 operator via notices of intent or site notices): 7

2. a. Does the permittee utilize the optional seventh MCM related to construction?

☐ Yes ☒ No

2. b. If 'yes,' then provide the following information for this permit year:

The number of municipal construction activities authorized under this general permit	<u>N/A</u>
The total number of acres disturbed for municipal construction projects	<u>N/A</u>

Note: Though the seventh MCM is optional, implementation must be requested on the NOI or on a NOC and approved by the TCEQ.

J. Certification

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

Name (printed): Jimmy Sylvia Title: County Judge

Signature:  Date: November 2, 2015

Note: If this is this a system-wide annual report including information for all permittees, each permittee shall sign and certify the annual report in accordance with 30 TAC §305.128 (relating to Signatories to Reports).