

# Texas Department of Transportation Year 5 Annual Report



## **Municipal Separate Storm Sewer System (MS4) Permit Number WQ0005011000**

**Texas Department of Transportation  
Environmental Affairs Division  
125 East 11th Street  
Austin, Texas 78701**

**(512) 416-3001  
Fax (512) 416-2746**

**February 2022**



Texas Commission on Environmental Quality  
Stormwater & Pretreatment Team Leader (MC-148)  
P.O. Box 13087  
Austin, Texas 78711-3087

Re: MS4 Annual Report - Year 5 Transmittal for the Texas Department of Transportation  
TPDES Permit Authorization: WQ0005011000

Dear Team Leader:

This letter serves to transmit the Year 5 Annual Report for the Texas Pollutant Discharge Elimination System Municipal Separate Storm Sewer System Permit, Authorization Number WQ0005011000 for the Texas Department of Transportation. The reporting term is September 1, 2020 - August 31, 2021.

A separate Notice of Change has not been submitted based on the fact that changes have not been proposed for the next permit year.

As required by the permit, a paper copy of this submittal has also been mailed to TCEQ's Stormwater & Pretreatment Team (MC-148) in Austin, Texas. Electronic copies have been delivered via TCEQ's ftp page to each Water Section Manager of each TCEQ region serving the regulated area of the permit (see following list of recipients).

Sincerely,

DocuSigned by:

*Doug Booher*

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Doug Booher  
Director, Environmental Affairs Division



# TxDOT Statewide MS4 Annual Report

TPDES Individual Permit No. WQ0005011000

## General Information

Authorization Number: WQ0005011000 Annual Report Year: 5 (9/1/2020-8/31/2021)

Name of MS4 / Permittee Texas Department of Transportation

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# List of Recipients of Annual Report

Sent via TCEQ FTP site at: <https://ftps.tceq.texas.gov/>

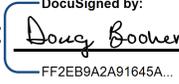
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## Certification

*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): Doug Booher Title: Director of Environmental Affairs Division

Signature:  Doug Booher Date 2/14/2022  
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**Note:** If this is 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).

2. Provide a general assessment of the appropriateness of the selected BMPs. Use table below or attach a summary, as appropriate:

### **Assessment of Appropriateness of BMPs:**

The BMPs chosen to meet permit requirements are appropriate and adequate to meet the goals of the permit to reduce the discharge of pollutants to the maximum extent practicable.

TxDOT revised the SWMP in the first year of the permit. No further revisions have been made.

### **Evaluation of the Success of the Implementation of Measurable Goals:**

TxDOT successfully implemented the required BMPs per measurable goal. Each BMP listed on the following pages of this report indicates the success of each measurable goal (see column “Met Goal?”).

FY2021 continued to pose challenges due to the ongoing COVID-19 pandemic. Many closures, travel restrictions, and lockdowns remained in place through most of FY2021. Following our COVID-19 modified practices from Year 4, we continued to implement virtual site visits for facility surveys, which allowed us to interact with the minimal on-site staff at our maintenance yards, without need for travel. Staff walked the site with live video on their phone so that we could see the conditions of the site. Staff also uploaded their data to Dropbox so we could review their records.

The annual Texas Trash Off was held for FY2021 on April 10, 2021. This event involves volunteers gathering trash from the right-of-way. Last year the Texas Trash Off was cancelled as it was deemed too risky during the pandemic, but with the changing conditions the District offices were able to determine if they felt it safe enough to host the event. Safety measures for Adopt-a-Highway volunteers included social distancing, appropriate group sizes, encouraging the usage of masks during the events. Odessa District did not have any events for FY2021, Pharr District and Beaumont District had limited participation, with other District starting to show signs of activity again.

This year our outfall mapping was conducted by TxDOT staff to finish the remaining Districts for the 5-year permit term, Odessa District and Wichita Falls District. TxDOT staff implemented COVID-19 measures that were in place for their Districts at the time.

All Phase I dry weather screening was completed prior to Year 5 FY2021.

On June 14, 2021, TxDOT’s Executive Director announced we would be returning fully to in-person operations, meaning staff would slowly be able to start conducting business as usual. However, impacts from COVID will likely linger for several more reporting terms.

### **Permit Renewal Process**

In the spring of 2021 TxDOT began the process of preparing the application for permit renewal. The permit expired November 30, 2021 and is currently administratively continued.

TxDOT submitted the permit renewal application to the TCEQ on June 2, 2021. TCEQ deemed this application would be processed as a major amendment to our current permit. At the time this report is signed, the permit application is still in the administrative review phase. TxDOT received comments from

the TCEQ on August 16, 2021, requesting additional information for the permit application. TxDOT responded on September 9, 2021. TxDOT and TCEQ met in January to discuss additional aspects of the application process and the timeframe of the remaining steps.

In the permit application, TxDOT added Brownwood District officially to the permit language (currently Brownwood District is included, but it is assumed and reported under Waco District), revised the counties, cities, zip code list, and made changes to the receiving water bodies list to reflect the additional of new discharge points/outfalls and the removal of segments that do not receive discharges from TxDOT. TxDOT also submitted updates to the Stormwater Management Program for the new permit term.

### **Accomplishments and Additional Activities Completed:**

TxDOT completed both the Year 4 and Year 5 activities for TMDL requirements and submitted it as part of the Year 4 report. It is resubmitted in this year's annual report as Attachment Q.

During Year 5 TxDOT developed new guidance documents for field staff conducting Illicit Discharge Detection and Elimination Program (IDDE) activities. These materials include a poster, a pocket guide, and a training Powerpoint. The poster has been finalized and posted to TxDOT's internal website for staff to download and print. The pocket guide has also been finalized and posted to TxDOT's internal website for staff to download and print, and was recently posted to TxDOT's external website at: <https://www.txdot.gov/inside-txdot/division/environmental/aots.html>. The training Powerpoint is still draft. The finalized poster and pocket guide are included as Attachment FF.

TxDOT began rolling out the replacement class for ENV103 (See Attachment B). ENV103 was discontinued during the pandemic as all in-person classes were cancelled. TxDOT was already in the process of developing replacement courses, ENV302 -SWP3 Applied Concepts and ENV303 – Conducting SWP3 Inspections when the pandemic hit. The draft course materials were finalized in the winter of 2020, and virtual pilot courses began in the spring of 2021, with final course contents done by the beginning of summer. To begin implementing this class, TxDOT developed a certification course called ENV304 – Stormwater Train-the-Trainer to certify TxDOT staff to teach the new ENV302 and ENV303 classes around the state. During FY2021 TxDOT certified 33 Construction Stormwater Instructors. TxDOT Construction Stormwater Instructions began scheduling the first classes during the summer of 2021 and those numbers are reported on Attachment B.

### **Summary of Stormwater Activities Planned During the Next Reporting Year:**

As discussed with TCEQ, TxDOT will continue to implement the program as described in the SWMP submitted with the permit application. We will continue outfall mapping and structural controls mapping at the districts. We will continue monitoring for illicit discharges. We will also implement our annual activities as described in our SWMP. We are also planning for the Texas Trash Off; however, with the continuing Covid pandemic participation may continue to be impacted through FY2022.

We also plan to finalize the IDDE training Powerpoint referenced above, with the goal to roll the new training out towards the end of FY2022.

## **Additional Requirements as Listed in Permit, Section IV.C.2.:**

**(a) The status of the compliance with permit conditions, an assessment of the appropriateness of the identified BMPs, progress towards achieving the statutory goal of reducing the discharge of pollutants to the MEP, the measurable goals for each of the MCMs, and an evaluation of the success of the implementation of the measurable goals;**

Responses to (a) have been detailed throughout the sections in this report.

**(b) A summary of the results of information collected and analyzed, during the reporting period, including monitoring data used to assess the success of the program at reducing the discharge of pollutants to the MEP;**

A summary of IDDE inspections and findings are included in Attachment G of this report.

**(c) Where applicable, a summary of any activities taken to address the discharge to impaired waterbodies, including any sampling results and a summary of the permittee's BMPs used to address the pollutant of concern;**

This activity is reported beginning at Attachment Q.

**(d) Progress toward reducing the discharge of the POCs to impaired waterbodies and all reporting requirements listed in Part II.D.3;**

This activity is reported beginning at Attachment Q.

**(e) A summary of the stormwater activities the permittee plans to undertake during the next reporting year;**

During the January 12, 2022, meeting, TCEQ stated that our permit is administratively continued and should operate under the SWMP submitted with the permit application. We will follow Year 1 activities for that SWMP for FY2022 reporting.

**(f) Proposed changes to the statewide SWMP, including changes to any BMPs or any identified measurable goals that apply to the program elements;**

Responses to (f) have been detailed in previous annual reports. Also see Attachment C (as applicable). No changes are planned for the SWMP for Year 5. Changes for the renewed permit term were submitted with the permit renewal application on June 2, 2021.

**(g) Description and schedule for implementation of additional BMPs that may be necessary, based on monitoring results, to ensure compliance with applicable TMDLs and implementations plans;**

This activity is reported beginning at Attachment Q.

**(h) Notice that the permittee is relying on another government entity(ies) to satisfy some of its permit obligations (if applicable);**

Not applicable.

**(i) The number of construction activities that occurred within the regulated area of the permittee;**

TxDOT let 102 construction projects under Item 506, Special Provisions 003, 004, and 005 within the regulated area during this permit year.

**(j) The number on inspections conducted at construction sites;**

TxDOT districts choose the weekly inspection interval instead of every 2 weeks and after a 0.5 inch rainfall interval. Compliance with inspection requirements of the Construction General Permit are verified by District Environmental Quality Coordinators (DEQC) through DEQC inspections. See BMP 3.3.6.

**(k) A summary describing the number and nature of enforcement actions and inspections where applicable**

In Year 5 TxDOT TCEQ conducted three investigations, both focused and comprehensive, with no violations. The following Districts were inspected:

- San Angelo
- Yoakum
- Houston

**(l) Annual expenditures for the reporting year, with a breakdown for the major elements of the SWMP, and the budget for the year (reporting year) following each annual report.**

See Attachment CC.

3. The following lists measurable goals for each of the MCMs, and an evaluation of the success of the implementation of the measurable goals:

MCM	Measurable Goal	Success		Met Goal?
1.3.1 - DMWT Program	Record the number of TV and radio ads, social media views, outdoor events, and billboards. Include costs.	Number of TV Ads:	39,949	Met Goal
		TV Ad Cost:	\$ 1,112,832	Met Goal
		Number of Radio Ads:	15,622	Met Goal
		Radio Ads Cost:	\$ 535,807	Met Goal
		Social Media Views:	57,651,090	Met Goal
		Social Media Cost:	\$ 335,286	Met Goal
		Outdoor Activities Hosted:	28	Met Goal
		Outdoor Activities Cost:	\$ 9,200	Met Goal
		Billboards:	14	Met Goal
		Billboard Cost:	\$ 110,000	Met Goal
1.3.2 - "Adopt-a-Highway" Program	Report the number of volunteers, how many miles were adopted, and volume of materials removed.	<i>Refer to District-Specific Data Sheet. Also refer to Attachment F, Compass Code 525.</i>		Met Goal
1.3.3 - "Texas Trash-Off" Program	Report the number of volunteers, events, roadway miles cleared, and the pounds of trash collected. Provide copy of Trash-off Planner.	Number of Events:	816	Met Goal
		Number of Volunteers:	11,644	Met Goal
		Number of Roadway Miles Cleared:	1,084	Met Goal
		Pounds of Trash:	1,290,000	Met Goal
		<i>Refer to Attachment A</i>		Met Goal
1.3.4-"Texas Highways Magazine"	The number of printed copies and the number of E-mails of electronic copies distributed.	Number of Printed Copies and Electronic Copies distributed:	1,902,501	Met Goal
1.3.5 - TxDOT's Webpages	Number of views from these web pages.	TxDOT Webpage Views:	2,443,196	Met Goal
		DMWT Webpage Views:	238,821	Met Goal
		ENV Webpage Views:	12,579	Met Goal
		Stormwater Webpage Views:	577	Met Goal

MCM	Measurable Goal	Success		Met Goal?
1.3.6 - Education of Construction Site Personnel	Record number of participants as well as document number of posters when provided.	<i>Refer to Attachment B</i>		Met Goal
1.3.7-Education of Herbicide Application Personnel	Record number of participants.	<i>Refer to Attachment B</i>		Met Goal
2.3.1 - Update SWMP and MCM Implementation	Provide updated SWMP.	<i>Refer to Attachment C</i>		Met Goal
2.3.2 - Update List of Allowable Non-Stormwater Discharges	Provide updated List in SWMP.	<i>Refer to Attachment D</i>		Met Goal
2.3.3-MS4 Areas Mapping	Update MS4 maps to include 20 percent of new mapped outfalls, relocated outfalls, and deleted outfalls.	<i>Refer to Attachment E. An interactive map of the data can be found on-line at <a href="http://www.txdot.gov/inside-txdot/division/environmental/aots.html">http://www.txdot.gov/inside-txdot/division/environmental/aots.html</a></i>		Met Goal
2.3.4-Education and Training	Record the number of participants for each training class.	<i>Refer to Attachment B</i>		Met Goal
2.3.5 - Public Reporting of Illicit Discharges and Spills	Report the number calls and complaint forms received from the DMWTW reporting system and the TxDOT Stormwater Webpage complaint page.	Report the number calls and complaint forms received:	4	Met Goal
2.3.6-Spill Prevention and Response	Report the number spills responded to. Compass Function Codes 520, 830.	<i>Refer to Attachment F</i>		Met Goal

MCM	Measurable Goal	Success		Met Goal?
2.3.7-Source Investigation and Elimination	Provide a list of illicit discharges/illicit connections detected. Summarize and report all follow-up actions resulting from screening to include identified RP and cost.	<i>Refer to Attachment G</i>		Met Goal
2.3.8-Inspections	Report the number inspections performed and provide a summary, if available, of the RP, cost, and enforcement.	<i>Refer to Attachment G</i>		Met Goal
2.3.9.a - Overflows and Infiltration	Report the number utility permits issued.	<i>Refer to District-Specific Data Sheet</i>		Met Goal
2.3.9.b - List of Dischargers	Update list of dischargers, as necessary.	<i>Refer to Attachment H</i>		Met Goal
2.3.9.c - Hazardous Waste and Used Motor Vehicle Fluids	Report the number of promotions, the type of promotion and the intended audience in the annual report.	<i>Refer to District-Specific Data Sheet and Attachment I</i>		Met Goal
2.3.9.d -Identification of Priority Areas	Update list of priority areas, as necessary.	<i>Refer to Attachment J</i>		Met Goal
2.3.9.e. - Dry Weather Inspections	2.3.9.e. Screen 20 percent of the previously permitted Phase I areas and report the number of dry weather inspections performed.	Number of Dry Weather Inspections:	0	Met Goal
2.3.9.f - Wet Weather Program	Include the Wet Weather Analysis in the fourth reporting year annual report.	<i>To be reported in Year 4. Refer to Attachment K</i>		Met Goal

MCM	Measurable Goal	Success	Met Goal?
2.3.10.a-Spill Prevention and Response	Continue to implement and improve, as necessary, programs that prevent, contain, and respond to spills that may discharge into the MS4. Compass Function Codes 520, 830.	<i>Refer to Attachment F</i>	Met Goal
2.3.10.b-Agency coordination	Report any agency coordination conducted during the reporting year in the annual report.	<i>Refer to Attachment L</i>	Met Goal
3.3.1-Program Development	All new elements and elements in newly regulated Phase II areas completed will be included in the annual report.	All elements are being implemented in each of the applicable BMPs.	Met Goal
3.3.2-SWMP Update	Review and update as necessary, the SWMP and MCM implementation procedures.	<i>Refer to Attachment C</i>	Met Goal
3.3.3-Erosion and Sediment Control	Report the number of Forms 2448 for all other sites, obtained during the permit year.	<i>Refer to District-Specific Data Sheet</i>	Met Goal
3.3.4 - Prohibited Discharges	If changes are made to the list, those changes will be included in the current reporting year annual report.	<i>Refer to Attachment M</i>	N/A
3.3.5-Construction Plan Review Procedures	Report the number of pre-construction meetings completed during the permit year.	<i>Refer to District-Specific Data Sheet</i>	Met Goal
3.3.6-Construction Site Inspections and Enforcement	Report the number of Forms 2448 obtained during the permit year.	<i>Refer to District-Specific Data Sheet</i>	Met Goal

MCM	Measurable Goal	Success	Met Goal?
3.3.7-Information submitted by the Public	Report the number construction calls and complaint forms received during the reporting year.	<i>Refer to District-Specific Data Sheet</i>	Met Goal
3.3.8-MS4 Staff Training	Report the number of TxDOT staff and contractors that participated in Special Provision 506-003, Section 506.3.3 for the CRPE, CRPE Alternate, Contractor Superintendent, etc, and EMS training modules during the reporting year.	<i>Refer to Attachment B</i>	Met Goal
3.3.9.a - List of Sites	Maintain a current list of Non-TxDOT construction sites active during the permit year, including the name, location, and permit number of the discharges that have been authorized under an NPDES or TPDES stormwater discharge permit.	<i>Refer to District-Specific Data Sheet and Attachment N</i>	Met Goal
3.3.9.b - Education and Training	Education and training of construction site operators.	<i>Refer to Attachment B</i>	Met Goal
4.3.1-Program Development	Implement all applicable new elements and all applicable elements in newly regulated Phase II MS4 areas by the end of the current permit term.	All elements are being implemented in each of the applicable BMPs.	Met Goal
4.3.2 -Ordinances and Other Regulatory Mechanisms	Report any changes to current regulatory mechanisms, if made.	<i>Refer to Attachment O</i>	N/A
4.3.3 - SWMP Update	Review and update as necessary, the SWMP and MCM implementation procedures	<i>Refer to Attachment C</i>	Met Goal

MCM	Measurable Goal	Success		Met Goal?
4.3.4 -Documentation and Records	Retain all associated records for at least three years after coverage under this permit terminates.	Records Are Available.		Met Goal
4.3.5-Long-term Operation and Maintenance	Amount of maintenance activities performed on post construction controls.	<i>Refer to District-Specific Data Sheet</i>		Met Goal
5.3.1-Program Development	Implement all applicable new elements and all applicable elements in newly regulated Phase II MS4 areas by the end of the current permit term.	All elements are being implemented in each of the applicable BMPs.		Met Goal
5.3.2.a - TxDOT- Owned Facilities and Control Inventory	Log the number of inspections completed during the permit year in the annual report.	Number of Inspections:	15	Met Goal
5.3.2.b - TxDOT- Owned Facilities and Control Inventory	Include the number of inspections completed during the permit year in the annual report.	Number of Inspections:	15	Met Goal
5.3.2.c.-TxDOT- Owned Facilities and Control Inventory	Map/locate permanent structural controls. Perform mapping of 5 districts per year. Include updated map in the annual report.	<i>Refer to Attachment P.            An interactive map of the data can be found on-line at  <a href="http://www.txdot.gov/inside-txdot/division/environmental/aots.html">http://www.txdot.gov/inside-txdot/division/environmental/aots.html</a></i>		Met Goal
5.3.2.d.-TxDOT- Owned Facilities and Control Inventory	Report the number of facility inspections in the annual report. Volume of spoil, sediment, and trash in Compass Codes 520, 521, 522, 523, 524, 527, 561, 562, 563, 570, and 620.	Number of Inspections:	15	Met Goal
		<i>Refer to Attachment F</i>		Met Goal

MCM	Measurable Goal	Success	Met Goal?
5.3.3-Training and Education	Record the number of TxDOT staff and contractor participants for each training class.	<i>Refer to Attachment B</i>	Met Goal
5.3.4-Disposal of Waste Material	Report the cost and volumes from Compass Data. Compass Function Codes: 511, 513, 830, 831.	<i>Refer to Attachment F</i>	Met Goal
5.3.5-Contractor Requirements and Oversight	Report the number of utility permit requests received from contractors during the permit year in the annual report. Any issues relayed to contractor operations will also be included, as necessary, in the annual report.	<i>Refer to District-Specific Data Sheet</i>	Met Goal
5.3.6.a-Roadway Operation and Maintenance Activities	Report the costs, number of acres mowed and chemical controls used during the permit year and include in the annual report. Compass Function Codes 511, 513, 541 and 545.	<i>Refer to Attachment F</i>	Met Goal
5.3.6.b-Roadway Operation and Maintenance Activities	Report the costs and cubic yards of ditches cleaned during the permit year and include in the annual report. Compass Function Codes 561.	<i>Refer to Attachment F</i>	Met Goal
5.3.6.c-Roadway Operation and Maintenance Activities	Report the pesticide herbicide cost from Compass Function Codes 548, 551, 552 and 540.	<i>Refer to Attachment F</i>	Met Goal

MCM	Measurable Goal	Success		Met Goal?
5.3.6.d-Roadway Operation and Maintenance Activities	Report the number of inspections performed	Number of Inspections:	15	Met Goal
5.3.6.e-Roadway Operation and Maintenance Activities	Report the number of inspections performed	Number of Inspections:	15	Met Goal
5.3.7.a- Structural Control Maintenance	The number of inspections completed, and the cost of trash and debris removed, if available, from permanent structural controls during the permit year, in Compass Codes 520, 521, 522, 523, 524, 572, 561, 562, 563, 570, and 620.	Number of Inspections:	15	Met Goal
		<i>See Attachment F</i>		Met Goal
5.3.7.b- Structural Control Maintenance	Map/locate permanent structural controls, such as detention/irrigation ponds, hazardous waste traps, sand filter traps, infiltration ponds, or catch basins	<i>Refer to Attachment P. An interactive map of the data can be found on-line at <a href="http://www.txdot.gov/inside-txdot/division/environmental/aots.html">http://www.txdot.gov/inside-txdot/division/environmental/aots.html</a></i>		Met Goal
5.3.7.c- Structural Control Maintenance	The volume, quantity and cost of spoil, sediment and trash removed, in Compass Codes 520, 521, 522, 523, 524, 527, 561, 562, 563, 570, and 620.	<i>Refer to Attachment F</i>		Met Goal

MCM	Measurable Goal	Success	Met Goal?
5.3.7.d- Structural Control Maintenance	The number of miles mowed during the permit year.	Reported in Section 5.3.6.a	Met Goal
5.3.7.e- Structural Control Maintenance	The miles of ditches cleaned during the permit year.	Reported in Section 5.3.6.b	Met Goal
5.3.8a- Pesticide, Herbicide, and Fertilizer Application and Management	Landscape maintenance. Report the number of miles mowed during the permit year.	Reported in Section 5.3.6.a	Met Goal
5.3.8b- Pesticide, Herbicide, and Fertilizer Application and Management	Report employees trained.	Reported in Section 5.3.3	Met Goal
5.3.8c- Pesticide, Herbicide, and Fertilizer Application and Management	Report implementation of controls to reduce the discharge of pollutants related to the storage and application of pesticides, herbicides, and fertilizers.	Reported in Section 5.3.6.c	Met Goal

MCM	Measurable Goal	Success		Met Goal?
5.3.8d- Pesticide, Herbicide, and Fertilizer Application and Management	Report collection and disposal of unused pesticides, herbicides, and fertilizers.	Reported in Section 5.3.6.c		Met Goal
6.3.1-Dry Weather Screening	Report on screening of the Phase I areas to detect the presence of illicit connections and improper discharges from adjacent MS4s and illegal third parties discharges to the MS4.	Reported in Section 2.3.9		Met Goal
6.3.2-Evaluation of Water Quality	In Year 4, evaluate the listed watersheds using existing stormwater characterization data collected by reliable sources such as TCEQ, local river authorities, partnerships, and/or other local efforts as appropriate.	Reported in Section 2.3.9		Met Goal
6.3.3-Floatables	Report implementation of statewide programs including the "Don't Mess with Texas" campaign, the "Adopt-a-Highway" program, and street sweeping to reduce the discharge of floatables into the statewide MS4.	Reported in Sections 1.3.1, 1.3.2, 1.3.3, 5.3.4, 5.3.6, and 5.3.7		Met Goal
7.3.1 -Discharges to Water Quality Impaired Water Bodies with an Approved TMDL	If the assessment indicates that TxDOT's operations may potentially contribute as a source of an adopted TMDL POC, TxDOT will implement appropriate BMPs and include in the annual report those impaired water bodies and POCs identified.	<i>Refer to Attachment Q</i>	Contributes: No	Met Goal

MCM	Measurable Goal	Success		Met Goal?
7.3.1.1 -Targeted Controls	TxDOT will identify areas of focused effort or identify additional BMPs that will be implemented to reduce the POCs in the impaired waters.	<i>Refer to Attachment R</i>	Developed: N/A	Met Goal
7.3.1.2 - Measurable Goals	For each targeted control, TxDOT will include a measurable goal and an implementation schedule describing BMPs to be implemented during each year of the permit term.		Developed: N/A	Met Goal
7.3.1.3 - Identification of Benchmarks	TxDOT will identify a benchmark goal (see Table 7.2) for the identified POC based on the watershed and TxDOT's district locations with one of the options provided in Section 7.3.1.3a), b), c), or d) options.	<i>Refer to Attachment U</i>	Selection and Implementation is Reported: N/A	Met Goal
7.3.1.4 - Statewide Annual Report	Conduct an analysis of how the selected BMPs will be effective in contributing to achieving the benchmark goal. Include analysis in annual report.		Conducted: N/A	Met Goal
		Included: N/A	Met Goal	
7.3.1.5- Impairment for Bacteria	TxDOT has addressed the potential sources and will provide a summary of its findings in the annual report.	<i>Refer to Attachment V</i>	Evaluated: N/A	Met Goal

MCM	Measurable Goal	Success		Met Goal?
7.3.1.6- Monitoring or Assessment of Progress	Include documentation of this monitoring or assessment in the annual reports.	<i>Refer to Attachment W</i>	<i>Included: N/A</i>	Met Goal
7.3.1.7- Observing no Progress Toward the Benchmark Goal	These revised BMPs will be included in the SWMP and subsequent annual reports.	<i>Refer to Attachment X</i>	<i>Included: N/A</i>	Met Goal
7.3.2-Discharges Directly to Water Quality Impaired Water Bodies Without an Approved TMDL	If TxDOT discharges directly into an impaired water body without an approved TMDL, TxDOT will perform the following activities for the areas of the MS4. Update Table 7.3.	<i>Discharges into Water Bodies:</i> Yes		Met Goal
		<i>Refer to Attachment Q</i>		
7.3.2.1- Discharging a Pollutant of Concern	Determining if discharges from the MS4 would be likely to contain the POCs at levels of concern.	<i>Refer to Attachment Y</i>		Met Goal
	Ensure that the SWMP includes focused BMPs, along with corresponding measurable goals, that TxDOT will implement.	<i>To be Reported in Year 3.</i> <i>Refer to Attachment Y</i>		Met Goal
	Submit notification of any additional BMPs to address the POCs to TCEQ.	<i>To be Reported in Year 4.</i> <i>Refer to Attachment Y</i>		Met Goal

MCM	Measurable Goal	Success	Met Goal?
7.3.2.2- Impairment of Bacteria	TxDOT has addressed the potential sources and will provide a summary of its findings in the annual report.	<p><i>Reported in Year 4.</i></p> <p><i>Refer to Attachment Z</i></p>	Met Goal
7.3.2.3-Annual Report	Submit notification of any additional BMPs to address the POCs to TCEQ.	<p><i>Refer to Attachment AA</i></p>	Met Goal
8.3.1 - TxDOT Agency Approved WPAPs	Submit a list of agency-approved WPAPs in the annual report for the respective permit year.	<p><i>Refer to Attachment BB</i></p>	Met Goal
9.1 -Expenditures	Develop the cost of expenditures representative of the funding spent on the stormwater management program. Include the expenditures in the annual report.	<p><i>Refer to Attachment CC</i></p>	Met Goal
10.1 - Point of Discharge Mapping	Map points of discharge from the MS4 area that were not submitted with the TxDOT MS4 permit application received by TCEQ on March 18, 2013. Completion of 20 percent per year. Submit updated maps with the annual report.	<p><i>Refer to Attachment DD.</i></p> <p><i>An interactive map of the data can be found on-line at</i></p> <p><i><a href="http://www.txdot.gov/inside-txdot/division/environmental/aots.html">http://www.txdot.gov/inside-txdot/division/environmental/aots.html</a></i></p>	Met Goal
10.2 - Major Structural Control Mapping	Map the location of major structural controls for stormwater discharge, including detention/retention ponds, major infiltration devices, etc. Completion of 20 percent per year. Submit updated maps with the annual report.	<p><i>Refer to Attachment EE.</i></p> <p><i>An interactive map of the data can be found on-line at</i></p> <p><i><a href="http://www.txdot.gov/inside-txdot/division/environmental/aots.html">http://www.txdot.gov/inside-txdot/division/environmental/aots.html</a></i></p>	Met Goal

# District-Specific Data

BMP	Measurable Goal	Abilene	Amarillo	Atlanta	Austin	Beaumont	Bryan	Corpus Christi	Dallas	El Paso	Fort Worth	Houston	Laredo	Lubbock	Odessa	Paris	Pharr	San Angelo	San Antonio	Tyler	Waco	Wichita Falls	Yoakum	Totals	
1.3.2-"Adopt-a-Highway" Program	Number of Volunteers	72	139	410	260	1	579	244	33	890	1680	171	23	374	0	99	38	331	2440	258	342	254	556	9,194	
	Number of Miles Adopted	56	14	82	78	2	60	26	14	130	158	26	4	46	0	22	4	58	320	34	48	22	78	1,282	
	Volume Materials Removed (lbs)	14040	6260	15920	23580	20	16240	6720	1300	21640	29680	3400	880	5240	0	3020	500	12720	88580	8480	8440	5360	16980	289,000	
2.3.3-MS4 Areas Mapping	Provide updated map displaying surface waters receiving discharges.	Refer to Attachment E																							
2.3.6-Spill Prevention and Response	Report the number spills responded to. Compass Function Codes 520, 830.	Refer to Attachment F																							
2.3.7-Source Investigation and Elimination	Provide a list of illicit discharges/illicit connections detected. Summarize and report all follow-up actions resulting from screening to include identified RP and cost.	Refer to Attachment G																							
2.3.8-IDDE Inspections	Report the number inspections performed and provide a summary, if available, of the RP, cost, and enforcement.	Refer to Attachment G																							
	Illicit Flow Upstream Number of Inspections.	1	0	0	0	0	0	1	0	131	0	46	0	1	1	4	0	4	0	4	0	0	0	0	193
2.3.9.a-Overflows and Infiltration	Report the number of utility permits issued.	151	8		922	67		113	661	12	646	1,072	4	119					2,270		43				6,088
2.3.9.b-List of Dischargers	Changes will be included in the current reporting year annual report.	Refer to Attachment H																							
2.3.9.c-Hazardous Waste and Used Motor Vehicle Fluids	Number of Promotions	0	0		0	0		0	0	0	4	0	0	0					0		2				6
	Report the type of promotion and the intended audience.	Refer to Attachment I																							

BMP	Measurable Goal	Abilene	Amarillo	Atlanta	Austin	Beaumont	Bryan	Corpus Christi	Dallas	El Paso	Fort Worth	Houston	Laredo	Lubbock	Odessa	Paris	Pharr	San Angelo	San Antonio	Tyler	Waco	Wichita Falls	Yoakum	Totals
2.3.9.d-Identification of Priority Areas	Update list, report if changes are made.	<i>Refer to Attachment J</i>																						
2.3.10.a-Spill Prevention and Response	Continue to implement and improve, as necessary, programs that prevent, contain, and respond to spills that may discharge into the MS4. Compass Function Codes 520, 830.	<i>Refer to Attachment F</i>																						
2.3.10.b-Agency coordination	Report any agency coordination conducted during the reporting year in the annual report.	<i>Refer to Attachment L</i>																						
3.3.3-Erosion and Sediment Control	Report the number of Form 2448 for all sites, obtained during the permit year.	4	6	1	21	9	4	6	51	23	14	35	2	6	7	9	19	1	27	5	9	7	8	274
3.3.5-Construction Plan Review Procedures	Report the number of pre-construction meetings obtained during the permit year.	3	4	1	9	3	3	4	11	7	4	15	0	2	7	1	3	1	13	1	5	3	2	102
3.3.6-Construction Site Inspections and Enforcement	Report the number of forms 2448 obtained during the permit year.	4	6	1	21	9	4	6	51	23	14	35	2	6	7	9	19	1	27	5	9	7	8	274
3.3.7-Information submitted by the Public	Report the number construction calls and complaint forms received during the reporting year.	41	73	0	53	0	0	0	0	47	0	6	0	0	0	0	252	0	0	0	0	0	0	472

BMP	Measurable Goal	Abilene	Amarillo	Atlanta	Austin	Beaumont	Bryan	Corpus Christi	Dallas	El Paso	Fort Worth	Houston	Laredo	Lubbock	Odessa	Paris	Pharr	San Angelo	San Antonio	Tyler	Waco	Wichita Falls	Yoakum	Totals
3.3.8-MS4 Staff Training	Report the number of contractors that participated in Special Provision 506-003, Section 506.3.3 for the CRPE, CRPE Alternate, Contractor Superintendent, etc, and EMS training modules during the reporting year.	<i>Refer to Attachment B</i>																						
3.3.9.a- List of Sites	Report current list of non-TxDOT construction sites active during the permit year, including the name, location, and permit number of the discharges that have been authorized under an NPDES or TPDES stormwater discharge permit.	<i>Districts affirm immediately below if they have received non-TxDOT NOIs during the permit year. For NOIs and/or lists of projects, refer to Attachment N</i>																						
	Received non-TxDOT NOIs?	None	None		Yes	None		None	Yes	None	Yes	Yes	None	None					Yes		Yes			
4.3.4-Documentation and Records	Make records available for review by the TCEQ.	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
4.3.5-Long-term Operation and Maintenance	Amount of maintenance activities performed on post construction controls.	\$ -	\$ 42,258	\$ -	\$ 176,375	\$ -	\$ -	\$ -	\$ 1,195,603	\$ 1,895,961	\$ 6,524,131	\$ 5,464,842	\$ -	\$ 267,253	\$ -	\$ -	\$ 111,410	\$ 781,492	\$ 328,011	\$ -	\$ -	\$ -	\$ 271,894	\$ 17,059,229
5.3.2.d.-TxDOT-Owned Facilities and Control Inventory	Report the number of facility inspections in the annual report. Volume of spoil, sediment, and trash in Compass Codes 520, 521, 523, 524, 561, 570.	<i>Refer to Narrative Provisions and Attachment F</i>																						
5.3.4-Disposal of Waste Material	Report the cost and volumes from Compass Data. Compass Function Codes: 511, 513, 830, 831.	<i>Refer to Attachment F</i>																						

BMP	Measurable Goal	Abilene	Amarillo	Atlanta	Austin	Beaumont	Bryan	Corpus Christi	Dallas	El Paso	Fort Worth	Houston	Laredo	Lubbock	Odessa	Paris	Pharr	San Angelo	San Antonio	Tyler	Waco	Wichita Falls	Yoakum	Totals
5.3.5-Contractor Requirements and Oversight	Report the number of utility permit requests received from contractors during the permit year.	152	165	81	922	153	80	173	2676	486	1756	2586	74	119	84	156	2048	63	2547	41	139	112	25	14,638
5.3.6.a-Roadway Operation and Maintenance Activities	Report the costs, number of acres mowed and chemical controls used during the permit year and include in the annual report. Compass Function Codes 511, 513, 541 and 545.	<i>Refer to Attachment F</i>																						
5.3.6.b-Roadway Operation and Maintenance Activities	Report the costs and cubic yards of ditches cleaned during the permit year and include in the annual report. Compass Function Codes 561.	<i>Refer to Attachment F</i>																						
5.3.6.c-Roadway Operation and Maintenance Activities	Report the pesticide herbicide cost from Compass Function Codes 548 and 540.	<i>Refer to Attachment F</i>																						
5.3.7.a- Structural Control Maintenance	The number of inspections completed, and the cost of trash and debris removed, if available, from permanent structural controls during the permit year, in Compass Codes 520, 521, 523, 524, 561, 570.	<i>Refer to Narrative Provisions and Attachment F</i>																						
5.3.7.c- Structural Control Maintenance	The volume, quantity and cost of spoil, sediment and trash removed, in Compass Codes 520, 521, 523, 524, 561, 570.	<i>Refer to Attachment F</i>																						
8.3.1-TxDOT Agency Approved WPAPs	Submit a list of agency-approved WPAPs for the respective permit year.	<i>Refer to Attachment CC</i>																						

# **Attachment A**

**Provide Copy of Trash-Off Planner (Appendix to BMP 1.3.3)**



## COVID-19 Guidelines

For the safety of all Adopt-a-Highway volunteers we ask all districts to communicate with groups about the importance of following COVID safety guidelines.

This includes:

- **Social distancing**
- **Appropriate group size**
- **Wearing masks**

Please confirm with your DE as the date arrives that pickups are approved to continue in your district based on COVID cases in your county.

Confirmed cases per county can be found on the Texas Health and Human Services website:

<https://dshs.texas.gov/coronavirus/cases.aspx>

Originally called the Great Texas Trash-Off, the Don't mess with Texas® Trash-Off began in 1986 as a call to action to refrain from littering on one designated day. The program soon became incorporated into the Don't mess with Texas campaign to encourage Adopt-a-Highway volunteers and citizens to participate in litter pickups statewide. In 1993, Keep Texas Beautiful officially joined Adopt-a-Highway volunteers. The Don't mess with Texas Trash-Off is the signature state event for the annual Keep America Beautiful Great American Cleanup.

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## Overview

**The official Trash-Off date is Saturday, April 10th, 2021 but pickups throughout April count towards Trash-Off.**

The planner is to help you promote and organize the Don't mess with Texas Trash-Off with Adopt-a-Highway volunteers. In addition to the planner, each Adopt-a-Highway coordinator will receive creative to send out:

- **Participation Card** – Send to AAH groups to confirm their participation in Trash-Off
- **Report Card** – Send to groups to fill out and return with their pickup information

TxDOT Public Information Officers will receive a copy of the planner to support promotion and media relations.

Trash-Off is open to anyone interested in keeping Texas a beautiful place to live. If a volunteer does

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not want to participate in the Adopt-a-Highway program, they can find a local event with a Keep Texas Beautiful affiliate:

<https://www.ktb.org/dmwtto>

## Social Media

Encourage volunteers to post about their experience on social media.

**#TrashOff2021** and **#DontmesswithTexas**

### Don't mess with Texas

 @dmwtprogram  
 @DMWT\_Program  
 @dontmesstexas

### Keep Texas Beautiful

 @KeepTxBeautiful  
 @KeepTxBeautiful  
 @keeptxbeautiful

# Don't mess with Texas® Trash-Off Timeline

## February/ Early March 2021

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Coordinators email/mail Participation notifications to their volunteer groups

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Coordinators check on supply amounts for trash bags, safety vests and orange safety signs. Order more supplies if needed. Availability of signs varies by district

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## March 2021

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3/1/2021 – 4/9/2021 Coordinators and PIOs promote of Trash-Off and contact local KTB affiliates if applicable. TxDOT and KTB can also partner together on media outreach efforts.

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3/1/2021 – 3/26/2021 Check on supply amounts. Trash-Off supply information is sent to maintenance offices.

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3/15/2021 – 3/19/2021 Optional: Coordinators email participation reminder to AAH volunteer and groups.

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## April 2021

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4/5/2021 – 4/9/2021 Maintenance offices distribute supplies to volunteer groups: bags, vests and Trash-Off report cards

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PIOs perform outreach to local media

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### **4/10/2021**

### **Don't mess with Texas Trash-Off.**

4/10/2021 – 4/30/2021 Send TRV high quality photos and/or media coverage

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4/12/2021 – 4/30/2021 Volunteer groups return their report card with number of volunteers and bags collected

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## May 2021

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5/3/2021 – 5/15/2021 Coordinators collect additional pickup numbers from maintenance offices

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5/29/2021 Submit total number of groups, volunteers and bags by county to Travel Division

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## Trash-Off Information for Coordinators

- 1. Check timeline:** The timeline outlines the “big picture” for the Trash-Off. This timeline is for your reference and should be modified to meet your needs.
- 2. Send volunteer participation card or email:** If you are using hard copies, add your return address to the participation postcards, seal them with tape, and send them to your volunteer groups.

The volunteer card will:

- Inform groups about the Trash-Off
- Remind groups to register for participation
- Provide a reply postcard to be mailed back to you

- 3. Send reminder email:** Groups interested in participating in the Trash-Off may not have responded to you. A reminder to these groups will increase local participation. This is optional as it’s email only.

- 4. Contact maintenance coordinators.**

They will need to know:

- How many groups/ when groups are participating
- Number of supplies needed
- When offices should plan to receive and distribute supplies

Supplies include:

- AAH trash bags
- Trash-Off report cards
- Safety vests
- Safety signs

- 5. Participate in the **Don’t mess with Texas Trash-Off on April 10, 2021.****

- 6. Contact maintenance offices:**

- Number of groups
- Number of volunteers
- Number of bags collected

- 7. Submit total numbers, including groups, volunteer and bags numbers broken down by county to TRV by end of May.**

- 8. Send thank-you letters:** Once all the Trash-Off results are final, you are encouraged to send thank you letters and/or certificates to your volunteer groups.

### Supply Information

- Safety vests: DHT #165737, NIGP 345-92-44-0407
- AAH Trash bags: DHT# 165737, NIGP 665-72-22-5028

## Adopt-a-Highway Coordinators Contact List

District	Coordinator	Email	Phone
<b>ABL – Abilene</b>	Ann Maher	Ann.Maher@txdot.gov	(325) 676-6800
<b>AMA – Amarillo</b>	April Meyer	Casie.Chavez@txdot.gov	(806) 356-3221
<b>ATL – Atlanta</b>	Stephanie Fahrney	Stephanie.Fahrney@txdot.gov	(903) 799-1202
<b>AUS – Austin</b>	Christopher Bishop	Christopher.Bishop@txdot.gov	(512) 832-7110
<b>BMT – Beaumont</b>	Marsha Hinson	Marsha.Hinson@txdot.gov	(409) 898-5715
<b>BWD – Brownwood</b>	Lisa Tipton	Lisa.Tipton@txdot.gov	(325) 643-0413
<b>BRY – Bryan</b>	Jenea Martin	Jenea.Martin@txdot.gov	(979) 778-9645
<b>CHS – Childress</b>	Ginger Wilson	Ginger.Wilson@txdot.gov	(940) 937-7288
<b>CRP – Corpus Christi</b>	Omar Garcia	Omar.Garcia@txdot.gov	(361) 808-2393
<b>DAL – Dallas</b>	Phillip Staton	Phillip.Staton@txdot.gov	(214) 320-4414
<b>ELP – El Paso</b>	Josie Aguilar-Crosby	Josie.AguilarCrosby@txdot.gov	(915) 790-4204
<b>FTW – Fort Worth</b>	Christine Jones	Christine.Jones@txdot.gov	(817) 370-6500
<b>HOU – Houston</b>	Ieshia Deal	Ieshia.Deal@txdot.gov	(713) 802-5552
<b>LRD – Laredo</b>	Lydia Segovia	Lydia.Segovia@txdot.gov	(956) 712-7471
<b>LBB – Lubbock</b>	Carolyn Craddick	Carolyn.Craddick@txdot.gov	(806) 748-4443
<b>LFK – Lufkin</b>	Shelley Reynolds	Shelley.Reynolds@txdot.gov	(936) 633-4321
<b>ODA – Odessa</b>	Gene Powell	Gene.Powell@txdot.gov	(432) 498-4746
<b>PAR – Paris</b>	Renee Coston	Renee.Coston@txdot.gov	(903) 737-9352
<b>PHR – Pharr</b>	Yvonne Hernandez	Yvonne.Hernandez@txdot.gov	(956) 702-6132
<b>SJT – San Angelo</b>	James Whitlock	James.Whitlock@txdot.gov	(325) 947-9271
<b>SAT – San Antonio</b>	Melanie McBride	Melanie.McBride@txdot.gov	(210) 615-6430
<b>TYL – Tyler</b>	Jenny Bien	Jenny.Bien@txdot.gov	(903) 510-9261
<b>WAC – Waco</b>	Betsy Pittman	Betsy.Pittman@txdot.gov	(254) 867-2726
<b>WFS – Wichita Falls</b>	Christopher Peters	Christopher.Peters@txdot.gov	(940) 322-1634
<b>YKM – Yoakum</b>	Karen Ashley	Karen.Ashley@txdot.gov	(361) 293-4300
<b>Statewide (TRV)</b>	Catherine Cromer	Catherine.Cromer@txdot.gov	(512) 486-5912

## Public Information Officers Contact List

### Headquarters

Media Relations	(512) 463-8700
Veronica Beyer	(512) 463-8954
Mark Cross	(512) 475-0942
Adam Hammons	(512) 463-2406
Ryan LaFontaine	(512) 936-1906
Karina Valley	(512) 475-1787

### Abilene

Tanya Brown	(325) 676-6817
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### Amarillo

Sonja Gross	(806) 356-3256
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### Atlanta

Marcus Sandifer	(903) 799-1306
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### Austin

Chris Bishop	(512) 832-7110
Diann Hodges	(512) 832-7027
Brad Wheelis	(512) 832-7060

### Beaumont

Sarah Dupre	(409) 898-5745
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### Brownwood

Lisa Tipton	(325) 643-0413
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### Bryan

Bob Colwell	(979) 778-9764
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### Childress

Ginger Wilson	(940) 937-7288
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### Corpus Christi

Rickey Dailey	(361) 808-2544
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### Dallas

Tony Hartzel	(214) 320-4481
Danielle Boyd	(214) 320-4480
Emily McCann	(214) 320-4485
Laura Weaver	(214) 320-4404
Lisa Walzl	(214) 320-4403
Patricia Clarke	(214) 320-4483

### El Paso

Jennifer Wright	(915) 790-4340
Lauren Macias-Cervantes	(915) 790-4341

### Fort Worth

Shawna Russell	(817) 370-6737
Bethany Kurtz	(817) 370-6744
Val Lopez	(817) 370-6630
Michael Peters	(817) 370-6846

### Houston

Raquelle Lewis	(713) 802-5071
Kristina Hadley	(713) 802-5076
Danny Perez	(713) 802-5077
Deidrea George	(713) 802-5072
Emily Black	(713) 802-5022

### Laredo

Raul Leal	(956) 712-7416
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### Lubbock

Dianah Ascencio	(806) 748-4472
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### Lufkin

Rhonda Oaks	(936) 633-4395
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### Odessa

Gene Powell	(432) 498-4746
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### Paris

Tim McAlavy	(903) 737-9213
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### Pharr

Octavio Saenz	(956) 702-6102
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### San Angelo

Karen Threlkeld	(325) 947-9205
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### San Antonio

Laura Lopez	(210) 615-5839
Jennifer Serold	(210) 615-5932

### Tyler

Kathi White	(903) 510-9267
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### Waco

Jake Smith	(254) 867-2836
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### Wichita Falls

Adèle Lewis	(940) 720-7728
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### Yoakum

Lucean Kuekendall	(361) 293-4436
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## Keep Texas Beautiful Affiliates

### Keep Abilene Beautiful

Katherine Beeman  
[katherine.beeman@abilenetx.gov](mailto:katherine.beeman@abilenetx.gov)

### Keep Alice Beautiful

Yolanda Bueno  
[yolanda.bueno@gmail.com](mailto:yolanda.bueno@gmail.com)

### Keep Allen Beautiful

Josue Diaz  
[jdiaz@cityofallen.org](mailto:jdiaz@cityofallen.org)

### Keep Alpine Beautiful

Adelina Beall  
[environmental.services@ci.alpine.tx.us](mailto:environmental.services@ci.alpine.tx.us)

### Keep Alton Beautiful

Daniel Tijerina  
[daniel.tijerina@alton-tx.gov](mailto:daniel.tijerina@alton-tx.gov)

### Keep Alvin Beautiful

Alice Sloan  
[apsloan@sbcglobal.net](mailto:apsloan@sbcglobal.net)

### Keep Andrews Beautiful

Michael Rosales  
[mrosales@cityofandrews.org](mailto:mrosales@cityofandrews.org)

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## Safety Tips

The Adopt-a-highway Safety video is available on the [Don't mess with Texas Youtube](#) for viewing.

### **Volunteers Must:**

- Be provided and use an orange traffic control sign during a cleanup
- Wear an ANSI safety vest during cleanups
- Park all vehicles off the roadway
- Wear appropriate clothing such as closed toed-shoes, gloves and long pants
- Know emergency procedures and the location of the nearest emergency facility
- Be aware of their surroundings and potential hazards, such as traffic, animals and animal hiding spots, poison ivy and other dangers
- Be aware of weather conditions and prepare appropriately, such as providing water and wearing sunscreen
- Provide adequate supervision to minors. Minors over 15 years should have at least one adult present. Minors 7-14 should have one adult for every three children

### **Volunteers should not:**

- Pick up hazardous materials, such as needles, sharp objects, animals or any health-related materials
- Move large objects such as car parts, household appliances or other large materials
- Bring pets to events
- Pickup during inclement weather
- Pickup on construction sites
- Pickup up items on steep slopes, trenches, railroad tracks, bridges or overpasses
- Enter the roadway or shoulder
- Possess or consume alcoholic beverages or illegal drugs while on the adopted section

A full list of safety tips and program guidelines is available on [www.txdot.gov](http://www.txdot.gov)

## COVID Procedures

Prevent the Spread: The 3Ws

- **Watch Your Distance**
- **Wear a Face Cover**
- **Wash Your Hands**  
(Or have hand-sanitizer available)

## Talking Points

- The Don't mess with Texas Trash-Off is the single largest one-day cleanup event in the state and serves as Texas's signature event for the Keep America Beautiful Great American Cleanup.
- The Trash-Off is a part of TxDOT's litter prevention efforts. Department programs include Don't mess with Texas, Adopt-a-Highway and a grassroots partnership with Keep Texas Beautiful.
- Adopt-a-Highway volunteers remove litter from state-maintained roadways while community volunteers organized by Keep Texas Beautiful clean city streets, parks and other public areas.
- KTB has nearly 300 affiliates and Adopt-a-Highway has approximately 3,500 groups statewide.
- Drivers are encouraged to slow down and pay attention to volunteers that are out picking up trash on April 10th.
- Litter caused by Personal Protective Equipment, or PPE, is a growing problem that is hazardous to both the environment and public health. The only way to safely dispose of used facemasks, gloves and sanitizing wipes is in a trash can – just like any other litter.
- Litter on the roads is unsightly and can be a safety hazard. Other benefits from litter prevention efforts include:
  - Safeguards our environment
  - Creates a clean and welcoming community
  - Enhances community image
  - Promotes community involvement
  - Saves taxpayer dollars
  - Builds partnerships
  - Better for community health

## Adopt-a-Highway

Adopt-a-Highway is a Texas-born volunteer program that began in 1985 at TxDOT's Tyler District office. Volunteer groups agree to pick up litter four times a year on a two mile stretch of state-maintained roadway for two years. Each group receives two blue AAH acknowledgment signs on their adopted roadway recognizing the group's efforts. The program provides a vital service in helping to keep Texas roadways litter-free in a rapidly growing state. Adopt-a-Highway has an estimated 3,500 groups and 35,000 volunteers statewide.

Adopt-a-Highway District Coordinators are responsible for adoptable roadways and volunteer agreements in their local area. To become involved, contact the nearest coordinator (listed in the appendix) for additional information about locations, eligibility, and logistics.



## Don't mess with Texas®

For 34 years, Don't mess with Texas® has channeled Texas-sized state pride to remind Texans to keep trash off our roads. The litter prevention campaign has been a great success thanks to the iconic red, white, and blue trash cans and fellow Texans such as George Strait, Matthew McConaughey, and Willie Nelson helping to spread the message. With an estimated 435 million pieces of trash cluttering our roadways each year, Don't mess with Texas continues to educate and empower citizens to create a cleaner state for visitors and Texans alike.

Don't mess with Texas has recently enlisted the help of a new “spokesbarrel” to help educate young Texans about the program. A free Don't mess with Texas activity book featuring Darrel the Barrel is available at <https://www.dontmesswithtexas.org/education-overview/activity-books/>

# Don't mess with Texas®



## Keep Texas Beautiful

Keep Texas Beautiful is the current grassroots partner for TxDOT's litter prevention programs. KTB and its affiliates support and help promote TxDOT programs such as Don't mess with Texas, Adopt-a-Highway and Drive Clean Texas. KTB is a nonprofit organization that has more than 50 years of experience deploying resources for local clean-up, recycling, and youth engagement efforts.

TxDOT and KTB work together to administer the annual Governor's Community Achievement Awards to Texas communities for their outstanding overall efforts to keep their communities beautiful. Ten winning communities will share \$2 million in landscaping awards for the TxDOT with the dollar amount based population size categories. Funds are used for landscaping projects along local right-of-ways.



## Litter and Illegal Dumping Penalties

Littering and illegal dumping are serious crimes in Texas and violations may take place at both misdemeanor and felony levels. Most of the violations are of provisions of the Texas Health & Safety Code (“H&S”) or of the Texas Water Code (“TWC”). See next page for definitions of “solid waste,” “litter” and “water.”

### Non-commercial dumping (i.e., not for economic gain)

H&S 365.012 (d)	Under 5 pounds or 5 gal. (if liquid)	Fine to \$500 Jail up to 30 days
H&S 365.012 (e)	5 to 500 pounds; 5 gal. to 500 cubic feet	Fine to \$2,000 Jail up to 6 months
H&S 365.012 (f)	500 to 1,000 pounds; 100 to 200 cubic feet	Fine to \$4,000 Jail up to 1 year
H&S 365.012 (g)	Over 1,000 pounds / 200 cubic feet	Fine to \$10,000 State jail up to 2 years

### Commercial dumping (i.e., for economic gain)

H&S 365.012 (d)	Under 5 pounds or 5 gal. (if liquid)	Fine to \$500
H&S 365.012 (f)	5 to 200 pounds; 5 gal. to 200 cubic feet	Fine to \$4,000 Jail up to 1 year
H&S 365.012 (g)	Over 200 pounds / 200 cubic feet	Fine to \$10,000 State jail up to 2 years

### Both commercial and non-commercial dumping

H&S 365.012 (g)	Any waste contained in a closed barrel or drum	Fine to \$10,000 State jail up to 2 years
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Using someone else’s dumpster without permission carries the same penalties as illegally dumping the same amount of solid waste. It can also be prosecuted as theft of services under Texas Penal Code 31.04.

### Dumping into or adjacent to water in the state

TWC 7.145	Intentional or knowing discharge, into or adjacent to water, that causes or threatens to cause pollution without a permit to do so	Fine: \$1,000 to \$100,000 Prison up to 5 years
TWC 7.147	Discharge into water that causes or threatens to cause pollution without a permit (no culpable mental state)	Fine: \$1,000 to \$50,000 Jail up to 1 year

Illegal Outdoor Burning		
TWC 7.177	Burning in violation of Texas Outdoor Burning Regulations, 30 T.A.C. 111 (b)	Fine: \$1,000 to \$50,000 Jail up to 6 months

Waste Oil Dumping		
TWC 7.176 (a)(1)	Dumping into sewer or any water	Fine: \$1,000 to \$50,000 Prison up to 5 years
TWC 7.176 (a)(2)	Dumping onto ground or placing in trash	
TWC 7.176 (a)(4)	Dumping onto roads or land for dust suppression, weed abatement, ant control, etc.	

Lead-Acid Battery Dumping		
TWC 7.185	Knowing or intentional unauthorized disposal of lead-acid batteries (car, boat, motorcycle or any kinds)	Fine to \$4,000 Jail up to 1 year

**Tire Dumping**

Handle as regular illegal dumping (H&S 365). Penalties based on weight or volume (car tires weigh around 17 pounds each – Class B Misdemeanor).

**Definition of “Solid Waste” for H&S 365 Violations**

“Solid waste” means garbage rubbish, refuse, sludge from a waste treatment plant, water supply treatment plant, or air pollution control facility, and other discarded material, including solid, liquid, semisolid, or contained gaseous material resulting from industrial, municipal, commercial, mining, and agricultural operations and from community and institutional activities. The term:

- (A) Does not include:
  - (i) Solid or dissolved material in domestic sewage, or solid or dissolved material in irrigation return flows, or industrial discharges subject to regulation by permit issued under Chapter 26, Water Code; and,
  - (ii) Soil, dirt, rock, sand, and other natural or man-made inert solid materials used to fill land if the object of the fill is to make the land suitable for the construction of surface improvements.

**Definition of “Litter” for H&S 365 Violations**

- (A) decayable waste from a public or private establishment, residence, or restaurant, including animal and vegetable waste material from a market or storage facility handling or storing produce or other food products, or the handling, preparation, cooking, or consumption of food, but not including sewage, body wastes, or industrial by-products; or
- (B) nondecayable solid waste, except ashes, that consists of:
  - (i) combustible waste material, including paper, rags, cartons, wood, excelsior, furniture, rubber, plastics, yard trimmings, leaves, or similar materials;
  - (ii) noncombustible waste material, including glass, crockery, tin or aluminum cans, metal furniture, and similar materials that do not burn at ordinary incinerator temperatures of 1800 degrees Fahrenheit or less; and
  - (iii) discarded or worn-out manufactured materials and machinery, including motor vehicles and parts of motor vehicles, tires, aircraft, farm implements, building or construction materials, appliances, and scrap metal.

**Definition of “Water” for TWC Violations**

“Water” or “water in the state” means groundwater, percolating or otherwise, lakes, bays, ponds, impounding reservoirs, springs, rivers, streams, creeks, estuaries, wetlands, marshes, inlets, canals, the Gulf of Mexico, inside the territorial limits of the state, and all other bodies of surface water, natural or artificial, inland or coastal, fresh or salt, navigable or non-navigable, and including the beds and banks of all watercourses and bodies of surface water, that are wholly or partially inside or bordering the state or inside the jurisdiction of the state.

## Links and Resources

**Adopt-a-Highway** started in Texas in 1985 in TxDOT's Tyler District and is now an internationally recognized program <http://www.txdot.gov/inside-txdot/get-involved/volunteer/adopt-a-highway.html>

**Don't mess with Texas** has been educating Texans about litter prevention since 1986. Discover research, programs, education tools and more. <http://www.dontmesswithtexas.org>

**DriveTexas** is an online map application providing travelers with real-time road conditions. Visit <https://drivetexas.org/> or contact 1-800-452-9292 for traffic and weather conditions in your area.

**Keep American Beautiful** is a national nonprofit public education organization dedicated to engaging individuals to take greater responsibility for improving their local community environments. <http://www.kab.org>

**Keep Texas Beautiful** strives to educate and engage Texans through responsibility for improving their community environment. <http://www.ktb.org>

**Report a Litterer** is a program that allows Texans to anonymously turn in any people they observe tossing things out of their vehicle or accidentally littering from an uncovered load. <http://www.dontmesswithtexas.org/get-involved/report-a-litterer/>

**Take Care of Texas** is a statewide campaign from the Texas Commission on Environmental Quality designed to involve all Texans in lifestyle and habit changes that will help improve air and water quality, conserve water and energy, reduce waste and save individuals a little money in the process. <http://www.takecareoftexas.org>

**Texas Commission on Environmental Quality** is the state's environmental agency in charge of protecting the state's public health and natural resources. <https://www.tceq.texas.gov/>

### **Texas Highways**

Texas Highways is a magazine published monthly by the Texas Department of Transportation which encourages travel to and within the Lone Star State. <https://texashighways.com/>

**Texas Illegal Dumping Resource Center** provides resources for local community professionals to address illegal dumping and burning; on-site classes and seminars for professionals and elected officials; and books and other resource materials on the subject. <http://www.tidrc.com/>

**Trash Free Texas** is an online mapping tool created to foster a litter-free environment in Texas watersheds and track trash removal activities. Adopt a site to do your part to keep litter out of our waterways. <https://www.trashfreetexas.org/>



Don't mess with Texas

**TRASH-OFF**  
**APRIL 10, 2021**



Don't mess with Texas® is a registered trademark and service mark owned by the Texas Department of Transportation. For permission to use, please contact Becky Ozuna at [Becky.Ozuna@txdot.gov](mailto:Becky.Ozuna@txdot.gov) or (512) 486-5904.

# **Attachment B**

**Human Resources/Training Data - BMP 1.3.6, 1.3.7, 2.3.4, 3.3.8, 3.3.9.b, and  
5.3.3.**

**Attachment B  
 Contractor Training Records**

<b>Course Code</b>	<b>Course Name</b>	<b>Total Attendance</b>
<b>CON816</b>	Construction Stage Gate Checklist	<b>466</b>
<b>CON817</b>	Completing Stormwater Inspection Checklist	<b>111</b>
<b>DES435</b>	Using AP&D Stage Gate Checklist	<b>65</b>
<b>DES907</b>	Using PS&E Stage Gate Checklist	<b>52</b>
<b>DES908</b>	How To Create an EPIC Sheet	<b>151</b>
<b>EL4030</b>	Introduction to Construction Stormwater BMPs	<b>151</b>
<b>ENV103</b>	Stormwater Pollution Prevention Plan*	<b>0</b>
<b>ENV300</b>	Stormwater Erosion & Sediment Control (Day 1)*	<b>Retired</b>
<b>ENV405</b>	Field ENV Emergency Compliance	<b>104</b>
<b>ENV414</b>	Environmental Management System	<b>191</b>
<b>ENV432</b>	CGP Compliance/ Enforcement	<b>482</b>
<b>ENV433</b>	Stormwater Requirements During Construction	<b>192</b>
<b>MNT415</b>	Revegetation During Construction	<b>425</b>
<b>ENV457</b>	404 Compliance During Construction	<b>166</b>
<b>Totals</b>		<b>2556</b>

\* Classroom Course

Retired: ENV300: Stormwater Erosion & Sediment Control (Day 1)

No classroom courses after April 2020 (ENV103)

Attachment B - TxDOT Staff Training Records

	CON816: Construction Stage Gate Checklist	CON817: Completing SW Inspection Checklist	DES435: Using AP&D Stage Gate Checklist	DES907: Using PS&E Stage Gate Checklist	DES908: How to Create an EPIC Sheet	EL4030: Stormwater Erosion & Sediment Control	ENV103: Storm Water Pollu Prevent Plan	ENV301: Stormwater Erosion & Sediment Control (Day 2)	ENV302: SWP3 Applied Concepts	ENV303: Conducting SWP3 Inspections	ENV405: Field ENV Emergency Compliance	ENV414: Environmental Mgt System	ENV432: CGP Compliance/Enforcement	ENV433: Storm Water ENV Req Construction	ENV457: 404 Compliance During Construction	ENV458: TxDOT SWAT Visit	MNT135: Adv. MNT Contract Insp.
Abilene	19	19	2	1	23	6	0	7	0	0	18	22	23	22	24	0	0
Amarillo	14	13	3	3	10	2	1	3	4	4	13	13	13	12	14	0	0
Atlanta	16	17	3	4	19	6	10	0	1	0	17	27	19	23	18	0	0
Austin	62	54	13	13	86	18	0	6	0	0	64	118	83	116	69	0	0
Beaumont	30	30	16	17	34	14	0	3	0	0	19	46	35	39	36	0	0
Bryan	13	14	6	9	11	6	1	1	0	0	12	24	9	14	12	0	0
Corpus Christi	18	17	3	3	13	8	2	5	0	0	14	16	16	13	16	0	0
Dallas	95	91	14	17	94	71	2	40	6	6	123	152	86	129	105	0	0
El Paso	4	4	1	0	3	4	1	3	0	0	3	4	3	4	3	0	0
Fort Worth	41	41	7	8	37	16	0	13	0	0	44	46	43	41	43	0	0
Houston	27	35	9	13	32	15	0	12	0	0	27	32	28	30	32	0	0
Laredo	18	19	2	0	15	16	0	1	0	0	14	15	15	18	19	0	0
Lubbock	20	19	10	11	19	7	0	4	0	0	21	25	19	23	19	0	0
Odessa	10	15	4	3	11	7	1	3	0	0	15	12	15	12	16	0	0
Paris	16	19	3	5	18	8	0	8	10	0	17	25	18	25	22	0	0
Pharr	16	18	4	2	12	5	0	1	0	0	15	17	15	16	15	0	0
SanAngelo	2	3	1	1	2	2	0	0	0	0	3	3	4	2	3	0	0
SanAntonio	32	32	10	8	28	13	1	7	0	0	29	30	29	31	34	0	0
Tyler	11	13	4	5	11	7	1	2	4	0	9	16	16	14	15	0	0
Waco	25	26	10	10	24	8	0	7	0	0	28	25	25	28	32	0	0
Wichita Falls	8	9	1	0	5	4	0	0	0	0	8	8	10	7	10	0	0
Yoakum	20	20	4	2	20	13	1	0	0	0	21	18	21	20	21	0	0
Divisions	4	3	4	3	12	7	5	3	0	0	4	14	11	14	14	0	0
<b>Total Attendance</b>	<b>521</b>	<b>531</b>	<b>134</b>	<b>138</b>	<b>539</b>	<b>263</b>	<b>26</b>	<b>129</b>	<b>25</b>	<b>10</b>	<b>538</b>	<b>708</b>	<b>556</b>	<b>653</b>	<b>592</b>	<b>0</b>	<b>0</b>

	EL1430: Haz Materials Awareness	ENV206: UTS Facility Operator	MNT410: Herbicide Certification	MNT411: Herbicide Equipment Training	MNT415: Revegetation During Construction	SFH420: Hazardous Communication	SHF421: Hazardous Communication Refresher
Abilene	17	0	39	0	21	67	26
Amarillo	47	1	39	0	14	76	86
Atlanta	11	0	37	0	16	50	15
Austin	91	3	75	0	52	95	58
Beaumont	55	0	18	0	25	60	31
Bryan	9	3	49	0	8	68	30
Corpus Christi	13	1	25	0	14	95	48
Dallas	146	0	31	0	75	185	133
El Paso	35	0	31	0	4	64	37
Fort Worth	93	0	56	0	41	105	184
Houston	139	0	25	0	24	179	159
Laredo	7	2	26	0	17	64	18
Lubbock	20	0	61	0	22	72	81
Odessa	11	0	38	0	13	56	29
Paris	12	0	48	0	15	44	23
Pharr	41	0	35	0	18	63	30
SanAngelo	1	0	41	0	2	32	16
SanAntonio	18	1	46	0	27	97	65
Tyler	11	5	31	0	13	39	44
Waco	9	1	33	0	28	56	33
Wichita Falls	5	0	24	0	9	46	57
Yoakum	16	0	35	0	21	57	32
Divisions	122	1	3	0	3	352	344
<b>Total Attendance</b>	<b>929</b>	<b>18</b>	<b>846</b>	<b>0</b>	<b>482</b>	<b>2022</b>	<b>1579</b>

ENV300: Stormwater Eros & Sedimn - Retired  
 No ENV458 TxDOT SWAT Visits conducted due to COVID-19  
 Pilot version of ENV302 is documented under ENV103  
 No MNT135 Instructor Led Classes held in FY21 due to COVID-19  
 No MNT411 Instructor Led Classes held in FY21 due to COVID-19

# **Attachment C**

**Provide Updated SWMP Summary - BMP 2.3.1, 3.3.2, and 4.3.3**

**No updates have been made to the SWMP this Permit Year.**

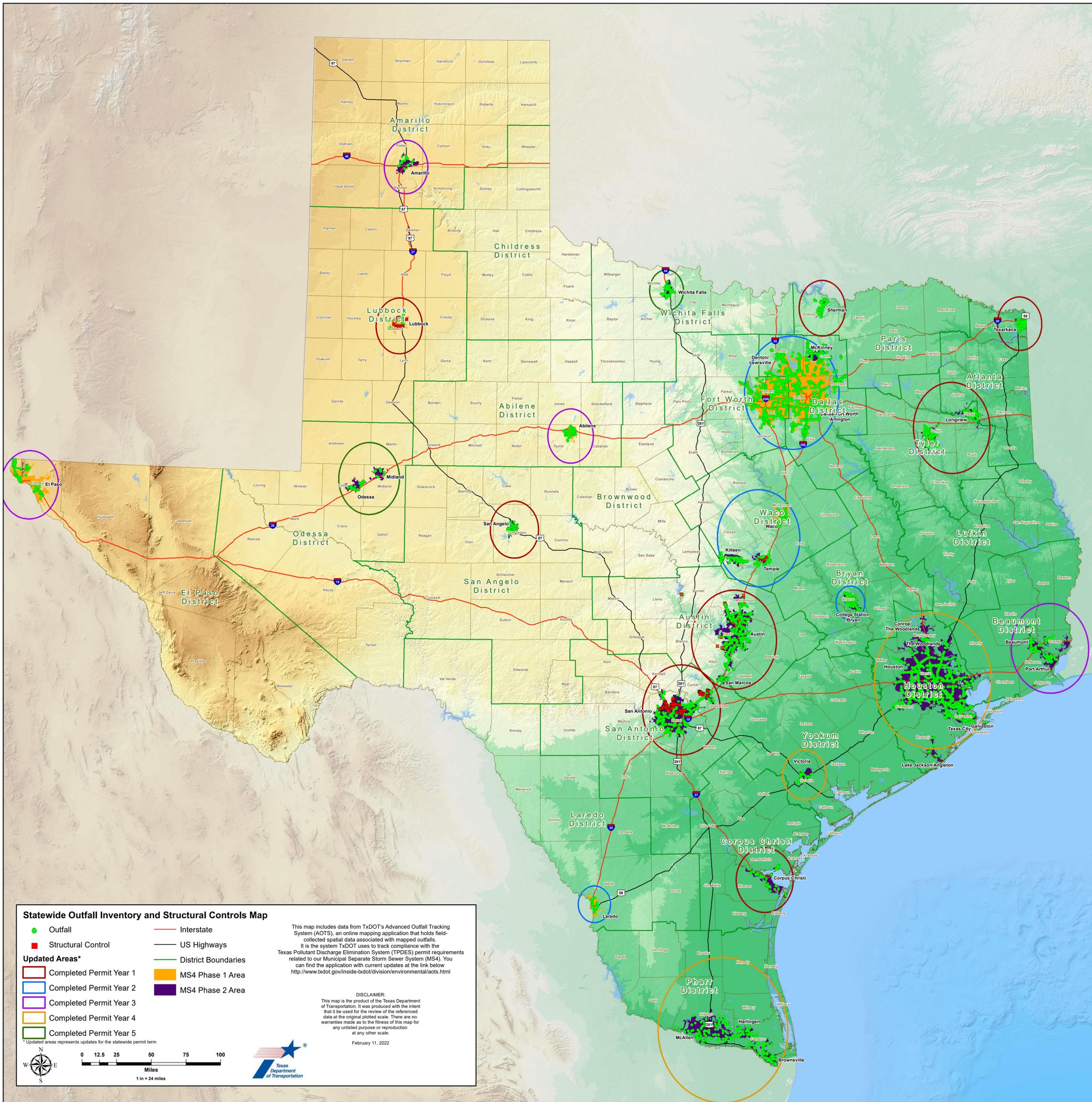
# **Attachment D**

**Provide Updated List of Allowable Non-Stormwater Discharges - BMP 2.3.2**

**There are no updates to the List of Allowable Non-Stormwater Discharges. The list in the SWMP and Permit is complete and accurate.**

# **Attachment E**

## **Provide Updated Maps - BMP 2.3.3**



**Statewide Outfall Inventory and Structural Controls Map**

- Outfall
- Structural Control
- Updated Areas\***
- Completed Permit Year 1
- Completed Permit Year 2
- Completed Permit Year 3
- Completed Permit Year 4
- Completed Permit Year 5
- Interstate
- US Highways
- District Boundaries
- MS4 Phase 1 Area
- MS4 Phase 2 Area

This map includes data from TxDOT's Advanced Outfall Tracking System (AOTS), an online mapping application that holds field-collected spatial data associated with mapped outfalls. It is the system TxDOT uses to track compliance with the Texas Pollutant Discharge Elimination System (TPDES) permit requirements related to our Municipal Separate Storm Sewer System (MS4). You can find the application with current updates at the link below <http://www.txdot.gov/inside-txdot/division/environmental/aots.html>

**DISCLAIMER:**  
This map is the product of the Texas Department of Transportation. It was produced with the intent that it be used for the review of the referenced data at the original plotted scale. There are no warranties made as to the fitness of this map for any unlisted purpose or reproduction at any other scale.

February 11, 2022



# **Attachment F**

**District and Statewide Maintenance and Compass Data - BMPs 2.3.6, 2.3.10.a,  
5.3.2.d, 5.3.4, 5.3.6, 5.3.7.a, and 5.3.7.c**

### Attachment F MMS/Compass Data for MS4 Regulated Area per District

BMP #	5.3.4, 5.3.6.a		5.3.4, 5.3.6.a		2.3.6, 2.3.10.a, 5.3.2.d,		5.3.2.d, 5.3.7.a, 5.3.7.c		5.3.2.d, 5.3.7.a, 5.3.7.c		5.3.2.d, 5.3.7.a, 5.3.7.c		5.3.2.d, 5.3.7.a, 5.3.7.c		1.3.2		5.3.2.d, 5.3.7.a, 5.3.7.c	
	511 - ROW Mowing		513 - Spot Mowing		520 - Illegal Dumping Clean up		521 - Litter Removal		522 - Mechanical Sweeping		523 - Debris Removal		524 - Spot Litter		525 - Adopt-a-Highway		527 - Hand Sweeping	
	Acres	Cost	Hours	Cost	Cubic Yards	Cost	Acres	Cost	Miles	Cost	Miles	Cost	Acres	Cost	Hours	Cost	Square Yards	Cost
Abilene	3,722	\$118,807	35	\$1,048	0	\$0	7,757	\$118,241	45	\$14,471	435	\$60,559	51	\$2,778	0	\$0	0	\$0
Amarillo	5,197	\$239,849	305	\$22,915	1	\$105	11,713	\$96,935	1,083	\$241,623	19,900	\$136,028	2,036	\$15,370	2	\$400	18	\$1,771
Atlanta	5,200	\$181,275	11	\$2,436	14	\$669	5,081	\$48,172	292	\$71,791	1,622	\$50,324	19	\$3,259	3	\$347	0	\$0
Austin	3,037	\$151,366	113	\$14,920	175	\$9,620	13,955	\$299,479	1,796	\$260,215	30,700	\$186,206	157	\$16,804	71	\$2,059	73	\$262
Beaumont	5,434	\$232,172	30	\$5,648	475	\$822	7,598	\$153,096	1,445	\$628,896	5,907	\$372,017	311	\$14,816	0	\$0	8,334	\$6,953
Bryan	4,260	\$116,817	2	\$671	3	\$74	12,411	\$174,928	153	\$45,551	4,431	\$77,052	1,143	\$28,183	8	\$647	14	\$221
Corpus Christi	7,709	\$267,560	18	\$1,933	3	\$14	17,718	\$325,388	2,211	\$337,274	22,490	\$441,627	591	\$12,810	0	\$11	4,494	\$12,193
Dallas	15,936	\$884,278	51	\$7,419	0	\$35	27,735	\$409,392	11,508	\$1,631,505	104,477	\$1,835,331	148	\$2,308	460	\$577	5,553	\$6,515
El Paso	3,630	\$142,211	2,475	\$37,776	381	\$14,797	7,650	\$455,420	3,421	\$672,130	31,988	\$569,298	2,138	\$123,318	128	\$5,701	79,400	\$92,753
Fort Worth	19,788	\$936,849	92	\$9,658	922	\$24,809	85,373	\$1,318,860	3,655	\$495,933	36,792	\$717,393	2,512	\$47,397	3,560	\$4,799	17,657	\$7,568
Houston	31,905	\$1,318,286	254	\$27,421	603	\$16,430	169,331	\$2,213,502	36,172	\$3,895,559	81,362	\$2,028,398	5,126	\$238,371	6	\$600	281,583	\$213,200
Laredo	2,411	\$89,439	398	\$40,847	4	\$43	3,413	\$90,003	734	\$270,037	5,770	\$49,741	278	\$17,296	1	\$78	31,018	\$20,367
Lubbock	4,507	\$180,039	32	\$2,429	0	\$0	14,386	\$241,743	416	\$193,981	19,768	\$214,592	339	\$2,985	0	\$0	0	\$0
Odessa	10,262	\$332,870	11	\$1,329	851	\$10,155	11,524	\$487,440	6,015	\$263,327	10,788	\$87,688	448	\$8,102	25	\$2,231	4	\$201
Paris	5,989	\$192,115	1	\$175	1	\$350	4,384	\$51,689	1,751	\$138,602	14,905	\$279,638	36	\$1,928	4	\$402	0	\$7
Pharr	5,417	\$272,831	196	\$44,652	102	\$3,227	7,037	\$195,597	4,535	\$912,666	6,111	\$271,768	20	\$7,457	72	\$5,480	4,504	\$11,286
San Angelo	4,830	\$156,584	100	\$15,093	29	\$1,667	3,018	\$68,039	13,228	\$145,170	11,126	\$73,325	363	\$3,768	29	\$2,585	6,399	\$9,378
San Antonio	17,535	\$717,349	157	\$22,241	921	\$66,714	109,175	\$1,128,835	10,175	\$1,802,948	35,680	\$882,200	1,277	\$160,021	238	\$5,331	9,148	\$20,865
Tyler	3,375	\$111,389	2	\$662	6	\$136	6,728	\$97,632	756	\$27,989	424	\$27,044	76	\$6,002	26	\$1,186	0	\$0
Waco	5,908	\$265,415	92	\$3,503	6	\$260	3,671	\$85,296	1,010	\$153,918	1,053	\$35,984	184	\$8,810	50	\$3,085	3,124	\$1,562
Wichita Falls	1,994	\$75,964	15	\$2,674	62	\$2,382	4,038	\$61,252	484	\$112,941	3,622	\$86,164	259	\$3,874	14	\$830	0	\$0
Yoakum	2,586	\$68,699	172	\$2	3	\$200	23	\$333	167	\$31,615	5,589	\$163,427	15	\$356	1	\$237	0	\$0
<b>Total</b>	<b>170,634</b>	<b>\$7,052,167</b>	<b>4,562</b>	<b>\$265,451</b>	<b>4,560</b>	<b>\$152,507</b>	<b>533,720</b>	<b>\$8,121,272</b>	<b>101,054</b>	<b>\$12,348,143</b>	<b>454,942</b>	<b>\$8,645,805</b>	<b>17,527</b>	<b>\$726,012</b>	<b>4,698</b>	<b>\$36,583</b>	<b>451,326</b>	<b>\$405,101</b>

### Attachment F MMS/Compass Data for MS4 Regulated Area per District

BMP #	5.3.6.c		5.3.6.a		5.3.6.c		5.3.6.c		5.3.6.c		5.3.6.c		5.3.2.d, 5.3.7.a, 5.3.7.c		5.3.2.d, 5.3.7.a, 5.3.7.c		5.3.2.d, 5.3.7.a, 5.3.7.c	
	540 - Hand Vegetation Control		541 - Chemical Vegetation Control, Edges		545 - Chemical Vegetation Control, Basal Application		548 - Seeding		551 - Landscape Maintenance		552 - Tree and Brush Control		561 - Cleaning Ditches		562 - Ditch Reshaping		563 - Slope Repair/Stabilization	
	Hours	Cost	Acres	Cost	Hours	Cost	Square Yards	Cost	Acres	Cost	Miles	Cost	Cubic Yards	Cost	Linear Feet	Cost	Square Yards	Cost
Abilene	40	\$3,308	78	\$12,849	0	\$0	0	\$0	0	\$0	49	\$6,147	210	\$3,465	3,617	\$520	32	\$565
Amarillo	88	\$14,085	45	\$4,014	0	\$0	12,023	\$239	518	\$70,322	24	\$11,774	19	\$4,003	2,583	\$654	0	\$0
Atlanta	59	\$5,581	309	\$48,430	2	\$317	11,841	\$499	0	\$2	182	\$105,090	1,138	\$55,724	29	\$54	356	\$13,523
Austin	118	\$12,312	106	\$19,238	5	\$976	0	\$0	0	\$0	206	\$111,625	1,034	\$44,317	1,612	\$7,092	6	\$157
Beaumont	139	\$12,106	184	\$24,380	3	\$140	376	\$9,537	3	\$3,781	92	\$29,452	0	\$0	0	\$0	5,941	\$63,337
Bryan	29	\$5,081	49	\$15,929	2	\$74	412	\$137	0	\$0	277	\$61,880	434	\$33,922	2,456	\$18,605	320	\$1,460
Corpus Christi	230	\$30,288	393	\$49,437	4	\$417	390	\$700	30	\$8,846	96	\$28,025	1,819	\$101,780	3,751	\$16,456	3,411	\$27,541
Dallas	82	\$7,159	453	\$218,806	0	\$0	537	\$3,493	55	\$6,738	254	\$682,180	3,266	\$202,890	51,295	\$190,297	0	\$0
El Paso	453	\$50,132	878	\$85,740	0	\$0	0	\$0	11,062	\$245,270	711	\$129,859	8,679	\$43,002	3,752	\$8,518	9,226	\$66,362
Fort Worth	30	\$1,827	672	\$232,546	0	\$0	0	\$0	98	\$7,737	1,144	\$106,573	3,340	\$38,231	14,001	\$31,917	8,266	\$81,096
Houston	707	\$79,148	2,050	\$334,298	0	\$0	12,895	\$39,980	9	\$4,331	584	\$458,881	9,147	\$59,262	352,073	\$460,710	9,140	\$197,945
Laredo	46	\$6,869	107	\$14,258	14	\$1,133	0	\$0	0	\$2,255	46	\$28,393	556	\$19,055	47	\$190	0	\$7
Lubbock	4	\$887	418	\$86,908	0	\$0	0	\$0	47	\$22,907	24	\$5,116	635	\$11,806	105	\$196	0	\$0
Odessa	18	\$678	307	\$50,352	0	\$0	0	\$0	127	\$40,365	30	\$7,040	14,681	\$81,982	26,752	\$9,213	1	\$668
Paris	44	\$6,179	109	\$20,191	0	\$6	0	\$0	102	\$14,135	752	\$67,766	204	\$9,829	6,669	\$16,764	8	\$4,776
Pharr	469	\$34,820	1,008	\$137,084	146	\$8,873	0	\$0	8	\$9,008	11,429	\$155,495	6,328	\$80,921	6,727	\$10,576	94	\$2,742
San Angelo	8	\$1,926	87	\$15,953	20	\$2,197	0	\$0	0	\$0	45	\$40,833	103	\$1,181	0	\$0	0	\$0
San Antonio	589	\$34,918	2,661	\$173,663	51	\$7,408	0	\$0	20	\$3,801	746	\$558,022	938	\$57,285	16,065	\$18,264	36	\$9,079
Tyler	3	\$1,644	102	\$10,813	0	\$0	1,554	\$16,427	10	\$1,217	144	\$129,398	937	\$31,709	143	\$1,320	116	\$12,184
Waco	32	\$7,223	189	\$29,280	0	\$0	0	\$0	0	\$0	38	\$24,581	569	\$7,960	1,705	\$5,447	0	\$0
Wichita Falls	46	\$5,040	130	\$22,779	0	\$0	99	\$95	0	\$0	47	\$4,090	385	\$14,594	4,488	\$2,244	1,396	\$2,530
Yoakum	1	\$358	76	\$10,818	0	\$0	0	\$0	0	\$0	21	\$9,830	60	\$997	0	\$0	18	\$1,312
<b>Total</b>	<b>3,236</b>	<b>\$321,568</b>	<b>10,412</b>	<b>\$1,617,769</b>	<b>246</b>	<b>\$21,541</b>	<b>40,127</b>	<b>\$71,106</b>	<b>12,090</b>	<b>\$440,715</b>	<b>16,942</b>	<b>\$2,762,051</b>	<b>54,482</b>	<b>\$903,917</b>	<b>497,869</b>	<b>\$799,039</b>	<b>38,366</b>	<b>\$485,285</b>

### Attachment F MMS/Compass Data for MS4 Regulated Area per District

BMP #	5.3.2.d, 5.3.7.a, 5.3.7.c		5.3.2.d, 5.3.7.a, 5.3.7.c		5.3.4		5.3.4		Total Cost
	570 - Culvert and Storm Drain Maintenance		620 - Bridge Channel Maintenance		830 - Hazard Material Clean Up, Spills or Leaking Storage Tanks		831 - Hazardous Material Clean up, Abandoned Materials		
	Each	Cost	Cubic Yards	Cost	Hours	Cost	Hours	Cost	Cost
Abilene	0	\$1,025	159	\$7,798	0	\$0	0	\$0	\$ 351,582
Amarillo	145	\$14,662	82	\$36,026	0	\$28	0	\$0	\$ 910,804
Atlanta	33	\$15,305	890	\$30,582	0	\$0	0	\$23	\$ 633,402
Austin	948	\$106,733	609	\$26,076	1	\$232	0	\$0	\$ 1,269,688
Beaumont	428	\$59,780	570	\$42,211	1	\$27	1	\$107	\$ 1,659,278
Bryan	36	\$9,322	248	\$20,857	7	\$417	0	\$57	\$ 611,887
Corpus Christi	310	\$29,769	0	\$0	3	\$253	0	\$1	\$ 1,692,326
Dallas	1,349	\$634,180	839	\$70,900	153	\$73,880	5	\$13,085	\$ 6,880,967
El Paso	773	\$465,456	483	\$4,510	0	\$18	1	\$44	\$ 3,212,315
Fort Worth	955	\$78,436	18	\$13,353	37	\$4,668	9	\$436	\$ 4,160,086
Houston	6,032	\$1,764,956	10,369	\$380,015	570	\$33,019	59	\$3,710	\$ 13,768,022
Laredo	23	\$10,827	1,094	\$57,286	26	\$1,878	2	\$103	\$ 720,106
Lubbock	29	\$10,333	2,059	\$8,214	0	\$0	0	\$0	\$ 982,136
Odessa	27	\$334,774	0	\$0	6	\$403	0	\$0	\$ 1,718,818
Paris	2	\$1,903	0	\$0	66	\$749	51	\$3,457	\$ 810,658
Pharr	633	\$61,583	3,425	\$83,274	0	\$0	8	\$240	\$ 2,309,581
San Angelo	0	\$815	1,490	\$74,413	0	\$0	0	\$17	\$ 612,947
San Antonio	3,196	\$595,699	72	\$3,818	43	\$2,923	20	\$938	\$ 6,272,319
Tyler	39	\$49,399	4,765	\$311,876	0	\$0	0	\$0	\$ 838,027
Waco	69	\$42,009	366	\$14,547	9	\$414	0	\$0	\$ 689,297
Wichita Falls	19	\$27,390	378	\$46,308	0	\$0	0	\$0	\$ 471,149
Yoakum	7	\$3,256	0	\$0	13	\$320	0	\$17	\$ 291,777
<b>Total</b>	<b>15,056</b>	<b>\$4,317,613</b>	<b>27,914</b>	<b>\$1,232,062</b>	<b>935</b>	<b>\$119,230</b>	<b>158</b>	<b>\$22,234</b>	<b>\$ 50,867,172</b>

# **Attachment G**

**Provide a List of ID/IC Detected, Number of Inspections, and a Summary of Follow-up Activities - BMP 2.3.7 and 2.3.8**

<b>ENV Statewide</b>	
<b>Number of inspections: 193</b>	
<b>Detections</b>	<b>Summarizations</b>
Odessa District Outfall Mapping Project	No illicit discharges were detected
Wichita Falls District Outfall Mapping Project	No illicit discharges were detected
N/A	N/A

<b>District - Abilene</b>	
Number of inspections: 1	
Detections	Summarizations
N/A	N/A

<b>District - Amarillo</b>	
Number of inspections: 0	
Detections	Summarizations
N/A	N/A

<b>District - Atlanta</b>	
Number of inspections: 0	
Detections	Summarizations
N/A	N/A

<b>District - Austin</b>	
Number of inspections: 0	
Detections	Summarizations
N/A	N/A
N/A	N/A
N/A	N/A

N/A	N/A
N/A	N/A
N/A	N/A

<b>District - Beaumont</b>	
Number of inspections: 0	
Detections	Summarizations
N/A	N/A

<b>District - Bryan</b>	
Number of inspections: 0	
Detections	Summarizations
N/A	N/A

<b>District - Corpus Christi</b>	
Number of inspections: 1	
Detections	Summarizations
unknown trucking company	On August 17th, a tractor trailer rolled over on IH-37 NB near the Tanchua
N/A	N/A

<b>District - Dallas</b>	
Number of inspections: 0	
Detections	Summarizations
N/A	N/A
N/A	N/A

N/A	N/A

<b>District - El Paso</b>	
Number of inspections: 131	
Detections	Summarizations
N/A	N/A

<b>District - Fort Worth</b>	
Number of inspections: 0	
Detections	Summarizations
N/A	N/A

<b>District - Houston</b>	
Number of inspections: 46	
Detections	Summarizations
HMI	Location: Gulf Freeway Houston (Harris Co); Date: 9/7/2020 Cost: \$24884.71
Masters	Location: I-45 S & McKinney (Harris Co); Date: 9/18/2020 Cost: \$6078.88
Masters	Location: 7500 Sam Houston Pkwy (Harris Co); Date: 10/21/2020 Cost: \$10611.53
HMI	Location: 424 FM 2403 (Brazoria Co); Date: 11/4/2020 Cost: \$2434.00

HMI	Location: 8134 Eastex Fwy (Harris Co); Date: 11/13/2020 Cost: \$10890.50
Masters	Location: 16006 Beaumont Hwy (Harris Co); Date: 12/1/2020 Cost: \$6737.76
HMI	Location: I-10 E & HWY 59 Split (Harris Co); Date: 12/9/2020 Cost: \$16483.69
Masters	Location: HWY 6 & Clay Rd Houton (Harris Co); Date: 12/17/2020 Cost: \$3041.38
Masters	Location: HWY 290 & 99 Cypress Texas (Harris Co); Date: 12/17/2020 Cost: \$19952.8
HMI	Location: I-10 E WB/Beltway 8, Channelview, 77530 (Harris Co); Date: 1/7/2021 Cost: \$7351.21
Masters	Location: I-45 & FM 830, Willis, TX (Montgomery Co); Date: 1/9/2021 Cost: \$8653.38
HMI	Location: Loop 610 EB/Hwy 59 N Exit Ramp, 77026 (Harris Co); Date: 1/20/2021 Cost: \$28887.32
HMI	Location: 29365 Hwy 6, Hempstead, 77445 (Waller Co); Date: 1/21/2021 Cost: \$28077.50
HMI	Location: 59 Southwest EB/610 Loop (Harris Co); Date: 1/24/2021 Cost: \$24739.82
Masters	Location: 400 W. Danville St. Willis Tx (Montgomery Co); Date: 1/26/2021 Cost: \$4467.5
HMI	Location: FM 1462 & Brazos River, Rosharon, TX, 77583 (Brazoria Co); Date: 1/27/2021 Cost: \$2120.66
HMI	Location: 12634 Beaumont Hwy/FM 526 C E King Parkway (Harris Co); Date: 1/31/2021 Cost: \$10883.02
Masters	Location: 1960 & 59 (Harris Co); Date: 2/4/2021 Cost: \$3768.03
HMI	Location: Spur 330 EB/Between I-10 & Baytown Rd (Harris Co); Date: 2/8/2021 Cost: \$10489.97
HMI	Location: I-45 Northbound/Park Place (Harris Co); Date: 2/8/2021 Cost: \$3486.44
Masters	Location: I-45 N, Main Houston, TX (Harris Co); Date: 2/9/2021 Cost: \$8035.52
HMI	Location: 20525 N FRWY Service Rd., Spring, 77388 (Harris Co); Date: 3/2/2021 Cost: \$28253.98
HMI	Location: 1950 N Sam Houston Pkwy E/Aldine Westfield (Harris Co); Date: 3/3/2021 Cost: \$5285.77
HMI	Location: 3108 Gulf Frwy, La Marque, 77568 (Galveston Co); Date: 3/9/2021 Cost: \$20054.1

Masters	Location: 1488 & 1774 (Montgomery Co); Date: 3/11/2021 Cost: \$4276.82
HMI	Location: US 90 Alt/W Buls Dr, East Bernard, 77435 (Fort Bend Co); Date: 3/21/2021 Cost: \$44461.97
Masters	Location: 3695 N. Valesco St & 288 Angleton (Brazoria Co); Date: 3/27/2021 Cost: \$10025.63
Masters	Location: East Blvd & 225 Service Road (Harris Co); Date: 3/29/2021 Cost: \$4202.13
HMI	Location: I-10 WB/Hwy 59, Houston, 77020 (Harris Co); Date: 3/31/2021 Cost: \$12664.97
HMI	Location: I-10 EB/Barker Cypress Rd., Houston, 77094 (Harris Co); Date: 4/3/2021 Cost: \$7880.97
Masters	Location: I-10 and FM 1489 (Waller Co); Date: 4/7/2021 Cost: \$4982.64
Masters	Location: 3083 & E Davis St. Conroe (Montgomery Co); Date: 4/8/2021 Cost: \$6380.63
Masters	Location: 102 W Sealy St, Alvin (Brazoria Co); Date: 4/11/2021 Cost: \$4680.4
HMI	Location: 30025 FM 529 Rd., Brookshire, TX, 77423 (Harris Co); Date: 4/15/2021 Cost: \$10149.39
HMI	Location: 14121 N Fwy/WB Frtg Rd, Houston, 77040 (Harris Co); Date: 5/9/2021 Cost: \$7361.04
Masters	Location: Loop 610 & Scott St. Houston (Harris Co); Date: 5/10/2021 Cost: \$4187.38
HMI	Location: 290 EB/Mangum Rd, Houston, 77092 (Harris Co); Date: 5/11/2021 Cost: \$22958.6
Masters	Location: 288 SB & Business 288 (Brazoria Co); Date: 6/7/2021 Cost: \$101236.01
HMI	Location: I-10 EB/Thompson (Exit 789), Baytown, 77521 (Harris Co); Date: 6/16/2021 Cost: \$13184.9
HMI	Location: 24424 TX-249, Tomball, 77375 (Harris Co); Date: 6/24/2021 Cost: \$249.00
HMI	Location: Beltway 8 & Black Hawk Blvd, Houston, 77089 (Harris Co); Date: 6/29/2021 Cost: \$9338.76
Masters	Location: 45 & Monroe (Harris Co); Date: 7/7/2021 Cost: \$4044.13
Masters	Location: Loop 610 & McCarty (Harris Co); Date: 7/10/2021 Cost: \$3509.63
Masters	Location: US 59 & Parker Rd. Houston (Harris Co); Date: 7/25/2021 Cost: \$6724.33

HMI	Location: FM 1488/FM 1774, Magnolia, 77355 (Montgomery Co); Date: 8/2/2021 Cost: \$7404.5
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<b>District - Lubbock</b>	
Number of inspections: 1	
Detections	Summarizations
Cross Integrated, Transport LLC	Milk truck turned over. Transportation company cleaned spill. No cost to TxDOT
N/A	N/A

<b>District - Odessa</b>	
Number of inspections: 1	
Detections	Summarizations
Outfall Mapping	No illicit discharges detected; no cost associated
N/A	N/A

<b>District - Paris</b>	
Number of inspections: 4	
Detections	Summarizations
N/A	No illicit discharges detected. No cost associated.
N/A	N/A

## District - Pharr

Number of inspections: 0

Detections	Summarizations
N/A	N/A

## District - San Angelo

Number of inspections: 4

Detections	Summarizations
Unknown	11-2-2020. Observed and inspected portions of the San Angelo MS4 area. No illicit discharges to or from the San Angelo MS4 area were detected, and no evidence of previous illicit discharges were noticed.
Unknown	1-14-2021. Observed and inspected portions of the San Angelo MS4 area. No illicit discharges to or from the San Angelo MS4 area were detected, and no evidence of previous illicit discharges were noticed.
Unknown	3-26-2021. Observed and inspected portions of the San Angelo MS4 area. No illicit discharges to or from the San Angelo MS4 area were detected, and no evidence of previous illicit discharges were noticed.
Unknown	6-11-2021. Observed and inspected portions of the San Angelo MS4 area. No illicit discharges to or from the San Angelo MS4 area were detected, and no evidence of previous illicit discharges were noticed.
N/A	N/A
N/A	N/A

## District - San Antonio

Number of inspections: 0

Detections	Summarizations
N/A	N/A

## District - Tyler

Number of inspections: 4

Detections	Summarizations
N/A	No illicit discharges detected in either Tyler or Longview MS4 during reporting period
N/A	N/A

## District - Waco

Number of inspections: 0

Detections	Summarizations
N/A	N/A

## District - Wichita Falls

Number of inspections: 0

Detections	Summarizations
N/A	N/A

## District - Yoakum

Number of inspections: 0

Detections	Summarizations
N/A	N/A
N/A	N/A
N/A	N/A

# **Attachment H**

**Provide Updated List of Dischargers, as Necessary - BMP 2.3.9.b**

**TxDOT developed a GIS map and database to identify TPDES and NPDES permitted dischargers to the State's Right-of-Way (ROW) in Phase I Areas of the District's MS4 regulated areas. Data were collected from MS4s throughout the state, counties, TCEQ and EPA, as listed in the following summary table. The database includes TCEQ's TPDES industrial stormwater permit database, the TPDES municipal wastewater database, and the TPDES industrial wastewater permit database. The database also includes EPA's NPDES industrial stormwater permit database, the NPDES municipal wastewater database, and the NPDES industrial wastewater permit database. The GIS database can be provided as requested.**

TxDOT's TPDES MS4 Permit - Permitted MS4 Discharger ROW Analysis and Master Database Process Documentation  
MS4 Discharger Results/Database Summary

Agency/MS4 Name	Agency/MS4 type	Population <sup>2</sup>	Summary of Records Located within TxDOT MS4 Phase I Near and Adjacent Boundary <sup>1</sup>					Comments
			MS4 Records	TCEQ Wastewater Outfalls	TCEQ_Permit Registry	EPA NPDES Major Records**	EPA NPDES Records	
Abilene	City	117,063	NP	0	18	0	61	
Amarillo	City	190,695	60	0	21	0	77	City provided an access database record of 308 outfalls.
Arlington	City	365,438	248	0	55	0	253	City provided spreadsheet record of approximately 1300 verified outfalls (out of 3556).
Austin	City	790,390	1976	1	44	2	340	City of Austin provided a feature class of their entire stormwater infrastructure. MS4 records used for analysis included the feature classes 'F_Header' (field collected GPS records) and 'Header' (Desktop generated records not yet field verified) where the 'OUTFALL' field was set to true.
Beaumont	City	118,296	NP	0	18	1	77	
Corpus Christi	City	305,215	326	2	34	5	178	City provided spreadsheet record of approximately 2600 outfalls.
Dallas	City	1,197,816	NP	7	229	4	757	
El Paso	City	649,121	1	4	81	2	337	City provided spreadsheet record of 5 sample basin locations.
Fort Worth	City	741,206	2461	0	167	1	567	City provided shapefile of approximately 10,400 outfalls.
Garland	City	226,876	184	0	22	0	52	City provided shapefile of approximately 1600 outfalls.
Harris County (HCFCD)	County	4,092,459	177	78	421	26	4969	HCFCD obtained TxDOT's near and Adjacent Boundary and provided 177 records.
Houston	City	2,099,451	NP	See above	See above	See above	See above	City of Houston shares a regulatory area and permit with Harris County and HCFCD as the Joint Task Force.
Irving	City	216,290	NP	0	3	1	36	
Laredo	City	236,091	NP	0	14	1	48	
Lubbock	City	229,573	18	0	27	0	133	City provided shapefile record of 32 outfalls.
Mesquite	City	139,824	497	0	3	0	40	City provided shapefile record of approximately 1900 stormwater end treatment (i.e., headwalls) points.
NTTA	Transportation	Not applicable	46	0	29	0	99	NTTA provided a feature class of their entire stormwater infrastructure. MS4 records used for analysis included the outfall point feature class where "STA_CAT" field set to OUTFALL. An arbitrary ROW boundary was created to capture all NTTA records and used to perform intersection analysis.
Pasadena	City	149,043	7	0	0	0	12	City of Pasadena's city limit feature class from TNRIS was used to create boundary for MS4 records intersection analysis and to capture NPDES records not captured within TxDOT's Phase 1 regulated area .
Plano	City	259,841	251	0	1	0	27	City provided shapefile record of approximately 4800 outfalls.
San Antonio	City	1,327,407	3249	6	207	1	1234	City provided shapefile record of approximately 13,800 outfalls.
Waco	City	124,805	NP	0	5	0	54	
<b>TOTAL</b>			<b>9501</b>	<b>98</b>	<b>1399</b>	<b>44</b>	<b>9351</b>	<b>20,349</b>

1. Refer to Permitted Discharger Identification, Data Collection and Coordination, and ROW Analysis and Master Database Process Documentation Memo Dated 10/25/2019 under Contract 577XXSM002, WA2 for additional information.

2. 2010 US Census Data

NP - No data provided by Entity for analysis

\*\*EPA NPDES Major records are a subset of EPA NPDES Records

# **Attachment I**

## **Report the Number and Type of Promotions for Collection of Haz-Waste and Used Motor Oil - BMP 2.3.9.c**

<b>Districts</b>	
<b>Abilene</b>	
Type of Promotion	Intended Audience
N/A	N/A
<b>Amarillo</b>	
Type of Promotion	Intended Audience
N/A	N/A
<b>Austin</b>	
Type of Promotion	Intended Audience
N/A	N/A
<b>Beaumont</b>	
Type of Promotion	Intended Audience
N/A	N/A
<b>Corpus Christi</b>	
Type of Promotion	Intended Audience

<b>Districts</b>	
n/a	n/a
<b>Dallas</b>	
Type of Promotion	Intended Audience
NA	NA
<b>El Paso</b>	
Type of Promotion	Intended Audience
N/A	N/A
<b>Fort Worth</b>	
Type of Promotion	Intended Audience
Smart Scape - NCTCOG	Home Owners, Lanscapers, and Contractors
Doo The Right Thing - NCTCOG	General Audiences addressing pet waste.
NT Community Cleanup Challenge	Used Oil, Hazardous Material and Litter Clean-up
FW District Trash-Off	Cites with On System Highways
N/A	N/A
<b>Houston</b>	
Type of Promotion	Intended Audience
N/A	N/A

<b>Districts</b>	
<b>Laredo</b>	
<b>Type of Promotion</b>	<b>Intended Audience</b>
N/A	N/A

<b>Lubbock</b>	
<b>Type of Promotion</b>	<b>Intended Audience</b>
N/A	N/A

<b>San Antonio</b>	
<b>Type of Promotion</b>	<b>Intended Audience</b>
N/A	N/A

<b>Waco</b>	
<b>Type of Promotion</b>	<b>Intended Audience</b>
Recycle herbicide jugs	TxDOT Maintenance Staff
Recycle used motor oil and filters	TxDOT Area Office Staff
N/A	N/A
N/A	N/A
N/A	N/A

# **Attachment J**

## **Update List of Priority Areas, as Necessary - BMP 2.3.9.d**

**There are no updates to the list of priority areas.**

# **Attachment K**

**See Year 4 Annual Report - Wet Weather Analysis Reporting - BMP 2.3.9.f**

# **Attachment L**

**Report Any USFWS Coordination Conducted During the Reporting Year -  
BMP 2.3.10.b**

<b>Districts</b>	
<b>Austin</b>	
<b>Agency</b>	<b>Coordination</b>
N/A	N/A

# **Attachment M**

**If Changes are Made to the List of Prohibited Discharges, Provide Updated List -  
BMP 3.3.4**

**No changes were made to the List of Prohibited Discharges.**

# **Attachment N**

**Include List of Active NPDES/TPDES Permitted Construction Sites - BMP 3.3.9.a**

## Attachment N

### Active NPDES/TPDES Permitted Construction Sites - BMP 3.3.9

Phase I District	Name	Permit #	Site Location	
Abilene	None			
Amarillo	None			
Austin	Durango Farms Phase 1	TXR1574DB	West of The Intersection of FM 1660 and FM 136 Hutto, TX 78634	
	LCRA - Hornsby Subdivision	TXR1590DC	Harold Green Road .34 miles east of TX-130	
	Heritage Trail West	TXR1519DE	Brushy Creek from Wonder Dr to N Mays St	
	Rivery to Gabriel to Glasscock - LCRA	TXR1524DE	Rivery to Gabriel to Glasscock	
	Parmer Ranch Phase 1	TXR1591DG	Southeast of the Intersection of Ronald Reagan Blvd. and Ranch Road 2338	
	Parmer Ranch Phase 1	TXR1583DG	Southeast of the Intersection of Ronald Reagan Blvd. and Ranch Road 2338	
	Spicewood Trails	TXR15014H	North of the Intersection of SH 71 and Parr Avenue, Spicewood, TX	
	McCoys Building Supply Store 117	TXR1525DK	South of the Intersection of Sh 29 and FM 1869, Liberty Hill, TX	
	McCoys Secondary Operator Notice		South of the intersection of SH 29 and FM 1869, Liberty Hill, TX	
	Oaks at Slaughter	TXR1541DO	Southeast of the Intersection of S. Congress Avenue and Ralph Ablanado Drive Austin, TX	
	Rivery to Gabriel to Glasscock - LCRA	TXR1586DU	Rivery to Gabriel to Glasscock	
	The Canyons At Hch Ranch Phase 1	TXR1532EC	Northeast of the Intersection of Cr 289 and FM 3405 Georgetown, TX	
	Cat Claw Mesa	TXR150000	Northeast of the Intercection of Ranch Road 12 and Ellis Road, Dripping Springs, TX	
	DR Horton Offices At Mccarty Commons	TXR1546EV	Southeast of the Intersection of IH-35 and E. McCarty Lane San Marcos, TX 7	
	Offices At Mccarty Commons	TXR1594EV	Southeast of the Intersection of IH-35 And E. McCarty Lane San Marcos, TX	
	Centerpoint Meadows	TXR1597EX	South of the Intersection of Cr 219 And Borchert Loop	
	Centerpoint Meadows	TXR1502EY	South of the Intersection of Cr 219 and Borchert Loop	
	Loma Vista Expansion	TXR1553EZ	South of the Intersection of Decker Lane and Hog Eye Road	
	Loma Vista Expansion	TXR1520FD	South of the Intersection of Decker Lane and Hog Eye Road	
	McCarty Lane to Strahan Tl Overhaul	TXR1516GJ	McCarty Lane to Strahan	
	Rrisd Support Services Building	TXR1580GJ	Northwest of the Intersection of N. A.W. Grimes Blvd. and Hidden Acres Drive	
	Beaumont	None		
	Corpus Christi	None		
Dallas	Cypress Creek Apartments (Secondary)	TXR150000	South of the intersection of FM 813 (Brown Street) and U.S. Highway 287	
	Cedar Hill to Sorcey Rd	TXR1598DI	Cedar Hill Switch to Camp Wisdom Road And SW to Cedar Ridge Preserve Ending at Sorcey Road Substation	

Phase I District	Name	Permit #	Site Location
Dallas Continued	Plano/ Tennyson to Renner	TXR1599DI	Plano/Tennyson Substation to Renner Switch
	Simpson Stuart to Camp Wisdom Rd	TXR1542DQ	Simpson Start Substation to Camp Wisdom Substation
	Prosper Station Cut In	TXR1518ER	Located in Proper, Tex, 0.85 miles east of the intersection of S Preston Road and E University Drive, and north and adjacent to E University Drive
	Norwood Switch - Denton Drive Switch 138 kV Line Rebuild	TXR1559DK	Denton Drive Sub located 600 ft. south of Bachman Lake
	Plano Shiloh Substation Expansion Project	TXR150000	The project site is located approximately 1,000 feet north of the Shiloh Road and E Plano Parkway intersection
	Concrete Batch Pant Mg 9040	TXR1558FI	From the Intersection of N Galloway Avenue and Interstate 30 Frontage Road, Go SW 50 Feet to entrance
	Camp Wisdom to Love Bird Tap	TXR1574GH	.25 Miles North of Love Bird Substation
	El Paso	None	
Fort Worth	Duval to Bryan Tap	TXR1503EH	Duval Sub 1600 Duval St, Ft Worth
	Timberveiw Switch	TXR1587EQ	350 feet northwest of the intersection of Anglin Drive and Everman Kennedale Road
	Duval Station Expansion Project	TXR150000	NW Corner of the Intersection of Duval Street and Elmwood Avenue
Houston	Northgrove Section 13	TXR1558DD	Located at the intersection of FM 2978 and Carraway Lane
	Fuel Maxx 64 Gas Station	TXR15000	7815 E Sam Houston Parkway
	AVEX - Land Development	TXR1507DU	1 Mile West of Intersection of Longenbaugh Road and Katy Hockley Road
	Northcrest Industrial Park	TXR1562DL	NE Corner of Spring Steubner and Northcrest Drive
	Northstar	TXR1507DU	Southwest Corner of Sendera Ranch Blvd and Northstar Parkway
	Mulching Facility #1	TXR05EU76	23995 Highway 59, Porter
	Prose Champions Apartments	TXR1526EV	6701 FM 1960 Rd W
	Prose Champions Apartments	TXR1518FE	6701 FM 1960 Rd W
Laredo	None		
Lubbock	None		
San Antonio	Parkside	TXR1533DH	Northeast of the Intersection of SH 46 and Pieper Road
	Parkside Unit 1 and Road Improvements	TXR1521DI	Northeast of the Intersection of State Highway 46 & Pieper Road
	North Kuehler 42 inch Sewer Upgrade	TXR1578DN	Northwest of the Intersection of Rio Drive and Madrid Drive
	Preserve at Culebra Unit 1	TXR1559DR	Southwest of the Intersection of FM 471 Culebra Road and Kallison Bend San Ant
	Preserve at Culebra Unit 1	TXR1580DR	Southwest of the Intersection of FM 471 Culebra Road and Kallison Bend
	Big Foot Moore Transmission Line Rebuild	TXR1550DZ	Between Big Foot Substation and Moore Substation - North of Moore and North of FM 462 on FM 2615
	Byrom I-10 Storage	TXR1558EB	Southwest of the Intersection of I-10 Frontage Road and Weir Road
	Elizondo Subdivision Unit 1	TXR1532GD	Northeast of the Intersection of Freudenburg Road and I-10 East Frontage Road

<b>Phase I District</b>	<b>Name</b>	<b>Permit #</b>	<b>Site Location</b>
<b>San Antonio Continued</b>	Houston 410 Relocation Crossing	TXR1506GH	300 Se Loop 410 Southern Portion of the Property and 305 SE Loop 410 Central Portion of the Property
	Elizondo Subdivision Unit 1	TXR1559GJ	Northeast of the Intersection of Freudenburg Road and I-10 East Frontage Road
	Crosby Lynchburg Phase 1	TXR1557GI	Intersection of North Lake Houston Pkwy
<b>Waco</b>	Stagecoach Substation and Line Work	TXR1599EJ	Approximately 850 feet NE of Shimla Drive and Rusack Drive Intersection in Bell County

# **Attachment 0**

## **Report Any Changes to Current Regulatory Mechanisms - BMP 4.3.2**

### Changes to Regulatory Mechanisms

No changes to regulatory mechanisms.

NA

NA

NA

NA

# **Attachment P**

## **Map of Permanent Structural Controls - BMP 5.3.2.c**

**Structural controls are displayed on the map found in Attachment E.**

# Attachment Q

**See Year 4 Annual Report - Impaired Waterbodies and POCs Identified and  
Update SWMP, Tables 7.2 and 7.3 - BMP 7.3.1**

Name of TMDL	POC
N/A	N/A

# **Texas Department of Transportation**

## **Statewide Stormwater Management Program**

### **Pollutants of Concern**

**October 2020**

#### **Overview**

TRC Environmental Corporation (TRC) was retained by the Texas Department of Transportation (TxDOT) and authorized by Work Authorization (WA) Number 2 under Contract 579XXSM004, to perform additional environmental services required to meet the conditions of TxDOT's Texas Pollutant Discharge Elimination System (TPDES) Municipal Separate Storm Sewer System (MS4) permit. Per the MS4 permit, TxDOT must meet permit conditions and implement a Statewide Stormwater Management Program (SWMP). As part of this effort, TxDOT must annually assess whether the MS4 discharges directly into an Impaired Water Body (IWB) and determine if those MS4 discharges would be likely to contain pollutants of concern (POCs), pursuant to the latest TCEQ and Environmental Protection Agency (EPA) approved Clean Water Act (CWA) Texas 303(d) list.

This document provides a summary of the updated list of stream segments and associated pollutants of concern (POCs) presented in the attached TxDOT SWMP Tables 7.2 and 7.3. To complete this summary, TRC assessed each TxDOT MS4 area discharging directly into an IWB with or without an approved total maximum daily load (TMDL). All updates were made in accordance with the 2020 Texas Integrated Report 303(d) list recently approved by the EPA on May 12, 2020. Additionally, this document further discusses potential significant sources of bacteria impairment, or lack thereof, within the MS4, and POCs not previously identified within the MS4 during prior annual IWB assessment reviews.

#### **Analysis of Existing Approved TMDLs and Implementation Plans with TxDOT Best Management Practices (BMPs)**

To update SWMP Table 7.2, TRC evaluated completed TMDL and Implementation Plans ("I-Plans") listed by TxDOT resulting in the addition of 17 approved TMDLs and I-Plans across 6 TxDOT Districts, bringing the total number of existing TMDLs and I-Plans included within Table 7.2 to 72 across 13 TxDOT Districts. Updates made to SWMP Table 7.2 are described below:

#### **Segment TMDLs and I-Plans added to Table 7.2**

- I-Plan Segment 1113 – Armand Bayou, subsumed in the BIG I-Plan approved 1/30/2013, Houston District
- I-Plan Segment 1102F – Clear Creek, subsumed in the BIG I-Plan approved 1/30/2013, Houston District

- I-Plan Segment 1806D, 1806E – Guadalupe River Above Canyon Lake, approved 8/31/2011, San Antonio District
- I-Plan Segment 2425B – Jarbo Bayou, subsumed in the BIG I-Plan approved 1/30/2013, Houston District
- I-Plan Segment 1008J, 1010C – Lake Houston Watersheds, subsumed in the BIG I-Plan approved 1/30/2013, Houston District
- I-Plan Segment 1602, 1602B – Lavaca River Above Tidal, approved 8/14/2019, Yoakum District
- I-Plan Segment 2004, 2004B – Mission and Aransas Rivers, approved 5/25/2016, Corpus Christi District
- I-Plan Segment 0841Q – Mountain Creek Lake Upstream Watersheds, subsumed in the Greater Trinity I-Plan approved 12/11/2013, Fort Worth District
- I-Plan Segment 1209 – Navasota River Below Lake Limestone, approved 8/28/2019, Bryan District
- I-Plan Segment 2485A – Oso Creek, not yet approved, Corpus Christi District
- I-Plan Segment 1910 – Salado Creek, I-Plan not needed, San Antonio District
- I-Plan Segment 1015A – San Jacinto River East and West forks, subsumed in the BIG I-Plan approved 1/30/2013, Houston District
- I-Plan Segment 1007A – Sims Bayou, subsumed in the BIG I-Plan approved 1/30/2013, Houston District
- I-Plan Segment 0806E – Sycamore Creek, subsumed in the Greater Trinity I-Plan approved 12/11/2013, Fort Worth District
- I-Plan Segment 1501 – Tres Palacios Creek, approved 1/24/2018, Yoakum District
- I-Plan Segment 1245 – Upper Oyster Creek, approved 1/15/2014, Houston District
- I-Plan Segment 1911I – Upper San Antonio River, approved 4/06/2016, San Antonio District

#### **Analysis of TxDOT MS4 Discharging Directly into Impaired Water Bodies**

To update SWMP Table 7.3, TRC evaluated newly listed IWB stream segment lists and identified multiple segments to either include, remove, or partially remove from the table. The evaluation identified 18 of 25 TxDOT Districts directly discharging into IWBs. This evaluation includes new segments found in most all districts previously represented on Table 7.3. The evaluation also included the removal of the Odessa District from Table 7.3 and the addition of the Paris District to Table 7.3, which was not previously represented. The updates made to Table 7.3 under this work authorization were as follows:

### **Segments added to Table 7.3**

Segments were added to Table 7.3 based on the following reasons (1) the segment was added to the 2020 Texas 303(d) list, (2) POCs were added to current segments found on Table 7.3, and (3) the MS4 area was expanded thus including the segment.

- Segment 0103A– East Amarillo Creek, Amarillo District, Added in 2018
- Segment 1248C – Mankins Branch, Austin District
- Segment 1403A – Bull Creek, Austin District
- Segment 1427A – Slaughter Creek, Austin District
- Segment 1429C – Waller Creek, Austin District
- Segment 0501B – Little Cypress Bayou, Beaumont District
- Segment 0601 – Neches River Tidal, Beaumont District Segment 0702A – Alligator Bayou and Main Canals A, B, C, and D, Beaumont District
- Segment 0801C – Cotton Bayou, Beaumont District
- Segment 1242B – Cottonwood Branch, Bryan District
- Segment 1242C – Still Creek, Bryan District
- Segment 2482 – Nueces Bay, Corpus Christi District
- Segment 2484 - Corpus Christi Inner Harbor, Corpus Christi District
- Segment 2485A – Oso Creek, Corpus Christi District
- Segment 2485OW – Oso Bay (Oyster Waters), Corpus Christi District
- Segment 0819 – East Fork Trinity River, Bacteria added in 2020, Dallas District
- Segment 0820B – Rowlett Creek, Dallas District
- Segment 0821C– Wilson Creek, Dallas District
- Segment 0821D – East Fork Trinity Above Lake Lavon, Dallas District
- Segment 0827A – White Rock Creek Above White Rock Lake, Dallas District
- Segment 0841A – Mountain Creek Lake, Dallas District
- Segment 0841I – Dry Branch Creek, Dallas District
- Segment 0841Q – North Fork Fish Creek, Dallas District
- Segment 2308 – Rio Grande Below International Dam, El Paso District
- Segment 0806D – Marine Creek, Fort Worth District
- Segment 0807 – Lake Worth, Fort Worth District
- Segment 0809B – Ask Creek, Fort Worth District
- Segment 0809C – Dossier Creek, Fort Worth District
- Segment 0828A – Village Creek, Fort Worth District
- Segment 0829A – Lake Como, Fort Worth District
- Segment 0841P – North Fork Cottonwood Creek, Fort Worth District
- Segment 1004J – White Oak Creek, Houston District

- Segment 1007I – Plum Creek Above Tidal, Houston District
- Segment 1007K – Country Club Bayou Above Tidal, Houston District
- Segment 1007R – Hunting Bayou Above Tidal, Houston District
- Segment 1010 – Caney Creek, Houston District
- Segment 1013A – Little White Oak Bayou, Houston District
- Segment 1014C – Horsepen Creek, Houston District
- Segment 1014M – Newman Branch (Neimans Bayou), Houston District
- Segment 1101E – Unnamed Tributary of Clear Creek Tidal, Houston District
- Segment 1103A – Bensons Bayou, Houston District
- Segment 1103B – Bordens Gully, Houston District
- Segment 1103C – Geisler Bayou, Houston District
- Segment 1103G – Unnamed Tributary of Gum Bayou, Houston District
- Segment 1103F – Unnamed Tributary of Dickson Bayou Tidal, Houston District
- Segment 1109 – Oyster Creek Tidal, Houston District
- Segment 1245C – Bullhead Bayou, Houston District
- Segment 1245F – Alcorn Bayou, Houston District
- Segment 2421B – Little Cedar Bayou, Houston District
- Segment 2424A – Highland Bayou, Houston District
- Segment 2424C – Marchand Bayou, Houston District
- Segment 2424G – Highland Bayou Diversion Canal, Houston District
- Segment 2425 – Clear Lake, Houston District
- Segment 2425B – Jarbo Bayou, Houston District
- Segment 2426C – Goose Creek Tidal, Houston District
- Segment 2431C – Unnamed Tributary to the Southern Arm of Moses Lake (West), Houston District
- Segment 2432A – Mustang Bayou, Houston District
- Segment 1241A – North Fork Double Mountain Fork Bravos River, Lubbock District
- Segment 0202E – Post Oak Creek, Paris District
- Segment 1811A – Dry Comal Creek, San Antonio District
- Segment 1902A – Martinez Creek, San Antonio District
- Segment 1911I – Martinez Creek, San Antonio District
- Segment 0505B – Grace Creek, Tyler District
- Segment 0506A – Harris Creek, Tyler District
- Segment 0606D – Black Fork Creek, Tyler District
- Segment 0611D – West Mud Creek, Tyler District
- Segment 1218C – Little Nolan Creek, Waco District

- Segment 1218D – Long Branch, Waco District

### **Segments removed from Table 7.3**

Segments were removed from Table 7.3 based on the following reasons (1) the segment is no longer present on 2020 Texas 303(d) list, (2) the segment falls outside the TxDOT MS4 and right of way (ROW), and (3) the segment POC was moved to another assessment unit (AU) or the POC is no longer an impairment to the segment.

- Segment 0103 – Canadian River Above Lake Meredith, not in MS4, Amarillo District
- Segment 1212 – Somerville Lake, not in MS4, Austin District
- Segment 1214 – San Gabriel River, sulfate removed 2016, chloride removed 2018, Austin District
- Segment 1248 – San Gabriel/North Fork San Gabriel, TDS removed 2016, chloride removed 2018, Austin District
- Segment 1403 – Lake Austin, depressed DO removed 2016, Austin District
- Segment 1428 – Colorado River Below Town Lake, segment not on 2020 list, Austin District
- Segment 1429 – Town Lake, TDS, segment not on 2020 List, Austin District
- Segment 1805 – Canyon Lake, not in MS4, Austin District
- Segment 0604 – Neches River Below Lake Palestine, not in MS4, Beaumont District
- Segment 0704 – Hillebrandt Bayou TDS, not in MS4, Beaumont District
- Segment 1209 – Navasota River Below Lake Limestone, not in MS4, Bryan District
- Segment 2485 – Oso Bay, bacteria removed 2008, Corpus Christi District
- Segment 2401 – Laguna Madre, not in MS4, Corpus District
- Segment 0507 – Lake Tawakoni, pH removed in 2016, Dallas District
- Segment 0804 – Trinity River Above Lake Livingston, not in MS4, Dallas District
- Segment 0819 – East Fork Trinity River, TDS removed in 2018, Dallas District
- Segment 0821 – Lavon Lake, segment not on 2020 list, Dallas District
- Segment 0841 – Lower West Fork Trinity River, bacteria removed in 2014, Dallas District
- Segment 2307 – Rio Grande Below Riverside Diversion Dam, not in MS4, El Paso District
- Segment 0804 – Trinity River Above Lake Livingston, not in MS4, Fort Worth District
- Segment 0838 – Joe Pool Lake, segment not on 2020 list, Fort Worth District
- Segment 0841 – Lower West Fork Trinity River, bacteria removed in 2014, Fort Worth District
- Segment 1001 – San Jacinto River Tidal, chlordan, dieldrin, heptachlor epoxide removed in 2016, Houston District
- Segment 1002 – Lake Houston, segment not on 2020 list, bacteria removed in 2016, Houston District
- Segment 1003 – East Fork San Jacinto River, bacteria removed in 2016, Houston District

- Segment 1004 – West Fork San Jacinto River, segment not on 2020 list, bacteria removed in 2016, Houston District
- Segment 1005 – Houston Ship Channel/San Jacinto River Above Tidal, chlordane, dieldrin, heptachlor epoxide removed in 2016, Houston District
- Segment 1006 – Houston Ship Channel Tidal, chlordane, dieldrin, heptachlor epoxide removed in 2016, Houston District
- Segment 1007 – Houston Ship Channel/Buffalo Bayou Tidal, depressed DO removed in 1996, Houston District
- Segment 1008 – Spring Creek, depressed DO removed in 2016, Houston District
- Segment 1013 – Buffalo Bayou Tidal, depressed DO removed in 2010, Houston District
- Segment 1014 – Buffalo Bayou Above Tidal, bacteria removed in 2016, Houston District
- Segment 1016 – Greens Bayou Above Tidal, bacteria removed in 2012, Houston District
- Segment 1017 – Whiteoak Bayou Above Tidal, bacteria removed in 2010, Houston District
- Segment 1101 – Clear Creek Tidal, depressed DO removed at unknown date, Houston District
- Segment 1102 – Clear Creek Above Tidal, bacteria removed in 2010, Houston District
- Segment 1103 – Dickinson Bayou Tidal, bacteria removed in 2016, Houston District
- Segment 1105 – Bastrop Bayou Tidal, depressed DO unknown date, Houston District
- Segment 1113 – Armand Bayou Tidal, bacteria removed in 2016, impaired fish and microbenthic communities removed in 2012, Houston District
- Segment 1245 – Upper Oyster Creek, bacteria removed in 2012, Houston District
- Segment 2424 – West Bay, bacteria removed in 2010, Houston District
- Segment 2425 – Clear Lake, bacteria unknown date, Houston District
- Segment 2429 – Scott Bay, not in MS4, Houston District
- Segment 2436 – Barbours Cut, not in MS4, Houston District
- Segment 2438 – Bayport Channel, not in MS4, Houston District
- Segment 1241 – Double Mountain Fork Brazos River, not in MS4, Lubbock District
- Segment 1412 – Colorado River Below J.B. Thomas, not in MS4, Odessa District
- Segment 2201 – Arroyo Colorado Tidal, not in MS4, Pharr District
- Segment 2491 – Laguna Madre, not in MS4, Pharr District
- Segment 2494 – Brownsville Ship Channel, bacteria removed in 2020, Pharr District
- Segment 2501 – Gulf Waters, not in MS4, Pharr District
- Segment 1421 – Concho River, bacteria removed in 2016, San Angelo District
- Segment 1903 – Medina River Below Medina Diversion Dam, not in MS4, San Antonio District
- Segment 1906 – Lower Leon Creek, depressed DO removed in 2016, San Antonio District
- Segment 1908 – Upper Cibolo Creek, chloride removed in 2018, San Antonio District

- Segment 1910 – Salado Creek, bacteria removed in 2008, depressed DO removed 2004, San Antonio District
- Segment 1911 – Upper San Antonio River, bacteria removed in 2010, San Antonio District
- Segment 0605 – Lake Palestine, not in MS4, Tyler District
- Segment 0611 – Angelina River Above Sam Rayburn Dam, not in MS4, Tyler District
- Segment 1226 – North Bosque River, not in MS4, Waco District

### **Pollutants of concern requiring further evaluation**

Previous evaluations of POC contributions to impaired waters from the TxDOT MS4 area were outlined by TRC in reports titled *Pollutants of Concern Description*, dated November 2017, and *Texas Department of Transportation Statewide Storm Water Management Program Pollutants of Concern*, dated February 2019. Further evaluation of newly listed stream segments within Table 7.3 yielded additional POCs requiring further analysis. Specifically, copper, toxicity in water, and bacteria were evaluated during this permit term to determine TxDOT’s potential contribution to IWB, which is presented in the following.

#### ***Copper in Water***

To determine TxDOT’s copper contribution to IWB, TRC evaluated copper sources, TxDOT’s copper usage, and streams within TxDOT’s ROW. Copper is a metal occurring naturally throughout the environment, including plants and animals, and is typically used in the production of metal alloys for items such as wire, metal piping, and various other metal products (ASDR 2004). Significant sources of copper can be generally released through copper mining and the mining of other metals, but can also enter the environment through waste dumps, the combustion of fossil fuels, domestic wastewater, and the production of wood and fertilizers (ASDR 2004). Copper can often be emitted into the air, or enter into the environment through stormwater runoff, from these production sources, eventually collecting in the sediment of nearby rivers, lakes, and estuaries (ASDR 2004). Over time, high concentrations of copper in water can lead to negative health effects on animals and humans.

Section 5.3.6(1) of TxDOT’s SWMP states that TxDOT identified copper as a potential POC that could discharge during standard roadway operation and maintenance activities. These activities include, but are not limited to, bridge maintenance (e.g. saw cutting, chipping, grinding), road and parking lot maintenance, and ROW maintenance (e.g. mowing, herbicide, pesticide, and fertilizer applications) (TxDOT 2017a). TxDOT has however implemented multiple controls to reduce the discharge of pollutants from pesticides, herbicides, and fertilizers, including proper vegetation management, using licensed applicators, and the use of proper mowing and application coordination (TxDOT 2017a). These measures, along with TxDOT’s usage of more environmentally benign materials and their potential POC exposure limitation through operational changes, has resulted in an approximate 57% reduction of total copper concentrations through TxDOT processes, according to

TxDOT studies (TxDOT 2017a). In addition to these measure taken by TxDOT, a January 21, 2015 Memorandum of Understanding (MOU) between the U.S. EPA and the automotive industry, has committed to the reduction of copper and other compounds used in motor vehicle brake pads to <5 percent by weight by 2021, thus greater reducing this potential source of copper within the MS4 (EPA).

Copper is identified as a POC for three IWB segments listed to the Texas 303(d) list in 2016, which are located in the TxDOT Corpus Christi and Houston Districts. The Segments include *Segment 2482 – Nueces Bay* and *Segment 2484 – Corpus Christi Inner Harbor*, which are two connected bodies of water in the Corpus Christi District and *Segment 2425 – Clear Lake* located just outside League City, Texas, in TxDOT’s Houston District.

As a general practice, TxDOT does not conduct the industrial activities (i.e., metal manufacturing, manage waste landfills, or maintain major metal or fertilizer storage) that are considered significant copper contributors and TxDOT does not have any storage yards within these stream contribution zones. The burning of fossil fuels within their ROW, and the minor copper contributions that may occur through typical roadway maintenance does not suggest that they would be a major source of copper.

### ***Toxicity in Water***

Substances resulting in the toxicity of water vary extensively, including contribution from various organic and inorganic compounds, heavy metals, polychlorinated biphenyls (PCBs), oils, chemicals, and even nutrients. These substances often bioaccumulate in rivers, lakes, and estuaries, which effect aquatic plant and animal life, as well as human health. Often the most significant sources of these pollutants come from point sources such as manufacturing, chemical and oil spills, leaky wastewater systems, and illegal dumping but occasionally come from nonpoint sources like agricultural or stormwater runoff as well (Denchak 2018).

TxDOT is not a major contributor of toxicity in water since it does not operate wastewater treatment plants or conduct industrial, mining, or oil and gas activities within the MS4 ROW, which can result in the release of various, chemicals, nitrates, pathogens, and other contaminants. Only minor contributions of toxicity in water have the potential to occur within the TxDOT MS4. These potential contributions include oil runoff and heavy metal deposits from passing cars and traffic accidents as well as other minor contributions from fertilizers, herbicides and pesticides used when maintaining TxDOT ROWs. Each of these contributions is considered negligible; however, TxDOT closely monitors these activities and uses both structural and non-structural controls to manage stormwater runoff from the TxDOT ROW, reducing the potential for POC contributions into MS4 water bodies. These controls and other best management practices minimize and prevent TxDOT from being a significant source of toxicity in water.

## ***Bacteria***

*[Source: 2017 SWMP (TxDOT, 2017a)]*

TxDOT does not own or operate sanitary sewer systems or on-site sewage facilities within its regulated area. Illicit discharges from septic systems, grease traps, and grit traps do not originate from the TxDOT MS4; rather the illicit discharges originate from adjacent MS4s and third-party discharges into the TxDOT MS4. In addition, there are no rest areas constructed within TxDOT's MS4 regulated area; therefore, pet wastes are not a potential source of bacteria to the TxDOT MS4.

To further identify potential animal sources for bacteria on TxDOT's regulated area, TxDOT utilizes current research studies performed by the Bacteria Sources Tracking group of the Texas Water Resources Institute (TWRI), and TxDOT's own research programs.

Bacteria Sources Tracking (BST) is a methodology that is currently being used to determine the sources of fecal bacteria in environmental samples (e.g., from human, livestock or wildlife origins, and faulty on-site waste disposal systems). The BST group has compiled a bacteria DNA library that includes bacteria pollution indicators and fecal bacteria source indicators to quantify possible impacts to water from animal and sewage wastes. The BST's research indicates that *Escherichia coli* (E. Coli), Total Coliform (TC), and Fecal Coliform (FC) sources are associated with the gastrointestinal tracts of humans and warm-blooded animals while Fecal Streptococci (FS) and Enterococci Groups sources of bacteria are in animal feces.

BST assessments indicate contributions made by humans, avian and non-avian wildlife, as well as domestic animals, account for appreciable bacteria loading within water bodies with little seasonal fluctuation (TCEQ 2014). Some targeted studies conducted on birds roosting under TxDOT bridges and overpasses suggest that nesting birds can lead to elevated levels of bacteria (TIAER 2013), however the presence of avian wildlife alone often does not serve as the sole significant source contribution of bacteria due to the migratory nature of roosting species and the contributions made from non-avian species. Cliff Swallows, for example, are a common Texas migratory bird that roost from March to August (UGRA 2018) having the potential to create temporary elevated bacteria levels during annual migrations. Studies conducted on roosting Cliff Swallows in Texas have indicated that under wet weather conditions bacteria contributions were found to have exceeded the recreation contact criteria for E. Coli when the birds were both present and absent (JAWRA 2011). These exceedances during wet weather conditions are likely a result of various upstream bacteria sources such as wastewater treatment plants and dog parks, etc. when birds are not present and from accumulated feces on terrestrial surfaces being washed into downstream waterways when the birds are present. This data further indicates that though roosting birds can make significant bacteria contributions to underlying surface waters, focusing on less difficult to control bacteria sources such as upstream waste water treatment facilities and parks is more practicable than controlling the movements and roosting habits of wild birds and other avian species (JAWRA 2011).

As demonstrated above, though bridges and overpasses located within TxDOT's regulated area have the potential for bacteria contributions from roosting and nesting avian wildlife, these structures should not be considered a major source of bacteria as elevated concentrations generally occur during migratory periods or during occasional wet weather period spikes. These concentration increases are often compounded by other, more regulatable upstream bacteria sources not controlled by TxDOT. TxDOT remains committed to the implementation of necessary BMPs, if identified and assigned in any approved I-Plans, to reduce bacteria to the maximum extent practicable. This commitment includes all stream segments with approved TMDLs found during the 2020 analysis of IWB stream segments within the TxDOT MS4 in which bacteria was a POC and for all other future stream segments in which bacteria may be listed as a POC of concern.

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Table 7.2

EXISTING APPROVED TMDLS AND IMPLEMENTATION PLANS (I-Plans) WITH TXDOT'S BMPS							
District Name	Segment Number	Segment Name	Pollutant of Concern	TMDL Adopted	IP Approval	Is TxDOT MS4 potential source for impairment?	TxDOT <sup>1</sup> BMPS
WAC	1254	Aquilla Reservoir	Atrazine	Original 3/23/01; Revised 6/14/02	1/18/2002	No	-
HOU	1113, 1113A, 1113B, 1113C, 1113D, 1113E	Armand Bayou in the Houston-Galveston Region	Bacteria	8/5/2015	Subsumed in BIG I-Plan approved 01/30/2013	No	-
HOU	1113	Armand Bayou in the Houston-Galveston Region, Addendum I	Bacteria	Submitted via WQMP 10/2018	Subsumed in BIG I-Plan approved 01/30/2013	No	-
PHR	2202 2202A	Arroyo Colorado  Donna Reservoir (Unclassified Waterbody)	DDE, Chlordane, Toxaphene  PCBs	1/17/2001	9/14/2001	No	-
PHR	2202	Arroyo Colorado	DDT, DDD, dieldrin, endrin, lindane, hexachlorobenzene, heptachlor, heptachlor epoxide	7/25/2003	Same activities as in I-Plan approved 9/14/2001	No	-
AUS	Waller Creek, 1429C; Walnut Creek, 1428B; Spicewood Tributary to Shoal Creek, 1403J; and Taylor Slough South, 1403K	Austin Area Watersheds	Bacteria	1/21/2015	1/21/2015	No	-
AUS	Walnut Creek, Segments 1428B_01, 1428B_02, 1428B_03, and 1428B_04	Austin Area Watersheds Attachment	Bacteria	Submitted via WQMP 04/2015	Same activities as in I-Plan approved 01/21/2015	No	-
HOU	1007B, 1007C, 1007E, 1007L	Brays Bayou in the Houston-Galveston Region	Bacteria	9/15/2010	BIG I-Plan approved 01/30/2013	No	-

<sup>1</sup> TxDOT not a potential source for impairment. TxDOT employs statewide BMPS to reduce pollutant contributions to water bodies.

Table 7.2

EXISTING APPROVED TMDLS AND IMPLEMENTATION PLANS (I-Plans) WITH TXDOT'S BMPS							
District Name	Segment Number	Segment Name	Pollutant of Concern	TMDL Adopted	IP Approval	Is TxDOT MS4 potential source for impairment?	TxDOT <sup>1</sup> BMPS
HOU	1007S, 1007T, 1007U	Brays Bayou in the Houston-Galveston Region, Addendum I	Bacteria	Submitted via WQMP 04/2013	Subsumed in BIG I-Plan approved 01/30/2013	No	-
HOU	1013, 1013A, 1013C, 1014, 1014A, 1014B, 1014E, 1014H, 1014K, 1014L, 1014M, 1014N, 1014O, 1017, 1017A, 1017B, 1017D, 1017E	Buffalo and White Oak Bayous in the Houston-Galveston Region	Bacteria	4/8/2009	BIG I-Plan approved 01/30/2013	No	-
HOU	1017C	Buffalo and White Oak Bayous in the Houston-Galveston, Addendum I	Bacteria	04/2013	Subsumed in BIG I-Plan approved 01/30/2013	No	-
HOU	1017F	Buffalo and White Oak Bayous in the Houston-Galveston, Addendum II	Bacteria	04/2015	Subsumed in BIG I-Plan approved 01/30/2013	No	-
BRY	1209C, 1209D, 1209L	Carters Creek Watershed	Bacteria	8/22/2012	8/22/2012	No	-
HOU	1101, 1102	Clear Creek Above and Below Tidal	Chlordane	1/17/2001	9/14/2001	No	-
HOU	1101, 1102	Clear Creek Above and Below Tidal	Trichloroethane, Dichloroethane	Original 02/9/01; Revised 06/14/02	10/12/2001	No	-
HOU	1101, 1101B, 1101D, 1102, 1102A, 1102B, 1102C, 1102D, 1102E	Clear Creek and Tributaries in the Houston-Galveston Region	Bacteria	9/10/2008	BIG I-Plan approved 01/30/2013	No	-

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Table 7.2

EXISTING APPROVED TMDLS AND IMPLEMENTATION PLANS (I-Plans) WITH TXDOT'S BMPs							
District Name	Segment Number	Segment Name	Pollutant of Concern	TMDL Adopted	IP Approval	Is TxDOT MS4 potential source for impairment?	TxDOT <sup>1</sup> BMPs
HOU	1101A, 1101C, 1101E, and 1102G	Clear Creek and Tributaries in the Houston-Galveston Region, Addendum I	Bacteria	Submitted via WQMP 10/2012	Subsumed in BIG I-Plan approved 01/30/2013	No	-
HOU	1102F	Clear Creek and Tributaries in the Houston-Galveston Region, Addendum II	Bacteria	Submitted via WQMP 10/2018	Subsumed in BIG I-Plan approved 01/30/2013	No	-
SJT	1426	Colorado River Below E.V. Spence Reservoir	Chloride, Total Dissolved Solids	2/7/2007	10/10/2007	No	-
DAL	0822A, 0822B	Cottonwood Branch and Grapevine Creek in the Greater Trinity Region	Bacteria	9/21/2011	Greater Trinity I-Plan approved 12/11/2013	No	-
DAL	0805, 0841	Dallas Legacy	Chlordane, DDD, DDE, DDT, PCBs, Chlordane, Dieldrin, Heptachlor epoxide	12/20/2000	8/10/2001	No	-
HOU	1103, 1103A, 1103B, 1103C, 1104	Dickinson Bayou	Bacteria	2/8/2012	1/15/2014	No	-
HOU	1103, 1103D, 1103E	Dickinson Bayou, Addendum I	Bacteria	Submitted via WQMP 07/2016	Same activities as in I-Plan approved 01/15/2014	No	-

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Table 7.2

EXISTING APPROVED TMDLS AND IMPLEMENTATION PLANS (I-Plans) WITH TXDOT'S BMPs							
District Name	Segment Number	Segment Name	Pollutant of Concern	TMDL Adopted	IP Approval	Is TxDOT MS4 potential source for impairment?	TxDOT <sup>1</sup> BMPs
HOU	1006F, 1006H, 1007F, 1007G, 1007H, 1007I, 1007K, 1007M, 1007O, 1007R	Eastern Houston in the Houston-Galveston Region	Bacteria	9/15/2010	BIG I-Plan approved 01/30/2013	No	-
HOU	1007V	Eastern Houston in the Houston-Galveston Region, Addendum I	Bacteria	Submitted via WQMP 04/2013	Through BIG I-Plan approved 01/30/2013	No	-
SJT	1411	E.V. Spence	Sulfate, TDS	Original 11/17/2000; Revised 06/14/2002	8/10/2001	No	-
FTW	0806, 0806A, 0806B, 0829, 0829A	Fort Worth Legacy	Chlordane, DDE, PCBs, Chlordane, Dieldrin	11/17/2000	7/13/2001	No	-
AUS	1428C	Gilleland Creek	Bacteria	8/08/2007	2/09/2011	No	-
HOU	1016, 1016A, 1016B, 1016C, and 1016D	Greens Bayou in the Houston-Galveston Region	Bacteria	6/02/2010	BIG I-Plan approved 01/30/2013	No	-
SAT	1806	Guadalupe River Above Canyon Lake	Bacteria	7/25/2007	8/31/2011	No	-
SAT	1806D, 1806E	Guadalupe River Above Canyon Lake, Addendum I	Bacteria	Submitted via WQMP 01/2018	Same activities as I-Plan approved 8/31/2011	No	-
HOU	1006D, 1006I, 1006J	Halls Bayou in the Houston-Galveston Region	Bacteria	9/15/2010	BIG I-Plan approved 01/30/2013	No	-

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Table 7.2

EXISTING APPROVED TMDLS AND IMPLEMENTATION PLANS (I-Plans) WITH TXDOT'S BMPs							
District Name	Segment Number	Segment Name	Pollutant of Concern	TMDL Adopted	IP Approval	Is TxDOT MS4 potential source for impairment?	TxDOT <sup>1</sup> BMPs
HOU	1001, 1005, 1006, 1007, 1013, 1014, 1016, 1017, 2426, 2427, 2428, 2429, 2430, 2436	Houston Ship Channel	Nickel	Original 08/11/2000; Revised 06/14/2002	7/13/2001	No	-
HOU	2425B	Jarbo Bayou	Bacteria	01/24/2018	Subsumed in BIG I-Plan approved 1/30/13	No	-
AUS	1403	Lake Austin	DO	11/17/2000	7/13/2001	No	-
HOU	1004E, 1008, 1008H, 1009, 1009C, 1009D, 1009E, 1010, and 1011	Lake Houston Upstream Watersheds in the Houston-Galveston Region	Bacteria	4/06/2011	BIG I-Plan approved 01/30/2013	No	-
HOU	1008B, 1008C, 1008E, and 1011	Lake Houston Watersheds in the Houston-Galveston Region, Addendum I	Bacteria	Submitted via WQMP 10/2013	Subsumed in BIG I-Plan approved 1/30/2013	No	-
HOU	1008J, 1010C	Lake Houston Watersheds in the Houston-Galveston Region, Addendum I	Bacteria	Submitted via WQMP 10/2019	Subsumed in BIG I-Plan approved 1/30/2013	No	-
ATL	0403	Lake O' the Pines	DO	4/12/2006	7/09/2008	No	-
FTW	0807	Lake Worth Watershed	PCBs	8/10/2005	8/23/2006	No	-

<sup>1</sup> TxDOT not a potential source for impairment. TxDOT employs statewide BMPs to reduce pollutant contributions to water bodies.

Table 7.2

EXISTING APPROVED TMDLS AND IMPLEMENTATION PLANS (I-Plans) WITH TXDOT'S BMPs							
District Name	Segment Number	Segment Name	Pollutant of Concern	TMDL Adopted	IP Approval	Is TxDOT MS4 potential source for impairment?	TxDOT <sup>1</sup> BMPs
FTW	0808	Lake Worth Watershed, Addendum I	PCBs	Submitted via WQMP 07/2014	Same activities as in I-Plan approved 08/23/2006	No	-
YKM	1602, 1602B	Lavaca River Above Tidal and Rocky Creek	Bacteria	08/14/2019	08/14/2019	No	-
SAT	2110	Lower Sabinal River	Nitrate-nitrogen	8/10/2005	8/23/2006	No	-
SAT	1901	Lower San Antonio River	Bacteria	8/20/2008	8/18/2018	No	-
FTW	0841, 0841B, 0841C, 0841E, 0841G, 0841H, 0841J, 0841L, 0841M, 0841R, 0841T, and 0841U	Lower West Fork Trinity River Watersheds in the Greater Trinity Region	Bacteria	09/24/2013	Greater Trinity I-Plan approved 12/11/2013	No	-
CRP	2001, 2003	Mission and Aransas Rivers	Bacteria	5/25/2016	5/25/2016	No	-
CRP	2004, 2004B	Mission and Aransas Rivers, Addendum I	Bacteria	Submitted via WQMP 10/2017	Same activities as in I-Plan approved 05/25/2016	No	-
FTW	0841F, 0841K, 0841N, 0841V	Mountain Creek Lake Upstream Watersheds in the Greater Trinity Region	Bacteria	11/2/2016	Subsumed in Greater Trinity I-Plan approved 12/11/2013	No	-
FTW	0841Q	Mountain Creek Lake Upstream Watersheds in the Greater Trinity Region, Addendum I	Bacteria	Submitted via WQMP 10/2019	Subsumed in Greater Trinity I-Plan approved 12/11/2013	No	-

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Table 7.2

EXISTING APPROVED TMDLS AND IMPLEMENTATION PLANS (I-Plans) WITH TXDOT'S BMPs							
District Name	Segment Number	Segment Name	Pollutant of Concern	TMDL Adopted	IP Approval	Is TxDOT MS4 potential source for impairment?	TxDOT <sup>1</sup> BMPs
BRY	1209	Navasota River Below Lake Limestone	Bacteria	08/28/2019	08/28/2019	No	-
WAC	1226, 1255	North Bosque River	Phosphorus	2/09/2001	12/13/2002	No	-
CRP	2482	Nueces Bay	Zinc in Oyster Tissue	11/01/2006	10/24/2007	No	-
BMT	0508, 0508A, 0508B, 0508C, 0511, 0511A, 0511B, 0511C, and 0511E	Orange County Watersheds	Bacteria, Dissolved Oxygen, pH	6/13/2007	8/05/2015	No	-
CRP	2485	Oso Bay	Bacteria	8/22/2007	NA	No	-
CRP	2485A	Oso Creek	Bacteria	07/31/20019	NA	No	-
CRP	2204	Petronila Creek Above Tidal	Chloride, Sulfate, Total Dissolved Solids	1/10/2007	10/10/2007	No	-
SAT	1910	Salado Creek	DO	10/21/2001	Creek is supporting the aquatic life use, so an IP is not needed.	No	-
HOU	1002, 1003, 1004, 1004D	San Jacinto River, East and West Forks; Lake Houston; and Crystal Creek in the Houston-Galveston Region	Bacteria	8/24/2016	Subsumed in BIG I-Plan approved 1/30/2013	No	-

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Table 7.2

EXISTING APPROVED TMDLS AND IMPLEMENTATION PLANS (I-Plans) WITH TXDOT'S BMPS							
District Name	Segment Number	Segment Name	Pollutant of Concern	TMDL Adopted	IP Approval	Is TxDOT MS4 potential source for impairment?	TxDOT <sup>1</sup> BMPS
HOU	1015A	San Jacinto River, East and West Forks; Lake Houston; and Crystal Creek in the Houston-Galveston Region, Addendum I	Bacteria	Submitted via WQMP 10/2018	Subsumed in BIG I-Plan approved 1/30/2013	No	-
HOU	1007A, 1007D, 1007N	Sims Bayou in the Houston-Galveston Region	Bacteria	9/15/2010	BIG I-Plan approved 01/30/2013	No	-
HOU	1007A	Sims Bayou in the Houston-Galveston Region, Addendum I	Bacteria	Submitted via WQMP 04/2013	Subsumed in BIG I-Plan approved 1/30/2013	No	-
FTW	0806E	Sycamore Creek in the Greater Trinity Region	Bacteria	1/16/2019	Subsumed in the Greater Trinity I-Plan approved 12/11/2013	No	-
YKM	1501	Tres Palacios Creek	Bacteria	1/24/2018	1/24/2018	No	-
HOU	1245	Upper Oyster Creek	Bacteria	8/08/2007	1/15/2014	No	-
HOU	1245	Upper Oyster Creek	DO	07/28/2010	1/15/2014 (bacteria and dissolved oxygen in same plan)	No	-
SAT	1910, 1910A, 1911	Upper San Antonio River	Bacteria	7/25/2007	4/06/2016	No	-

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Table 7.2

<b>EXISTING APPROVED TMDLS AND IMPLEMENTATION PLANS (I-Plans) WITH TXDOT'S BMPs</b>							
<b>District Name</b>	<b>Segment Number</b>	<b>Segment Name</b>	<b>Pollutant of Concern</b>	<b>TMDL Adopted</b>	<b>IP Approval</b>	<b>Is TxDOT MS4 potential source for impairment?</b>	<b>TxDOT<sup>1</sup> BMPs</b>
SAT	1910D, 1911B, 1911C, 1911D, 1911E	Upper San Antonio River, Addendum I	Bacteria	Submitted via WQMP 04/2016	Same activities as in I-Plan approved 04/06/2016	No	-
SAT	1911I	Upper San Antonio River, Addendum II	Bacteria	Submitted via WQMP 10/2019	Same activities as in I-Plan approved 04/06/2016	No	-
HOU	2421, 2422, 2423, 2424, 2432, 2439	Upper Texas Coast Oyster Waters with Addendum I	Bacteria	8/20/2008	8/19/2015	No	-
HOU	2435OW	Upper Texas Coast Oyster Waters—Addendum II	Bacteria	Submitted via WQMP 01/2012	Same activities as in I-Plan approved 08/19/2015	No	-
HOU	2433OW, 2434OW	Upper Texas Coast Oyster Waters—Addendum III	Bacteria	Submitted via WQMP 04/2012	Same activities as in I-Plan approved 8/19/2015	No	-
DAL	0805	Upper Trinity River in the Greater Trinity Region	Bacteria	5/11/2011	Greater Trinity I-Plan approved 12/11/2013	No	-

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Table 7.3

<b>ANALYSES OF TXDOT MS4 DISCHARGING DIRECTLY INTO IMPAIRED WATER BODIES (IWB)</b>						
<b>TxDOT District</b>	<b>303(d) Listed Stream</b>	<b>Stream Segment</b>	<b>Pollutant of Concern</b>	<b>Is TxDOT MS4 potential source for impairment?<sup>1</sup></b>	<b>Does TxDOT MS4 discharge directly into IWB?</b>	<b>River Basin</b>
<b>List Compiled From the 2020 Texas Integrated Report - Texas 303(d) List (Category 5)</b>						
Amarillo	East Amarillo Creek	0103A	Bacteria	No	Yes	Canadian
Austin	Brushy Creek	1244	Bacteria	No	Yes	Brazos
	Mankins Branch	1248C	Bacteria	No	Yes	
	Bull Creek	1403A	Depressed DO	No	Yes	Colorado
	Slaughter Creek	1427A	Impaired macrobenthic communities	No	Yes	
	Waller Creek	1429C	Bacteria, impaired macrobenthic communities	No	Yes	
Beaumont	Little Cypress Bayou	0501B	Bacteria, depressed DO, toxicity in water	No	Yes	Sabine
	Neches River Tidal	0601	Bacteria, PCBs in edible tissue	No	Yes	Neches
	Pine Island Bayou	0607	Depressed DO	No	Yes	

<sup>1</sup> IWBs for pollutants of concern previously deemed not a source for impairment (in the February 2018 TxDOT Stormwater Management Program, Volume 1) not reviewed.

<sup>2</sup> Brake pads could be a potential source, however, per the January 21, 2015 Memorandum of Understanding between the U.S. EPA and the automotive industry, mercury, in addition to copper and other compounds, will be reduced in the use of motor vehicle brake pads. As such, no further action is required by TxDOT.

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	Village Creek	0608	Mercury in edible tissue	Yes <sup>2</sup>	Yes	
	Alligator Bayou and Main Canals A, B, C, and D	0702A	Toxicity in sediment and water	No	Yes	Neches-Trinity Coastal
	Cotton Bayou	0801C	Bacteria, depressed DO	No	No	Trinity River
	Cedar Bayou Tidal	0901	Bacteria, dioxin and PCBs in edible tissue	No	No	Trinity San Jacinto Coastal
Bryan	Cottonwood Branch	1242B	Bacteria	No	Yes	Brazos
	Still Creek	1242C	Bacteria	No	Yes	
Corpus Christi	Corpus Christi Bay (Recreational Beaches)	2481CB	Bacteria	No	Yes	Bays and Estuaries
	Nueces Bay	2482	Copper in water	Yes	Yes	
	Corpus Christi Inner Harbor	2484	Copper in water	Yes	Yes	
	Oso Bay	2485	Depressed DO	No	Yes	
	Oso Creek	2485A	Bacteria	No	No	
	Oso Bay (Oyster Waters)	2485OW	Bacteria (oyster water)	No	Yes	
Dallas	Upper Trinity River	0805	Dioxin and PCBs in edible tissue	No	Yes	Trinity

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<b>TxDOT District</b>	<b>303(d) Listed Stream</b>	<b>Stream Segment</b>	<b>Pollutant of Concern</b>	<b>Is TxDOT MS4 potential source for impairment?<sup>1</sup></b>	<b>Does TxDOT MS4 discharge directly into IWB?</b>	<b>River Basin</b>
	East Fork Trinity River	0819	Bacteria, Sulfate	No	No	
	Rowlett Creek	0820B	Bacteria	No	No	
	Wilson Creek	0821C	Bacteria	No	Yes	
	East Fork Trinity above Lake Lavon	0821D	Bacteria	No	Yes	
	White Rock Creek above White Rock Lake	0827A	Bacteria	No	Yes	
	Lower West Fork Trinity River	0841	Dioxin and PCBs in edible tissue	No	Yes	
	Mountain Creek Lake	0841A	Dioxin in edible tissue	No	Yes	
	Dry Branch Creek	0841I	Bacteria	No	No	
	North Fork Fish Creek	0841Q	Bacteria	No	Yes	
El Paso	Rio Grande Below International Dam	2308	Bacteria	No	No	Rio Grande
	Rio Grande Above International Dam	2314	Bacteria	No	No	
Fort Worth	West Fork Trinity River Below Lake Worth	0806	Dioxin and PCBs in edible tissue	No	Yes	Trinity
	Marine Creek	0806D	Bacteria	No	Yes	
	Lake Worth	0807	Dioxin in edible tissue	No	Yes	
	Ash Creek	0809B	Bacteria	No	Yes	
	Dosier Creek	0809C	Bacteria	No	Yes	

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	Village Creek	0828A	Bacteria	No	Yes	
	Clear Fork Trinity River Below Benbrook Lake	0829	Bacteria, dioxin and PCBS in edible tissue	No	Yes	
	Lower West Fork Trinity River	0841	Dioxin and PCBS in edible tissue	No	Yes	
	North Fork Cottonwood Creek	0841P	Bacteria in water	No	Yes	
Houston	Cedar Bayou Tidal	0901	Bacteria, dioxin and PCBs in edible tissue	No	No	Trinity-San Jacinto Coastal
	San Jacinto River Tidal	1001	Dioxin and PCBs in edible tissue	No	No	San Jacinto
	White Oak Creek	1004J	Bacteria in water	No	No	
	Houston Ship Channel/San Jacinto River Tidal	1005	Dioxin and PCBs in edible tissue	No	No	
	Houston Ship Channel Tidal	1006	Bacteria, dioxin and PCBs in edible tissue, toxicity in sediment	No	Yes	
	Houston Ship Channel/Buffalo Bayou Tidal	1007	Bacteria, dioxin and PCBs in edible tissue, toxicity in sediment	No	Yes	
	Plum Creek Above Tidal	1007I	Depressed DO	No	Yes	
	Country Club Bayou Above Tidal	1007K	Depressed DO	No	Yes	
	Hunting Bayou Above Tidal	1007R	Depressed DO	No	Yes	
	Caney Creek	1010	Bacteria	No	Yes	

<sup>1</sup> IWBs for pollutants of concern previously deemed not a source for impairment (in the February 2018 TxDOT Stormwater Management Program, Volume 1) not reviewed.

<sup>2</sup> Brake pads could be a potential source, however, per the January 21, 2015 Memorandum of Understanding between the U.S. EPA and the automotive industry, mercury, in addition to copper and other compounds, will be reduced in the use of motor vehicle brake pads. As such, no further action is required by TxDOT.

Table 7.3

<b>ANALYSES OF TXDOT MS4 DISCHARGING DIRECTLY INTO IMPAIRED WATER BODIES (IWB)</b>						
<b>TxDOT District</b>	<b>303(d) Listed Stream</b>	<b>Stream Segment</b>	<b>Pollutant of Concern</b>	<b>Is TxDOT MS4 potential source for impairment?<sup>1</sup></b>	<b>Does TxDOT MS4 discharge directly into IWB?</b>	<b>River Basin</b>
	Little White Oak Bayou	1013A	Depressed DO	No	Yes	
	Horsepen Creek	1014C	Bacteria	No	Yes	
	Newman Branch (Neimans Bayou)	1014M	Depressed DO, impaired fish and macrobenthic communities	No	Yes	
	Clear Creek Tidal	1101	Dioxin and PCBs in edible tissue	No	Yes	San Jacinto-Brazos Coastal
	Unnamed Tributary of Clear Creek Tidal	1101E	Depressed DO	No	Yes	
	Clear Creek Above Tidal	1102	PCBs in edible tissue	No	Yes	
	Dickinson Bayou Tidal	1103	Dioxin and PCBs in edible tissue, Depressed DO	No	Yes	
	Bensons Bayou	1103A	Depressed DO	No	Yes	
	Bordens Gully	1103B	Depressed DO	No	Yes	
	Geisler Bayou	1103C	Depressed DO	No	Yes	
	Unnamed Tributary of Dickson Bayou Tidal	1103F	Bacteria, Depressed DO	No	Yes	
	Unnamed Tributary of Gum Bayou	1103G	Bacteria	No	Yes	
	Bastrop Bayou Tidal	1105	Bacteria	No	No	
	Oyster Creek Tidal	1109	Bacteria	No	Yes	

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	Armand Bayou Tidal	1113	Dioxin and PCBs in edible tissue, Depressed DO,	No	Yes	Brazos
	Bullhead Bayou	1245C	Bacteria	No	Yes	
	Alcorn Bayou	1245F	Bacteria	No	Yes	
	Upper Galveston Bay	2421	Dioxin and PCBs in edible tissue	No	No	Bays and Estuaries
	Littler Cedar Bayou	2421B	Bacteria	No	Yes	
	West Bay	2424	Dioxin and PCBs in edible tissue	No	No	
	Highland Bayou	2424A	Bacteria, depressed DO, dioxin and PCBs in edible tissue	No	Yes	
	Marchand Bayou	2424C	Bacteria, depressed DO	No	Yes	
	Highland Bayou Diversion Canal	2424G	Bacteria	No	Yes	
	Clear Lake	2425	Dioxin and PCBs in edible tissue, Copper in water	Yes	Yes	
	Jarbo Bayou	2425B	Dioxin and PCBs in edible tissue	No	Yes	
	Tabbs Bay	2426	Dioxin and PCBs in edible tissue	No	Yes	
	Goose Creek Tidal	2426C	Dioxin and PCBs in edible tissue	No	Yes	
	San Jacinto Bay	2427	Dioxin and PCBs in edible tissue	No	No	

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<b>TxDOT District</b>	<b>303(d) Listed Stream</b>	<b>Stream Segment</b>	<b>Pollutant of Concern</b>	<b>Is TxDOT MS4 potential source for impairment?<sup>1</sup></b>	<b>Does TxDOT MS4 discharge directly into IWB?</b>	<b>River Basin</b>
	Black Duck Bay	2428	Dioxin and PCBs in edible tissue	No	No	
	Burnett Bay	2430	Dioxin and PCBs in edible tissue	No	Yes	
	Unnamed Tributary to the Southern Arm of Moses Lake (West)	2431C	Bacteria	No	Yes	
	Mustang Bayou	2432A	Bacteria	No	Yes	
	Gulf Waters	2501	Bacteria, mercury in edible tissue	Yes <sup>2</sup>	Yes	Gulf of Mexico
Laredo	Rio Grande Below Amistad Reservoir	2304	Bacteria	No	No	Rio Grande
Lubbock	North Fork Double Mountain Fork Brazos River	1241A	Bacteria	No	Yes	Brazos
Paris	Post Oak Creek	0202E	Bacteria	No	Yes	Red
Pharr	Arroyo Colorado Above Tidal	2202	Bacteria, mercury and PCBs in edible tissue	Yes <sup>2</sup>	Yes	Nueces-Rio Grande Coastal
	Rio Grande Below Falcon Reservoir	2302	Bacteria	No	No	Rio Grande
San Angelo	Concho River	1421	Bacteria, Depressed DO	No	Yes	Colorado
San Antonio	Dry Comal Creek	1811A	Bacteria	No	Yes	Guadalupe
	Martinez Creek	1902A	Bacteria	No	Yes	San Antonio
	Lower Leon Creek	1906	PCBs in edible tissue	No	Yes	
	Upper Cibolo Creek	1908	Bacteria	No	Yes	

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Table 7.3

<b>ANALYSES OF TxDOT MS4 DISCHARGING DIRECTLY INTO IMPAIRED WATER BODIES (IWB)</b>						
<b>TxDOT District</b>	<b>303(d) Listed Stream</b>	<b>Stream Segment</b>	<b>Pollutant of Concern</b>	<b>Is TxDOT MS4 potential source for impairment?<sup>1</sup></b>	<b>Does TxDOT MS4 discharge directly into IWB?</b>	<b>River Basin</b>
	Salado Creek	1910	Impaired fish and macrobenthic communities	No	Yes	
	Upper San Antonio River	1911	Impaired fish and macrobenthic communities	No	Yes	
	Martinez Creek	1911I	Bacteria	No	Yes	
Tyler	Grace Creek	0505B	Bacteria	No	Yes	Sabine
	Harris Creek	0506A	Depressed DO	No	Yes	
	Black Fork Creek	0606D	Bacteria	No	Yes	Neches
	West Mud Creek	0611D	Bacteria	No	Yes	
Waco	Nolan Creek/South Nolan Creek	1218	Bacteria	No	Yes	Brazos
	Little Nolan Creek	1218C	Bacteria	No	Yes	
	Long Branch	1218D	Bacteria	No	Yes	
Wichita Falls	Wichita River Below Diversion Lake	0214	Bacteria	No	NA	Red

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<sup>2</sup> Brake pads could be a potential source, however, per the January 21, 2015 Memorandum of Understanding between the U.S. EPA and the automotive industry, mercury, in addition to copper and other compounds, will be reduced in the use of motor vehicle brake pads. As such, no further action is required by TxDOT.

# **Attachment R**

## **Identify Areas of Focused Effort or Additional BMPs to Reduce POCs - BMP 7.3.1.1**

Name of TMDL	Measurable BMPs
N/A	N/A

# **Attachment S**

## **Include Measurable Goal and Implementation Schedule for Targeted Controls - BMP 7.3.1.2**

Targeted Controls	Measurable Goal
N/A	N/A

# **Attachment T**

## **Provide Benchmark Goals and Report the Options Selected - 7.3.1.3**

**See Attachment Q**

# **Attachment U**

**Provide Analysis of How BMPs Will be Effective in Contributing to the  
Benchmark Goal - BMP 7.3.1.4**

**See Attachment Q**

# **Attachment V**

**Provide a Summary of Findings Addressing Potential Bacteria Sources - BMP  
7.3.1.5**

**See Attachment Q**

# **Attachment W**

**Provide Documentation of Monitoring or Assessment of Bacteria - BMP 7.3.1.6**

**See Attachment Q**

# **Attachment X**

**Include Revised BMPs in SWMP and Annual Report - BMP 7.3.1.7**

**No revisions are necessary in the SWMP. Tables 7.2 and 7.3 have been updated and provided in Attachment Q.**

# Attachment Y

**See Year 4 Annual Report - Attachment Q - Discharges to Impaired Waterbodies Require: Determining if Discharges Contain POCs at Levels of Concern; Include Focused BMPs, Along With Measureable Goals; and, Submit Notification of Additional BMPs to TCEQ - BMP 7.3.2.1**

**See Attachment Q**

# **Attachment Z**

**See Year 4 Annual Report - Attachment Q - Address Potential Bacteria  
Sources and Provide Summary of Findings - BMP 7.3.2.2**

**See Attachment Q**

# **Attachment AA**

## **Provide Notification of Additional BMPs to Address POCs to TCEQ - BMP 7.3.2.3**

**See Attachment Q**

# **Attachment BB**

**Provide a List of Agency Approved WPAPs for Respective Permit Year - BMP  
8.3.2**

<b>TxDOT AGENCY APPROVED WPAPs</b>					
<b>EDWARDS ID</b>	<b>PLAN TYPE</b>	<b>REC DATE</b>	<b>REGULATED ENTITY NAME</b>	<b>TYPE OF RESPONSE</b>	<b>RESPONSE DATE</b>
11401	WPAP	1/14/2000	BLANCO ROAD EXTENSION FM 2696	Approved	3/21/2000
99081101B	WPAP-MOD	3/1/2000	CEDAR PARK CAMPUS	Approved	4/25/2000
40401	WPAP	4/4/2000	I H 35 MAINLANES WIDENING	Approved	5/5/2000
72401	WPAP	7/24/2000	LOOP 1 STATE HIGHWAY 45 FRONTAGE ROAD	Approved	9/25/2000
91901	WPAP	9/19/2000	COUNTY ROAD 271 AT MEDINA RIVER	Approved	10/19/2000
101201	WPAP	10/12/2000	LOOP 1604 FROM FM 1535 TO BITTERS ROAD	Approved	12/6/2000
121201	WPAP	12/12/2000	FM 1325	Approved	1/22/2001
1031301	WPAP	3/13/2001	RM 620 WIDENING CSJ 0683 01 066	Approved	5/1/2001
1041901	WPAP	4/19/2001	US 281 SOUTHBOUND FRONTAGE ROADS	Approved	5/18/2001
1051404	WPAP	5/14/2001	FM 1863	Approved	6/15/2001
1073003	WPAP	7/30/2001	LOOP 1 SH 45 INTERCHANGE SECTION 3 PHASE 1 EAST	Approved	3/14/2002
00011401A	WPAP-MOD	8/7/2001	FM 2696 BLANCO ROAD	Approved	9/13/2001
1091401	WPAP	9/14/2001	FM 306 AT HOFFMAN LANE	Approved	2/22/2002
1100106	WPAP	10/1/2001	STATE HIGHWAY 45 SECTION 4A PHASE II	Approved	2/22/2002
1122802	WPAP	12/28/2001	FM 3406	Approved	2/1/2002
00101201A	WPAP-MOD	2/4/2002	LOOP 1604 FROM FM 1535 TO BITTERS ROAD	Approved	3/14/2002
2022002	WPAP	2/20/2002	RM 2244 WIDENING PROJECT	Approved	4/12/2002
2051701	WPAP	5/17/2002	LOOP 1 STATE HIGHWAY 45 INTERCHANGE PHASE 1 WEST	Approved	8/14/2002
2052101	WPAP	5/21/2002	LOOP 1 MAIN LANES	Approved	8/20/2002
2121101	WPAP	12/11/2002	LOOP 1 EXTENSION PARMER LANE TO TANDEM BOULEVARD	Approved	4/1/2003
3031203	WPAP	3/12/2003	LOOP 1 EXTENSION SECTION 2	Approved	5/27/2003
3050901	WPAP	5/9/2003	SH 45 SECTION VII	Approved	9/12/2003
3060201	WPAP	6/2/2003	STATE HIGHWAY 130 SEGMENT 1 SECTION 1	Approved	9/12/2003
3060501	WPAP	6/5/2003	SH 45 SECTION 8 - PARMER LANE TO RIDGELINE BLVD	Approved	9/29/2003
3060502	WPAP	6/5/2003	RM 1431 ACCELERATION DECELERATION LANES	Approved	9/12/2003
3072101	WPAP	7/21/2003	US 183 SECTION 9	Approved	12/31/2003
3082801	WPAP	8/28/2003	STATE HIGHWAY 127	Approved	12/17/2003
92022701A	WPAP-MOD	9/12/2003	FM 734 LEFT TURN LANE	Approved	12/18/2003
3091502	WPAP	9/15/2003	STATE HIGHWAY 130 SEGMENT 1 PHASE 2	Approved	12/3/2003
4030303	WPAP	3/3/2004	STATE HIGHWAY 46	Approved	4/20/2004
4031002	WPAP	3/10/2004	LOOP 1604	Approved	5/13/2004
4031101	WPAP	3/11/2004	RM 12	Approved	4/26/2004
4081010	WPAP	8/10/2004	RM 1051	Approved	11/10/2004
4101401	WPAP	10/14/2004	STATE HIGHWAY 29 CSJ 0337-01-029	Approved	12/23/2004
04031002A	WPAP-MOD	11/8/2004	LOOP 1604 AT BULVERDE ROAD	Approved	12/3/2004
5012101	WPAP	1/21/2005	RM 620 CULVERT	Approved	4/1/2005
5030401	WPAP	3/4/2005	STATE HIGHWAY 29	Approved	5/17/2005
5031001	WPAP	3/10/2005	US 290 WIDENING	Approved	5/16/2005
5032910	WPAP	3/29/2005	US 281	Approved	7/26/2005
5042510	WPAP	4/25/2005	FM 1863	Approved	6/14/2005
5052301	WPAP	5/23/2005	STATE HIGHWAY 71 IMPROVEMENTS	Approved	9/22/2005

<b>TxDOT AGENCY APPROVED WPAPs</b>					
<b>EDWARDS ID</b>	<b>PLAN TYPE</b>	<b>REC DATE</b>	<b>REGULATED ENTITY NAME</b>	<b>TYPE OF RESPONSE</b>	<b>RESPONSE DATE</b>
5060901	WPAP	6/9/2005	IH 35 FRONTAGE ROAD AND OVERPASS	Approved	8/17/2005
5072501	WPAP	7/25/2005	IH 35 FRONTAGE ROADS @ ONION BRANCH	Approved	8/15/2005
5072502	WPAP	7/25/2005	IH 35 SOUTHBOUND FRONTAGE ROAD @ SOUTH FORK SAN GABRIEL RIVER	Approved	8/29/2005
5090110	WPAP	9/1/2005	LOOP 1604 TOLL STARTER SYSTEM	Approved	6/5/2006
05032910B	WPAP-MOD	11/28/2005	US 281	Approved	6/5/2006
6010601	WPAP	1/6/2006	RM 2243	Approved	4/14/2006
6020302	WPAP	2/3/2006	RM 3406 @ CREEK BEND BLVD	Approved	4/12/2006
05030310A	WPAP	2/17/2006	FM 1535	Approved	5/11/2006
6031310	WPAP	3/13/2006	STATE HIGHWAY 173 @ CR 241 AND CR 247	Approved	4/12/2006
6042710	WPAP	4/27/2006	FM 1283	Approved	6/27/2006
6051810	WPAP	5/18/2006	US 281 @ OVERLOOK PARKWAY	Approved	7/13/2006
6060110	WPAP	6/1/2006	STATE HIGHWAY 16 @ FM 1560 CSJ 0291-10-090	Approved	7/31/2006
6092810	WPAP	9/28/2006	STATE HIGHWAY 46	Approved	11/27/2006
7031601	WPAP	3/16/2007	IH 35 AT SH 29 TURNAROUNDS	Approved	4/25/2007
7041610	WPAP	4/16/2007	IH 10 LOOP 1604 SOUTH TO TRANSITION ZONE	Approved	6/20/2007
7072301	WPAP	7/23/2007	IH 35 @ RM 620 BRIDGE TURNAROUND	Approved	9/7/2007
7081310	WPAP	8/13/2007	SH 46 AT RM 2722 IMPROVEMENTS	Approved	10/22/2007
08011001A	WPAP	1/15/2008	RM 620 IMPROVEMENTS	Approved	2/29/2008
08011001B	WPAP	1/15/2008	RM 620 IMPROVEMENTS	Approved	3/3/2008
08011001C	WPAP	1/15/2008	RM 620 IMPROVEMENTS	Approved	3/3/2008
8012910	WPAP	1/29/2008	FM 2090 GRADE CROSSING TO WEST OAK ESTATES	Approved	4/7/2008
8090501	WPAP	9/5/2008	IH 35 NORTHBOUND ACCESS RAMP MODIFICATIONS	Approved	10/10/2008
8090504	WPAP	9/5/2008	FM 2338 IMPROVEMENTS - FM 3405 TO D B WOOD RD	Approved	11/3/2008
8090810	WPAP	9/8/2008	IH 10 EAST BOUND FRONTAGE ROAD AT LEON CREEK	Approved	10/27/2008
11-08102201	WPAP	10/22/2008	IH 35 AT LAKEWAY DRIVE	Approved	12/31/2008
05042510A	WPAP-MOD	4/9/2009	FM 1863	Approved	5/11/2009
10021101	WPAP	2/11/2010	US 290 LOOP 1 DIRECT CONNECT RAMPS	Approved	4/22/2010
11-09012702A	WPAP	3/5/2010	IH 35 NORTHBOUND FRONTAGE ROAD	Approved	4/29/2010
07120602A	WPAP-MOD	3/26/2010	FM 971	Approved	5/5/2010
11-10052401	WPAP	5/24/2010	RM 12 IMPROVEMENTS	Approved	6/29/2010
11-11021701	WPAP	2/17/2011	RM 620 Improvements	Approved	4/28/2011
	WPAP	7/21/2011	SH 127	Approved	9/7/2011
11-10102702A	WPAP-MOD	7/28/2011	SH 45 O'Conner Drive	Approved	9/9/2011
11-11070702	WPAP	7/7/2011	FM 1626	Approved	9/21/2011
	WPAP	8/11/2011	Loop 337 at Ridge Hill	Approved	10/11/2011
	WPAP	10/31/2011	Loop 1604 at Vance Jackson	Approved	12/13/2011
11-12022802	WPAP-MOD	2/28/2012	IH 35 Northbound frontage	Approved	4/9/2012
11-12070201	WPAP	7/2/2012	SH 195 CR 240 to IH 35	Approved	9/11/2012

<b>TxDOT AGENCY APPROVED WPAPs</b>					
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	WPAP	7/19/2012	FM 306	Approved	9/14/2012
	WPAP-MOD	11/26/2012	IH 10 LOOP 1604 SOUTH TO TRANSITION ZONE	Approved	1/7/2013
11-13021101	WPAP	2/11/2013	RM 12 at Oakwood loop	Approved	3/21/2013
13-13021410	WPAP	2/14/2013	FM 306 at Hunter road	Approved	4/4/2013
	WPAP	5/3/2013	North Walnut Ave	Approved	6/18/2013
11-13030403	WPAP	3/4/2013	Loop 1 Shared Use Path	Approved	7/2/2013
11-13060301	WPAP	6/3/2013	FM 1626	Approved	9/6/2013
11-13101801	WPAP-EXC	10/18/2013	IH 35 NORTHBOUND FRONTAGE ROAD	Approved	12/9/2013
11-13101802	WPAP-EXC	10/18/2013	SH 195 CR 240 TO IH 35	Approved	1/6/2014
11-13110101	WPAP	11/1/2013	IH 35 ramp reversal	Approved	4/16/2014
11-14021001	WPAP	2/10/2014	RM 967	Approved	4/10/2014
11-14030501	WPAP	3/5/2014	RM 1431 Diverging diamond intersection	Approved	5/28/2014
	WPAP	4/9/2014	Spur 53	Approved	5/29/2014
11-14021203	WPAP	2/12/2014	Loop 1 shared use path at 360	Approved	6/3/2014
11-14032102	WPAP	3/21/2014	FM 1460	Approved	7/18/2014
11-14052201	WPAP	5/22/2014	RM 12 Hugo Road to Pioneer Trail	Approved	8/27/2014
11-14062601	WPAP	6/26/2014	FM 487	Approved	9/10/2014
	WPAP	4/22/2014	SH 127 at Frio River	Approved	9/11/2014
11-15011201	WPAP	1/14/2015	SH 45 at Pearson Ranch Road	Approved	2/16/2015
11-15011503	WPAP	1/15/2015	RM 12 Saddleridge Drive to Hugo Road	Approved	2/20/2015
11-15012601	WPAP	1/26/2015	FM 3406	Approved	3/11/2015
11-15012702	WPAP-EXC	1/28/2015	FM 972	Approved	3/4/2015
	WPAP	4/8/2015	Loop 337 at Ridge Hill Drive	Approved	5/22/2015
11-15040302	WPAP	4/3/2015	RM 2244 Redbud to Walsh Tarlton	Approved	6/8/2015
11-15040301	WPAP-EXC	4/3/2015	SH 195 Turn Lane at CR 147	Approved	5/11/2015
11-15071703	WPAP	7/17/2015	Loop 360 at Loop 1	Approved	8/21/2015
	WPAP	9/2/2015	FM 306 from Hunter Rd to Hoffman Lane	Approved	10/9/2015
11000114	WPAP	1/25/2016	IH 35 US 79 TO SH 45 N	Approved	4/20/2016

<b>TxDOT AGENCY APPROVED WPAPs</b>					
<b>EDWARDS ID</b>	<b>PLAN TYPE</b>	<b>REC DATE</b>	<b>REGULATED ENTITY NAME</b>	<b>TYPE OF RESPONSE</b>	<b>RESPONSE DATE</b>
11000235	WPAP	5/2/2016	IH 35 AT FM 3406 BRIDGE REPLACEMENT	Approved	6/16/2016
	WPAP	5/27/2016	FM 306 from River Chase Way to Hoffman Lane	Approved	7/7/2016
11000318	WPAP	7/5/2016	RM 1431 COTTONWOOD CREEK TRL TO MARKET ST	Approved	9/19/2016
11000333	WPAP	8/2/2016	RM 620 IMPROVEMENTS PHASE 2	Approved	9/15/2016
11000467	WPAP	12/2/2016	MOPAC INTERSECTIONS	Approved	2/28/2017
	WPAP	12/28/2016	US 281 from Loop 1604 to Stone Oak Pkwy	Approved	5/2/2017
	WPAP	3/1/2017	SH 16 at FM 1560	Approved	4/19/2017
	WPAP	4/14/2017	FM 1560 from SH 16 to Loop 1604	Approved	6/15/2017
11000712	WPAP	6/14/2017	IH 35 FM 3406 Bridge Replacement	Approved	7/19/2017
	WPAP	6/30/2017	Loop 337 from Hillcrest Drive to IH 35	Approved	8/25/2017
11000866	WPAP-EXC	10/6/2017	RM 1431 Noise Wall	Approved	11/13/2017
11001176	WPAP-EXC	6/27/2018	RM 620 W of IH 35	Approved	8/7/2018
11001406	WPAP	1/19/2019	IH 35 from FM 3406 to RM 1431	Approved	2/12/2019
13000654	WPAP	3/29/2018	Loop 1604 at Bulverde Road	Approved	6/6/2018
13000664	WPAP	4/16/2018	Loop 1604 at Bitters Road and Huebner Road	Approved	6/14/2018
13000663	WPAP	4/16/2018	Loop 1604 at FM 1535	Approved	6/18/2018
13000702	WPAP	6/17/2018	IH 10 Bexar County Line to Fair Oaks Pkwy	Approved	8/10/2018
13000710	WPAP	6/14/2018	US 281 from Stone Oak Pkwy to Bexar CL	Approved	9/27/2018
11001406	WPAP	1/19/2019	IH 35 from FM 3406 to RM 1431	Approved	2/12/2019
11001523	WPAP-EXC	4/18/2019	ADA Ramps and Sidewalks (various locations)	Approved	5/31/2019
11001545	WPAP	5/2/2019	RM 971	Approved	7/2/2019
13001006	WPAP		FM 1535 LP 1604 to Shavano Park	Pending	Pending
13000926	WPAP	Apr-19	I-10 at Balcones Creek	Approved	7/3/2019
11001720	WPAP-EXC	9/17/2019	SH 195 at Berry Creek Drive	Approved	10/25/2019
11001710	WPAP	9/6/2019	RM 620 Grade Separation	Approved	10/30/2019
11001977	WPAP	3/12/2020	I-35 from Williams Dr to Lakeway Dr	Approved	5/7/2020
11001990	WPAP	3/5/2020	SH 29 at D.B. Woods Rd	Approved	5/22/2020
13001206	WPAP	8/7/2020	FM 462 at Hondo Creek, 1.8 mi N of CR 331	Approved	9/17/2020
13001296	WPAP-MOD	2/26/2021	IH 10 at De Zavala	Approved	5/6/2021
13001295	WPAP	2/10/2021	Loop 1604 from SH10 -IH10	Approved	4/29/2021
13001350	WPAP	5/18/2021	Loop 1604 from IH 10 – US 281	Approved	8/12/2021
11002608	WPAP	7/30/2021	RM 2243 at Escalera Parkway	Approved	9/9/2021
11002301	WPAP	11/25/2021	Robert S Light Blvd Expansion	Approval	2/11/2021
11002489	WPAP	4/21/2021	Oak Hill Parkway RZ Grading Plan	Approved	7/16/2021
11002528	WPAP	7/30/2021	RM 967	Approved	8/6/2021
11002561	WPAP	11/25/2021	Lakeway Drive at Williams Drive	Approval	8/6/2021

**Definitions:**

**WPAP=Water Pollution Abatement Plan**

**WPAP-MOD=Water Pollution Abatement Plan Modification**

**WPAP-EXC= WPAP Exception Request**

# **Attachment CC**

**Provide Annual Cost Spent on the TxDOT Stormwater Program - BMP 9.1**

<b>Attachment CC</b>	
<b>Annual Cost Spent on the TxDOT Stormwater Program*</b>	
Contracted Work Authorizations:	\$439,364
<b>Costs reported in SWMP BMPs:</b>	
Don't Mess With Texas Program:	\$2,103,125
Structural Controls Maintenance:	\$17,059,229
MMS/Compass Data (see Attachment F):	\$50,867,172
<b>Annual Reporting Staff Time:</b>	
Division:	\$10,904
District:	\$7,404
<b>Program Implementation Staff Time:</b>	
Division:	\$137,000
District:	\$51,308
DEQC 2448s completed	\$79,044
<b>Total Program Cost*</b>	<b>\$70,754,549</b>
<p>* This Total Program Cost includes the amount spent on activities reported in the MS4 Program as described in the TxDOT SWMP, and is not inclusive of the Construction General Permit or any other permits.</p>	

# **Attachment DD**

**Provide Maps of Points of Discharge Not Submitted with the Permit  
Application - BMP 10.1**

**Refer to in Attachment E.**

# **Attachment EE**

**Provide Map of Major Structural Controls - BMP 10.2**

**Refer to in Attachment E.**

# **Attachment FF**

## **IDDE Poster and Pocket Guide**

# HELP TxDOT IDENTIFY STORMWATER POLLUTION!

## What is an Illicit Discharge?

The storm sewer system including ditches, storm drains, and pipes, collects stormwater and empties into a waterbody. An illicit discharge is any material besides stormwater that drains or falls into the storm sewer system.



Soaps



Pesticides & Herbicides



Lawn Clippings



Fertilizers



Leaves



Pet Waste



Paint



Construction Waste



Sewage



Sediment



Vehicle Fluids



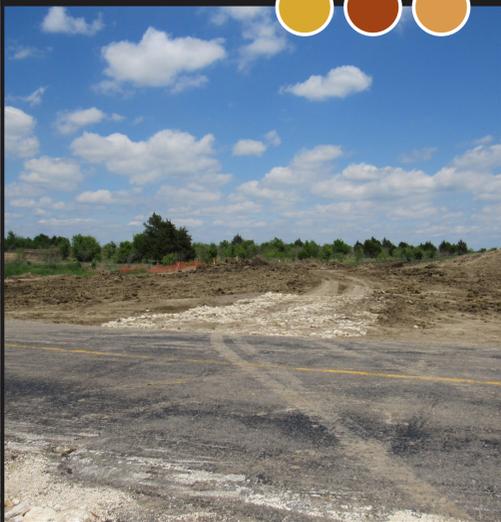
Oil



TxDOT Stormwater Management Program

## How to Identify Illicit Discharges

### SEDIMENT



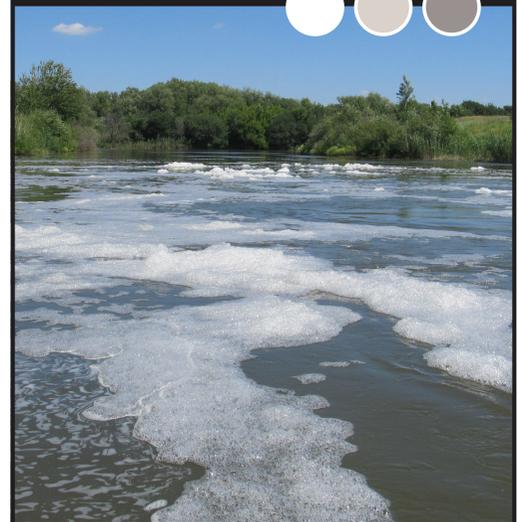
COLOR Yellow, Red or Orange  
ODOR None  
APPEARANCE Water Appears Turbid, Dirty

### PETROLEUM PRODUCTS/ FUEL



COLOR Rainbow Sheen  
ODOR Possible Petroleum/Gasoline Smell  
APPEARANCE Iridescent Sheen on Water Surface

### SOAPS/ DETERGENTS



COLOR White or Gray  
ODOR May be Fragranced  
APPEARANCE Bubbles, Foam

### FACILITY DISCHARGE

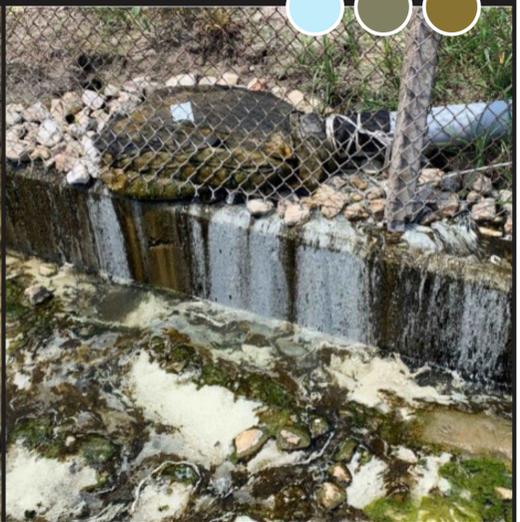


COLOR Varies, Including Clear Water  
ODOR Varies, Sulfur, Waste, Chemical, or Odorless  
APPEARANCE Varies

### CONSTRUCTION DISCHARGE



COLOR Varies, Including Clear Water  
ODOR Varies, Sulfur, Waste, Chemical or Odorless  
APPEARANCE Varies

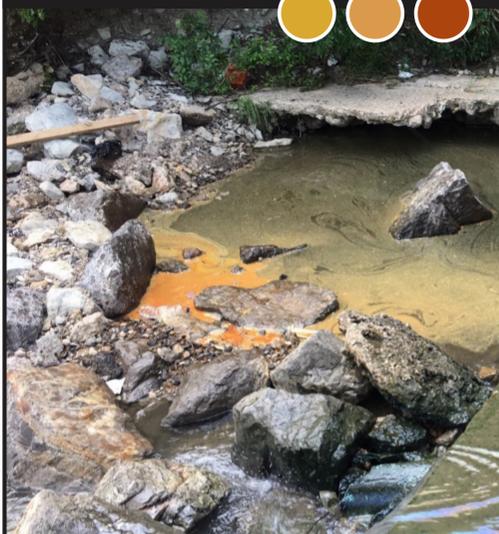


### CONCRETE WASTE



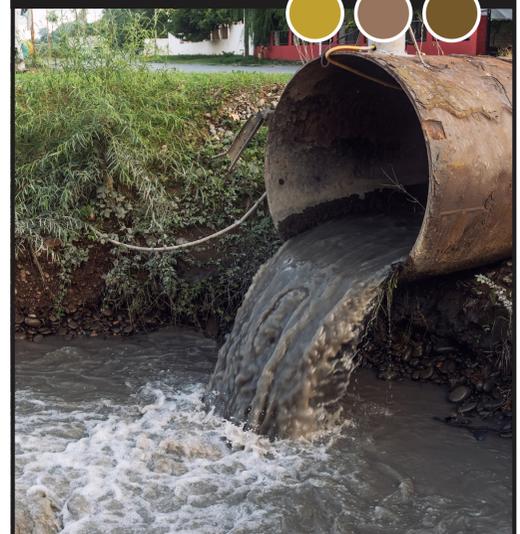
COLOR White or Gray  
ODOR None  
APPEARANCE Water Appears Turbid, Dirty; Light-colored Plume

### PAINT



COLOR Varies  
ODOR Possible Volatile Odor  
APPEARANCE Coalescing Film on Water

### SEWAGE



COLOR Gray or Brown  
ODOR Sulfur, Fecal Matter  
APPEARANCE Foam, Bubbles, Food or Other Waste

**If you see an illicit discharge in one of our waterways, report it!**

Report any of these pollutants in streams, rivers, lakes, outfalls, or storm drains.

**CONTACT MS4 COORDINATOR:** \_\_\_\_\_

**EMAIL:** ENV\_MS4-Illicit-Discharge@txdot.gov





2021

# **TxDOT**

# **Illicit Discharge**

# **Detection and**

# **Elimination (IDDE)**

# **Pocket Guide**



**PETROLEUM PRODUCTS**



**SEDIMENT**



**FATS, OILS AND GREASE (FOG)**



**CONCRETE WASTE**



**SOAPS AND DETERGENTS**



**PAINT**



**FERTILIZER**



**PESTICIDES**



**SEWAGE**



**LAWN CLIPPINGS**



**LEAVES**



**PET WASTE**



**FACILITY AND CONSTRUCTION DISCHARGE**

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# WHAT IS AN ILLICIT DISCHARGE?

The storm sewer system including ditches, storm drains, and pipes, collects stormwater and empties into a waterbody. An illicit discharge is any material besides stormwater that drains or falls into the storm sewer system.

## PROHIBITED NON-STORMWATER DISCHARGES INCLUDE:

- Chlorinated swimming pool water
- Concrete waste
- Construction discharges
- Facility discharges
- Fats, oils, and grease (FOG)
- Fertilizers
- Lawn clippings
- Leaves
- Non-biodegradable soaps/ detergents
- Paint
- Pesticides/herbicides and other hazardous chemicals
- Petroleum products (vehicle fluids/oils, fuels)
- Pet waste
- Sediment
- Sewage



# WHAT IS NOT AN ILLICIT DISCHARGE?

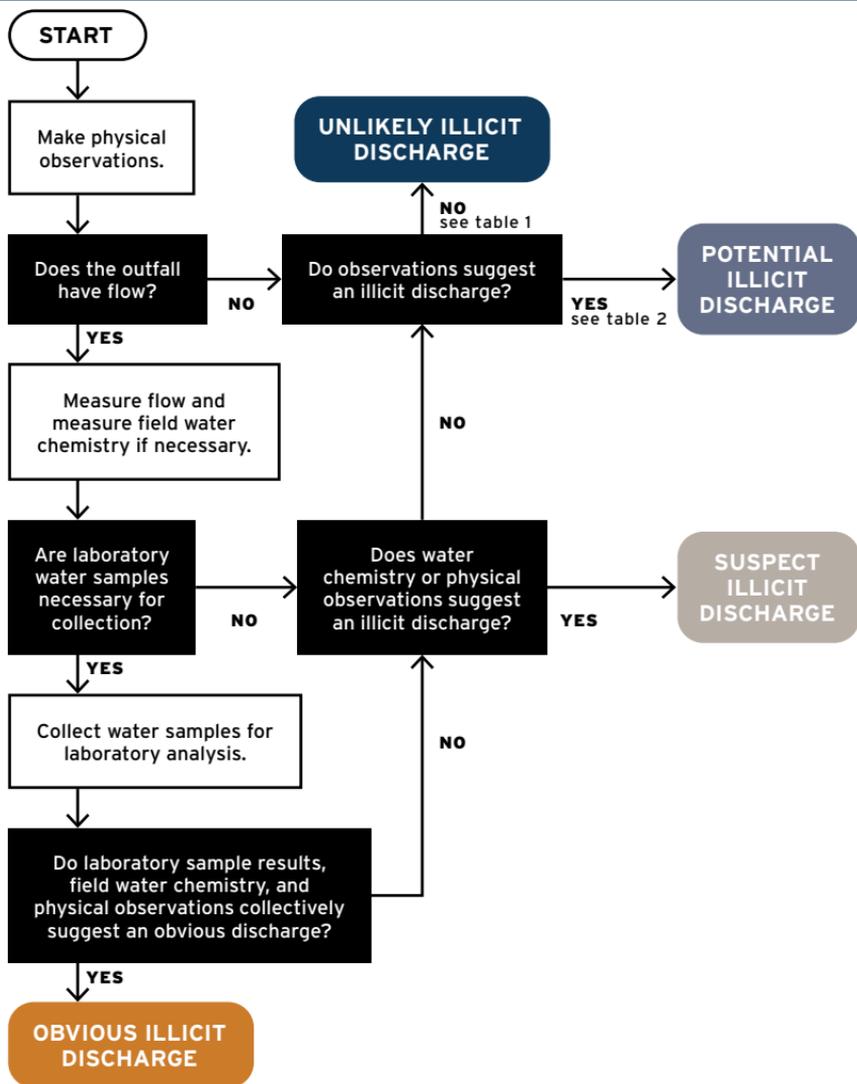
Not all discharges are illicit.

## ALLOWABLE NON-STORMWATER DISCHARGES INCLUDE:

- Air-conditioning condensate
- Dechlorinated swimming pool discharges
- Discharges from firefighting activities
- Groundwater/springs
- Landscape irrigation and lawn watering
- Water from residential car washing
- Water line flushing



# OUTFALL FIELD INSPECTION WORK FLOW DIAGRAM AND CLASSIFICATION SCHEME



Logic Scheme to Affirmatively Answer "Do Observations Suggest an Illicit Discharge?" Leading to a Classification of "Potential Illicit Discharge."						
TABLE 1	Physical Parameters	Observation	For Dry Weather		For Wet Weather	
		Presence of Foam	Yes		Yes	
		Color Stain	Yellow, Red, Orange, Blue, Purple, or White		Yellow, Red, Orange, Blue, Purple, or White	
		Turbidity	Cloudy or Opaque		Opaque	
		Presence of Floatables	Sewage, Petroleum Sheen, Paint, or Suds		Sewage, Petroleum Sheen, Paint, or Suds	
		Vegetative Conditions	Poor Growth or Overgrowth		Poor Growth or Overgrowth	
		Presence of Deposits	Oil, Paint, or Others		Oil, Paint, or Others	
		Odor	Sewage, Sulfide, Rancid, or Petroleum		Sewage, Sulfide, Rancid, or Petroleum	
OR						
Field Water Chemistry	Parameter	Results	Units	Results	Units	
	Ammonia Nitrogen	> 2.0	ppm	> 2.0	ppm	
	Chloride, Total	> 2.0	ppm	> 2.0	ppm	
	Detergent (Surfactant)	> 5.0	ppm	> 5.0	ppm	
	pH	< 6.0 or > 9.0	Standard Units	< 6.0 or > 9.0	Standard Units	
	Copper, Total	> 0.5	ppm	> 1.0	ppm	
	Phenols	> 0.3	ppm	> 0.6	ppm	

Logic Scheme to Affirmatively Answer "Does Field Water Chemistry and Observations Suggest an Illicit Discharge?" Leading to a Classification of "Suspect Illicit Discharge."						
TABLE 2	Physical Parameters	Observation	For Dry Weather		For Wet Weather	
		Presence of Foam	Yes		Yes	
		Color Stain	Yellow, Red, Orange, Blue, Purple, or White		Yellow, Red, Orange, Blue, Purple, or White	
		Turbidity	Cloudy or Opaque		Opaque	
		Presence of Floatables	Sewage, Petroleum Sheen, Paint, or Suds		Sewage, Petroleum Sheen, Paint, or Suds	
		Vegetative Conditions	Poor Growth over Flourishing		Poor Growth over Flourishing	
		Presence of Deposits	Oil, Paint, or Other		Oil, Paint, or Other	
		Odor	Sewage, Sulfide, Rancid, or Petroleum		Sewage, Sulfide, Rancid, or Petroleum	
OR						
Field Water Chemistry	Parameter	Results	Units	Results	Units	
	Ammonia_Nitrogen	> 2.0	ppm	> 2.0	ppm	
	Chlorine, Total	> 2.0	ppm	> 2.0	ppm	
	Detergent	> 5.0	ppm	> 5.0	ppm	
	pH	< 6.0 or > 9.0	Standard Units	< 6.0 or > 9.0	Standard Units	
	Copper, Total	> 0.5	ppm	> 1.0	ppm	
	Phenols	> 0.3	ppm	> 0.6	ppm	

# WHAT TO LOOK FOR WHEN IDENTIFYING AN ILLICIT DISCHARGE

## PHYSICAL INDICATORS

**Is there a color?**

**Is there an odor?**

**What is the an appearance?**

- **Flow** - Is the water moving?
- **Turbidity** - Is the water cloudy?
- **Sheens and surface scum** - Is there an iridescence or film on the water surface?
- **Outfall condition** - Does the outfall have any deposits?



# BIOLOGICAL INDICATORS

## Vegetation

- Are the plants located near the stream dead?
- Do the plants near the stream look unhealthy?

## Algae

- Are there any pea-green colored algae blooms?

## Fish kills

- Do you see any dead fish?



# CONSTRUCTION DISCHARGE



## WHAT IS IT?

Any illicit discharges associated with construction site activities. Sediment is the primary stormwater pollutant on a construction site.

## PHYSICAL INDICATORS

**Color** - Varies; synthetic colors, neutral colors, or colorless

**Odor** - Varies; sulfur, waste, chemical, or odorless

**Appearance** - Varies; increased turbidity, sheens, surface scum, and floating solids all common

## BIOLOGICAL INDICATORS

- Changes in vegetation/aquatic life

## POTENTIAL DISCHARGES

- Sediment
- Concrete waste
- Petroleum products
- Paint
- Lawn clippings



# SEDIMENT



## WHAT IS IT?

Sediment is a stormwater pollutant that is made up of soil particles that have been detached from the land by erosion. The primary source of stormwater pollution is sediment.

## PHYSICAL INDICATORS

**Color** - Yellow, red, or orange

**Odor** - None

**Appearance** - Water appears turbid, dirty

## POSSIBLE SOURCES

- Construction sites
- Suspended sediment after rainfall
- Surface runoff from construction sites, roadways, and/or agricultural/range land
- Streambank erosion
- Agricultural erosion
- Breakdown of roads, parking lots, and other paved surfaces
- Unpaved roads
- Soil erosion following vegetation/landscaping removal



# FACILITY DISCHARGE



## WHAT IS IT?

Any illicit discharges produced from facilities including, but not limited to, industrial manufacturing plants, commercial businesses, transportation centers, and treatment plants.

## PHYSICAL INDICATORS

**Color** - Varies; synthetic colors, neutral colors, or colorless

**Odor** - Varies; sulfur, waste, chemical, or odorless

**Appearance** - Varies; increased turbidity, presence of sheens and surface scum, and outfall staining all common

## BIOLOGICAL INDICATORS

• Changes in vegetation/aquatic life

## POTENTIAL DISCHARGES

- Concrete waste
- Petroleum products
- Soaps and detergents
- Chlorine
- Paint
- Sewage
- Industrial cooling water
- Sanitary wastewater



# PETROLEUM PRODUCTS



## WHAT IS IT?

Petroleum products include vehicle fluids/oils and fuel.



## PHYSICAL INDICATORS

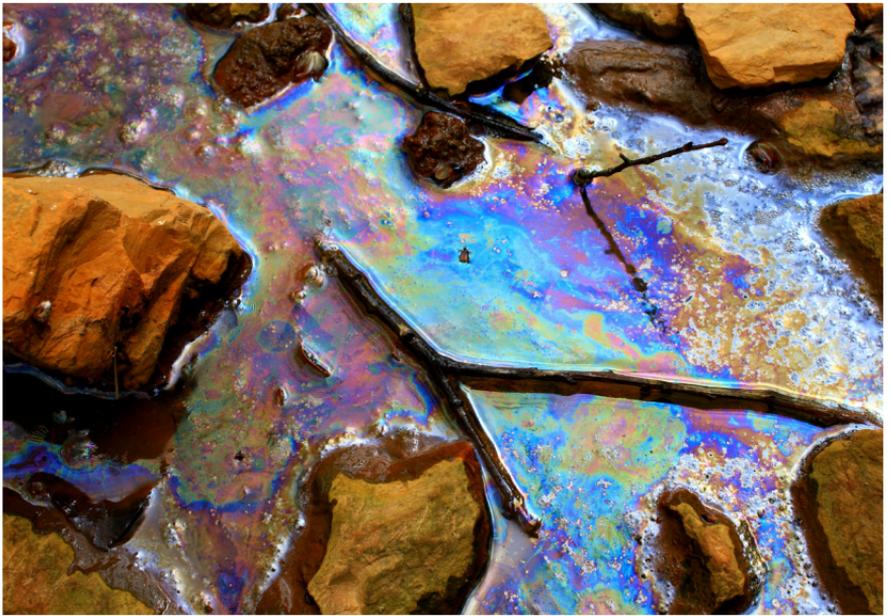
**Color** - Rainbow sheen

**Odor** - Possible petroleum/gasoline smell

**Appearance** - Iridescent sheen on water surface

## POSSIBLE SOURCES

- Dumping/spills
- Vehicle fueling/washing
- Vehicle maintenance/repair
- Poorly maintained vehicles
- Vehicle accidents
- Pressure washing gas station pavement
- Outdoor material storage
- Industrial discharge



# CONCRETE WASTE



## WHAT IS IT?

Rubble from demolished concrete structures, concrete and liquid produced when the chutes of concrete mixers are rinsed out after delivery, and slurry used to create new concrete structures.

## PHYSICAL INDICATORS

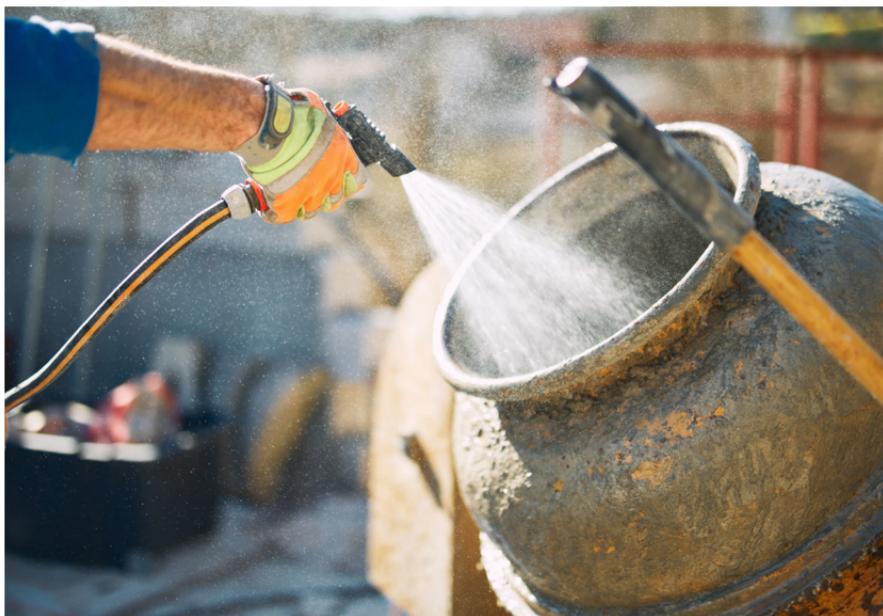
**Color** - White or gray

**Odor** - None

**Appearance** - Water appears turbid, dirty; light-colored plume

## POSSIBLE SOURCES

- Demolition of existing concrete structures at a construction site
- Testing of concrete samples
- Concrete mixer truck washouts
- Uncured concrete dumped or rinsed off concrete equipment and delivery trucks



# PAINT

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## WHAT IS IT?

Any pigmented liquid, liquefiable, or solid mastic composition that, after application, converts to a solid film. Paint is typically oil-based or water-based.



## PHYSICAL INDICATORS

---

**Color** - Varies; can be colorful or neutral

**Odor** - Possible volatile odor

**Appearance** - Opaque, coalescing film on water

## POSSIBLE SOURCES

---

- Interior and exterior building design projects where paint and paint equipment are used in large quantities
- Residential painting
- Wastewater from paint manufacturing facility
- Empty raw material packages from paint manufacturing facility



# SEWAGE



## WHAT IS IT?

Wastewater and excrement conveyed in a sewer system that is produced from residences and commercial, institutional, and public facilities.

## PHYSICAL INDICATORS

**Color** - Gray or brown

**Odor** - Sulfur, fecal matter

**Appearance** - Foam, bubbles, food or other waste

## BIOLOGICAL INDICATORS

- Sewage fungus
- Bacteria growth in outfalls

## POSSIBLE SOURCES

- Overflowing and leaking sanitary sewer lines; sewer lines become clogged, causing sewage to back up and flow out through a manhole or another path
- Failing septic systems
- Inadequately treated sewage



# SOAPS AND DETERGENTS



## WHAT IS IT?

Substances that, when dissolved in water, possess the ability to remove dirt from surfaces such as human skin, textiles, vehicles, and other solids.

## PHYSICAL INDICATORS

**Color** - White or gray

**Odor** - May be fragranced

**Appearance** - Bubbles, foam

## POSSIBLE SOURCES

- Commercial laundry water
- Commercial wash water
- Wastewater
- Commercial vehicle and boat washing
- Illegal dumping of mop water and carpet cleaning wastewater



# PESTICIDES AND FERTILIZERS



## WHAT IS IT?

Pesticides (including herbicides) are natural or synthetic chemical substances meant to control pests and improve crop yields. Fertilizers are materials applied to soil or plants to provide nutrients. When used in excess, these products can become illicit discharges.

## PHYSICAL INDICATORS

**Color** - May be colorless or blue

**Odor** - Varies; volatile odor, ammonia odor, or no odor

**Appearance** - (Fertilizers) algal blooms may form a pea-green mat on the water's surface; increased turbidity

## BIOLOGICAL INDICATORS

- Algal blooms
- Fish kills
- Absence of aquatic life
- Changes in vegetation growth

## POSSIBLE SOURCES

- Residential and commercial landscaping
- Agricultural production



# FATS, OILS, AND GREASE (FOG)



## WHAT IS IT?

Substances that are ingredients for, or by-products of, food preparation. Blockages from coagulated grease are the leading cause of sanitary sewer overflows (SSOs).

## PHYSICAL INDICATORS

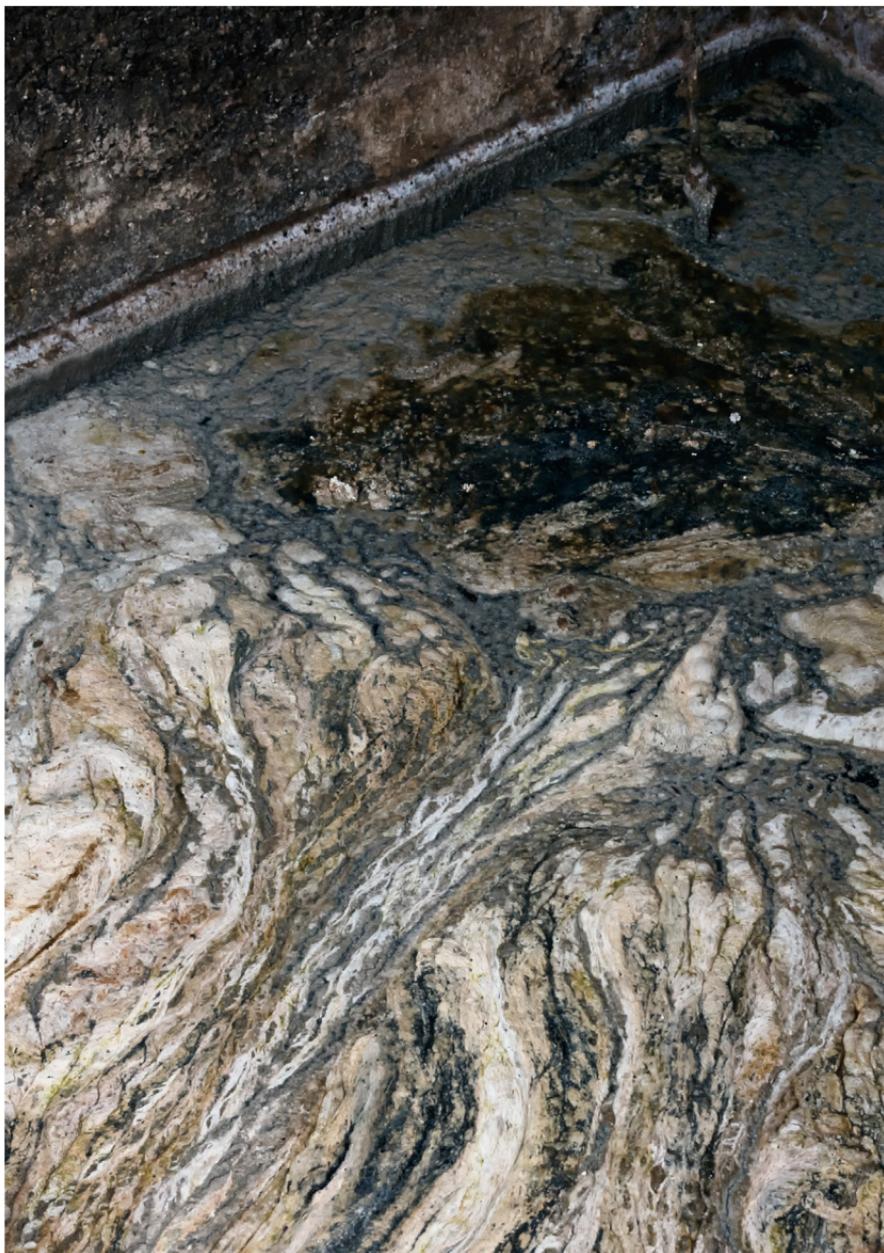
**Color** - Milky white

**Odor** - Varies; frying oil odor, sulfur, rotten food

**Appearance** - FOG can either be liquid or solid and may turn viscous or solid as it cools in a sewer system

## POSSIBLE SOURCES

- Cleaning wastewaters from commercial businesses
- Grease trap/equipment cleaning in restaurants
- Improper kitchen maintenance in restaurants
- Illegal dumping of FOG



# LAWN CLIPPINGS, LEAVES, AND PET WASTE



## WHAT IS IT?

Lawn clippings and leaves are organic waste generated from landscaping and landscaping maintenance. Pet waste, when improperly disposed of, can run off into a sewer system and become an illicit discharge.



## PHYSICAL INDICATORS

**Color** - Colorless or tea/coffee colored

**Odor** - Varies; can have a sulfuric smell from organic matter decaying

**Appearance** - Lawn clipping and leaves typically visible on the water's surface or as clumps often clogging storm drains

## POSSIBLE SOURCES

- Residential and commercial landscaping
- Improper disposal of pet waste by pet owners
- Improper lawn maintenance
- Construction activities



# I FOUND AN ILLICIT DISCHARGE! WHAT DO I DO NEXT?

1

Record the location and  
type of illicit discharge.

2

Take photos.

3

Report the discharge.

MS4 Coordinator: \_\_\_\_\_

Email: [ENV\\_MS4-Illicit-Discharge@TxDOT.gov](mailto:ENV_MS4-Illicit-Discharge@TxDOT.gov)

# **Help TxDOT Improve Texas Water Quality!**



**TxDOT Stormwater Management Program**

