

**TRANSPORTATION AND NATURAL RESOURCES**

STEVEN M. MANILLA, P.E., COUNTY EXECUTIVE

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November 10, 2011

Ms. Rebecca Villalba, Team Leader  
Texas Commission on Environmental Quality  
Storm Water and Pretreatment Team (MC148)  
P.O. Box 13087  
Austin, Texas 78711-3087

Ms. Carolyn Runyon, Water Program Manager  
Region 11 Office  
Texas Commission on Environmental Quality  
2800 South IH 35, Suite 100  
Austin, Texas 78704-5700

Re: Phase II MS4 Annual Report Transmittal for Travis County MS4  
TPDES Permit Number TXR040327

Dear Ms. Villalba:

This letter serves to transmit the Year 4 Annual Report for the Texas Pollutant Discharge Elimination System (TPDES) Small Municipal Separate Storm Sewer System (MS4) General Permit, Authorization Number TXR040327 for the Travis County MS4.

In addition to the Travis County Transportation & Natural Resources Department (TNR), other Travis County departments performing key SWMP activities include: the Travis County Attorney's Office Environmental Crimes Unit, the Austin/Travis County Health and Human Services Department (ATCHHSD) Environmental and Consumer Health Unit, the Texas AgriLife Extension Office in Travis County, the Travis County Sheriff's Office Environmental Crimes Unit, and the Travis County Department of Emergency Services.

A separate Notice of Change (NOC) will be submitted for two revisions proposed for Year 5. As required by the general permit, a copy of this submittal is also being given to the TCEQ's regional office in Austin, Texas.

Sincerely,

A handwritten signature in black ink, appearing to read "Steven M. Manilla".

Steven M. Manilla, P.E., County Executive  
Transportation & Natural Resources Department

Enclosure – SWMP Year 4 Annual Report

**Storm Water Management Program (SWMP) Annual Report Year 4  
Travis County, Transportation & Natural Resources Department**

**A. General information**

1. Permit No. TXR040327
2. Annual Reporting Period: August 13, 2010 through August 12, 2011
3. Name of MS4 Permittee: Travis County
4. SWMP Contact/Phone: Dave Fowler, 512-854-7590
5. Mailing Address: Travis County TNR, P.O. Box 1748, Austin, Tx., 78749
6. Email: [dave.fowler@co.travis.tx.us](mailto:dave.fowler@co.travis.tx.us)
7. The Travis County MS4 is currently relying on the following other government entities to satisfy some permit obligations:
  - a. The City of Austin performs construction and post-construction review and inspection requirements (MCMs 4 and 5) in the Austin 5-mile Extra-Territorial Jurisdiction (ETJ) for subdivision construction under an existing jointly-adopted County Code Chapter 30 and One-Stop Shop Permit Center. Austin also performs these activities on non-subdivision construction sites in their ETJ as part of their TPDES Phase I storm water program. The City performs limited IDDE spill response in the ETJ and inspection of all commercial post-construction BMPs and most residential BMP post-construction BMPs in their ETJ. An Interlocal Agreement (ILA) approved in 2011 between Travis County and City of Austin for comprehensive SWMP coordination describes joint roles and responsibilities in the ETJ.
  - b. The Lower Colorado River Authority (LCRA) performs joint construction and post-construction plan review requirements (MCM 4 and 5) with Travis County in the Highland Lakes Watershed Ordinance area in western Travis County under a 2010 Interlocal Agreement between the County and LCRA. Travis County performs the construction inspection component in this area and LCRA is responsible for the post-construction BMP inspections.
  - c. The TCEQ Edwards Aquifer Program performs construction and post-construction review and inspection requirements (MCM 4 and 5) on construction projects in the Barton Springs Edwards Aquifer Recharge Zone and Edwards Aquifer Northern Segment. This program also performs these requirements on construction sites 5 acres and greater in the Barton Springs Edwards Aquifer Contributing Zone.
8. A copy of this annual report has been submitted to the TCEQ Regional Office.

## B. SWMP Modifications and Additional Information

1. Changes to the approved SWMP in Permit Year 5
  - a. Changes to BMPs, measurable goals, dates, contacts, procedures or details are as follows, please refer to the Tables and separate NOC for additional information.

<b>Changes to BMP measurable goals, dates, contacts, procedures, details in Years 4 and 5</b>					
<b>MCM/ Table</b>	<b>BMP</b>	<b>Major Task</b>	<b>Measurable Goal</b>	<b>Due Date</b>	<b>Changes</b>
4, 5	SWP3 & Post-Const. Regs	<u>Revised task language:</u> Adopt final construction and post-construction storm water regulations for construction activities in all remaining areas of the MS4 not covered by the regulations adopted to date.	Complete activity	Year 4 8.12.11	Revise: <ul style="list-style-type: none"> <li>• Due date to Year 5/ 8.12.12</li> <li>• Task language in two locations in the SWMP Tables</li> </ul>
<b>MCM/ Table</b>	<b>BMP</b>	<b>Major Task</b>	<b>Measurable Goal</b>	<b>Due Date</b>	<b>Changes</b>
1	OSSF Outreach	Distribute OSSF Brochures	Brochures distributed annually	Year 4 8.12.11	Revise: <ul style="list-style-type: none"> <li>• Due date to Year 5 (for distribution)</li> </ul>

- b. BMP additions or substitutions, with explanation.  
  
No BMP additions or substitutions were proposed or made during Permit Year 4
  - c. A Notice of Change (NOC) will be submitted to TCEQ for these proposed changes as required.
2. The MS4 has not annexed any lands since obtaining permit coverage. 571 acres were removed from the County MS4 through annexation into various municipal city limits during the Permit Year 4.
3. No receiving water body is newly listed as impaired and no EPA-approved TMDLs have been established during Permit Year 4.
4. The MS4 has not conducted any analytical monitoring of storm water quality.

## C. Narrative Provisions

1. Compliance with Permit Conditions
  - a. Travis County is currently in compliance with the SWMP as submitted and approved by TCEQ, including the proposed changes submitted and described herein.
  - b. Travis County is currently in compliance with record keeping and reporting requirements for the SWMP. Each section performing BMPs maintains records and the SWMP core staff maintains comprehensive SWMP information.

- c. Travis County meets the eligibility requirements of the permit for TMDL requirements, Edwards Aquifer limitations, compliance history, etc.

2. General assessment of the appropriateness of the selected BMPs:

The County believes all the BMPs selected in the SWMP are appropriate for achieving the statutory goal of reducing the discharge of pollutants to the Maximum Extent Practicable (MEP) over the Permit Term.

3. Progress towards reducing the discharge of pollutants to the maximum extent practicable (MEP). Summary of information used to evaluate reductions in the discharge of pollutants:

The County made satisfactory progress towards the goal of reducing the discharge of pollutants to the maximum extent practicable (MEP) during the Permit Year. The County evaluates progress towards this goal primarily by the successful performance of the BMPs and measurable goals listed in the SWMP. The County completed all but two of the BMP measurable goals for Year 4:

- a. Construction and post-construction regulations for the remaining areas of the County MS4 outside of the LCRA Lake Travis area and the City of Austin ETJ. This BMP was substantially completed and will be fully completed and adopted in Year 5.
- b. Distribution of the OSSF Brochure will commence in Year 5 instead of Year 4.

4. General evaluation of the program's progress, including obstacles or challenges encountered in implementing BMPs, meeting the program's schedule, etc.

The County made acceptable progress implementing the SWMP during the Permit Year. Several important milestones were reached during the Permit Year, including:

- Completing and implementing an Interlocal Agreement with the City of Austin 5-mile ETJ, the largest single MS4 area in Travis County.

Obstacles and challenges include:

- Revising Development Permit County Code and Standards to fully implement MCM 4 and 5 in the remaining MS4 areas requires a lengthy public and internal input process. The Code was substantially completed in Year 4, but will take more time than planned for final review by the County Attorney, final public input, and final approval by the County Commissioner's Court in Year 5.
- Implementation of inter-local agreements (ILAs) for the SWMP requires mutual agreement and program coordination with other autonomous regional governmental authorities. The County now has approved ILAs with the two largest jurisdictions within the MS4: the City of Austin ETJ and the LCRA, and will continue this process with the goal executing ILAs with select smaller entities thereafter (small municipal ETJs and Special Districts such as MUDs and other Small MS4s) where mutually agreeable and feasible.

- Training and overseeing existing non-SWMP program staff to adequately perform SWMP tasks is time consuming and challenging for the core SWMP staff and the organization's personnel resources and budgets. This includes developing the written standards, procedures, and tracking mechanisms required. However, we still anticipate all BMPs will be completed adequately within the Permit Term.

5. Construction activities that occurred within the Travis County MS4 during the Permit Year 4, via NOIs and CSNs provided by Construction Site Operators. These are activities by operators other than Travis County.

<b>Travis County Development Permits issued for MS4 construction activities – Permit Year 4 (Includes Austin 5-mile ETJ and Non-Austin ETJ areas)</b>			
<b>Type of Permit</b>	<b>Total Permits</b>	<b>Total 1 acre or greater</b>	<b>NOI/CSN received</b>
Residential, miscellaneous	1023	115	50%
Residential, in a subdivision (part of common plan of development)	647	0	100%
Non-Residential, Site Development	176	63 (>1 AC) of those 51 (>3 AC)	100%
Non-Residential, Subdivision	9	7 (>1 AC) of those 5 (>3 AC)	100%
<b>Totals</b>	<b>1,855</b>	<b>185</b>	<b>75%+</b>

The Table above shows the development permits issued in Permit Year 4 for construction activities within the MS4. Please see related report information in Tables 4 and 5, Pages 11-12.

6. Travis County utilizes the 7<sup>th</sup> MCM for its' municipal construction activities. Please see MCM Table 7 on Page 14 for a comprehensive summary of County construction activities.

- a. The number of municipal construction activities authorized under this general permit: 3
- b. The total number of acres disturbed for these municipal construction projects: 35

7. Requirements for specific Minimum Control Measures (MCMs):

- a. MCM 1 – Public Education and Outreach. Documentation of activities conducted and materials used to fulfill the requirements in Permit Year 4 are attached at the end of this Report and include:
  - TCTV Water Quality Programming Summary Descriptions, Year 4
  - TCTV Water Quality Programming Broadcasts, Monthly Breakdown, Year 4
  - Watershed Sign Installation Locations and Quantities, Year 4

Also, the SWMP Web Site can be viewed at:

**[http://www.co.travis.tx.us/tnr/stormwater\\_management\\_program/default.asp](http://www.co.travis.tx.us/tnr/stormwater_management_program/default.asp)**

Additional Public Education documentation used in Year 4 which was previously provided in the Year 2 and 3 Annual Reports includes: Grow Green Fact Sheet, watershed sign format, driveway permit brochure, construction outreach brochure, OSSF outreach brochure, storm drain inlet marker, and industrial site outreach materials.

b. MCM 1 – Public Education and Outreach. Documentation of the amount of BMP resources used to address each required group - residents, visitors, public service employees, businesses, commercial/industrial facilities, construction site personnel, are as follows:

<b>BMP Resources</b>	<b>Groups addressed</b>
Grow Green Program	residents, businesses, commercial facilities
OSSF Outreach	residents, businesses, commercial/industrial facilities
Science Education Outreach	residents - grade school age
Watershed Signs	all groups
Construction Outreach	County development permit applicants, construction site personnel and Trade Associations
TCTV	all groups
SWMP Web Site	all groups
Storm Drain Inlet markers	residents

c. MCM 3 – Illicit Discharge Detection and Elimination (IDDE). Travis County has developed a draft list of allowable non-storm water discharges, including those already listed in the general permit and the approved SWMP. The list will be finalized in Year 5 as an adopted rule in the Travis County Code.

8. Proposed changes to the SWMP in the coming reporting year.

The proposed changes to BMP measurable goals in Permit Year 4 and 5 are summarized in the above Table in Section B.1.a.

9. Describe any activities planned for the next permit year/reporting cycle.

The County will perform the storm water activities listed for Permit Year 5 in the approved SWMP Tables on Pages 7-14, including the changes described in Sections B.1. and C. 8. herein, which will also be submitted in a separate Notice of Change (NOC).

**D. Storm Water Management Program Status – BMPs and Measurable Goals**

The following Tables 1-7 on Pages 7-14 contain the Minimum Control Measures, Best Management Practices, Major Tasks, Measurable Goals, and Due Dates from the approved SWMP document. The Year 4 BMP Measurable Goal results and status have been added in bold and shaded in these Tables.

Proposed changes described above are included and summarized in these Tables.

Miscellaneous BMPs and tasks performed during the Permit Year which were not listed as scheduled tasks in the approved SWMP are listed at the bottom of each MCM Table as Unscheduled Activities.

**Table 1**

**MCM 1 - Public Education and Outreach BMPs Year 4 results shaded in bold**

<b>BMP</b>	<b>Major Tasks</b>	<b>Measurable Goals</b>	<b>Due Date</b>	<b>Responsible Party</b>
<b>Existing BMPs</b>				
Grow Green Program	Continue educational program support of City of Austin Grow Green Program.	Total number of educational programs and publications distributed annually <b>Total educational program events - 2</b> <b>Total fact sheets distributed - 10,000</b>	Years 1-5	Texas AgriLife Extension Office in Travis County
OSSF Outreach	Perform training sessions for OSSF operators and respond to public inquiries for OSSF	Total number of training sessions conducted, inquiries responded to annually. <b>Training sessions- 0 Inquiries response - 527</b>	Years 1-5	TNR  (Stacey Scheffel)
	Develop OSSF Brochure for distribution at TNR Permit Center	Complete Activity <b>OSSF Brochure completed, Year 3</b>	Year 3	
	Distribute OSSF Brochures	Brochures distributed annually <b>distribution will begin in Year 5 per NOC</b>	Years 4-5	
Science Education Outreach	Continue 4-H summer outreach efforts which include a water quality component for grade school age students in Del Valle, P'ville and Manor areas	number of education sessions and service hours performed annually <b>Education Sessions- 1</b> <b>Service Hours- 8 , serving 64 youth</b>	Years 1-5	Texas AgriLife Extension Office in Travis County
<b>New BMPs</b>				
Watershed Signs	Develop a location plan for watershed signs and select 15 locations for sign placement	Complete Activity <b>Completed Year 1</b>	Years 1-2	TNR  (David Kemp)
	Adopt standard watershed sign format.	Complete Activity <b>Completed Year 2</b>	Years 1-2	
	Produce signs in County Sign Shop, install, and maintain	Install 5 sign locations by Year 3, 10 by Year 4, 15 by Year 5 - <b>7 locations with 13 signs installed</b>	Year 3-5	
Construction Outreach	Receive input from stakeholder groups about types of materials, topics, of most benefit to them for consideration in selecting materials	Complete Activity <b>Activity completed Year 3 - Four primary local trade groups contacted for opportunity for Survey. Surveys received: 10</b>	Year 3	TNR (Dave Fowler, Stacey Scheffel)
	Select materials, develop brochures for erosion and sediment control and driveway permits	Complete Activity <b>Driveway Brochure completed Year 2</b> <b>ESC Brochure completed Year 3</b>	Year 3	
	Provide brochures and staff guidance to development permit applicants in TNR Permit Center	Record totals annually - Brochures distributed: <b>Driveway Brochures: 650</b> <b>ESC Brochures: 150</b> <b>Brochures distributed from kiosk: 125</b> <b>Permit counter inquiries responded to: 487</b>	Years 3-5	
Travis County TV (TCTV)	Review and select materials and develop a broadcast program plan and schedule.	Complete Activity <b>Completed Year 2</b>	Years 1-2	ITS Media Services Program (Al Jackson)
	Broadcast TCTV Program Plan a minimum of 2 hours per month.	Record totals weekly, monthly, annually - hours and number of broadcasts, with general description of topics. <b>Totals, Year 4: 28 programs; 9,248 broadcasts; 541:51 hours</b>	Years 3-5	TNR (Amanda Celso)
SWMP Web Site	Develop an SWMP Web Site Plan including a list of topics and maintenance schedule.	Complete Activity <b>Completed Year 2</b>	Years 1-2	ITS (Susan Verhoef)
	Design and publish the website to the internet as part of the existing Travis County website	Complete Activity <b>Completed Year 3 - Web Site published</b>	Year 3	TNR (Amanda Celso)
	Maintain and update web site, including posting new information and topics in accordance with the maintenance schedule.	Record totals annually - number of web site sign ins and/or hits using log or hit counter. <b>Web site views, Year 4 - 518</b>	Years 3-5	

**Table 2**  
**MCM 2 – Public Involvement and Participation BMPs Year 4 results shaded in bold**

<b>BMP</b>	<b>Major Tasks</b>	<b>Measurable Goals</b>	<b>Due Date</b>	<b>Responsible Party</b>
<b>Existing BMPs</b>				
Community Storm Water Initiatives	Continue participation in any ongoing efforts by the Regional Water Quality Protection Plan (RWQPP), LCRA Lake Travis Stakeholders, SW Growth Dialogue.	Record totals annually – meetings attended and activities participated in, milestones achieved <b>RWQPP – 6 meetings</b>	Years 1-5	TNR (Jon White, Dave Fowler Tom Weber)
	Continue participation in the Onion Creek, Walnut Creek, and Highland Lakes Flood Damage Evaluation Projects (FDEPs), Colorado River Floodplain Coalition (CRFC), the TMDL Implementation Task Force for Gilleland Creek.	Record totals annually – meetings attended activities participated in, milestones achieved <b>Gilleland TMDL – 4 meetings</b>	Years 1-5	TNR (S Scheffel, Tom Weber)
		<b>Onion Ck FDEP – 2 meetings, Study/Report complete; now in design</b> <b>Walnut Ck FDEP – 0 meetings, Study complete</b> <b>Highland Lakes FDEP – 1 meeting</b> <b>CRFC – 5 meetings</b>	Years 1-5	TNR (Stacey Scheffel)
	Complete the Travis County Drainage Basin Study and give County residents in flood prone areas the opportunity for input.	Complete Final Report. Total public participation meetings/total public inquiries. <b>Completed Year 2</b>	Years 1-2	TNR  (Steve Schiewe)
Open Space Acquisition	Continue to provide opportunities for landowner participation in buyout of floodplain land by the county	Record total annually – floodplain acres purchased, costs <b>Acres- 498.0 (12 parcels) Costs - \$3,075,253.90</b>	Years 1-5	TNR (S Scheffel, M Mallia)
Compiled by Donna Williams-Jones, TNR Financial Services	Continue to provide opportunities for landowner participation in Balcones Canyonlands Preserve (BCP). Continue purchase of required acreage for BCP	Record total annually – acres purchased by private participants, costs; acres purchased for the BCP by the county, costs <b>Acres- 440.849 (13 parcels) Costs- \$15,191,493</b>	Years 1-5	TNR  (Rose Farmer)
	Continue to provide opportunities for parkland and open space acquisition by County via voter bonds or other means.	Record total annually – acres purchased, costs <b>Parkland Acres- 0 Costs- 0</b>	Years 1-5	TNR  (Charles Bergh)
Household Hazardous Waste Collection	Continue financial participation to support the City of Austin Household Hazardous Waste Collection Program.	Record totals annually - County financial contribution and County residents participating <b>County Contribution- \$105,210</b> <b>Participants-1,876</b>	Years 1-5	TNR  (Charles Williams)
Adopt-a-Road and Volunteer Projects	Continue assistance to volunteer groups in county roadside cleanup, including signs, trash bags and trash pickup	Record total annually – clean up events, signs installed, bags/ amounts of trash disposed of <b>Volunteer participation projects- 1:</b> <b>Lake Travis underwater cleanup 9/12/10/1,100 participants/3.7 tons of trash cleaned up</b>	Years 1-5	TNR  (various)
Parks and BCP Participation Projects	Continue opportunities for volunteers to participate in Parks and BCP clean-up, restoration, tree planting, etc	Record total annually – events and type, quantities of trees planted, trash disposed of, etc. <b>American Youth Works (AYW) restoration and clean up work in County BCP and Parkland – 68.66 crew days/ \$72, 093.00 total salaries</b>	Years 1-5	TNR (Rose Farmer-BCP, Dan Chapman-Parks)
<b>New BMPs</b>				
Public Notice for SWMP activities	Comply with all public notice legal requirements for SWMP implementation.	Record totals annually – CC Agenda items, newspaper or internet notices posted <b>2 Court Agenda Items:</b> <b>SWMP Ch 82 Code; SWMP Austin ETJ Interlocal</b>	Years 1-5	TNR  (Dave Fowler)
Codes and Standards Development	Provide opportunity for County stakeholders to participate in Code and technical standards revisions for SWMP	Record and document number of meetings and comments received, annually. <b>Meetings – 2 stakeholder meetings for SWMP Ch 82 Code</b>	Years 1-5	TNR (Dev Services, Dave Fowler)
Storm Drain Inlet Marking	Provide opportunity for volunteer groups to initiate participation projects to install storm drain inlet marker, with County assistance (materials, technical guidance) as resources allow.	Record totals annually – projects and inlet markers installed. <b>Inlet Markers Installed – 107 in Austin ETJ by volunteers with the assistance of the City of Austin Watershed Protection Department</b>	Years 1-5	TNR  (David Kemp)

**Unscheduled Activities for MCM 2 performed during the Permit Year:**

- \$25,000 contributed to Keep Austin Beautiful organization for environmental education and clean-up efforts

**Table 3A**  
**MCM 3 – Illicit Discharge Detection and Elimination (IDDE) BMPs - Existing BMPs**  
**Year 4 results shaded in bold**

<b>BMP</b>	<b>Major Tasks</b>	<b>Measurable Goals</b>	<b>Due Date</b>	<b>Responsible Party</b>
On-Site Sewage Facility (OSSF) Permit Program	Review, permit, and inspect new and upgraded OSSF systems in the county MS4.	Record totals annually – Permit applications reviewed, permitted, inspected, issued final approval. <b>OSSF Permits reviewed/given final approval- 465</b> <b>OSSF Permit total inspections – 1,335</b>	Years 1-5	TNR  (Stacey Scheffel)
	Monitor aerobic and commercial OSSF systems requiring maintenance contracts and maintenance reports provided to the County	Record totals annually – Total OSSF system maintenance contracts, including commercial systems, monitored annually <b>Total OSSF maintenance contracts monitored- 3,357, including 85 commercial systems</b>	Years 2-5	
	Receive, investigate, and resolve complaints of improper operation and maintenance of OSSF systems, maintenance contracts, or sewage discharge.	Record totals annually – complaints investigated, resolved, or referred to enforcement <b>Total sites investigated-268</b> <b>Resolved without NOV –163</b> <b>NOVs issued - 105</b> <b>Referred to legal enforcement (County Atny)– 10</b>	Years 1-5	
Travis County Dumping Committee (TCDC)	Continue to participate in monthly TCDC meetings, activities, and provide meeting facilities for the Committee.	Record totals annually - meetings held and participated in. <b>Meetings held/participated- 10</b>	Years 1-5	TNR (Mickey Roberts)  County Attorney
Regional Environmental Task Force (RETF)	Continue participation in RETF quarterly meetings and training efforts.	Record totals annually - meetings and training sessions participated in.  <b>Meetings – 4 Training sessions held- 3</b>	Years 1-5	TNR (Mickey Roberts)  County Attorney
Roadside Litter Abatement	Continue existing program to remove litter from county roadsides and properly dispose at landfills.	Record totals annually – miles of roadsides cleaned; work orders; cubic yards waste disposed <b>Roadside Miles- 1,623.90</b> <b>Work Orders- 872</b> <b>CY Waste- 3,430.28 (771,813 lbs)</b>	Years 1-5	TNR  (Road Maintenance)
Auto Salvage Yard Ordinance Program	Review Code Ch 49 standards and revise to meet IDDE requirements as necessary.	Complete activity. <b>Review completed Year 2. Code determined adequate to implement IDDE Program.</b>	Years 1-2	ATCHHSD TNR
	Continue program to inspect and respond to complaints for auto salvage yards, junkyards, and metal recyclers	Record totals annually - inspections/ compliant within 30 days/ referred for enforcement <b>Inspections- 16 (complaint response)</b> <b>Compliant/Referred-16/0</b>	Years 1-5	ATCHHSD  (Gwen Meighan)
Spill Response	Review, revise existing procedures and agreements for spill response as necessary	Complete Activity. <b>Review and revisions completed Year 2</b>	Years 1-2	TNR (Charles Williams)
	Continue to respond to haz-mat spills and dumping per adopted procedures and agreements	Record totals annually - spills or dumping responded to/remediated; in right-of-way (ROW) or private lands; referred for enforcement <b>ROW Haz-Mat Illegal Dumping Responses- 19;</b> <b>\$7,301 contracted clean-up costs</b> <b>Adopted new spill response procedures - 8/4/11</b>	Years 1-5	Emergency Services  County Attorney
Nuisance Abatement Program	Continue program to inspect and respond to complaints for rubbish, litter, and junked vehicles in the County MS4 under County Code Chapter 61.	Record totals annually - inspections/ compliant within 30 days/ referred for enforcement <b>Total Inspections-701</b> <b>Compliant-687 Referred-33</b> <b>(Remaining are pending/being monitored) - 4</b>	Years 1-5	ATCHHSD  (Gwen Meighan)

**Unscheduled Activities for MCM 3 during the Permit Year:**

**Table 3B MCM 3 – Illicit Discharge Detection and Elimination (IDDE) BMPs - New BMPs**

**Year 4 results shaded in bold**

<b>BMP</b>	<b>Major Tasks</b>	<b>Measurable Goals</b>	<b>Due Date</b>	<b>Responsible Party</b>	
IDDE Program	Adopt regulations and/or regulatory mechanisms for IDDE program; Revise Code Enforcement Policy and Procedures as necessary for IDDE efforts	Complete Activity <b>Completed adopting regulatory mechanisms and revising enforcement policy and procedures for IDDE program -Year 2</b>	Year 1-2	TNR (Jonas Rosenthal)  County Attorney	
	Develop and implement an IDDE response plan identifying the primary first response jurisdiction and contacts for MS4 areas	Complete Activity <b>Completed IDDE response plan by revising existing protocols - Year 2</b>	Year 1-2	TNR (Jonas Rosenthal)	
	Review/revise existing county IDDE contact points as necessary and designate lead staff for IDDE complaint response	Complete Activity <b>Completed revising IDDE contacts points and response protocols between TNR Environmental Investigator, County Attorney and TCSO Environmental Crimes Units, ATCHHSD, and TNR OSSF -Year 2</b>	Year 1-2	TNR (Jonas Rosenthal) Travis County Sheriff's Office (TCSO) County Attorney	
	Investigate/inspect and resolve illicit discharge complaints	Record totals annually -Complaints received, investigated, referred to others, resolved, enforced		Years 2-5	All
		<b>Illegal Dumping Enforcement Sites Investigated/cleaned up: 815/500 Waste removed 480,000 lbs.</b>		Years 2-5	TCSO Env. Crimes Unit (Detective Sidney Parker)
		<b>Illegal Dumping Enforcement Total Sites Investigated/cleaned up- 402/108; Waste removed - 933, 978lbs</b>		Years 2-5	County Attorney Env. Crimes Unit (Dennis Rudder, Doug MacDougall)
<b>Non-criminal IDDE response Complaints received/investigate 74/74 Referred-24 Resolved- 67 Legal Enforce- 0</b>			Years 2-5	TNR (Jonas Rosenthal)	
	<b>Miscellaneous Illicit Discharges investigated/ total inspections - 8/15</b>			SWMP staff	
Industrial Site Monitoring and Outreach	Maintain inventory, conduct on-site evaluations, and provide technical assistance of industrial sites. Minimum effort shall include the mailing of outreach materials to known industrial operations in Years 3 and 4, 50 site evaluations in Year 3 and 75 evaluations in each of Years 4 and 5. Outreach material mailings will also be reported in Public Education MCM.	Complete inventory <b>Completed basic inventory of permitted TCEQ Industrial Sites. Selected Outreach Materials and began distribution - Year 2.</b>	Years 1-2	TNR (Jonas Rosenthal)	
		Maintain inventory and perform outreach on 30% of sites by Year 3, 60% by year 4, 100% by Year 5. <b>Mailed outreach materials to industrial sites- 35 Industrial site inspections - 75, including 9 follow-up inspections, 7 complaints</b>	Years 3-5		
	Review new and redeveloping Industrial Sites through TNR Development Permit Center to ensure compliance with applicable industrial storm water regulations.	Record totals annually - new or redeveloping industrial sites reviewed and issued county development permits. <b>New Industrial Sites reviewed/permitted through TNR Dev Permit process - 6/1</b>	Years 2-5	TNR (Dave Fowler, Jonas Rosenthal, Tom Weber)	
	Develop/ implement system to respond to industrial site complaints, including direct response or referral to TCEQ or other.	Record totals annually - complaints received, investigated, referred, resolved <b>Industrial Site Complaints received/ investigated - 35/35 Referred-16 Resolved- 27 Legal Enforce- 0</b>	Years 2-5	TNR (Jonas Rosenthal)	
	<b>Miscellaneous Indus. sites/total inspections - 2/3</b>			SWMP staff	
MS4 Map	Develop base MS4 GIS map.	Complete activity. <b>Completed Year 1.</b>	Year 1	TNR	
	Develop and implement system to maintain and update MS4 Map for municipal annexations, development permits, county construction activities, etc.	Complete activity. Update and maintain map. Record total acres removed from county MS4 through annexation annually. <b>Completed Year 1.</b>	Years 1-2	(Amanda Celo, David Kemp, Robert Dial, David Peyton, Arester Randle)	
	Perform Outfall Reconnaissance Inventory (ORI) inspections to document structures, BMPs, and outfalls and complete MS4 Map.	Record totals annually - structures and outfalls added to MS4 Map. Complete 25% by Year 2, 50% Year 3, 75% Year 4, 100% Year 5. <b>Total Structures added/verified -3,555 Outfalls added (included in above total) - 328 Total MS4 drainage structures - 11,621*, % MS4 structures estimated mapped- 75%+</b>	Years 1-5		

\*11,621: Bridges- 209, Closed Pipes- 533, Culverts- 3132, Inlets- 5238, Outfalls- 773, Outlets- 246, Channels- 484, Ponds- 275, Manholes- 731

<b>Table 4</b>				
<b>MCM 4 – Construction Site Storm Water Runoff Control BMPs Year 4 results shaded in bold</b>				
<b>BMP</b>	<b>Major Tasks</b>	<b>Measurable Goals</b>	<b>Due Date</b>	<b>Responsible Party</b>
<b>Existing BMPs</b>				
Development Complaint Hotline	Review existing points of contact, procedures, response criteria, public advertising and revise as necessary	Complete activity. <b>Completed Year 1.</b>	Year 1	TNR Dev. Services
	Continue operation of phone hotline (for construction-related storm water complaints on County development permits).	Record number of inquiries received/responded to/referred to enforcement <b>Inquiries-312 Resolved/referred- 312/182</b>	Years 1-5	NREQ SWMP
<b>New BMPs</b>				
SWP3 Regulations	Finalizing interim water quality rules for Non-ETJs areas, including adoption of SWP3 regulations for subdivision and non-subdivision construction.	Complete activity <b>Substantially completed in Year 4, publicly available draft rule completed, May 2011; full completion/adoption in Year 5 per NOC.</b>	Year 4	TNR  Dev. Services
	Revise 1990 Interlocal Agreement with LCRA for Non-ETJ areas subject to the Highland Lakes Watershed Ordinance, including SWP3 requirements for subdivision and non-subdivision construction.	Complete activity. <b>Activity completed.</b>	Year 3	NREQ SWMP
	Implement Interlocal Agreements or other mechanisms with SWP3 requirements for subdivision and non-subdivision construction, for municipal ETJs with largest populations.	Complete activity <b>NOC revised completion to Year 4 – activity completed Year 4</b>	Years 1-3	
	Implement Inter-local Agreements (ILAs) or other mechanisms with SWP3 and Post-Construction requirements for subdivision and non-subdivision construction, for select municipal ETJs, based upon need or to improve efficiency.	Record number of Inter-local Agreements (ILAs) executed each year and the parties to each agreement.	Years 3-5	
Permit Application and Plan Review	Develop and implement a Development Permit Checklist review system for 100% of permit applications which includes SWP3 regulations requirements.	Complete and implement Checklist. <b>Checklist implemented May 2009</b>	Year 2 5.1.09	TNR
		Require Checklist -100% of permit applications. <b>Total Applications/Total reviewed w/Checklist</b> • <b>Non-Residential – 176 (100%)</b> • <b>Residential-1,670 (100%)</b>	Year 3	Dev. Services
		Document Storm Water Notice compliance on 25% of eligible permit applications by (end of) Yr 2, 50% by Yr 3, 75% Yr 4, 100% Yr 5. <b>Eligible Permits Documented Year 4 -75%</b>	Years 2-5	NREQ SWMP Fowler
	Develop and implement a plan review system for SWP3 requirements for all projects. Review 95% of all projects 5 ac or greater by Year 3; 95% of all 3 ac or greater by Year 4; 95% of all non-single family residential projects (SFR) and SFR over 1 ac by Year 5.	Record number of projects reviewed, permitted annually. <b>69 permit applications reviewed by SWMP staff (including 23 in Austin ETJ) for SWP3/ESC compliance and permitted, including all projects 3 acres and greater.</b>	Years 3-5	
	Continue Single Office review for subdivisions in Austin ETJ and other municipal ETJs with Interlocal Agreements, which includes SWP3 review by the county or municipality.	Record number of projects reviewed, permitted annually per jurisdiction. <b>Austin ETJ Subdivision Projects Reviewed/ Permitted- 42/8 (const review by Austin)</b>	Years 1-5	
Inspection and Enforcement	Develop and implement an inspection and enforcement system for SWP3 requirements, including technical standards, procedures, response protocols; training for inspectors.	Complete Activity <b>Completed SWP3 Inspection Standards Document for Development Permits -Year 2.</b>	Years 1-2	TNR Dev Sev Inspection
	Inspect all construction projects 5 ac or greater for SWP3 requirements by Year 3; all 3 ac or greater by Year 4; all Non-SFR projects and SFR over 1 ac by Year 5.	Total inspections and sites inspected annually/% compliant/no. enforced <b>Non-Austin ETJ – 115 projects/ 622 inspections 80% compliance/ 0 legal enforced (All projects 3 acres and greater inspected)</b> <b>Austin ETJ – 57 projects/ 115 inspections/ 65% compliance/ 0 legal enforced</b>	Years 3-5	SWMP: Kemp, Peyton, Randle

**Unscheduled Activities for MCM 4 during the Permit Year:**

Development Services Inspectors performed 365 ESC inspections on 146 Right-of-way permits outside the Austin ETJ, and 187 SWP3 & ESC support inspections on miscellaneous development permits inside the Austin ETJ.

**Table 5**  
**MCM 5 – Post-Construction Storm Water Management BMPs Year 4 results shaded in bold**

BMP	Major Tasks	Measurable Goals	Due Date	Responsible Party
<b>New BMPs</b>				
Post-Construction Storm Water Management Regulations and Technical Standards	Finalize interim water quality rules for Non-ETJ areas, including adoption of post-construction storm water regulations for subdivision and non-subdivision construction.	Complete activity <b>Substantially completed Year 4, publicly available draft rule completed, May 2011; full completion/adoption will be in Year 5 per NOC.</b>	Year 4	TNR  Dev. Services  NREQ SWMP
	Revise 1990 Interlocal Agreement with LCRA for Non-ETJ areas subject to the Highland Lakes Watershed Ordinance, including post-construction storm water regulations for subdivision and non-subdivision construction.	Complete activity <b>Activity Completed Year 3</b>	Year 3	
	Implement Interlocal Agreements or other mechanisms which include post-construction storm water regulations for subdivisions and non-subdivision construction in municipal ETJs with largest populations.	Complete activity <b>NOC revised completion to Year 4 – Activity completed Year 4</b>	Years 1-3	
	Implement Inter-local Agreements (ILAs) or other mechanisms with SWP3 and Post-Construction requirements for subdivision and non-subdivision construction, for select municipal ETJs, based upon need or to improve efficiency.	Record number of Inter-local Agreements (ILAs) executed each year and the parties to each agreement. <b>Year 3 – executed ILA with LCRA</b> <b>Year 4 – executed ILA with City of Austin</b>	Years 3-5	
Permit Application and Plan Review	Develop and implement a Permit Checklist review system for 100% of permit applications which includes identification of post-construction storm water regulation requirements.	Complete and implement Checklist. <b>Checklist implemented May 2009 Year 2.</b>	Year 2 5.1.09	TNR
		Require Checklist -100% of permit applications. <b>Total Applications/Total reviewed w/Checklist</b> <ul style="list-style-type: none"> <li>• <b>Non-Residential – 176 (100%)</b></li> <li>• <b>Residential-1,670 (100%)</b></li> </ul>	Year 3	Dev. Services
		Document Storm Water Notice compliance on 25% of eligible permit applications by (end of) Yr 2, 50% by Yr 3, 75% Yr 4, 100%Yr 5. <b>Eligible Permits Documented Compliance:75%</b>	Years 2-5	
	Develop and implement a plan review system for all projects requiring post-construction storm water BMPs. Review 95% of all projects 5 ac or greater by Year 3; 95% of all 3 ac or greater by Year 4; 95% of all non-single family residential projects (SFR) and SFR over 1 ac by Year 5.	Record number of project plans reviewed, permitted annually. <b>69 permit applications reviewed by SWMP staff (including 23 in Austin ETJ) for post-construction compliance and permitted, including 100% of projects 3 acres and greater.</b>	Years 3-5	NREQ SWMP  Fowler, et. al.
	Continue Single Office review for subdivisions in Austin ETJ and other municipal ETJs with Interlocal Agreements, which includes post-construction storm water regulations review by the county or municipality.	Record number of projects reviewed, permitted annually per jurisdiction. <b>Austin ETJ Subdivision Projects Reviewed/ Permitted- 42/8</b> <b>(post-construction review by Austin)</b>	Years 1-5	
Post-Construction BMP Inspection and Maintenance	Develop and adopt regulations and other regulatory mechanisms to ensure operation and maintenance of post-construction BMPs in the county MS4. Adopt criteria for BMP maintenance.	Complete Activity <b>Adopted joint County/City of Austin Code Chapter 30 for pond maintenance criteria in the Austin 5-mile ETJ. – Year 3</b>	Year 4 8.12.11	TNR Dev Sev inspection
	Adopt inspection procedures or agreements to ensure BMPs are constructed per plans Inspect all projects 5 ac or greater by Year 3; all 3 ac or greater by Year 4; all Non-SFR projects Year 5.	Total sites inspected annually/ total compliant at final inspection/ total referred to other jurisdiction <b>115/ 14/ 0 (non-Austin ETJ)</b> <b>All sites 3 acres and greater inspected</b>	Years 3-5	SWMP: Kemp, Peyton, Randle
	Develop and maintain inventory of new BMPs through the ORI process in BMP 3.3.3 MS4 Map.	See BMP 3.3.3 MS4 Map and Table 3B. <b>On schedule with MS4 Map/ORI</b>	Years 2-5	
	Monitor completed BMPs in the MS4 per adopted criteria. Inspect and conduct follow-up and enforcement with responsible parties as necessary.	Total BMPs inspected/ Total given notice for maintenance required/ Total enforced annually <b>Totals (non-County owned BMPs)- 71/ 0/ 0</b>	Years 2-5	

**Unscheduled Activities for MCM 5 during the Permit Year:**

**Table 6**  
**MCM 6 – Pollution Prevention and Good Housekeeping for County Operations BMPs**  
**Year 4 results shaded in bold**

<b>BMP</b>	<b>Major Tasks</b>	<b>Measurable Goals</b>	<b>Due Date</b>	<b>Responsible Party</b>
<b>Existing BMPs</b>				
Closed County Landfills	Continue to monitor identified closed County landfills in the MS4 as necessary to maintain compliance with applicable waste and discharge regulations.	Prepare Annual Closed Landfill Status Report for County Auditor. <b>Completed.</b>	Years 1-5	TNR  (Keith Coburn)
	Continue to maintain Hwy 290 East Closed Landfill leachate collection and disposal system via contract.	Total gallons of leachate disposed of annually to the Austin waste water system. <b>3,355,021 gallons</b>	Years 1-5	
Pesticide Applicator Licensing	Continue Non-Commercial Certified Applicator Licensing and CEUs for employees using pesticides and herbicides	Record number annually – road and parks employees certified, re-certified, and taking CEUs <b>Employees Certified/ReCert/CEUs- 24</b>	Years 1-5	TNR  (Charles Williams)
Environmental Health and Safety (EHS) Program for TNR Facilities	Continue EHS Plans for primary MS4 maintenance facilities, including existing and new required storm water pollution prevention BMPs for this section	Record annual compliance inspections, additional follow-up inspections, and BMP compliance status <b>4501 RM 620 North (West Service Center)</b> <b>1 inspection, 63% compliance</b> <b>6011 Blue Bluff Rd (East Service Center)</b> <b>1 inspection, 66% compliance</b>	Years 1-5	TNR  (Keith Coburn, Chas Williams, Amanda Celso, David Kemp, )
<b>New BMPs</b>				
Good Housekeeping BMPs	Review and revise storm water pollution prevention BMPs for all areas in the existing EHS Plans as necessary.	Complete Activity <b>Completed Year 2</b>	Years 1-2	TNR  (Dave Fowler)
	Implement revised BMPs as part of the EHS Plans	Refer to EHS Plans, above	Yrs 2-5	
Employee Training Program	Develop training program including storm water awareness, and procedures and standards for BMPs for the EHS Plans and the MS4 maintenance operations.	Complete Activity <b>Completed Year 2</b>	Years 1-2	TNR  (David Peyton, Dave Fowler)
	Implement annual employee training.	Total employees trained annually, including 100% of employees in applicable operations. <b>Performed 4 Annual Storm Water Pollution Prevention Training Sessions – July 13, 20, 27, 28</b> <b>Parks/Road &amp; Fleet Employees – 56/148 = 204</b>	Years 3-5	
Structural Control Maintenance	Review and revise existing EHS Plans for structural control maintenance as necessary Complete inventory list of all County-owned structural controls associated with County roads, parks, and facilities which require maintenance.	Complete Activity <b>Completed Year 2</b>	Years 1-2	TNR (SWMP: Kemp, Randle, Peyton)  (Road, Park Maint)
	Conduct structural control monitoring and maintenance per EHS Plan and County-owned BMP inventory list.	Total County-owned structural controls inspected/maintained annually <b>Ponds inspected/maintained – 28/10</b>	Years 2-5	
Waste Management and Disposal	Review and revise existing EHS Plans and County Waste Management Code Chapter 111 as necessary for waste management and disposal BMPs.	Complete Activity. <b>Completed Year 2</b>	Years 1-2	TNR (TNR Fleet, Charles Williams)  (Facilities Management solid waste)
	Implement revised waste management and disposal BMPs as part of the EHS Plans.	Quantities recycled/disposed of annually: <b>Recycled: Waste Oil– 6920 gal</b> <b>Tires – 1059 Antifreeze – 300 gal</b> <b>Solid waste disposal, dumpsters at Sev Centers: East- 1248CY West- 312CY</b>	Years 2-5	
Erosion and Sediment Control (ESC) Program for Maintenance Construction	Adopt criteria for use of temporary and permanent ESC BMPs on county maintenance construction activities.	Complete Activity <b>Completed Year 2</b>	Years 1-2	TNR (SWMP: Kemp, Randle Peyton)  (Road Maintenance)
	Perform ESC BMPs on applicable maintenance construction projects and work orders per criteria	Perform BMPs on 40% of applicable work orders by Year 3, 60% by Year 4, 100% by Year 5 <b>60% of Work Orders (WOs) considered BMP criteria, and performed BMPs where applicable</b> <b>SWMP assisted 18 WO with 48 inspections</b>	Years 3-5	

**Unscheduled Activities for MCM 6 during the Permit Year:**

- SWMP staff assisted with 11 Parks/BCP erosion control/restoration projects, 33 total inspections
- NREQ and SWMP staff performed 20 additional EHS inspections of 11 additional County MS4 Facilities.

**Table 7**  
**MCM 7 – Authorization for County Construction Activities BMPs**  
**Year 4 results shaded in bold**

<b>BMP</b>	<b>Major Tasks</b>	<b>Measurable Goals</b>	<b>Due Date</b>	<b>Responsible Party</b>
<b>New BMPs</b>				
Storm Water Pollution Prevention Plan (SWP3) BMPs	Develop SWP3 compliance system to be followed on all County Construction Activities, including technical standards, plan review, and inspection/enforcement	Complete SWP3 Standards Document and implement system <b>Completed Year 1.</b>	Year 1	TNR  (Dave Fowler, CIP)
	Review 100% of proposed County construction project plans for compliance with SWP3 Standards	Record number of project plan reviews per year <b>Plan reviews for SWP3 – 17</b>  <b>CSNs issued under MS4 Permit TXR040327 to County projects starting construction within Permit Year - 3</b>	Years 1-5	TNR  (SWMP: Fowler, Peyton, Kemp)
	Inspect 100% of County projects under construction for compliance with SWP3 Standards	Record number of SWP3 inspections and compliance status per project/per year. <b>Total projects under construction- 8</b> <b>SWP3 Inspection Reports made- 187</b> <b>SWP3 Inspection Report compliance- 89%</b>  <b>SWMP - SWP3 audit inspections- 39</b> <b>SWP3 additional inspections - 42</b>	Years 2-5	TNR (CIP inspection – Dan Scott, et.al.)  (SWMP: Kemp, Randle, Peyton)
Post-Construction BMPs	Review 100% of construction plans and permit applications for county projects implementing post-construction BMPs	Record number of plan and/or permit application reviews on applicable projects per year. <b>Plan reviews for post-construction storm water-15</b>	Years 1-5	TNR (Fowler, CIP project managers)
	Ensure 100% of county projects implementing post-construction BMPs are constructed per plans.	Record number of final inspections for post-construction BMPs on applicable projects per year. <b>Total projects w/permanent BMPs completing final inspections – 3</b>  <b>(5 projects total were final inspected)</b>	Years 2-5	TNR (CIP inspection- Dan Scott, et.al.)  (SWMP: Kemp, Randle, Peyton)
	Ensure newly constructed BMPs and drainage structures on County projects are documented through the ORI process described in BMP 3.3.3 MS4 Map.	See BMP 3.3.3 MS4 Map and Table 3B in MCM 3. <b>All accepted County BMPs and drainage structures added to MS4 Geodatabase and BMP list per MCM 3</b>	Years 2-5	TNR (Amanda Celo, David Kemp)

**Unscheduled Activities for MCM 7 during the Permit Year:**

**E. 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 gather and evaluate the information submitted. Based on the 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 there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name: Steven M. Manilla, P.E.

Title: County Executive

Signature/Date: \_\_\_\_\_

 Nov 9, 2011

## **Attachments - Public Education Materials (following this Sheet)**

- **TCTV Water Quality Programming Summary Descriptions, Year 4 (Pages 17, 18)**
- **TCTV Water Quality Programming Broadcasts, Monthly Breakdown, Year 4 ( Pages 19-21)**
- **Watershed Sign Installation Locations and Quantities, Year 4 (Page 22)**

## **TCTV Water Quality Programming Summary Descriptions, Year 4:**

### **Weather Channel/ EPA Video:**

- After the Storm (28:00)- Three case studies focus on the interconnections between our water supplies, water quality, and the economic vitality and quality of life in our communities.

### **LCRA Videos:**

- Pointless Pollution: America's Water Crisis (27:40) – ½ hour documentary hosted by Walter Cronkite on the problems posed to the nation's water supply by nonpoint-source pollution. One segment includes Lake Travis.
- A Run Unto the Sea: The Adventures of the Abilene Boys (56:51) – 1 hour documentary hosted by Walter Cronkite on 'The Abilene Boys', 3 retired men who recreated in 1990 a canoe trip they had taken down the Colorado River in the 30's.
- The Water Never Got This High Before (12:10) – A look at the Colorado River's historical tendency for catastrophic floods.
- Clean Water: It Starts With You (12:15) – Tips on how you can reduce the amount of pollution in storm water runoff.
- Ready for the Next Flood (17:00) – An inside look at LCRA's flood-management operations.
- Blind Man's Vision (4:53) – A brief look at Adam Johnson, who conceived the idea for what would become Buchanan Dam.
- Innovative Storm Water Runoff Practices (7:00) – Examines innovative storm water runoff practices.

### **City of Austin Videos:**

- Austin Underground (4 chapters totaling 26:43) - Designed to provide viewers with a 'virtual field trip' into the Barton Springs Edwards Aquifer.
  - o Geology (8:03) - Explores the passage of water over land to the recharge zone into critical environmental features including fractures, sinkholes, and caves. It also examines the dissolution of karst limestone.
  - o Hydrogeology (5:24) - Explores the underground flow of water through the cave/ aquifer system by means of dye trace studies, and the re-emergence of groundwater at local springs, particularly Barton Springs.
  - o Salamander (4:18) - Studies the aquifer and the springs as a habitat for aquatic species, including the Austin Blind Salamander and the endangered Barton Springs Salamander.
  - o Threats/ Solutions (8:58) - Explores threats to the aquifer (non-point source pollution).

### **Texas Parks & Wildlife Videos:**

- Texas, The State of Water (58:00) – Examines the present state of Texas’ water sources (aquifers, rivers, and bays), and the growing demand put on those sources.
- Texas, The State of Water: Finding a Balance (56:46) – Explores the growing demand for water, the impact that growth will have on Texas, and how the steps we take will impact Texas’ people, wildlife and economic vitality.
  - o Dealing With Drought (Special Feature) (11:49) – How Corpus Christi is working to secure water for the future.
  - o Prescription to Burn (Special Feature) (9:20) – Examining fire as an important tool to manage and restore natural landscapes.
  - o Diggin’ School (Special Feature) (9:00) – School children learn to construct a ‘Wildscape’ using native plants that require little watering.
  - o Forests of the River Bottom (Special Feature) (14:49) – Examination of how natural flooding cycles are an integral part of the bottomland hardwood forests.
- Texas, The State of Flowing Water (57:00) – Explores the importance of water for people and wildlife, examines the threat facing Texas’ water and how to protect it, and outlines steps people can take to avoid water shortages.
- Texas, The State of Springs (58:00) - Explores the decline of Texas’ natural springs, issues that effect spring flow, and what can be done to save these resources.
  - o In Land We Trust (Special Feature) (10:25) – The growing land trust movement offers new hope for threatened farm and ranch lands.
  - o Policing Pollution (Special Feature) (9:39) – Game wardens work to keep our water and air clean.
  - o Last of the Bayous (Special Feature) (9:45) – Chronicles the natural beauty of the Clear Creek area and its ecological significance.
  - o Restoring Galveston Bay (Special Feature) (8:25) – Challenges of reversing damage inflicted on Galveston Bay and its marshes.

### **Water Education Foundation Video:**

- Storm Water Management- Turning Runoff Into a Resource (20:00) – Explains the problem with polluted storm water, and steps that can be taken to prevent such pollution and turn it into a water resource.

### **City of Austin Public Broadcast Announcements:**

- Grow Green Program
  - o Watershed Protection (00:00:15)
  - o Jamboree TV (00:00:15)
  - o Dan D. Lion TV (00:00:15)
  - o Professor Dung Beetle TV (00:00:15)
- Scoop the Poop (00:00:30)

## **Monthly Breakdown of TCTV Broadcasts, Year 4:**

### **August 2010 (13<sup>th</sup>-31<sup>st</sup>):**

Total number of individual long topics broadcast- 82  
Total number of individual short public broadcast announcements- 523  
Total number of all programs broadcast- 605  
Total hours broadcast for week3- 4:22:08  
Total hours broadcast for week4- 14:06:20  
Total hours broadcast for week5- 8:37:57  
Total hours broadcast- 27:06:25

### **September 2010:**

Total number of individual long topics broadcast- 83  
Total number of individual short public broadcast announcements- 552  
Total number of all programs broadcast- 635  
Total hours broadcast for week1- 12:09:43  
Total hours broadcast for week2- 8:57:51  
Total hours broadcast for week3- 9:17:46  
Total hours broadcast for week4- 13:55:39  
Total hours broadcast for week5- 4:58:55  
Total hours broadcast- 49:19:54

### **October 2010:**

Total number of individual long topics broadcast- 180  
Total number of individual short public broadcast announcements- 794  
Total number of all programs broadcast- 974  
Total hours broadcast for week1- 9:00:03  
Total hours broadcast for week2- 14:09:26  
Total hours broadcast for week3- 12:03:55  
Total hours broadcast for week4- 11:04:35  
Total hours broadcast for week5- 10:38:00  
Total hours broadcast- 56:55:59

### **November 2010:**

Total number of individual long topics broadcast- 117  
Total number of individual short public broadcast announcements- 959  
Total number of all programs broadcast- 1076  
Total hours broadcast for week1- 1:00:00  
Total hours broadcast for week2- 12:35:18  
Total hours broadcast for week3- 12:26:18  
Total hours broadcast for week4- 10:01:32  
Total hours broadcast for week5- 10:16:41  
Total hours broadcast- 46:19:49

### **December 2010:**

Total number of individual long topics broadcast- 109  
Total number of individual short public broadcast announcements- 470  
Total number of all programs broadcast- 579  
Total hours broadcast for week1- 11:54:09

Total hours broadcast for week2- 13:27:51  
Total hours broadcast for week3- 11:31:54  
Total hours broadcast for week4- 12:47:50  
Total hours broadcast for week5- 6:54:10  
Total hours broadcast- 56:35:54

**January 2010:**

Total number of individual long topics broadcast- 113  
Total number of individual short public broadcast announcements- 705  
Total number of all programs broadcast- 818  
Total hours broadcast for week1- 4:57:25  
Total hours broadcast for week2- 20:42:54  
Total hours broadcast for week3- 14:05:43  
Total hours broadcast for week4- 11:00:57  
Total hours broadcast for week5- 17:34:19  
Total hours broadcast- 68:21:18

**February 2010:**

Total number of individual long topics broadcast- 143  
Total number of individual short public broadcast announcements- 595  
Total number of all programs broadcast- 738  
Total hours broadcast for week1- 2:59:44  
Total hours broadcast for week2- 16:01:47  
Total hours broadcast for week3- 19:28:20  
Total hours broadcast for week4- 15:46:14  
Total hours broadcast for week5- 13:58:50  
Total hours broadcast- 68:14:55

**March 2010:**

Total number of individual long topics broadcast- 157  
Total number of individual short public broadcast announcements- 640  
Total number of all programs broadcast- 797  
Total hours broadcast for week1- 9:59:46  
Total hours broadcast for week2- 7:48:18  
Total hours broadcast for week3- 11:57:18  
Total hours broadcast for week4- 14:40:02  
Total hours broadcast for week5- 4:55:30  
Total hours broadcast- 49:20:54

**April 2010:**

Total number of individual long topics broadcast- 111  
Total number of individual short public broadcast announcements- 593  
Total number of all programs broadcast- 704  
Total hours broadcast for week1- 10:50:06  
Total hours broadcast for week2- 12:50:30  
Total hours broadcast for week3- 11:43:41  
Total hours broadcast for week4- 13:27:38  
Total hours broadcast for week5- 10:00:10  
Total hours broadcast- 58:52:05

**May 2010:**

Total number of individual long topics broadcast- 158  
Total number of individual short public broadcast announcements- 780  
Total number of all programs broadcast- 938  
Total hours broadcast for week1- 2:57:55  
Total hours broadcast for week2- 13:44:30  
Total hours broadcast for week3- 17:00:18  
Total hours broadcast for week4- 9:59:10  
Total hours broadcast for week5- 9:52:26  
Total hours broadcast- 53:34:19

**June 2010:**

Total number of individual long topics broadcast- 97  
Total number of individual short public broadcast announcements- 394  
Total number of all programs broadcast- 491  
Total hours broadcast for week1- 9:56:00  
Total hours broadcast for week2- 0:00:00  
Total hours broadcast for week3- 16:10:51  
Total hours broadcast for week4- 10:27:47  
Total hours broadcast for week5- 4:58:20  
Total hours broadcast- 41:32:58

**July 2010:**

Total number of individual long topics broadcast- 154  
Total number of individual short public broadcast announcements- 631  
Total number of all programs broadcast- 785  
Total hours broadcast for week1- 5:58:00  
Total hours broadcast for week2- 13:37:30  
Total hours broadcast for week3- 11:46:48  
Total hours broadcast for week4- 11:44:23  
Total hours broadcast for week5- 8:54:25  
Total hours broadcast- 52:01:06

**August 2010 (1-12<sup>th</sup>):**

Total number of individual long topics broadcast- 17  
Total number of individual short public broadcast announcements- 91  
Total number of all programs broadcast- 108  
Total hours broadcast for week1- 0:54:16  
Total hours broadcast for week2- 9:46:00  
Total hours broadcast for week3- 2:55:48  
Total hours broadcast- 13:36:04

## **Watershed Signs installed in Travis County MS4, Year 4**

**Total number of locations and signs installed- 7 locations, 13 signs installed.**

- 1. Bee Creek Road Site 1- 2 signs installed**
- 2. Bee Creek Road Site 2- 2 signs installed**
- 3. Bob Wire Road- 2 signs installed**
- 4. D.G. Collins Road- 2 signs installed**
- 5. Moore Road Site 1- 2 signs installed**
- 6. Moore Road Site 2- 2 signs installed**
- 7. Cuernavaca Road- 1 sign installed**