

**TRANSPORTATION AND NATURAL RESOURCES**

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



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December 18, 2015

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  
Texas Commission on Environmental Quality  
Region 11 Office  
P.O. Box 13087  
Austin, Texas 78711-3087

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 1 Annual Report for the TPDES Small Municipal Separate Storm Sewer System (MS4) General Permit Authorization Number TXR040327 for the Travis County MS4. As required by the general permit, a copy of this submittal is also been mailed to the TCEQ's regional office in Austin, Texas.

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

Sincerely,

A handwritten signature in blue ink, appearing to read "S. Manilla", is written over a faint blue line.

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

Enclosure:

- Annual Report Year 1 – Second Permit Term, including Attachments & Annual Report 7

**Annual Report Year 1 – Second Permit Term  
Storm Water Management Program (SWMP)  
Travis County, Transportation & Natural Resources Department**

**A. General information**

1. Permit No. TXR040327
2. Annual Reporting Period: October 1, 2014 through September 30, 2015

Note: This Annual Report Year 1 – Second Permit Term, covers the County Fiscal Year 2015 between October 1, 2014 and September 30, 2015. This Annual Report Year 1 also includes an Annual Report 7 attachment which covers the final five months between the expired 2007 permit and the 2013 second permit (August 13, 2013 to December 12, 2013), and the beginning months of the 2013 Second Permit Term (December 13, 2013 to September 30, 2014), as we transitioned to fiscal year reporting.

3. MS4 Operator Level: Level 2
4. Name of MS4 Permittee: Travis County
5. SWMP Contact/Phone: Dave Fowler, 512-854-7590
6. Mailing Address: Travis County TNR, P.O. Box 1748, Austin, Tx., 78767
7. Email Address: dave.fowler@traviscountytexas.gov

**B. Narrative Provisions**

1. Compliance with Permit Conditions:
  - a. Travis County is currently in compliance with the SWMP as submitted and approved by TCEQ.
  - b. Travis County is currently in compliance with record keeping and reporting requirements for the SWMP. Each County program performing SWMP BMPs maintains and submits records and the SWMP core staff maintains the comprehensive SWMP information compiled for the annual report.
  - 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:
  - a. As per the rationale described in detail in the approved SWMP, the County believes all the BMPs selected and being performed are appropriate for achieving the statutory goal of reducing the discharge of pollutants to the Maximum Extent Practicable (MEP) over the Permit Term. These BMPs selected are consistent with, and appropriate for, the local and regional area and are the most effective and feasible BMPs for the Travis County MS4. The County now has over eight years of cumulative experience implementing the majority of these BMPs in the County MS4.

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:

a. The County made satisfactory progress towards the goal of reducing the discharge of pollutants to the maximum extent practicable (MEP) during the Permit Year by completing all the measurable goals for the BMPs as scheduled. The County evaluates progress towards this goal primarily by the successful performance of the BMPs and measurable goals in the approved SWMP.

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

a. The County made acceptable progress implementing the SWMP during the Permit Year, with the successful completion of all new and re-authorized BMPs and measureable goals in the Second Permit Term and the transition period covered in Annual Report 7.

1. The BMPs and their measurable goals successfully performed in Year 1 are listed in the Tables on Pages 9-15 and the Annual Report 7 Attachment, on Pages 23-42.

b. Obstacles and challenges include:

1. Implementation of inter-local agreements (ILAs) with other governmental entities in the County MS4 can enhance successful implementation of the SWMP but require voluntary mutual agreement with other autonomous government agencies. The County has three existing ILAs and will continue the goal of executing ILAs or similar agreements with select smaller municipal ETJs and Special Districts (MUDs and other Small MS4s) where it will enhance implementation of the SWMP and is mutually agreeable and feasible.

2. Reliance on non-SWMP program County staff to perform certain designated SWMP tasks has been necessary to date because of limited County staff resources. Non-SWMP program staff can be less accountable for SWMP work tasks that are not their core program outcomes. It is time consuming and challenging for the core SWMP staff to perform the ongoing staff training and oversight, development of standards, procedures, and documentation systems necessary for this effort.

### **C. Storm Water Monitoring Data**

The Travis County MS4 began a surface water quality monitoring (SWQM) program in September, 2014. Twelve sites in the unincorporated area are now monitored routinely. Our program is intended to complement the City of Austin's Environmental Integrity Index (EII) that involves SWQM in the city and its fringes. In other words, if Austin is monitoring certain watersheds, Travis County does not. Similar to Austin, we monitor one-half of our sites quarterly in even-numbered fiscal years and the remaining one-half in odd-numbered fiscal years.

Travis County SWQM Sites	
FY 2015 Sites (ended 9/30/15)	FY 2016 Sites (ends 9/30/16)
Bee Creek (trib. of Lake Travis) at Bee Creek Rd	Deer Creek at Running Deer Road
Hamilton Creek (trib. of Pedernales River) upstream from Hamilton Pool	Bear Creek (trib. of Lake Austin) at Fritz Hughes Road
Maha Creek at Maha Loop	Cow Creek at Singleton Bend Road
Maha Creek at Linden Road	Sandy Creek at Nameless Road
Wilbarger Creek at Bitting School Rd	E Fork, Lick Creek at Pedernales Canyon Trail
Wilbarger Creek at Gregg Lane	W Fork, Lick Creek at Pedernales Canyon Trail

Attachment A is a table including data results for conventional pollutants and field parameters. The conventional pollutants are sampled and preserved in accordance with typical SWQM methods used by TCEQ. Additionally, toxins in sediment were collected from five of these locations during the reporting period. The analyses are conducted and reported by NELAC-certified laboratories.

Presently, from these particular monitoring efforts, there are insufficient data to determine if the SWMP is successful in reducing pollutants to MEP. Over time, this may prove possible. However, the ongoing data collection is helpful in:

- verifying toxins such as hazardous metals or organic constituents are not present in these waterways;
- providing a basis for placing priorities for inspection or further investigation within a watershed; and
- understanding if pollutant sources discharging to impaired assessment units (AUs) are contributing a load associated with the pollutant of concern.

#### D. Impaired Waterbodies

1. Section 9.0 and Appendix documents 1 through 5 in the approved Travis County SWMP describe the five impaired waterbodies and their watershed areas that are located within the Travis County MS4, and the targeted Controls/BMPs Travis County is implementing to address discharges to these impaired watershed areas.
  - a. These five impaired areas include portions of one watershed area with an approved TMDL: Gilleland Creek (SWMP Section 9.1); and four watershed areas without an approved TMDL: Walnut Creek, Bull Creek, Lake Austin, and Slaughter Creek watersheds (SWMP Section 9.2).
    1. Since the Travis County SWMP was submitted, the TMDL and I-Plan for Walnut Creek has now been approved by TCEQ. The TMDL may now be subject to USEPA approval.
  - b. No receiving water body in the Travis County MS4 was newly listed as impaired on the EPA-approved 303(d) List during Year 1, and no EPA-approved TMDLs have been established during Permit Year 1.
  - c. Travis County did not identify the WLA as a benchmark in the SWMP, so benchmark annual reporting requirements are not applicable. Impairment for bacteria has been addressed in the approved SWMP through use of appropriate BMPs as required by Part II D. 4 (5) of the general permit.

- d. Summaries of the activities taken in Year 1 to address the discharges to impaired waterbodies are described in 2.-5., below, and include the targeted Controls/BMPs implemented for the impaired areas and in-stream sampling results or other available data.
  1. Travis County believes the targeted controls/BMPs in the approved SWMP annual task schedule will be effective to address this impairment to the MEP and adequate progress has been made by the successful implementation of the measurable goals required in Year 1 for the targeted controls/BMPs.
2. Discharges to Water Quality Impaired Waters with Approved TMDL – Bacteria - Gilleland Creek. (TMDL and I-Plan Approved to Address *E. coli*)
  - a. The targeted Controls/BMPs and Measureable Goals required in Year 1 were successfully implemented and are listed in Table 9.1.1 on Page 15.
  - b. Sampling results or other available data – Surface water quality in this watershed is monitored by City of Austin at six active sites, as part of the EII. In 2013, 20 samples were collected for *E. coli*. The arithmetic mean of the samples was 215 CFU/100 ml, suggesting the geometric mean and the standard were exceeded.
3. Discharges to Water Quality Impaired Waters without Approved TMDL – Bacteria – Walnut Creek.
  - a. The targeted Controls/BMPs and Measureable Goals required in Year 1 were successfully implemented and are listed in Table 9.2.1 on Page 15. As described above in D. 1. A. 1., the TMDL and I-Plan for Walnut Creek has now been approved by TCEQ.
  - b. Sampling results or other available data - Surface water quality in this watershed is monitored by the City of Austin at five active sites, as part of the EII. In 2013, 18 samples were collected for *E. coli*. The arithmetic mean of all the samples was 217 CFU/100 ml, but the samples from the most upstream AU (the AU on the 303(d) list) had an average *E. coli* of 519. These results suggest the geometric mean and standard were exceeded.
4. Discharges to Water Quality Impaired Waters without Approved TMDL – Dissolved Oxygen – Bull Creek and Lake Austin
  - a. The targeted Controls/BMPs and Measureable Goals required in Year 1 were successfully implemented and are listed in Table 9.2.2 on Page 15.
    1. The assessment of GIS maps, files, and field reconnaissance required in Year 1 to determine if the MS4 discharge is a source of the impairment found no obvious sources in Bull Creek but some possible sources in Lake Austin. Therefore, Travis County will continue to monitor and perform field reconnaissance to assess and determine possible causes of reduced DO in the affected segments of Lake Austin and Bull Creek from MS4 discharges.

- b. Sampling results or other available data

Bull Creek - Surface water quality in the Bull Creek watershed is monitored by City of Austin at four active sites within the impaired AUs (Bull Creek upstream from Spicewood Springs/Yaupon), as part of the EII. There were 17 samples taken for DO in 2014. Mean values all exceeded the 24-hour diel minimum established in the Texas Surface Water Quality Standards (TSWQS). One individual sample of the 17 was less than 5 mg/l.

Lake Austin - Surface water quality in the Lake Austin watershed is monitored by City of Austin at two active sites on tributaries into the impaired AU (Lake Austin upstream from Quinlan Park), as part of the EII. Additionally, Travis County began monitoring of these two sites in FY16. There were 8 samples taken for DO in 2014. Mean values all exceeded the 24-hour diel minimum established in the TSWQS and no results indicated a DO less than 5 mg/l.

- 5. Discharges to Water Quality Impaired Waters without Approved TMDL – Impaired Benthic Macroinvertebrate Community – Slaughter Creek
  - a. Travis County to date has not proposed or implemented any targeted Controls/BMPs for this waterbody in the approved SWMP because efforts to address this impairment are not prioritized under the State’s Water Quality Management Plan.
  - b. Sampling results or other available data - City of Austin assessed the benthic community at two sites in 2012 and 2014. The quality of the community was rated “Very Good”, an increase in status from a prior score. Due to the categorization of this impairment as 5b, Travis County does not establish BMPs specific to the impairment in this watershed.

#### **E. Stormwater activities next reporting year**

The County will continue to perform the ongoing storm water BMP activities scheduled in the SWMP 5 year plan approved by TCEQ in the fiscal year which began October 1, 2015 and continues through September 30, 2016 (Travis County Fiscal Year 2016 [FY16] = SWMP Year 2). The activities and measurable goals which will be implemented in Year 2 are listed on the Tables on Pages 9-15, with some additional measurable goals due as well, as described in the approved SWMP.

#### **F. SWMP Modifications and Additional Information**

- 1. Changes to the approved SWMP in Permit Year 1:
  - a. No substantial changes to BMPs, measureable goals, dates, contacts, procedures or details were made during Year 1.
  - b. No BMP additions or substitutions were proposed or made during Year 1.
- 2. Proposed changes to the SWMP in the upcoming reporting year:
  - a. There are no proposed changes to the existing BMPs in Year 2.

## **G. Additional BMPs**

No additional BMPs are planned to be implemented or deemed to be necessary at this time for compliance with TMDLs and implementation plans in addition to the BMPs already scheduled in the SWMP approved by TCEQ.

## **H. Additional Information**

1. The Travis County MS4 is currently relying on the following other government entities to satisfy some permit obligations through interlocal agreement. However, here is not a common SWMP or system-wide annual report:
  - a. The City of Austin performs construction and post-construction review and inspection requirements (MCMs 3 and 4) 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 Austin ETJ.
  - b. The Lower Colorado River Authority (LCRA) performs joint construction and post-construction plan review requirements (MCM 3 and 4) 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 Protection Program performs construction and post-construction review and inspection requirements (MCM 3 and 4) on construction projects in the Barton Springs Segment of the 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.

## **I. Construction Activities**

1. The number and types of construction projects in the County MS4 where Travis County was not the construction site operator are listed in Table 3-4 on Page 12, under the BMP entitled "Development Permit Approval for MS4 Construction Activities".
2. Travis County does utilize the seventh MCM for County construction activities. The County construction activities authorized under this general permit during Year 1 and the total number of acres disturbed for these County construction projects are listed in Table 7 on Page 14, under the BMP entitled "CIP Environmental Review Program"

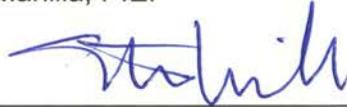
**J. Certification:**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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: \_\_\_\_\_

 12/17/15

## SWMP BMPs and Measurable Goals, Year 1 – Tables

The Tables on Pages 9-15 contain the Best Management Practices, Major Tasks and Measurable Goals for the Minimum Control Measures from the approved SWMP document for Year1, with the BMP and Measurable Goal results provided in the right-hand column. Miscellaneous significant tasks performed during the Permit Year which were not scheduled in the approved SWMP are listed at the bottom of each MCM Table as *Unscheduled Activities*, if applicable.

<b>Table 1A</b>		
<b>MCM 1 - Public Education and Outreach BMPs – Year 1</b>		
<b>BMP/ Responsible Program</b>	<b>Major Task Measurable Goals - Required Year 1</b>	<b>Year 1 Results (FY15)</b>
<b>Grow Green Program Texas A&amp;M AgriLife</b>	Number of Educational program events	2
	Number of Program contacts	200
	Number of Contact hours	400
	Number of Fact Sheets distributed	28,750
	Number of Adaptive Plant guides distributed	7,938
<b>Water Conservation/ Quality Education Activities–Adult Texas A&amp;M AgriLife</b>	Number of Educational program sessions	98
	Number of Program contacts	3,563
	Number of Contact hours	7,126
<b>Water Science &amp; Conservation Education Activities-Youth Texas A&amp;M AgriLife</b>	Number of Educational program sessions	88
	Number of Program contacts	1,434
	Number of Contact hours	3,818
<b>OSSF Outreach TNR Development Services</b>	Number of public inquiries for OSSF permits and O&M information responded to	181
	Number of web site hits	6,232
	Number of existing and new outreach documents downloaded	*785
<b>Watershed and Creek Crossing Signs TNR SWMP</b>	Develop plan - watershed signs at 10 locations and creek crossing signs at 5 locations	<b>Plan Complete</b>
<b>Construction Outreach  TNR Development Services   TNR SWMP</b>	Number of responses to inquiries of construction activities through the TNR Dev Permit Center Process	456
	Number of non-residential applications providing Permit Checklists	212 (100%)
	Number of residential applications providing Permit Checklists	2294 (100%)
	Number of new and existing SWP3 guidance documents provided to permit applicants and construction industry personnel through the TNR Permit Center and website	110
	Number of pre-development meetings for permit applicants with non-res projects 3 acres and greater and subdivisions 10 acres and greater	8
	Number of pre-construction meetings conducted for SWP3 (non-residential permits)	32
<b>Travis County TV (TCTV) Travis County TCTV Dept. TNR SWMP</b>	Total hours broadcast each week, month, and annually; numbers and names of different programs.  <b>See ATTACHMENT B for detailed breakdown of hours and programs</b>	730 <b>annually</b>
<b>SWMP Web Site Travis County ITS Dept. TNR SWMP</b>	Number of web site hits	8,832

\*estimated, unable to count precise number of pdf document downloads for web site.

**Table 1B**  
**MCM 1 Public Involvement BMPs – Year 1**

<b>BMP/ Responsible Program</b>	<b>Major Task Measurable Goals - Required Year 1</b>	<b>Year 1 Results (FY15)</b>
<b>Public Notice for SWMP activities TNR SWMP</b>	Number of Com Court Agenda items	<b>5 - County Code revision items related to SWMP 1- Interlocal Agreement for HHW with City of Austin 16 – Items related to water quality and SWMP</b>
	Number of newspaper or media notices	<b>1 – Public Notice/Comment for County SWMP approval</b>
	Number of public meetings (SWMP)	<b>0</b>
<b>Community Storm Water Initiatives  TNR SWMP and Dev Services</b>	<b>Meetings</b>	<b>Number Meetings attended</b>
	Regional Water Quality Protection Plan	<b>8</b>
	Onion Creek and Highland Lakes FDEPs	<b>0</b>
	Colorado River Floodplain Coalition	<b>2</b>
	TMDL Implementation Task Force for Gilleland Creek & I-Plan Coordination Committee for Austin TMDLs	<b>2</b>
<b>Open Space Acquisition TNR BCP</b>	Number of floodplain acres purchased, costs	<b>206 ac, \$4,004,454</b>
	Number of BCP acres acquired by the County, costs	<b>1884 ac, \$21,036,979</b>
	Number of parkland acres purchased, costs	<b>0</b>
	Number of open space conservation easement (CEBP) acres, costs	<b>0</b>
<b>Household Hazardous Waste Collection TNR NREQ</b>	Total County financial contribution	<b>\$88,435.80</b>
	Number of County residents participating	<b>2,649</b>
	Number of outreach events	<b>7</b>
	Number of HHWC web page hits	<b>4,193</b>
<b>Volunteer Participation Projects (clean-up, restoration, tree planting, inlet markers, etc.)  TNR NREQ</b>	Number and type of community volunteer activities performed.	<b>1. Lake Travis Clean-up</b> <ul style="list-style-type: none"> <li>• 21 clean-up sites</li> <li>• 884 Volunteers</li> <li>• 5.17 tons of litter removed</li> </ul> <b>2. Pharmaceutical Take Back</b> <ul style="list-style-type: none"> <li>• 90 lbs of expired prescriptions</li> <li>• 29 Participants</li> </ul>
	Include quantities of materials installed, waste removed, etc., if available.	
<b>Keep Austin Beautiful TNR NREQ</b>	Total County financial contribution to support Keep Austin Beautiful	<b>\$30,000</b>

**Unscheduled Activities, MCM 1, Year 1:**

1. Travis County panelists presented LID initiatives to the American Civil Engineers Association April 30
2. Presented the results of environmental monitoring to citizens in Hornsby Bend area on Oct. 27
3. Participated with Travis County Judge in regional forum on wastewater reuse options on Aug. 31
4. Participated in TCEQ Public Meeting relating to wastewater disposal at proposed Masonwood Subdivision on Dec. 15
5. Participated with other Travis County staff in Healthy People, Healthy Planet Earth Day event April 22.
6. Travis County TNR's Road Maintenance program purchased road-building materials and provided in-kind labor to construct an all-weather route (Neidhardt Drive) to allow for improved public access to the Lake Travis Regional Reuse & Recycling Center near Lakeway.

**Table 2**  
**MCM 2 – Illicit Discharge Detection and Elimination (IDDE) BMPs – Year 1**

<b>BMP/ Responsible Program</b>	<b>Major Task Measurable Goals - Required Year 1</b>	<b>Year 1 Results (FY15)</b>
<b>County IDDE Response Programs</b>  <b>TNR SWMP</b>  <b>Travis County Attorney Environmental Crimes Unit (TCA ECU)</b>  <b>Travis County Sheriff's Office (TCSO)</b>	Number of IDDE complaints/cases received & investigated, referred, resolved, enforced – <b>TNR SWMP</b>	22 received 10 investigated 13 referred 8 resolved 0 enforced
	Number of IDDE complaints/cases received & investigated, referred, resolved, enforced – <b>TCA ECU</b>	227 new cases opened 180 cases closed 187 sites investigated 140 polluted sites cleaned 246,703 lbs. of waste abated
	Number of IDDE complaints/cases received & investigated, referred, resolved, enforced - <b>TCSO</b>	338 complaints investigated 106 complaints resolved
	Number of applicable TNR employees trained in IDDE as part of SWPP training in MCM 5, BMP 5.3.2 - <b>TNR SWMP</b>	145
<b>On-Site Sewage Facility (OSSF) Permit Program</b> <b>TNR Dev Services</b>	Number of OSSF permit applications reviewed	662
	Number of OSSF permit applications permitted	640
	Number of OSSF permit applications inspected	2,132
	Number of OSSF permit applications issued License to Operate	548
	Number of aerobic and commercial OSSF system maintenance contracts, monitored	4, 647
	Number of complaints investigated, resolved, or referred to enforcement for improper operation and maintenance of OSSF systems or sewage discharge	135, 98, 8
<b>Travis County Dumping Committee (TCDC)**</b> <b>TCDC / TNR SWMP</b>	Number of TCDC meetings held and participated in.	8 / 7
<b>Regional Environmental Task Force (RETF)</b> <b>RETF / TNR SWMP</b>	Number of RETF Quarterly meetings and training sessions attended	0
	Number of County employees trained through RETF	2
	Number of No Dumping signs installed through RETF	55
<b>TCESD Spill Response Program</b> <b>TCESD</b>	Number of County ROW haz-mat spills or illicit discharges responded to/resolved/referred to enforcement by TCESD	36/ 36/ 23
<b>Nuisance Abatement Program</b> <b>ATCHHSD Env. Health Sev. Div. (EHSD)</b>	Number of complaints of illegal waste disposal on private property investigated within 30 days, and resolved, or referred for legal enforcement	213/ 187/ 16
<b>Auto Salvage Yard Program</b> <b>ATCHHSD EHSD</b>	Number of auto yard inspections/ complaints responded to within 30 days/ number referred for enforcement	1/1
<b>Industrial Site Monitoring and Outreach</b> <b>TNR SWMP</b>	Complete industrial site inventory and perform site visit for storm water compliance evaluation and outreach - Once per Permit Term - Number inspected annually	<b>Inventory updated</b>
		<b>9 sites inspected</b>
	Number of new or redeveloping industrial sites reviewed for storm water regulations, number issued County development permits	2, 1
	Number of industrial site complaints received, referred, investigated, resolved.	2 received 0 referred 2 investigated 2 resolved
<b>MS4 Map</b> <b>TNR SWMP</b>	Total number of all new drainage structures surveyed and added to MS4 Map	838
	Number of new permanent WQ BMPs & Det Ponds surveyed and added to MS4 Map	106
	Number of new outfalls surveyed and added to MS4 Map	67

\*\*Note: in FY15, the TCDC was renamed the County-Wide Environmental Committee (CWEC)

**Table 3-4  
MCM 3 and 4 – Construction Site Storm Water Runoff Control and Post-Construction Storm Water Management BMPs – Year 1**

<b>BMP/ Responsible Program</b>	<b>Major Task Measurable Goals - Required Year 1</b>	<b>Year 1 Results (FY15)</b>
<b>Environmental Review Program</b>  <b>TNR SWMP</b>	<b>*Outside Austin ETJ:</b>	
	Number of subdivision preliminary plans/ plats reviewed	18
	Number of subdivision construction plans reviewed	39
	Number of site plan (site development) construction plans reviewed	47 (10)
	Number of residential permits/construction plans reviewed	15 (5)
	<b>*Austin ETJ:</b>	
	Number of subdivision preliminary plans/ plats reviewed	0
	Number of subdivision construction plans reviewed	0
	Number of site plan (site development) construction plans reviewed	16 (83)
Number of residential permits/construction plans reviewed	12 (43)	
<b>Environmental Inspection Program</b>  <b>TNR SWMP and Dev Services</b>	<b>Outside Austin ETJ:</b>	
	Total site development projects inspected, total inspections	95/ 627
	Total subdivision projects inspected, total inspections	60 / 650
	Total residential construction sites inspected, total inspections	89 / 179
	Total inspections (from above 3 rows), total compliant, percentage compliant.	1,456/ 1,174 / 80%
	Total non-residential projects (subdivision, site dev) given a conditional acceptance or a Certificate of Compliance.	35
	<b>Austin ETJ:</b>	
	Total site development projects inspected, total inspections	8 / 22
	Total subdivision projects inspected, total inspections	2 / 2
	Total residential construction sites inspected, total inspections	28 / 53
	Total inspections (from above), total compliant, percentage compliant.	77 / 34 / 44%
	Total non-residential projects (subdivision, site dev) given a conditional acceptance or a Certificate of Compliance.	0
<b>Employee SW Certification and Training</b> <b>TNR SWMP</b>	Number of training sessions conducted for storm water certification	4
	Total employees trained in sessions	11
	Number of employees with new or renewed storm water certifications.	8
<b>Development Complaint Hotline</b> <b>TNR Dev Services</b>	Number of inquiries concerning construction activities received & responded to	164
	Number of 164 inquiries concerning construction activities resolved	145
	Number of 164 inquiries concerning construction activities referred	2
<b>Permanent WQ BMP Maintenance Permit and Inspection Program</b> <b>TNR SWMP</b>	Total new BMP Maintenance Permits issued	2
	Total existing BMP Maintenance Permits renewed.	0
	Total new permanent WQ BMPs and detention ponds added to database.	82
	Total BMPs inspected/ number of inspections.	29/ 29
<b>Development Permit Approval for MS4 Construction Activities</b> CPOD= Common Plan of Development  <b>TNR Dev Services</b>	<b>Outside Austin ETJ:</b>	
	Total non-residential permits approved	63
	Total residential permits approved within a CPOD/Total submitting SWP3 Summaries	549/ all
	Total residential permits approved not within a CPOD/ Total 1 acre or greater/Total submitting SWP3 Summaries	35/ all
	<b>Austin ETJ:</b>	
	Total non-residential permits approved	149
Total residential permits approved within a CPOD/Total submitting SWP3 Summaries	1488/ all	
Total residential permits approved not within a CPOD/ Total 1 acre or greater/Total submitting SWP3 Summaries	22/ all	

\* Note: Primary environmental reviews are the first numbers entered in the column, which indicate a detailed level of review and approval. The review numbers in parenthesis are assessment reviews performed on additional permit applications which determined a more detailed environmental review was not necessary under SWMP criteria.

**Table 5  
MCM 5 – Pollution Prevention and Good Housekeeping for County Operations BMPs – Year 1**

<b>BMP/ Responsible Program</b>	<b>Major Task Measurable Goals - Required Year 1</b>	<b>Year 1 Results (FY15)</b>
<b>Environmental Health and Safety (EHS) Program for County Facilities TNR SWMP</b>	Number of County facilities with EHS Plans inspected	9
	Total EHS Plan facilities in substantial EHS compliance	9
	Total compliance inspections	9
<b>Employee SWPP Training TNR SWMP</b>	Number of O&M employees trained.	145
<b>Pesticide Applicator Licensing TNR NREQ</b>	Number of TNR O&M employees certified, re-certified, and taking CEUs (Non-Commercial Certified Applicator Licensing)	22
<b>County Pond Inspection and Maint. Program TNR SWMP</b>	Number of County-owned ponds and BMPs maintained.	28
<b>Facility Waste Management and Disposal  TNR NREQ  Facilities Management</b>	Prepare/complete Annual Report for TC Waste Management Program	<b>complete</b>
	Fleet waste oil recycled/disposed, gallons	<b>7,049 gal</b>
	Fleet used oil filters recycled/disposed, number	<b>18 drums</b>
	Fleet used anti-freeze recycled/disposed, gallons	<b>285</b>
	Fleet used tires recycled/disposed, number	<b>126,340 lbs</b>
	Fleet used lead-acid batteries recycled/disposed, number	<b>643</b>
	Municipal solid waste disposed, East Service Center, CYs (Facilities Management)	<b>561</b>
	Municipal solid waste disposed, West Service Center, CYs (Facilities Management)	<b>312</b>
<b>Roadside Litter Abatement TNR Road Maint.</b>	Number of miles of roadsides cleaned	<b>1591</b>
	Number of work orders performed	<b>816</b>
	Cubic yards waste disposed of at landfill	<b>2616</b>
<b>ESC BMPs for Maintenance Construction (WOs following adopted ESC BMP criteria) TNR Road Maint.</b>	Total work orders performed in Program 4105 – Reconstruction	<b>11</b>
	Total work orders performed in Program 4111 – Level-up	<b>30</b>
	Total work orders performed in Program 4120 - Drainage,	<b>384</b>
	Total Road, Park, BCP work orders/projects inspected; total inspections Performed by SWMP staff <b>TNR SWMP</b>	<b>15/35</b>
<b>Closed Landfill Management TNR NREQ</b>	Prepare/complete Annual Closed Landfill Status Report for County Auditor.	<b>complete</b>
	Hwy 290 East Closed Landfill - Total gallons of leachate disposed of to the Austin wastewater system	<b>2,449,193</b>

**Unscheduled Activities, MCM 5, Year 1:**

1. TNR performed 17 routine reviews of Travis County Purchasing Department Contracts to review for compliance with environmental regulations, including storm water and regulations related to water quality.

**Table 7**  
**MCM 7 – Authorization for County Construction Activities BMPs – Year 1**

<b>BMP/ Responsible Program</b>	<b>Major Task Measurable Goals - Required Year 1</b>	<b>Year 1 Results (FY15)</b>
<b>CIP Environmental Review Program TNR SWMP</b>	Total CIP projects reviewed for SWP3s and PWQCs and approved	<b>12 reviewed 6 approved</b>
	Total CIP projects authorized for construction by County CSN	<b>10</b>
	Total disturbed acreage for the CIP projects authorized, above	<b>251.34</b>
<b>CIP Environmental Inspection Program  TNR CIP and SWMP</b>	Total certified SWP3 Inspection Reports prepared for CIPs, total in compliance, % in compliance <b>CIP</b>	<b>289, 241, 84%</b>
	Total CIP SWP3 Audit Inspections <b>SWMP</b>	<b>20 Quarterly Audits 71 inspections</b>
	Total CIP projects completed/finaled in compliance	<b>6</b>
	Total Permanent Water Quality Controls (PWQCs) and detention ponds accepted for County maintenance	<b>1 (22 pending)</b>

<b>Table 9.1.1 BMPs for Water Quality Impaired Waters with an Approved TMDL – Bacteria – Year 1 Gilleland Creek</b>			
<b>BMP/ Responsible Program</b>	<b>Major Tasks</b>	<b>Measurable Goals Required Year 1</b>	<b>Year 1 Results (FY15)</b>
<b>Increase Required Riparian Setbacks from New Development</b>  <b>TNR SWMP</b>	Increase waterway setbacks in Gilleland Creek watershed to prevent an increase in bacteria load associated with new development. Setbacks are implemented from the centerline of each minor, intermediate, and major waterway within the Gilleland Creek watershed in Travis County jurisdiction.	No. of Development Applications and linear feet of setback area on each project/permit subject to waterway setback approved in the Travis County Gilleland Creek watershed	1 / 1,400'
<b>Public Outreach on Pet Waste</b>  <b>TNR SWMP</b>	Support existing initiatives under the Gilleland Creek TMDL I-Plan to educate the public on bagging and disposing of pet waste by placement of bags near walking trail in the Travis County NE Metro Park	Estimated number of bags dispensed to public	3, 500

<b>Table 9.2.1 BMPs for Water Quality Impaired Waters without a TMDL – Bacteria Walnut Creek – Year 1</b>			
<b>BMP/ Responsible Program</b>	<b>Major Tasks</b>	<b>Measurable Goals Required Year 1</b>	<b>Year 1 Results (FY15)</b>
<b>Increase Required Riparian Setbacks from New Development</b>  <b>TNR SWMP</b>	Increase waterway setbacks in Walnut Creek watershed to prevent an increase in bacteria load associated with new development. Setbacks are implemented from the centerline of each minor, intermediate, and major waterway within the Walnut Creek watershed in Travis County jurisdiction.	No. of Development Applications and linear feet of setback area on each project/permit in the Walnut Creek Travis County watershed area which is subject to the waterway setback.	1 / 750'

<b>Table 9.2.2 BMPs for Water Quality Impaired Waters without a TMDL – Dissolved Oxygen Bull Creek &amp; Lake Austin – Year 1</b>			
<b>BMP/ Responsible Program</b>	<b>Major Tasks</b>	<b>Measurable Goals Required Year 1</b>	<b>Year 1 Results (FY15)</b>
<b>Determine if MS4 is a source</b> <b>TNR SWMP</b>	GIS and file review, field reconnaissance	Report of findings - Year 1	Report completed
<b>Notification of illicit discharges</b>  <b>TNR SWMP</b>	Document and report Sanitary Sewer overflows (SSOs) and unauthorized discharges to owner or TCEQ,	No. of notifications	0
<b>Endangered Species Management of Balcones Canyonland Preserve (BCP)</b>  <b>TNR SWMP</b>	Land acquisition of parcels with Jollyville Plateau Salamander and songbird habitat in the impaired watershed; management of publicly-owned lands for natural resource protection using existing partnerships	No. acres acquired in watershed for the BCP	0

Attachment A Travis County Surface Water Quality Monitoring

Sample Location	Date Collected	Temperature (deg. Celsius)	pH (standard units)	Dissolved Oxygen mg/l	Conductivity umhos/cm	Chlorine residual, mg/l (Hach)	TSS mg/L SM2540D	Secchi Transparency cm	Turbidity NTUs	Chloride mg/L E300.00 Anions	Sulfate mg/L E300.00 Anions	TDS mg/L SM2540C	Alkalinity mg/L SM2320B	Nitrogen, Ammonia (as N) E350.1	Nitrate/Nitrite mg/L SM4500-NO3-H	Nitrate mg/l (Chemets)	Nitrogen, Kjeldahl, Total E351.2	Phosphorus, Total mg/L E365.4	Chlorophyll-a ug/L E445.0	Phycocyanin-A ug/L E445.0	E-Coli MPN SM9223, IDEXX	E-Coli TNR staff count
Bear Cr (W) @ Fritz Hughes	9/23/2014	22.28	7.62	7.66	654.00	0.00	1.03	>125	0.90	53.00	47.10	396.00	225.00	<0.0200	0.048	0.20	<0.100	<0.0200	<0.500	<0.500	83.60	<20
Bee Cr @ Bee Creek Rd	9/30/2014	25.14	7.80	7.53	504.00	0.00	1.44	>125	0.66	18.50	31.90	318.00	228.00	<0.0200	0.036	0.00	0.101	<0.0200	<0.500	<0.500	46.00	<20
Bee Cr @ Bee Creek Rd	12/22/2014	15.66	7.68	8.71	573.00	0.00	<1.00	>120	0.64	27.50	44.00	333.00	225.00	<0.0200	0.193	0.00	<0.100	<0.0200	<0.500	<0.500	NS	38
Bee Cr @ Bee Creek Rd	3/25/2015	19.49	8.00	9.12	547.00	0.00	<1.11	>120	2.49	16.20	36.50	309.00	220.00	<0.0200	<0.0200	0.00	0.102	<0.0200	<0.500	<0.500	NS	<20
Bee Cr @ Bee Creek Rd	6/23/2015	25.13	8.02	8.71	522.00	0.00	1.25	>120	1.68	17.40	23.80	322.00	232.00	<0.0200	0.204	NS	<0.100	<0.0200	<0.667	<0.667	NS	20
Bee Cr @ Bee Creek Rd	9/29/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bee Cr @ Hwy 71	9/30/2014	22.02	7.25	4.41	448.00	0.00	1.72	>125	1.48	10.60	17.50	281.00	222.00	<0.0200	0.240	0.00	0.118	<0.0200	<1.00	<1.00	19.50	<50
Big Sandy Cr @ Nameless Rd	9/23/2014	24.55	7.32	3.99	476.00	0.00	<1.03	>125	0.65	11.70	19.10	285.00	218.00	<0.0200	0.110	0.00	0.130	<0.0200	<1.00	<1.00	135.00	<20
Cow Cr @ Singleton Bend Rd	9/23/2014	23.56	7.85	6.26	367.00	0.00	<1.11	>125	1.67	6.78	17.30	224.00	169.00	<0.0200	<0.0200	0.00	0.126	<0.0200	<0.500	<0.500	201.00	40
Cypress Cr @ Volente Rd	9/16/2014	24.41	7.57	7.20	672.00	0.00	4.28	110.00	2.14	40.50	38.10	402.00	257.00	0.176	1.000	0.00	0.585	0.024	9.99	3.96	153.00	150
Deer Cr @ Running Deer Rd	9/23/2014	24.16	7.72	8.06	535.00	0.00	<1.09	>125	3.06	32.90	27.00	265.00	202.00	<0.0200	0.501	0.00	0.183	<0.0200	<0.500	<0.500	435.00	80
Dry Cr (NE) @ Littig	9/30/2014	23.70	7.51	3.15	582.00	<0.10	18.00	25.20	23.70	58.20	53.20	394.00	178.00	<0.0200	<0.0200	0.00	0.282	0.101	2.67	0.826	126.00	NS
Hamilton Cr @ Hamilton Pool	9/30/2014	22.72	7.87	7.83	435.00	0.00	1.73	>125	1.08	9.43	24.80	274.00	211.00	0.031	0.020	0.00	0.248	<0.0200	1.33	<0.500	90.00	<50
Hamilton Cr @ Hamilton Pool	12/22/2014	16.10	7.95	10.87	484.00	0.00	7.58	>120	1.53	11.00	19.80	276.00	232.00	<0.0200	0.033	0.00	<0.100	<0.0200	3.06	0.61	NS	88
Hamilton Cr @ Hamilton Pool	3/25/2015	20.35	8.03	10.86	545.00	0.00	<1.16	>120	0.64	19.60	30.90	309.00	219.00	<0.0200	0.424	0.00	0.142	<0.0200	<0.500	<0.500	NS	140
Hamilton Cr @ Hamilton Pool	6/23/2015	26.40	8.01	9.01	519.00	0.00	<1.25	>120	1.93	15.20	23.10	291.00	230.00	<0.0200	0.049	NS	<0.200	<0.0200	<0.667	<0.667	NS	20
Hamilton Cr @ Hamilton Pool	9/29/2015	22.82	7.43	8.69	527.00	0.00	<1.00	>120	1.09	13.50	16.50	307.00	238.00	<0.0200	0.059	NS	0.215	<0.0200	0.842	<0.500	NS	<20
Maha Cr @ Linden Rd	9/16/2014	24.20	7.42	3.45	413.00	0.00	14.90	22.60	40.30	26.50	39.10	275.00	133.00	0.057	<0.0200	0.00	1.440	0.106	13.90	19.70	33.60	20
Maha Cr @ Linden Rd	12/23/2014	13.46	7.49	5.16	533.00	0.00	2.24	100.40	2.57	18.80	77.10	356.00	165.00	<0.0200	<0.0200	0.00	0.611	0.150	7.29	1.20	NS	75
Maha Cr @ Linden Rd	3/26/2015	20.73	7.76	5.91	421.00	0.00	13.10	34.30	17.60	10.80	36.70	13.10	153.00	<0.0200	0.142	0.00	1.210	0.139	10.10	6.26	NS	40
Maha Cr @ Linden Rd	6/24/2015	28.38	6.87	5.12	505.00	0.00	8.80	52.00	13.00	17.30	68.20	333.00	160.00	<0.0200	<0.0200	NS	0.775	0.105	12.20	5.58	NS	<20
Maha Cr @ Linden Rd	9/28/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Maha Cr @ Maha Loop	12/23/2014	13.24	7.77	6.61	552.00	0.00	13.40	27.80	21.70	25.50	75.70	330.00	175.00	<0.0200	<0.0200	0.00	0.567	0.093	8.35	2.11	NS	75
Maha Cr @ Maha Loop	3/26/2015	21.00	7.94	6.82	497.00	0.00	25.80	17.30	32.40	15.00	59.60	323.00	164.00	<0.0200	0.030	0.00	0.935	0.060	8.94	2.99	NS	80
Maha Cr @ Maha Loop	6/24/2015	28.69	7.61	4.67	660.00	0.00	25.20	32.20	22.40	23.90	121.00	449.00	192.00	<0.0200	<0.0200	NS	0.964	0.063	9.03	2.42	NS	200
Maha Cr @ Maha Loop	9/28/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Wilbarger Cr @ Bitting School	9/16/2014	24.86	7.71	5.37	745.00	0.00	10.20	65.80	10.40	101.00	88.50	451.00	134.00	0.022	0.082	0.00	0.618	0.071	3.02	1.26	69.50	40
Wilbarger Cr @ Bitting School	12/23/2014	13.24	7.95	9.00	712.00	0.00	19.30	29.40	25.10	67.90	85.00	451.00	167.00	<0.0200	1.080	0.00	0.833	0.149	2.85	2.14	NS	75
Wilbarger Cr @ Bitting School	3/26/2015	19.85	8.07	8.16	821.00	0.00	22.20	31.00	20.70	68.10	84.60	499.00	214.00	<0.0200	2.440	0.50	0.878	0.070	3.67	2.68	NS	160
Wilbarger Cr @ Bitting School	6/24/2015	27.01	7.76	7.30	572.00	0.00	44.00	15.40	47.30	40.30	67.60	360.00	169.00	<0.0200	0.170	NS	0.946	0.115	4.11	1.82	NS	150
Wilbarger Cr @ Bitting School	9/28/2015	23.67	7.64	6.13	657.00	0.00	5.00	67.20	10.10	63.70	108.00	405.00	119.00	<0.0200	<0.0200	NS	0.752	0.025	3.44	1.30	NS	20
Wilbarger Cr @ Gregg Ln	9/16/2014	23.80	7.85	5.14	825.00	0.00	37.30	19.20	33.70	116.00	78.70	494.00	173.00	<0.0200	0.027	0.00	0.896	0.064	32.20	6.54	29.20	40
Wilbarger Cr @ Gregg Ln	12/23/2014	13.06	7.84	8.11	693.00	0.00	8.40	51.40	10.80	73.80	72.70	421.00	175.00	<0.0200	0.238	0.00	0.404	0.032	2.87	1.06	NS	450
Wilbarger Cr @ Gregg Ln	3/26/2015	20.80	7.92	7.61	851.00	0.00	20.00	35.00	20.10	72.00	85.00	491.00	237.00	<0.0200	1.470	0.35	0.566	0.039	1.65	1.41	NS	190
Wilbarger Cr @ Gregg Ln	6/24/2015	27.50	7.41	5.98	734.00	0.00	23.90	22.50	27.50	64.30	74.80	454.00	214.00	0.023	0.356	NS	0.759	0.054	3.11	1.22	NS	120
Wilbarger Cr @ Gregg Ln	9/28/2015	23.45	7.24	4.25	764.00	0.00	35.10	20.90	34.40	67.60	123.00	498.00	171.00	<0.0200	<0.0200	NS	0.754	0.059	17.90	4.69	NS	160

NS = Not Sampled

**ATTACHMENT B**  
**TCTV Program Info for SWMP Public Education BMP – Year 1**

**Monthly Breakdown of TCTV Broadcasts:** \*Weeks run from Wed-Mon, Tuesday optional

October 2014

- Total number of individual long topics- 223
- Total number of individual public broadcast announcements- 1113
- Total number of all programs broadcast- 1336
- Week 1- 14:19:58
- Week 2- 21:36:46
- Week 3- 14:38:06
- Week 4- 17:44:00
- Week 5- 04:59:42
- Total hours broadcast- 73:18:32

November 2014

- Total number of individual long topics- 461
- Total number of individual public broadcast announcements- 1064
- Total number of all programs broadcast- 1525
- Week 1- 03:22:57
- Week 2- 15:41:51
- Week 3- 18:19:11
- Week 4- 18:53:09
- Week 5- 14:14:50
- Total hours broadcast- 70:31:58

December 2014

- Total number of individual long topics- 186
- Total number of individual public broadcast announcements- 1047
- Total number of all programs broadcast- 1233
- Week 1- 03:55:09
- Week 2- 15:13:01
- Week 3- 16:51:07
- Week 4- 16:58:17
- Week 5- 15:48:11
- Week 6- 02:13:06
- Total hours broadcast- 70:58:51

January 2015

- Total number of individual long topics- 361
- Total number of individual public broadcast announcements- 1211
- Total number of all programs broadcast- 1572
- Week 1- 14:41:00
- Week 2- 13:44:39
- Week 3- 13:45:35
- Week 4- 12:41:40
- Week 5- 09:39:08
- Total hours broadcast- 64:32:02

February 2015

- Total number of individual long topics- 349
- Total number of individual public broadcast announcements- 564
- Total number of all programs broadcast- 913

- Week 1- 03:46:22
- Week 2- 10:37:15
- Week 3- 15:02:31
- Week 4- 13:54:22
- Week 5- 09:50:40
- Total hours broadcast- 53:11:10

#### March 2015

- Total number of individual long topics- 286
- Total number of individual public broadcast announcements- 323
- Total number of all programs broadcast- 609
- Week 1- 02:57:12
- Week 2- 12:10:00
- Week 3- 14:48:19
- Week 4- 10:55:26
- Week 5- 12:13:33
- Total hours broadcast- 53:04:30

#### April 2015

- Total number of individual long topics- 258
- Total number of individual public broadcast announcements- 980
- Total number of all programs broadcast- 1238
- Week 1- 14:39:00
- Week 2- 13:40:26
- Week 3- 14:17:14
- Week 4- 12:21:06
- Week 5- 04:42:27
- Total hours broadcast- 59:40:13

#### May 2015

- Total number of individual long topics- 346
- Total number of individual public broadcast announcements- 638
- Total number of all programs broadcast- 984
- Week 1- 10:19:40
- Week 2- 18:09:00
- Week 3- 14:03:20
- Week 4- 13:47:26
- Week 5- 09:31:40
- Total hours broadcast- 65:51:06

#### June 2015

- Total number of individual long topics- 94
- Total number of individual public broadcast announcements- 627
- Total number of all programs broadcast- 721
- Week 1- 02:50:54
- Week 2- 14:52:15
- Week 3- 12:50:28
- Week 4- 10:37:16
- Week 5- 12:54:51
- Total hours broadcast- 54:05:44

#### July 2015

- Total number of individual long topics- 366
- Total number of individual public broadcast announcements- 750

- Total number of all programs broadcast- 1116
- Week 1- 13:48:58
- Week 2- 12:48:31
- Week 3- 10:28:35
- Week 4- 12:50:36
- Week 5- 07:52:40
- Total hours broadcast- 57:49:20

August 2015

- Total number of individual long topics- 149
- Total number of individual public broadcast announcements- 290
- Total number of all programs broadcast- 439
- Week 1- 02:57:15
- Week 2- 12:44:56
- Week 3- 13:19:11
- Week 4- 11:59:02
- Week 5- 11:44:48
- Total hours broadcast- 52:45:12

September 2015

- Total number of individual long topics- 127
- Total number of individual public broadcast announcements- 528
- Total number of all programs broadcast- 655
- Week 1- 00:58:44
- Week 2- 14:56:18
- Week 3- 08:47:06
- Week 4- 13:54:48
- Week 5- 13:46:56
- Week 6- 01:57:14
- Total hours broadcast- 54:21:06

**ANNUAL YEAR 1 TOTALS:**

Total number of individual long topics broadcast- 3,206

Total number of individual short public broadcast announcements- 9,135

**Total number of video broadcasts (long + short topics) – 12,341**

**Total hours broadcast- 730:09:44**

## TCTV Broadcast Program Summary for SWMP Public Education BMP, Year 1:

### 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.
- **Water Smart Videos (x12)**
  - o Use mulch and save water (2:13) - How adding mulch and compost can help save water, cut your water bill, and keep your lawn and plants healthier.
  - o Mulch improves your soil (1:58) - How mulch and compost keep weeds at bay, improves your soil and makes your once-a-week watering more efficient.
  - o Test your irrigation system (2:07) - Demonstration on how testing your irrigation system is easy- how to install a new battery, check for broken nozzles and inspect your rain sensor.
  - o Cycle and soak irrigation (1:11) - How the "cycle and soak" method reduces water runoff and allows soil to absorb more water more efficiently.
  - o Replace riser seal (2:02) - How to repair a leaking rotor and replace riser seals to have a more efficient irrigation system.
  - o Repair Drip Tubing (2:15) - How to repair leaks in drip tubing so drip irrigation can be the most efficient use of supplemental water.
  - o Install Drip Irrigation (1:44) - Learn how to convert your automated irrigation system to a drip irrigation system to save water and money when watering your garden.
  - o Domestic Use Program (2:22) - LCRA water customers, including domestic use customers, are on a maximum once-a-week watering schedule because of the severe drought.
  - o Lagos Vista saves water (2:37) - The City of Lago Vista is laying pipe under the Highland Lakes Golf Course with the help of a cost-share grant from LCRA.
  - o Marble Falls saves water (2:24) – The City of Marble Falls uses recycled wastewater on four of its public parks with help from the Lower Colorado River Authority's cost-share program.
  - o Hidden Falls saves water (2:27) - LCRA's cost-share program helps Hidden Falls Golf Club reduce water use by 5 percent or almost 3.3 million gallons a year.
  - o Cedar Park saves water (1:49) - The City of Cedar Park is now using non-potable water to keep the turf green at the Brushy Creek Sports Complex.

### 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).

### 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.

### 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 the 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.

### City of Laredo Videos (x2) - English & Spanish versions:

- **Inspector McCloud's Stormwater Adventures** (22:30) - Inspector McCloud and his crew save the day by stopping pollution that is threatening the Rio Grande. The video covers general facts about how pollution and runoff affect water quality.

**City of Boulder, Colorado Video:**

- **H2O Jo Takes a Ride Through the Storm Drain** (7:58)- This video is part of Colorado's Keep It Clean campaign and features H2O Jo and Flo and their resounding message "Keep it clean, cause we are all downstream!". It reinforces common messages that inform the public on ways to protect our water resources.

**'Heal the Bay' video:**

- **Majestic Plastic Bag** (3:59)- This is a mockumentary that is narrated by Academy Award winner Jeremy Irons and tracks the "migration" of a plastic bag from a grocery store parking lot to the "Great Pacific Garbage Patch" in the Pacific Ocean.

**IDDE, A Grate Concern- English & Spanish Versions (x6):**

- This presentation is focused on fully understanding the problem of illicit discharge and what can be done within the community to reduce it.
  - o Condensed version, works when there is limited time
    - English (2:02)
    - Spanish (2:10)
  - o Good for short speaker presentations for young audiences
    - English (5:38)
    - Spanish (7:02)
  - o Similar message in more depth
    - English (10:36)
    - Spanish (13:20)

**Total Number of Long Videos- 47**

**Public Broadcast Announcements:**

- **City of Austin**
  - o **Grow Green Program**
    - Watershed Protection (00:00:15)
    - Jamboree TV (00:00:15)
    - Dan D. Lion TV (00:00:15)
    - Professor Dung Beetle TV (00:00:15)
  - o **Scoop the Poop** (00:00:30)
- **TCEQ**
  - o **Take care of Texas** (00:00:30)
- **IDDE, A Grate Concern (x4)**
  - o English and Spanish versions (~00:00:30)
  - o English and Spanish versions (~00:01:00)

**Total Number of Public Announcements- 10**

**TOTAL NUMBER OF VIDEOS- 57**

**Annual Report 7 - Attachment  
Storm Water Management Program (SWMP)  
Travis County, Transportation & Natural Resources Department**

**A. General information**

1. Permit No. TXR040327
2. Annual Reporting Period: August 13, 2013 through September 30, 2014

Note: This Annual Report 7 covers the final five months of the interim period between the First Permit Term and the Second Permit Term – August 13, 2013 through December 12, 2013 – and the transition period of nine months at the beginning of the Second Permit Term – December 13, 2013 through September 30, 2014 - as we transitioned to fiscal year reporting.

3. MS4 Operator Level: Level 2
4. Name of MS4 Permittee: Travis County
5. SWMP Contact/Phone: Dave Fowler, 512-854-7590
6. Mailing Address: Travis County TNR, P.O. Box 1748, Austin, Tx., 78767
7. Email Address: dave.fowler@traviscountytexas.gov

**B. Narrative Provisions**

2. Compliance with Permit Conditions:

- a. Travis County is currently in compliance with the SWMP as submitted June 11, 2014, and approved by TCEQ under the 2013 general permit effective March 20, 2015. The interim information in Annual Report 7 included herein is also in compliance with the First Permit Term SWMP approved under the expired 2007 general permit.
- b. Travis County is currently in compliance with record keeping and reporting requirements for the SWMP. Each County program performing SWMP BMPs maintains and submits records and the SWMP core staff maintains the comprehensive SWMP information compiled for the annual report.
- 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:

As per the rationale described in detail in the approved SWMP, the County believe all the BMPs selected and being performed are appropriate for achieving the statutory goal of reducing the discharge of pollutants to the Maximum Extent Practicable (MEP) over the Permit Term. These BMPs selected are consistent with, and appropriate for, the local and regional area and are the most effective and feasible BMPs for the Travis County MS4.

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 Annual Report 7 period by completing all the measurable goals for the BMPs as scheduled. The County evaluates progress towards this goal primarily by the successful performance of the BMPs and measurable goals required in the approved SWMP.

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

a. The County made acceptable progress implementing the SWMP during this period covered in Annual Report 7 with the successful completion of all required BMPs and measureable goals.

1. The BMPs and their measurable goals performed in the period covered in Annual Report 7 are listed on Tables 1-7 on Pages 28-35 and contain the Minimum Control Measures, Best Management Practices, Major Tasks, Measurable Goals, and Due Dates from the SWMP. The BMP Measurable Goal results and status for the Report period are in bold and shaded in these Tables. Miscellaneous BMPs and tasks performed during the Report period which were not listed as scheduled tasks in the SWMP are listed at the bottom of each Table as **Unscheduled Activities**.

b. Obstacles and challenges include:

1. Implementation of inter-local agreements (ILAs) with other governmental entities in the County MS4 can enhance successful implementation of the SWMP but require voluntary mutual agreement with other autonomous government agencies. The County has three existing ILAs and will continue the goal of executing ILAs or similar agreements with select smaller municipal ETJs and Special Districts (MUDs and other Small MS4s) where it will enhance implementation of the SWMP and is mutually agreeable and feasible.

2. Reliance on non-SWMP program County staff to perform certain designated SWMP tasks has been necessary to date because of limited County staff resources. Non-SWMP program staff can be less accountable for SWMP work tasks that are not their core program outcomes. It is time consuming and challenging for the core SWMP staff to perform the ongoing staff training and oversight, development of standards, procedures, and documentation systems necessary for this effort.

### **C. Storm Water Monitoring Data**

The Travis County MS4 began a surface water quality monitoring (SWQM) program at the end of the period covered in Annual Report 7, in September, 2014. The information from this program will be included in the Annual Report Year 1 – Second Permit Term

#### **D. Impaired Waterbodies**

No receiving water body in the Travis County MS4 was newly listed as impaired on the EPA approved 303(d) List, and no EPA-approved TMDLs have been established during the period covered in Annual Report 7.

Five existing impaired waterbodies and their watershed areas were located within the Travis County MS4 in the period covered in Annual Report 7. These areas include portions of one watershed area with an approved TMDL: Gilleland Creek; and four watershed areas without an approved TMDL: Walnut Creek, Bull Creek, Lake Austin, and Slaughter Creek watersheds.

Travis County implemented targeted controls/BMPs for these areas in the approved SWMP for the Second Permit Term. The information and results from these targeted controls/BMPs will be included in the Annual Report Year 1 – Second Permit Term.

#### **E. Stormwater activities next reporting year**

In the upcoming County Fiscal Year 2015 (FY15 ) beginning October 1, 2014, and ending September 30, 2015, the County will perform the BMP activities scheduled for Permit Year 1 in the SWMP approved by TCEQ for the Second Permit Term.

#### **F. SWMP Modifications and Additional Information**

1. In the period covered in Annual Report 7:
  - a. No substantial changes to BMPs, measurable goals, dates, contacts, procedures or details were made and no BMP additions or substitutions were proposed or made until the proposed new SWMP, first submitted on June 11, 2014, was approved by TCEQ for the Second Permit Term, effective March 20, 2015.
  - b. The County MS4 did not annexed any lands. 4,029 acres were removed from the County MS4 through annexation into various municipal city limits.
2. There are no proposed changes to the existing BMPs in the upcoming Year 1 of the Second Permit Term.

#### **G. Additional BMPs**

No additional BMPs are planned to be implemented or deemed to be necessary at this time for compliance with TMDLs and implementation plans in addition to the BMPs already scheduled in the SWMP approved by TCEQ.

#### **H. Additional Information**

1. The Travis County MS4 is currently relying on the following other governmental entities to satisfy some permit obligations through interlocal agreement. There is not a common SWMP or system-wide annual report:
  - a. The City of Austin performs construction and post-construction review and inspection requirements (MCMs 3 and 4) 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 Austin ETJ.

- b. The Lower Colorado River Authority (LCRA) performs joint construction and post-construction plan review requirements (MCM 3 and 4) 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 Protection Program performs construction and post-construction review and inspection requirements (MCM 3 and 4) on construction projects in the Barton Springs Segment of the 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.

**I. Construction Activities**

1. The number and types of construction projects in the County MS4 where Travis County was not the construction site operator during the period covered by Annual Report 7 is in the Table I. below listing the development permits issued for construction activities within the MS4. Please see related report information in Tables 4 and 5, Pages 32 and 33.

<b>Table I. Travis County Development Permits issued for MS4 construction activities Annual Report 7 (Includes Austin 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	163	58	100%
Residential, in a subdivision (part of common plan of development)	2,145	0	100%
Non-Residential, Site Development	191	191	100%
Non-Residential, Subdivision	27	27	100%
<b>Totals</b>	<b>2,526</b>	<b>276</b>	<b>100%</b>

2. Travis County does utilize the seventh MCM for County construction activities. Please see MCM Table 7 on Page 35 for a comprehensive summary of County construction activities.

- a. Total County construction activities authorized under this general permit: 8
- b. Total acres disturbed for these County construction projects: 159.25

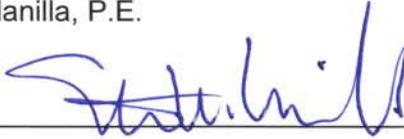
**J. Certification:**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly 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: \_\_\_\_\_

 12/17/15

**Table 1**  
**MCM 1 - Public Education and Outreach BMPs Annual Report 7 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 - 25,000</b> <b>Total adapted plant guides distributed - 7,000</b> <b>Total program contacts - 200</b> <b>Total contact hours - 400</b>	Years 1-5	Texas A&M 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- 1 Inquiries response - 456</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	<b>Brochures distributed annually - 785</b>	Year 5	
Water Conservation & Quality Programs Outreach	Continue educational and outreach presentations to adult audiences on water-related topics/issues. (Note: Changed this BMP name and major task in Yr 5 - NOC #4)	Total number of education sessions and service hours performed annually. <b>Total educational program sessions - 99</b> <b>Total program contacts - 3,674</b> <b>Total contact hours - 6,348</b>	Years 1-5	Texas A&M 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 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>0 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 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: 306</b> <b>ESC Brochures: 65</b> <b>Brochures distributed from kiosk: 45</b> <b>Permit counter inquiries responded to: 521</b>	Years 3-5	
Travis County TV (TCTV)	Review and select materials and develop a broadcast plan/schedule.	Complete Activity <b>Completed Year 2</b>	Years 1-2	ITS Media Services Program (Al Jackson) TNR (Amanda Celso)
	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>34 programs; 15,681bcasts; 828 hrs</b> <b>See pages 37-41 for more details</b>	Years 3-5	
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)  TNR (Amanda Celso)
	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	
	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 in and/or hits using log or hit counter.  <b>Web site views - 5,960</b>	Years 3-5	
<b>Unscheduled Activities for MCM 1 performed during the Report Year:</b>				
<ul style="list-style-type: none"> <li>• 1 Educational Session with 340 youth and 80 adults program contacts, and 1,260 contact hrs for the Texas A&amp;M AgriLife Water Conservation and Protection Education Program for urban youth</li> <li>• SWMP staff participated in the Austin Water Science Expo educational event for 2000+ regional middle school students 5/06-07/14</li> <li>• NREQ /SWMP organized Earth Day event for County employees; SWMP - inlet marker project with Eagle scouts in Pflugerville</li> </ul>				

**Table 2**  
**MCM 2 – Public Involvement and Participation BMPs Annual Report 7 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 – 5 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 – 1 Meeting</b> <b>Onion Ck FDEP – 5 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 – 1 meeting</b>	Years 1-5	TNR (S Scheffel, Tom Weber)
	Complete the T. 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- 208.8    Costs - \$5,160,048</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- 0    Costs- 0 (some in progress not complete)</b>	Years 1-5	TNR (Donna Williams-Jones)
	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> <b>**NOTE: all floodplain acreage and costs reported above will be future County parkland</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- \$46, 810.39</b> <b>Participants- 2,635</b>	Years 1-5	TNR (Shaun Auckland)
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 9/23/13 – 1.015 participants – 2.29 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 Parks – 75 crew days</b>	Years 1-5	TNR (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 – Commissioners Court Agenda items, newspaper or internet notices posted. <b>Agenda Items – 5 : TMDL I-Plan (1); Amendments to Ch.30 (3), Ch.82 variance (1)</b>	Years 1-5	TNR (Tom Weber, 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.	Years 1-5	TNR (Tom Weber, 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 – 104</b>	Years 1-5	TNR (COA Watershed Protection)

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

- \$30,000 contributed to the City of Austin Keep Austin Beautiful organization for environmental education /clean-up
- Additional Commissioners Court SWMP-related Agenda Items (9); TMDL related meetings (5); City of Austin Ordinance meetings (3); LID/other educational presentations (7); LCRA WQ Advisory Committee meeting (1); SH 45 Technical Group Meetings (4)

**Table 3A**  
**MCM 3 – Illicit Discharge Detection and Elimination (IDDE) BMPs - Existing BMPs**  
**Annual Report 7 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- 788/785</b> <b>OSSF Permit total inspections – 2,973</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- 4,308, including 117 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-146</b> <b>Resolved without NOV – 41</b> <b>NOVs issued - 105</b> <b>Referred to legal enforcement (County Atny)- 13</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- 9</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- 2,273.46</b> <b>Work Orders- 1,023</b> <b>CY Waste- 2,053 (426,089 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- 1 (complaint response)</b> <b>Compliant/Referred-1</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 (Shaun Auckland)
	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- 16;</b> <b>all successfully responded/remediated</b>	Years 1-5	Emergency Services (Preston Doege)  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-299/271</b> <b>Referred-28</b>	Years 1-5	ATCHHSD  (Gwen Meighan)

**Table 3B**  
**MCM 3 – Illicit Discharge Detection and Elimination (IDDE) BMPs - New BMPs**  
**Annual Report 7 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 Env. Investigator, C. Attorney, TCSO, ATCHHSD, and TNR OSSF -Year 2</b>	Year 1-2	TNR 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 – 286 Sites cleaned- 193</b>	Years 2-5	TCSO Env. Crimes Unit
		<b>Illegal Dumping Enforcement Total Sites Investigated/cleaned up– 300/100</b>	Years 2-5	County Attorney Env. Crimes Unit (Dennis Rudder, Doug MacDougall)
<b>Non-criminal IDDE response Complaints received/investigate 6/6 Resolved- 4 Legal Enforce- 0</b>		Years 2-5	TNR (Jonas Rosenthal)	
	<b>Miscellaneous Illicit Discharges investigated/ total inspections – 0</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>Outreach material completed Year 5 Additional outreach materials added to website Industrial site evaluation inspections – 2</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 – 1/0</b>	Years 2-5	TNR (Dave Fowler, Jonas Rosenthal, David Peyton, 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>Ind. Site Complaints received/invest. – 0/0 Referred-0 Resolved- 0 Legal Enforce- 0</b>	Years 2-5	TNR (Jonas Rosenthal)
	<b>Miscellaneous Indus. sites/total inspections - 0</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 Celso, David Kemp, 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 -236 Outfalls added (included in above total) – 8 Total MS4 drainage structures – 15,394*, % MS4 structures estimated mapped- 100%</b>	Years 1-5	

\*15, 394: Bridges- 207, C. Pipes- 727, Culverts- 3,306, Inlets- 6,917, Outfalls- 1,222, Outlets- 328, Channels- 618, Manholes- 1,376, Ponds -342, Vaults – 16, Bioretention – 35, Surface Veg Controls- 277; Misc BMPs – 22, Buffer Zones - 1

**Table 4**

**MCM 4 – Construction Site Storm Water Runoff Control BMPs Annual Report 7 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>				
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-403 Resolved/referred- 264/13</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 regs for subdivision/non-subdivision construction.	Complete activity <b>Activity completed.</b>	Year 4	TNR Dev. Services
	Revise 1990 Interlocal Agreement with LCRA for Non-ETJ areas subject to the Highland Lakes Watershed Ordinance, incl. SWP3 requirements for subdivision and non-subdivision construction.	Complete activity. <b>Activity completed Year 5</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	Dave Fowler, Tom Weber
	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>ILA Completed – 0</b>	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 – 218 (100%)</b> • <b>Residential- 2,308 (100%)</b>	Year 3	Dev. Services review
		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 -100%</b>	Years 2-5	
	Develop and implement a plan review system for SWP3 requirements for all projects. Review 95% of all projects 5 ac or greater Yr 3; 95% of all 3 ac or greater Yr 4; 95% of all non-single family residential projects (SFR) and SFR over 1 ac Yr 5.	Record number of projects reviewed, permitted annually. <b>179 permit applications reviewed by SWMP staff (45 Austin ETJ) for SWP3/ESC compliance and permitted, including all non-residential (non-SFR) projects 1 acre or greater</b>	Years 3-5	NREQ SWMP Dave Fowler, David Peyton
	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- 79/25 (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
	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 –193 projects/ 869 inspections/ 87% compliance/ 0 legal enforced (All non-res projects 1 acres/greater inspected)</b> <b>Austin ETJ – 40 projects/ 58 inspections/ 69% compliance/ 0 legal enforced</b>	Years 3-5	SWMP: Kemp, Peyton, Randle Dev Sev Inspection

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

- TNR Development Services Inspectors performed 616 ESC inspections on 226 Right-of-way permits <1 acre inside/outside Austin ETJ

**Table 5**

**MCM 5 – Post-Construction Storm Water Management BMPs Annual Report 7 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>Activity Completed Year 5</b>	Year 4	TNR Dev. Services
	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	NREQ SWMP
	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	Tom Weber
	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>ILA Completed – 0</b>	Years 3-5	Dave Fowler
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 Dev. Services
		Require Checklist -100% of permit applications. <b>Total Applications/Total reviewed w/Checklist</b> • <b>Non-Residential – 218 (100%)</b> • <b>Residential-2,308 (100%)</b>	Year 3	
		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:100%</b>	Years 2-5	NREQ SWMP
	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>179 permit applications reviewed by SWMP staff (including 45 in Austin ETJ) for post-construction compliance and permitted, including 100% of non-res (non-SFR) projects 1 acre and greater.</b>	Years 3-5	Dave Fowler, David Peyton
	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- 79/25 (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>Activity completed Year 5</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>140/ 20 / 0 (non-Austin ETJ) All non-res (non-SFR) projects 1 acre 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)- 138/ 0/ 0</b>	Years 2-5	

**Table 6**  
**MCM 6 – Pollution Prevention and Good Housekeeping for County Operations BMPs**  
**Annual Report 7 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>2,791,859 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/Re Cert/CEUs- 22</b>	Years 1-5	TNR  (Shaun Auckland)
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, 97% compliance</b> <b>6011 Blue Bluff Rd (East Service Center)</b> <b>1 inspection, 93% 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)
	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: Sept 10, 17, 24, 25</b> <b>Parks/Road &amp; Fleet Employees = 181</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, Celso Fowler) (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>57/50</b> <b>566 total inspections</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 Fleet, (Shaun Auckland)  (Rony Aouad 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- 4,522 gal</b> <b>Tires - 273 Antifreeze - 0</b> <b>Oil filters-10 drums Batteries - 387</b> <b>Solid waste disposal estimate, at Sev Centers: ESC- 900 CY WSC- 312CY</b>	Years 2-5	
Erosion and Sediment Control (ESC) Program for Maintenance Construction	Adopt criteria for use of temp & perm. 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>Applicable work orders used permanent and temporary BMPs under adopted standards</b>	Years 3-5	

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

- SWMP staff assisted 38 Road Maintenance Work Orders with temp and perm ESC BMPs.
- SWMP staff assisted with 7 Parks/BCP erosion control/restoration projects.
- NREQ and SWMP staff performed 11 additional EHS inspections of 11 additional County MS4 Facilities.

**Table 7**  
**MCM 7 – Authorization for County Construction Activities BMPs**  
**Annual Report 7 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 – 19</b>  <b>CSNs issued under MS4 Permit TXR040327 to County projects starting construction within Permit Year - 8</b>	Years 1-5	TNR  (SWMP: Fowler, Peyton)
	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 (&gt;1ac) under construction- 8</b> <b>SWP3 Inspection Reports made- 272</b> <b>SWP3 Inspection Report compliance- 93%</b>  <b>SWMP staff- SWP3 audit inspections- 15</b> <b>SWP3 additional inspections - 37</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-19</b>	Years 1-5	TNR (Fowler, Peyton; 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 – 0</b>  <b>(1 project total 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 Celso, David Kemp, David Peyton, Arester Randle)

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

- **TCTV Water Quality Programming Summary Descriptions, Annual Report 7  
(Pages 37-38)**
- **TCTV Water Quality Programming Broadcasts, Monthly Breakdown, Annual Report 7  
( Pages 39-41)**

## TCTV Water Quality Programming Summary Descriptions, Annual Report 7:

### 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).

### 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.

### 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.

- **Dealing with the Drought** (Special Feature) (11:49) – How Corpus Christi is working to secure water for the future.
  - **Prescription to Burn** (Special Feature) (9:20) – Examining fire as an important tool to manage and restore natural landscapes.
  - **Diggin' School** (Special Feature) (9:00) – School children learn to construct a 'Wildscape' using native plants that require little watering.
  - **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.
    - **In Land We Trust** (Special Feature) (10:25) – The growing land trust movement offers new hope for threatened farm and ranch lands.
    - **Policing Pollution** (Special Feature) (9:39) – Game wardens work to keep our water and air clean.
    - **Last of the Bayous** (Special Feature) (9:45) – Chronicles the natural beauty of the Clear Creek area and its ecological significance.
    - **Restoring Galveston Bay** (Special Feature) (8:25) – Challenges of reversing damage inflicted on Galveston Bay and its marshes.

**City of Laredo Videos (x2) - English & Spanish versions:**

- **Inspector McCloud's Stormwater Adventures** (22:30) - Inspector McCloud and his crew save the day by stopping pollution that is threatening the Rio Grande. The video covers general facts about how pollution and runoff affect water quality.

**City of Boulder, Colorado Video:**

- **H2O Jo Takes a Ride Through the Storm Drain** (7:58)- This video is part of Colorado's Keep It Clean campaign and features H2O Jo and Flo and their resounding message "Keep it clean, cause we are all downstream!". It reinforces common messages that inform the public on ways to protect our water resources.

**Total Number of Long Videos- 28**

**City of Austin Public Broadcast Announcements:**

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

**Total Number of Public Announcements- 6**

**TOTAL NUMBER OF VIDEOS- 34**

## Monthly Breakdown of TCTV Broadcasts, Annual Report 7:

### August 2013 (13<sup>th</sup>-31<sup>st</sup>):

Total number of individual long topics broadcast- 126  
Total number of individual short public broadcast announcements- 935  
Total number of all programs broadcast- 1061  
Total hours broadcast for week2- 0:58:49  
Total hours broadcast for week3- 13:39:20  
Total hours broadcast for week4- 12:48:36  
Total hours broadcast for week5- 9:57:50  
Total hours broadcast- 37:24:35

### September 2013:

Total number of individual long topics broadcast- 135  
Total number of individual short public broadcast announcements- 608  
Total number of all programs broadcast- 743  
Total hours broadcast for week1- 5:54:40  
Total hours broadcast for week2- 13:44:08  
Total hours broadcast for week3- 13:46:56  
Total hours broadcast for week4- 11:48:48  
Total hours broadcast for week5- 12:49:34  
Total hours broadcast- 58:04:06

### October 2013:

Total number of individual long topics broadcast- 209  
Total number of individual short public broadcast announcements- 1337  
Total number of all programs broadcast- 1546  
Total hours broadcast for week1- 15:19:58  
Total hours broadcast for week2- 14:51:45  
Total hours broadcast for week3- 15:36:40  
Total hours broadcast for week4- 18:46:10  
Total hours broadcast for week5- 3:47:48  
Total hours broadcast- 68:22:21

### November 2013:

Total number of individual long topics broadcast- 155  
Total number of individual short public broadcast announcements- 734  
Total number of all programs broadcast- 889  
Total hours broadcast for week1- 4:25:46  
Total hours broadcast for week2- 13:51:35  
Total hours broadcast for week3- 13:32:00  
Total hours broadcast for week4- 13:49:21  
Total hours broadcast for week5- 9:49:50  
Total hours broadcast- 55:28:32

### December 2013:

Total number of individual long topics broadcast- 100  
Total number of individual short public broadcast announcements- 709  
Total number of all programs broadcast- 809  
Total hours broadcast for week1- 5:53:13  
Total hours broadcast for week2- 14:45:15  
Total hours broadcast for week3- 12:00:38  
Total hours broadcast for week4- 12:41:55  
Total hours broadcast for week5- 11:28:16  
Total hours broadcast- 56:49:17

**January 2014:**

Total number of individual long topics broadcast- 223  
Total number of individual short public broadcast announcements- 1186  
Total number of all programs broadcast- 1409  
Total hours broadcast for week1- 8:32:45  
Total hours broadcast for week2- 15:02:42  
Total hours broadcast for week3- 14:53:30  
Total hours broadcast for week4- 13:32:00  
Total hours broadcast for week5- 7:52:32  
Total hours broadcast- 59:53:29

**February 2014:**

Total number of individual long topics broadcast- 104  
Total number of individual short public broadcast announcements- 680  
Total number of all programs broadcast- 784  
Total hours broadcast for week1- 4:53:40  
Total hours broadcast for week2- 16:40:32  
Total hours broadcast for week3- 14:45:15  
Total hours broadcast for week4- 14:44:28  
Total hours broadcast for week5- 9:54:30  
Total hours broadcast- 60:58:25

**March 2014:**

Total number of individual long topics broadcast- 186  
Total number of individual short public broadcast announcements- 1002  
Total number of all programs broadcast- 1188  
Total hours broadcast for week1- 6:59:53  
Total hours broadcast for week2- 15:28:04  
Total hours broadcast for week3- 12:27:16  
Total hours broadcast for week4- 11:53:29  
Total hours broadcast for week5- 10:52:40  
Total hours broadcast- 57:41:22

**April 2014:**

Total number of individual long topics broadcast- 233  
Total number of individual short public broadcast announcements- 1148  
Total number of all programs broadcast- 1381  
Total hours broadcast for week1- 1:53:14  
Total hours broadcast for week2- 13:52:38  
Total hours broadcast for week3- 10:17:09  
Total hours broadcast for week4- 13:33:20  
Total hours broadcast for week5- 14:43:52  
Total hours broadcast for week6- 1:59:18  
Total hours broadcast- 56:19:31

**May 2014:**

Total number of individual long topics broadcast- 205  
Total number of individual short public broadcast announcements- 1340  
Total number of all programs broadcast- 1545  
Total hours broadcast for week1- 7:22:28  
Total hours broadcast for week2- 13:55:40  
Total hours broadcast for week3- 16:45:10  
Total hours broadcast for week4- 19:04:14  
Total hours broadcast for week5- 7:15:38

Total hours broadcast- 64:23:10

**June 2014:**

Total number of individual long topics broadcast- 163  
Total number of individual short public broadcast announcements- 782  
Total number of all programs broadcast- 945  
Total hours broadcast for week1- 7:08:10  
Total hours broadcast for week2- 29:14:15  
Total hours broadcast for week3- 15:36:00  
Total hours broadcast for week4- 2:37:58  
Total hours broadcast for week5- 10:49:49  
Total hours broadcast- 65:26:12

**July 2014:**

Total number of individual long topics broadcast- 162  
Total number of individual short public broadcast announcements- 963  
Total number of all programs broadcast- 1125  
Total hours broadcast for week1- 0:58:59  
Total hours broadcast for week2- 14:46:55  
Total hours broadcast for week3- 15:42:53  
Total hours broadcast for week4- 14:51:15  
Total hours broadcast for week5- 14:46:03  
Total hours broadcast for week6- 5:51:42  
Total hours broadcast- 66:57:47

**August 2014:**

Total number of individual long topics broadcast- 227  
Total number of individual short public broadcast announcements- 1300  
Total number of all programs broadcast- 1527  
Total hours broadcast for week1- 11:04:06  
Total hours broadcast for week2- 9:41:09  
Total hours broadcast for week3- 10:55:50  
Total hours broadcast for week4- 18:02:49  
Total hours broadcast for week5- 10:44:14  
Total hours broadcast- 60:28:08

**September 2014:**

Total number of individual long topics broadcast- 117  
Total number of individual short public broadcast announcements- 612  
Total number of all programs broadcast- 729  
Total hours broadcast for week1- 3:40:42  
Total hours broadcast for week2- 11:36:52  
Total hours broadcast for week3- 16:18:57  
Total hours broadcast for week4- 15:44:44  
Total hours broadcast for week5- 12:47:38  
Total hours broadcast- 60:08:53

**ANNUAL TOTALS:**

Total number of individual long topics broadcast- 2,345  
Total number of individual short public broadcast announcements- 13,336

**Total number of video broadcasts (long + short topics) – 15,681**  
**Total hours broadcast for Year 7- 828:25:48**