City of Norman
MS4 Phase II Annual Report
Year 4; Reporting Period 11/29/08 to 11/28/09

Phase II Small Municipal Separate Storm Sewer System (MS4) General Permit (OKR04)
Authorization No. OKR040015
January 8th, 2010

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Section 1. Compliance Status

1.1 BMPs

The City of Norman considers the original BMPs as submitted to ODEQ in the permitting process to be appropriate and effective during this reporting period. Evaluation of the BMPs will be on going, and if any are found to be no longer effective or appropriate, the BMP will be amended, deleted and/or replaced. An assessment of the current BMPs is presented in the tables in Section 1.2.

1.2 MCM Measurable Goals

Progress in achieving the measurable goals for each BMP of the six Minimum Control Measures is presented in the following tables. Supporting documentation for each MCM is attached.

Public Education MCM

BMP	Goal	Frequency/ Implemented	Comments
Distribute informational brochure with utility bills	one brochure to 50% of all households	Annual	Yard Care brochure sent in utility bill to 35,000 households, April 2009
Add storm water pollution prevention information to city web site	Information posted	Annual Review	Information added/updated GreenNorman.org website launched
Volunteer storm drain marking program	20 storm drains marked	Annual	20 drains marked at City facilities
Establish complaint "hotline"	Receive and respond to 50% of legitimate complaints	Annual	Received and responded to 28 complaints
Public event for environmental education (Earth Day)	Coordinate with Pre-Treatment Section for one event annually	Annual	Event held April 19, 2009
Educational materials for schools	Supply material to 2 elementary schools	Annual – 2 schools per year	75 pencil case kits with PP message to Madison Elem. 100 to Community Christian School, 60 to Southwinds Montessori – 235 total
Newspaper Ads	2 ads in local paper with water quality, pollution prevention or watershed protection information	Annual	Three print ads in Norman Transcript
Yard Care/Landscaping Fact Sheet	Distribute to 50% of target businesses	Year 4	Twelve (12) brochures sent to local landscape/lawn care businesses, February, 2009
Auto Service/Salvage Fact Sheet	Distribute to 50% of target businesses	Year 5	Scheduled for July 2010

Section 1. Compliance Status

Public Involvement MCM

BMP	Goal	Frequency/ Implemented	Comments
Establish web site link for receipt of email regarding storm water issues	Respond to 25% of all legitimate emails	Annual/December, 2005	Received and responded to five (5) citizen inquiries in permit year.
Volunteer storm drain marking program	20 storm drains marked	Annual	2o drains marked at City facilities
Establish complaint "hotline"	Receive and respond to 50% of legitimate complaints	Annual	Received and responded to 28 complaints
Public meeting for storm water issues	Hold one public meeting	July, 2007	Three public meetings held in 2009 for Storm Water Master Plan
Public event for environmental education (Earth Day)	Coordinate with Environmental Services Section for one event annually	Annual	Event held April 19, 2009
Blue Thumb Partnership	Establish working relationship with Blue Thumb for public events	On-going	Blue Thumb training held March 13, 2009

Illicit Discharge Detection and Elimination MCM

BMP	Goal	Frequency/ Implemented	Comments
Ordinance Draft	Draft and adopt ordinance regulating discharges to MS4	Ordinance drafted December, 2005 Adopted July, 2006.	Section 6000 Storm Water Pollution in Engineering Design Criteria
Ordinance Draft	Draft and adopt ordinance regulating erosion control	Ordinance drafted December, 2005 Adopted July, 2006	Section 5000 Storm Water in Engineering Design Criteria
Establish complaint "hotline"	Receive and respond to 50% of legitimate complaints	Annual	Received and responded to 28 complaints
MS4 screening/sampling	Monitor water quality	July, 2007	Quarterly sampling performed
MS4 mapping	Complete map of MS4	July, 2007 25% of MS4 mapped each year.	MS4 map completed by GIS Division
MS4 Survey/Inspection	50% of illicit connections removed	July, 2008	No confirmed illicit connections identified
Dry Weather Field Screening	25% of outfalls screened/inspected each year	Annual	Approximately 200 outfalls to primary channel identified by GIS mapping Survey of primary channel completed in 2008

Section 1. Compliance Status

Construction Site Runoff MCM

BMP	Goal	Frequency/ Implemented	Comments
Ordinance Draft	Draft and adopt ordinance regulating discharges from construction sites	Ordinance drafted December, 2005 Adopted July, 2006	Section 5000 Storm Water in Engineering Design Criteria
Ordinance Draft	Draft and adopt ordinance regulating erosion control	Ordinance drafted December, 2005 Adopted July, 2006	Section 5000 Storm Water in Engineering Design Criteria
Permitting/Site Plan Review	Permit 75% of all earth disturbing operations over 1 acre in size	Annual	16 of 16 known sites permitted
Construction site inspection	Inspect 75% of sites within 30 days of permit issuance	Annual	439 Total Inspections/ 48 sites
Workshop for construction/development	Hold one workshop for developers, construction crews, utility contractors and engineering companies	July, 2008	Workshop held April 2008
Workshop for home builders	Hold one workshop for home builders	July, 2009	COSWA Workshop – October, 2009, NBA presentation – November, 2009

Post-construction Site Runoff from New/Redevelopment

BMP	Goal	Frequency/ Implemented	Comments
Ordinance Draft	Draft and adopt ordinance regulating post-construction runoff	Ordinance drafted July 2006; Adopted November, 2006	Currently reviewing/drafting ordinance as part of Storm Water Master Plan implementation
BMP study	Develop a list of structural and non-structural BMPs suitable for post-construction runoff control	December 2006	List to be revised and updated as part of Storm Water Master Plan implementation
Storm water impoundment inspection	Inspect 50% of storm water impoundments	July, 2007	All impoundments inventoried
Post-construction storm water runoff workshop for construction/development	Hold one workshop for developers, construction crews, utility contractors and engineering companies	July, 2008	Workshop held April 2008
Post-construction storm water runoff workshop for home builders	Hold one workshop for home builders	July, 2009	Held November 2009 for Norman Builders Assoc.

Section 1. Compliance Status

Municipal Good Housekeeping MCM

BMP	Goal	Frequency/ Implemented	Comments
City operations inventory/inspection	Inventory city operations for possible impacts on storm water pollution. Inspect 50% of sites identified as potential storm water pollution sources each year	July, 2006 Annual	Four of eight target facilities inspected (Fleet Maintenance, Street Maintenance Solid Waste Transfer Station, Compost Facility)
Develop employee training program	Provide one training session for 50% of targeted employees	Annual	23 employees trained in three sessions
Emergency response spill kits	Provide spill containment kits to 25% of emergency response vehicles	July, 2007	20 spill kits provided to Fleet and Streets (40 total) in 2009
Develop BMPs for city maintenance operations	Develop list of BMPs for road, channel and utility maintenance and operations	July, 2008 develop July, 2009 implement	List being revised and updated as part of Master Storm Water Study
Develop BMPs for city maintenance operations	Develop list of BMPs for mowing, landscaping and parks maintenance operations	July, 2008 develop July, 2009 implement	List being revised and updated as part of Master Storm Water Study

1.3 Pollutant Reduction

The City of Norman believes that BMPs currently implemented and those to be implemented in future permit years will result in a reduction in the discharge of pollutants to the storm sewer system. MS4 screening and sampling was implemented in 2007 and continues with quarterly sampling events. Information from this sampling will over time develop a picture of the water quality in receiving waters of the MS4 and any trends in that water quality.

Street Sweeping

Street sweeping operations by the City recovered 5.544 tons of material during the permit year.

Hazardous Waste Collection Event

- 625 gallons of used oil collected
- 100 gallons used antifreeze collected
- 38187 pounds of paint collected

Spills

Approximately 20 gallons of hydraulic fluid and 20 gallons of diesel fuel were recovered during response operations to 4 spills in the permit year.

Section 2. Information/Activities

2.1 Past Reporting Cycle

Construction Sites Permitted in Last Reporting Cycle

The City of Norman permitted eighteen (18) construction sites of one acre or larger in the last reporting period. All known construction sites of one acre or larger were permitted and inspected within thirty days as required by the Construction Site Runoff Control MCM.

EARTH CHANGE PERMITS ISSUED (2008 - 2009)			
PERMIT	DATE	NAME	APPLICANT
589-08	12/31/08	TRUMAN ELEMENTARY SCHOOL	GAC
45-09	2/23/09	CEDAR LANE SEC. 1	CEDAR LANE, LLC
46-09	2/23/09	LITTLE AXE HEALTH CENTER	NABHOLZ CONSTRUCTION
51-09	2/25/09	RAZOOK 36TH AVE NW	JOEL RAZOOK
82-09	3/30/09	TRAILWOODS SEC 4	IDEAL HOMES
94-09	4/3/09	LINKS AT NORMAN	LINKS AT NORMAN, LP
194-09	6/2/09	GARDEN COTTAGES AT WEST BROOKS	ED SCRIBNER
275-09	7/20/09	WHITTIER CLASSROOM ADDITION	M.A. WELLS CONST. CO
318-09	8/10/09	HALLBROOKE SEC 3 & 4	VICKERS CONTRUCTION
326-09	8/14/09	NRH SEC 3, 4, & 5	SILVERSTAR CONSTRUCTION
330-09	8/18/09	GREENLEAF SEC #20	SILVERSTAR CONSTRUCTION
331-09	8/18/09	STOOPS PROPERTY	SILVERSTAR CONSTRUCTION
332-09	8/18/09	VISTA SPRINGS SEC 2	SILVERSTAR CONSTRUCTION
334-09	8/19/09	HEALTH ENGINEERING SYSTEMS	SDF CONSTRUCTION LLC
415-09	10/1/09	CLEVELAND COUNTY JUSTICE CENTER	TIMBERLAKE CONSTRUCTION
456-09	11/16/09	JACK IN THE BOX #6141	JACK IN THE BOX

Inspections of Permitted Sites Larger than One Acre

STORM WATER INSPECTION REPORT - CITY OF NORMAN (2008-2009)														
PERMIT	ISSUED	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	
310-05	4/28/2005	12/19/2008	1/22/2009	2/18/2009	3/27/2009				7/7/2009	8/11/2009	9/7/2009	10/22/2009	11/17/2009	9
623-05	9/1/2005	12/19/2008	1/22/2009	2/18/2009	3/27/2009				7/15/2009	8/14/2009	9/14/2009	Closed		7
761-05	10/26/2005	12/19/2008	1/22/2009	2/18/2009	3/27/2009				7/8/2009	8/31/2009	9/7/2009	10/7/2009	11/17/2009	9
93-06	1/27/2005	12/18/2008	1/21/2009	2/18/2009	3/26/2009				Closed					4
422-06	5/19/2006	12/18/2008	1/21/2009	2/18/2009	3/26/2009				Closed					4
501-06	6/23/2006	12/18/2008	1/21/2009	2/18/2009	3/26/2009				Closed					4
565-06	7/17/2006	12/17/2008	1/20/2009	2/17/2009	3/26/2009				Closed					4
631-06	8/10/2006	12/17/2008	1/20/2009	2/17/2009	3/26/2009				7/8/2009	8/17/2009	9/15/2009	Closed		7
663-06	8/24/2006	12/17/2008	1/20/2009	2/17/2009	3/26/2009				Closed					4
746-06	10/10/2006	12/16/2008	1/15/2009	2/17/2009	3/25/2009				7/14/2009	8/17/2009	9/17/2009	Closed		7
05-07	1/4/2007	12/16/2008	1/15/2009	2/17/2009	3/25/2009				Closed					4
38-07	1/31/2007	12/16/2008	1/15/2009	2/17/2009	3/25/2009				Closed					4
76-07	3/1/2007	12/15/2008	1/14/2009	2/16/2009	3/25/2009				7/14/2009	8/11/2009	9/11/2009	Closed		7
77-07	3/1/2007	12/15/2008	1/14/2009	2/16/2009	3/25/2009				7/14/2009	8/14/2009	9/7/2009	Closed		7
87-07	3/7/2007	12/15/2008	1/14/2009	2/16/2009	3/25/2009				Closed					4
92-07	3/8/2007	12/12/2008	1/13/2009	2/16/2009	3/24/2009				Closed					4
100-07	3/13/2007	12/12/2008	1/13/2009	2/16/2009	3/24/2009				Closed					4
140-07	4/3/2007	12/12/2008	1/13/2009	2/16/2009	3/24/2009				Closed					4
263-07	5/30/2007	12/12/2008	1/13/2009	2/12/2009	3/24/2009				7/14/2009	8/14/2009	9/14/2009	Closed		7
424-07	8/15/2007	12/11/2008	1/13/2009	2/12/2009	3/24/2009				Closed					4
426-07	8/15/2007	12/11/2008	1/13/2009	2/12/2009	3/24/2009				7/13/2009	8/11/2009	9/11/2009	Closed		7
522-07	10/10/2007	12/11/2008	1/13/2009	2/12/2009	3/20/2009				Closed					4
523-07	10/10/2007	12/11/2008	1/13/2009	2/12/2009	3/20/2009				7/7/2009	8/11/2009	9/11/1990	Closed		7
534-07	10/15/2007	12/10/2008	1/12/2009	2/12/2009	3/20/2009				Closed					4
624-07	12/6/2007	12/10/2008	1/12/2009	2/11/2009	3/20/2009				Closed					4
4-08	1/2/2008	12/10/2008	1/12/2009	2/11/2009	3/20/2009				Closed					4
130-08	3/13/2008	12/10/2008	1/12/2009	2/11/2009	3/20/2009				Closed					4
133-08	3/14/2008	12/9/2008	1/9/2009	2/11/2009	3/19/2009				Closed					4
141-08	3/19/2008	12/9/2008	1/9/2009	2/11/2009	3/19/2009				Closed					4
275-08	6/10/2008	12/9/2008	1/9/2009	2/11/2009	3/19/2009				7/7/2009	8/26/2009	9/7/2009	10/6/2009	Closed	8
301-08	6/24/2008	12/9/2008	1/9/2009	2/10/2009	3/19/2009				Closed					4
317-08	7/3/2008	12/8/2008	1/8/2009	2/10/2009	3/19/2009				7/2/2009	8/11/2009	9/15/2009	10/15/2009	11/10/2009	9
322-08	7/7/2008	12/8/2008	1/8/2009	2/10/2009	3/19/2009				Closed					4
383-08	8/1/2008	12/8/2008	1/8/2009	2/10/2009	3/18/2009				7/13/2009	8/14/2009	9/7/2009	10/6/2009	11/10/2009	9
387-08	8/4/2008	12/4/2008	1/7/2009	2/10/2009	3/18/2009				Closed					4
398-08	8/14/2008	12/4/2008	1/7/2009	2/10/2009	3/18/2009				7/13/2009	8/25/2009	9/28/2009	10/28/2009	11/17/2009	9
401-08	8/15/2008	12/4/2008	1/7/2009	2/9/2009	3/18/2009				Closed					4
493-08	10/14/2008	12/4/2008	1/7/2009	2/9/2009	3/18/2009				7/7/2009	8/11/2009	Closed			6
495-08	10/14/2008	12/3/2008	1/6/2009	2/9/2009	3/18/2009				Closed					4
505-08	10/21/2008	12/3/2008	1/6/2009	2/9/2009	3/17/2009				7/1/2009	8/19/2009	9/30/2009	10/16/2009	11/17/2009	9
522-08	10/31/2008	12/3/2008	1/6/2009	2/9/2009	3/17/2009				7/13/2009	8/11/2009	9/7/2009	10/19/2009	11/17/2009	9
589-08	12/31/2008		1/6/2009	2/9/2009	3/17/2009				7/13/2009	8/14/2009	9/7/2009	10/9/2009	11/10/2009	8
45-09	2/23/2009				3/17/2009				7/6/2009	8/11/2009	9/15/2009	10/15/2009	11/10/2009	6
46-09	2/23/2009				3/17/2009				7/6/2009	8/31/2009	9/30/2009	10/30/2009	11/30/2009	6
51-09	2/25/2009				3/17/2009				7/6/2009	8/11/2009	9/7/2009	10/6/2009	11/10/2009	6
77-09	3/25/2009								7/6/2009	Closed				1
82-09	3/30/2009								7/1/2009	8/19/2009	9/7/2009	Closed		3
94-09	4/3/2009								7/2/2009	8/11/2009	9/28/2009	10/15/2009	11/10/2009	5
194-09	6/2/2009								7/2/2009	8/11/2009	9/11/2009	10/12/2009	11/17/2009	5
275-09	7/20/2009									8/11/2009	9/11/2009	10/12/2009	11/17/2009	4
318-09	8/10/2009										9/7/2009	10/7/2009	11/10/2009	3
326-09	8/14/2009										9/15/2009	10/16/2009	11/10/2009	3
330-09	8/18/2009										9/15/2009	10/9/2009	11/17/2009	3
331-09	8/18/2009										9/15/2009	10/15/2009	11/10/2009	3
332-09	8/18/2009										9/7/2009	10/7/2009	11/10/2009	3
334-09	8/19/2009											10/7/2009	11/10/2009	2
415-09	10/1/2009											10/28/2009	11/10/2009	2
456-09	11/16/2009												11/17/2009	1
		41	42	42	45	0	0	0	25	25	29	22	22	338

Section 2. Information/Activities

Enforcement

The City of Norman issued 5 NOVs and 1 Citation for non-compliance in the permit year.

Notice of Violation(s) Issued	Citations Issued
5	**1**

Complaints

The City of Norman received twenty-eight (28) citizen complaints in the reporting period, either directly from the citizen complainant, through the City Action Center Hot Line or by referral from other City staff and Council members. All complaints received an initial investigation to determine the legitimacy of the complaint and whether the complaint is in the jurisdiction of the storm water program. Complaints not regulated by the storm water program are referred to the appropriate department and/or State agency.

Received	Response	Resolved
28	**28**	**28**

Spills

The City of Norman responded to 4 spill incidents in the permit year.

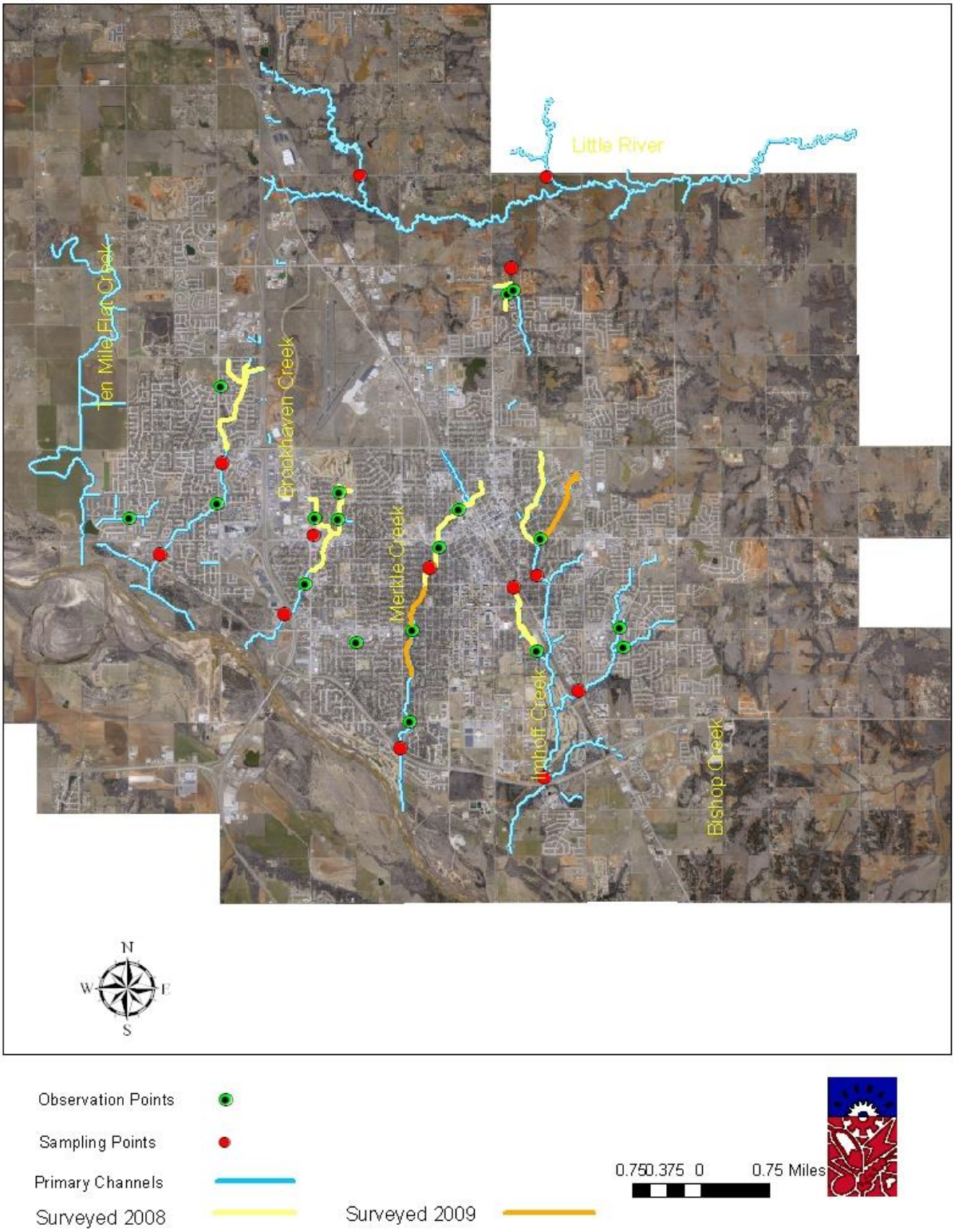
Date	Location/Event
12/09/08	Fleet Maintenance Facility/Fuel Storage Tank Spill
05/14/09	Moore-Norman Tech. Ctr./Sanitation Truck Hydraulic Leak
8/31/09	Macy & Oklahoma/Single Vehicle Accident
9/16/09	I35 & Franklin Rd./Truck Accident – Fuel Leak

MS4 Screening/Sampling

A walking survey of the primary channels was completed in 2007 to identify potential illicit discharges. We are currently re-surveying our primary drainage channels to identify outfalls greater than 12 inches diameter as well as illicit discharges and record coordinates for the identified points in a GIS database. Sampling and routine visual screening points will also be identified.

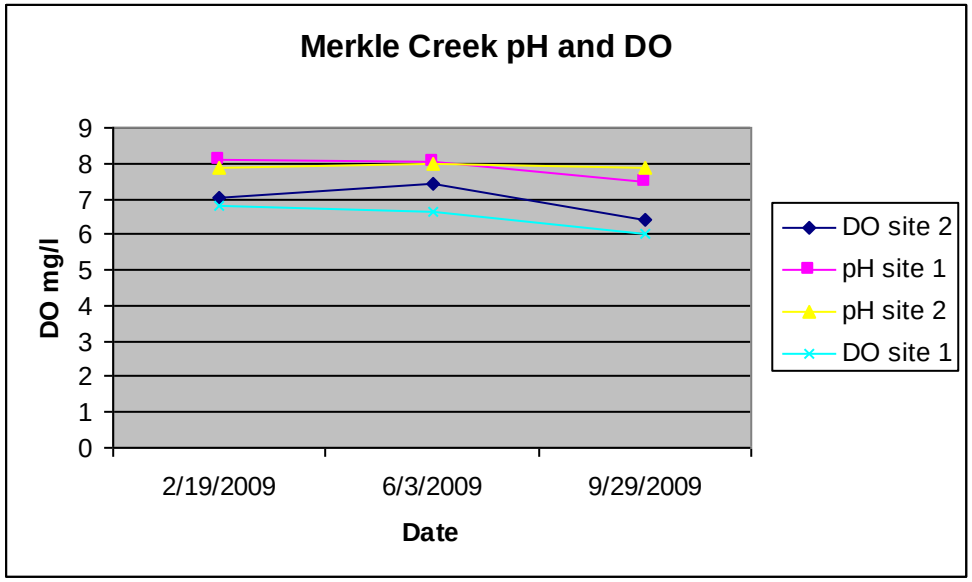
Sampling of the MS4 was performed at ten (10) sites on four urban creeks in 2008; Brookhaven Creek, Merkle Creek, Imhoff Creek, Bishop Creek and Woodcrest Creek. Additional points were added in 2008 for visual/dry weather screening. These sites are presented in the map on the following page. Sampling data summaries and site locations for each creek are on pages 12-17.

City of Norman MS4 Sampling and Visual Screening Points



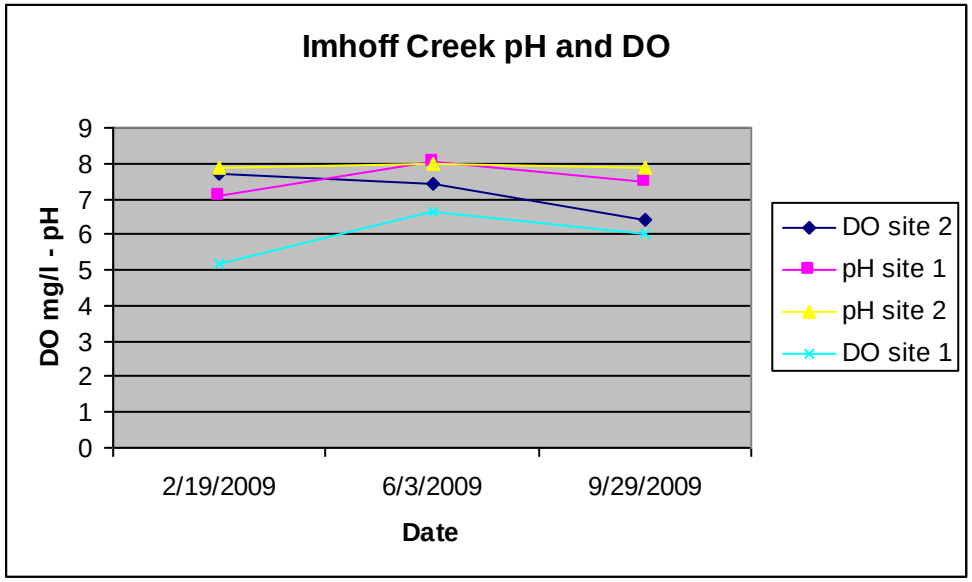
MERKLE CREEK SAMPLING - DATA SUMMARY

	Date	pH	Temp (°C)	DO (mg/l)	TSS (mg/l)	COD (mg/l)	P-P0$_4$ (mg/l)	NO$_3$ (mg/l)	NH$_3$ (mg/l)	NH$_3$-N (mg/l)
Merkle 1	2/19/2009	8.11	9.9	6.83	4	<20	<0.01	1.25	0.0378	0.0312
	6/3/2009	8.06	21.7	6.65	12.5	42	0.0395	1.66	0.213	0.176
	9/29/2009	7.49	18.7	6.04	7.78	57	0.0215	0.394	0.125	0.103
Merkle 2	2/19/2009	7.87	8.7	7.01	5.5	<20	<0.01	0.22	<0.0242	<0.0200
	6/3/2009	7.96	21.2	7.43	16	40	0.107	1.48	0.152	0.126
	9/29/2009	7.89	19	6.44	18.3	44	<0.0100	0.34	0.0762	0.063



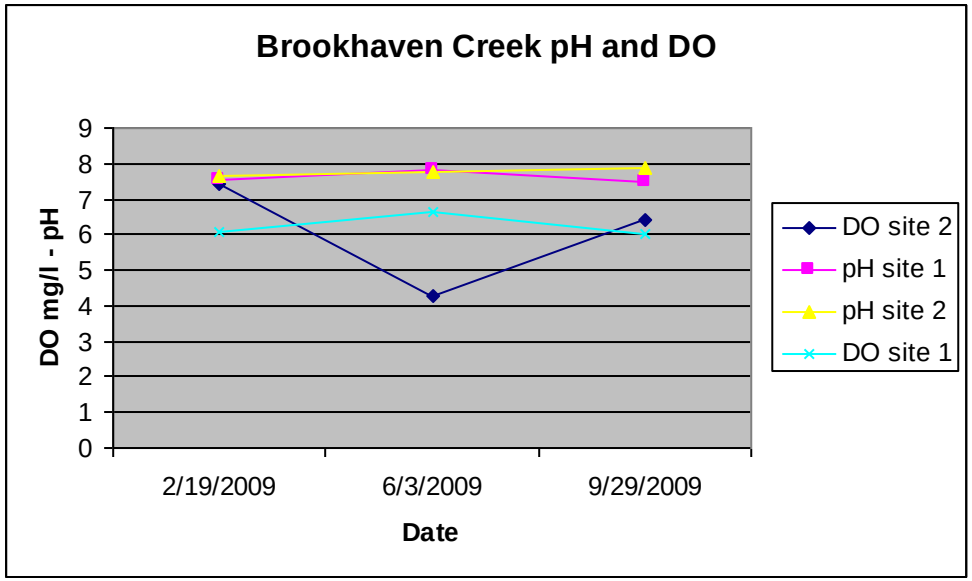
IMHOFF CREEK SAMPLING - DATA SUMMARY

	Date	pH	Temp (°C)	DO (mg/l)	TSS (mg/l)	COD (mg/l)	P-P0$_4$ (mg/l)	NO$_3$ (mg/l)	NH$_3$ (mg/l)	NH$_3$-N (mg/l)
Imhoff 1	2/19/2009	7.11	9	5.2	3	<20	<0.0100	8.23	<0.0242	<0.0200
	6/3/2009	8.06	21.7	6.65	13	31	0.0525	1.72	0.203	0.168
	9/29/2009	7.49	18.7	6.04	15	22	0.03	7.45	0.375	0.31
Imhof 2	2/19/2009	7.9	9.2	7.73	2.5	<20	<0.0100	3.44	0.0414	0.0342
	6/3/2009	7.96	21.2	7.43	15.3	34	0.103	1.47	0.152	0.126
	9/29/2009	7.89	19	6.44	-	-	-	-	-	



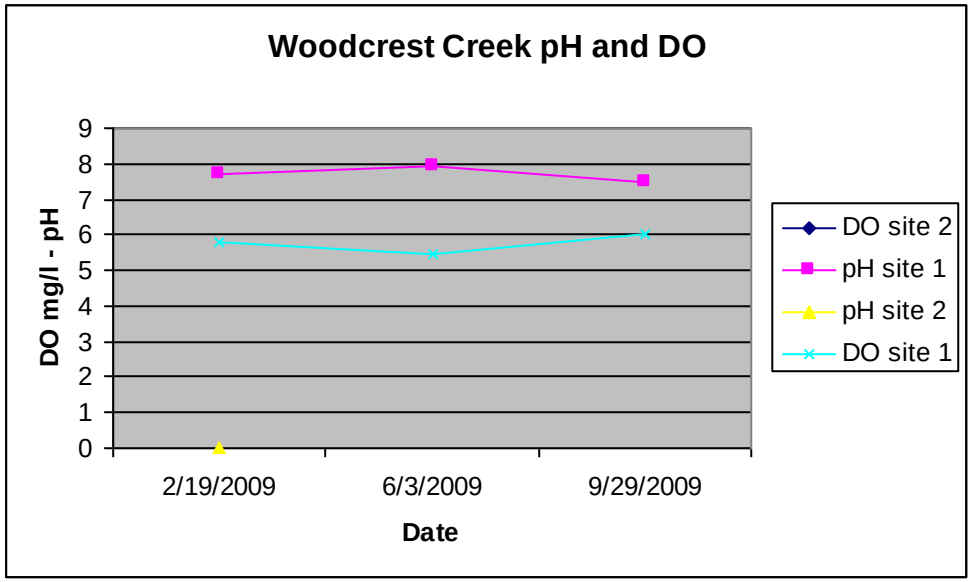
BROOKHAVEN CREEK SAMPLING - DATA SUMMARY

	Date	pH	Temp (°C)	DO (mg/l)	TSS (mg/l)	COD (mg/l)	P-P0$_4$ (mg/l)	NO$_3$ (mg/l)	NH$_3$ (mg/l)	NH$_3$-N (mg/l)
Brookhaven1	2/19/2009	7.55	8.6	6.05	3.5	<20	<0.0100	3.64	<0.0242	<0.0200
	6/3/2009	7.8	21.3	6.63	26	45	0.05	1.82	0.218	0.18
	9/29/2009	7.49	18.7	6.04	8.67	26	0.0385	5.35	0.488	0.403
Brookhaven 2	2/19/2009	7.64	8.8	7.44	19.4	<20	<0.0100	1.2	0.0523	0.0432
	6/3/2009	7.79	21.2	4.28	40	51	0.0661	1.32	0.224	0.185
	9/29/2009	7.89	19	6.44	11.7	<20	0.0278	5.37	0.288	0.238



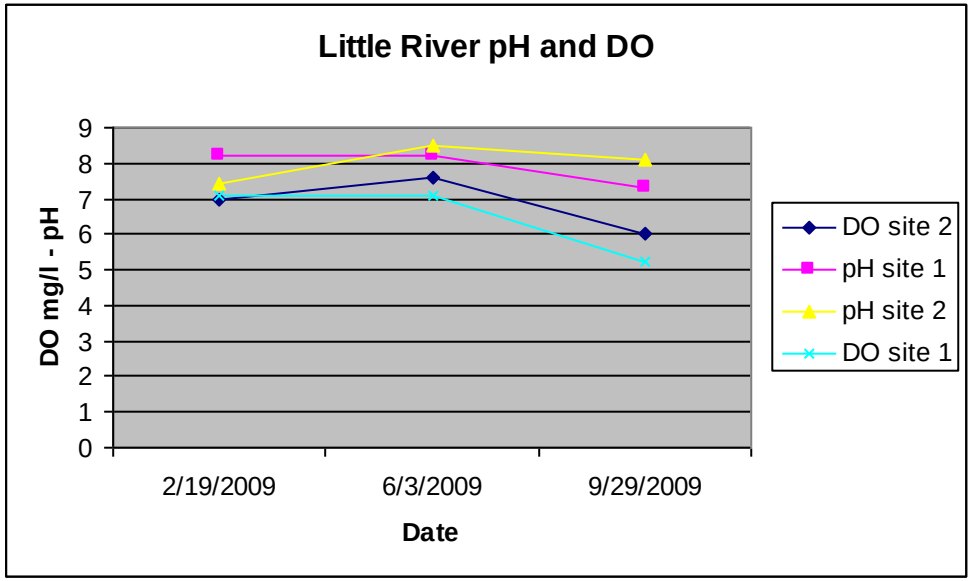
WOODCREST CREEK SAMPLING - DATA SUMMARY

	Date	pH	Temp (°C)	DO (mg/l)	TSS (mg/l)	COD (mg/l)	P-P0$_4$ (mg/l)	NO$_3$ (mg/l)	NH$_3$ (mg/l)	NH$_3$-N (mg/l)
Woodcrest 1	2/19/2009	7.69	9.1	5.81	52	<20	<0.0100	<0.500	<0.0242	<0.200
	6/3/2009	7.92	21.2	5.48	55.7	54	0.0543	1.84	0.174	0.144
	9/29/2009	7.49	18.7	6.04	124	52	0.0388	<0.0500	0.117	0.0963
	2/19/2009	**Only 1 sample site on Woodcrest Creek**								
	6/3/2009									
	9/29/2009									



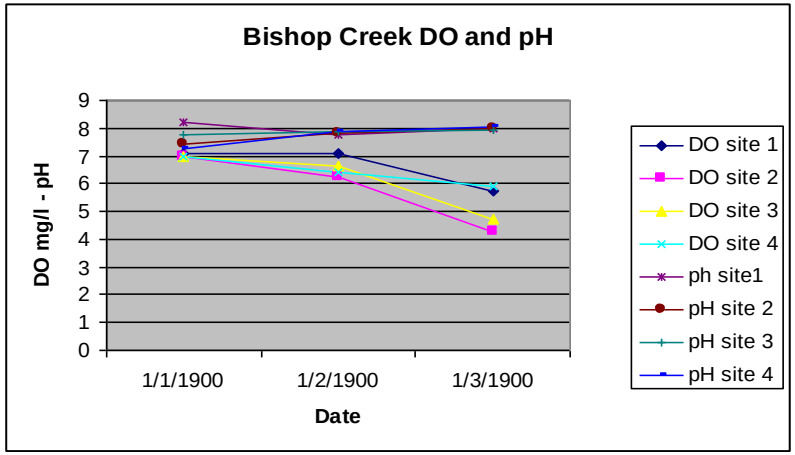
LITTLE RIVER SAMPLING - DATA SUMMARY

	Date	pH	Temp (ºC)	DO (mg/l)	TSS (mg/l)	COD (mg/l)	P-P0$_4$ (mg/l)	NO$_3$ (mg/l)	NH$_3$ (mg/l)	NH$_3$-N (mg/l)
LR 1	2/19/2009	8.2	8.7	7.1	15.5	<20	<0.01	0.448	<0.0242	<0.0200
	6/3/2009	8.23	20.5	7.1	1510	110	0.0937	2.36	0.283	0.234
	9/29/2009	7.34	18.7	5.21	7.78	57	0.0215	0.394	0.125	0.103
LR 2	2/19/2009	7.44	8.4	6.95	3	<20	<0.0100	0.163	<0.0242	<0.0200
	6/3/2009	8.5	20.7	7.57	-	-	-	-	-	
	9/29/2009	8.1	18.8	6.04	48	69	0.0366	<0.0500	0.155	0.128



BISHOP CREEK SAMPLING - DATA SUMMARY

	Date	pH	Temp (°C)	DO (mg/l)	TSS (mg/l)	COD (mg/l)	P-P0$_4$ (mg/l)	NO$_3$ (mg/l)	NH$_3$ (mg/l)	NH$_3$-N (mg/l)
Bishop 1	2/19/2009	8.2	8.7	7.1	15.5	<20	<0.01	0.448	<0.0242	<0.0200
	6/3/2009	7.74	21.3	7.06	1510	110	0.0937	2.36	0.283	0.234
	9/29/2009	7.97	15.7	5.72	7.78	57	0.0215	0.394	0.125	0.103
Bishop 2	2/19/2009	7.44	8.4	6.95	3	<20	<0.0100	0.163	<0.0242	<0.0200
	6/3/2009	7.8	21	6.26	-	-	-	-	-	
	9/29/2009	8.01	16	4.25	48	69	0.0366	<0.0500	0.155	0.128
Bishop 3	2/19/2009	7.77	8.5	7						
	6/3/2009	7.85	20.8	6.65						
	9/29/2009	7.93	16.8	4.72						
Bishop 4	2/19/2009	7.25	8.3	6.98						
	6/3/2009	7.89	20.8	6.4						
	9/29/2009	8.04	16.8	5.89						



2.2 Next Reporting Cycle

The following tables presents a summary of activities for the next reporting period.

New Activities

BMP	Activity	Implementation Date
Auto Service/Salvage Brochure	Distribute to 50% of target businesses	2010
Builders Workshop	Hold one workshop for home builders	2010
Post-Construction Workshop	Post-construction storm water runoff workshop for construction/development	2010
Implement BMPs for city maintenance operations	Develop list of BMPs for road, channel and utility maintenance and operations	2010
Implement BMPs for city maintenance operations	Develop list of BMPs for mowing, landscaping and parks maintenance operations	2010

Recurring Activities

BMP	Activity	Frequency
Distribute informational brochure with utility bills	one brochure to 50% of all households	Annual
Add storm water pollution prevention information to city web site	Information posted	Annual Review
Volunteer storm drain marking program	20 storm drains marked	Annual
Establish complaint "hotline"	Receive and respond to 50% of legitimate complaints	Annual
Public event for environmental education (Blue Ribbon Week)	Coordinate with Pre-Treatment Section for one event annually	Annual
Educational materials for schools	Supply material to 2 elementary schools	Annual – 2 schools per year
Newspaper Ads	2 ads in local paper with water quality, pollution prevention or watershed protection information	Annual
MS4 sampling/survey	Monitor water quality/Remove illicit connections	Annual
Permitting/Site plan review	Permit 75% of sites	Annual
Construction site inspection	Inspect 75% of sites	Annual
Storm water impoundment inspection	Inspect 50% of impoundments	Annual
City facility storm water inspections	Inspect 50% of identified facilities	Annual
Develop employee training program	One session for targeted employees	Annual

2.3 Proposed Changes

The City of Norman has contracted with PBS&J Engineering to develop a watershed specific Storm Water Master Plan. The final draft report is due in December 2008. Portions of the Plan were adopted by Council in November 2009 and a Storm Water Master Plan Implementation Team was organized in December 2009. In addition to traditional drainage issues, the Plan will address water quality issues in local watersheds, greenbelt/trails and riparian corridor planning, Phase II/City of Norman MS4 permitting, development regulations and development of funding mechanisms for a storm water utility fee. Any changes resulting from the Plan will likely be implemented in the second permit iteration starting in 2010.

A correction to the schedule of BMP implementation was made. In some cases, the implementation date did not agree with the permit year listed for the activity. Permit years were determined originally from the date the Notice of Intent (NOI) was submitted however, the permit was not issued until late November 2005 therefore the first year of the permit would be November 30, 2005 through November 29, 2006.

The Blue Ribbon Week BMP for Public Education MCM has been changed to add participation in other public events such as Earth Day and Household Hazardous Waste Collection Day.

Section 3. TMDLs

3.1 TMDL Compliance

A Bacteria TMDL Study for the Canadian River area including Bishop Creek in Norman, Oklahoma was completed in August of 2008. The study found that Bishop Creek was impaired due to levels of fecal coliform bacteria, which exceeded Oklahoma Water Quality Standards.

The City of Norman Storm Water Section will collect samples from Bishop Creek in 2009 to gather additional data on the extent and degree of bacteria levels in the watershed. Sampling will be continued in 2010 prior to issuance of the new permit OKR04. After this data collection and review, existing BMPs will be evaluated to determine if they are effective to reduce the bacteria levels. If needed, BMPs will be changed, added or removed to achieve the percent reduction on bacteria listed in the TMDL study. A plan to reduce the bacteria levels in Bishop Creek will be developed and included in the Storm Water Management Plan in the next permit period.

Section 4. Optional Permit Coverage

All City construction projects active in the reporting period were either under control of a contractor/construction site operator, and/or less than one acre of disturbed area. All construction site operators performing earth disturbing activities within the boundary of the City of Norman are informed that they must comply with all federal, state and local regulations related to erosion control and storm water runoff.

4.1 Active Projects

None in reported period

4.2 Started Projects

None in reported period

4.3 Completed Projects

None in reported period

Section 5. Summary/Permittee Information

5.1 Permittee Information

Permittee	City of Norman, Oklahoma
Address	201 A West Gray
City/State/Zip	Norman, OK 73069
Contact	Storm Water Pollution Control Specialist
Contact Phone	(405) 366-5265
Authorization No.	OKR040015
Authorization Date	November 29th, 2005

5.2 Summary

This annual report is submitted as required by the Oklahoma Department of Environmental Quality Water Quality Division General Permit OKR04, Part V.C, Annual Reports. As part of those requirements, the City of Norman has conducted an assessment of permit compliance, including an assessment of the appropriateness of BMPs, progress toward the statutory goal of reducing the discharge of pollutants, and achieving measurable goals for each minimum control measure.

The City's assessment indicates that it is in compliance with permit requirements. Minimum Control Measure goals are being met, and significant effort continues for MCMs dealing with construction site runoff control, illicit discharge detection and elimination, and public education. Additionally, in 2009, the City of Norman adopted portions of the Storm Water Master Plan (SWMP), which will directly support the Phase II Program. The SWMP will establish the foundation for an integrated approach to city-wide erosion, stream stabilization, bio-engineering, flood control, water quality management, Phase II requirements, financing and low-impact development.

Attachment "A"

Supporting Documentation for MCMs

PUBLIC EDUCATION MCM

Utility bill mailer 4/09

Spring is almost here and once again it is time for lawn care and gardening. Remember that when it rains, fertilizers, pesticides, herbicides and lawn waste can wash onto streets and into storm drain inlets.

These storm drains provide no cleaning or filtering so any pollutants that flow in end up in our local creeks.

5 Springtime Tips to Prevent Storm Water Pollution

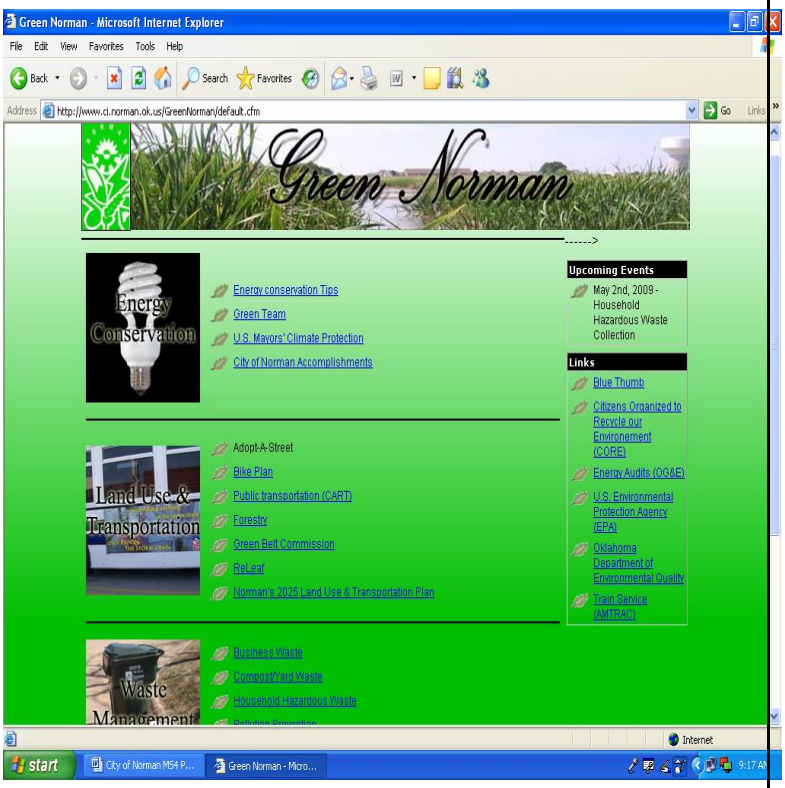
Don't over-water you lawn and garden.

Overwatering can increase plant disease, deplete the soil of nutrients and waster water. Adjust your sprinklers so that irrigation water does not fall on streets, sidewalks or driveways.

Don't apply pesticides, fertilizers and herbicides before it rains. The rain won't help soak the chemicals into the ground, but will cause polluted runoff which will drain into or local creeks and lakes.

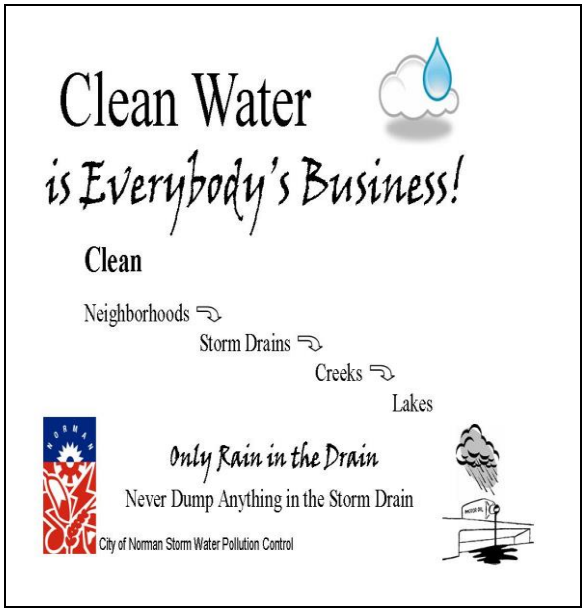
Never dispose of grass clippings and other yard waste by dumping or sweeping it into the street or storm drains. Yard waste adds excessive nutrients to streams and can

GreenNorman – Environmental Information Website



School kits with environmental Info.

Public information ads in Norman Transcript



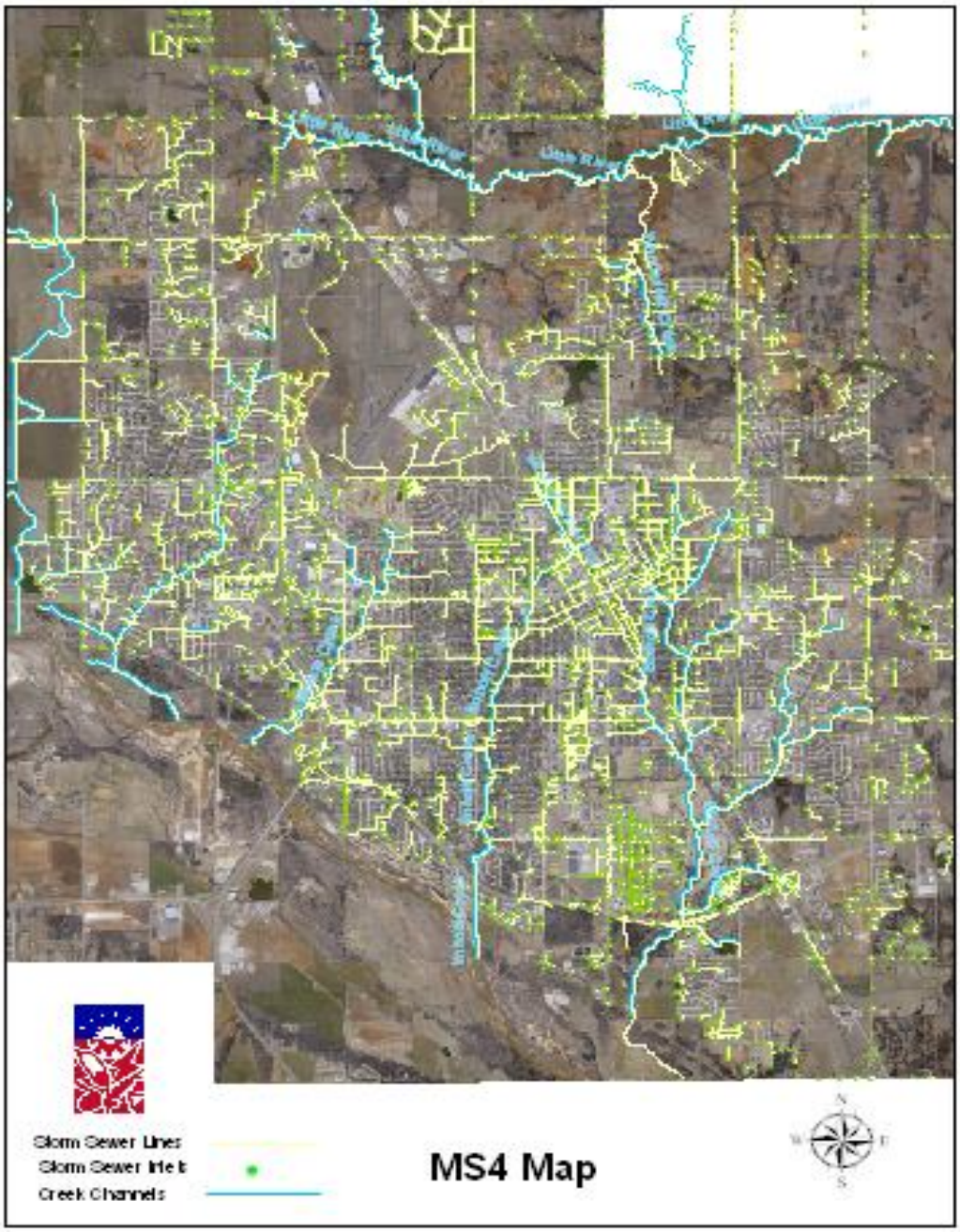
Supporting Documentation for MCMs

PUBLIC INVOLVEMENT MCM

Public Works Day
May 2009

Kid's For Kindness/Earth Day
April 2009

ILLICIT DISCHARGE MCM



CONSTRUCTION SITE RUNOFF MCM

COSWA

Central Oklahoma Storm
Water Alliance
Construction Workshop

Friday, October 23rd

Registration for the morning at 8:30 am

Workshop 9 am– Noon

Or

Registration for the afternoon at 1 pm

Workshop 1:30 pm–4 pm

Will Rogers Exhibition Center
3400 NW 36th (NW 36th & I-44)

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Free workshop. Learn the latest requirements on Storm Water Pollution Prevention Plans for construction activity.

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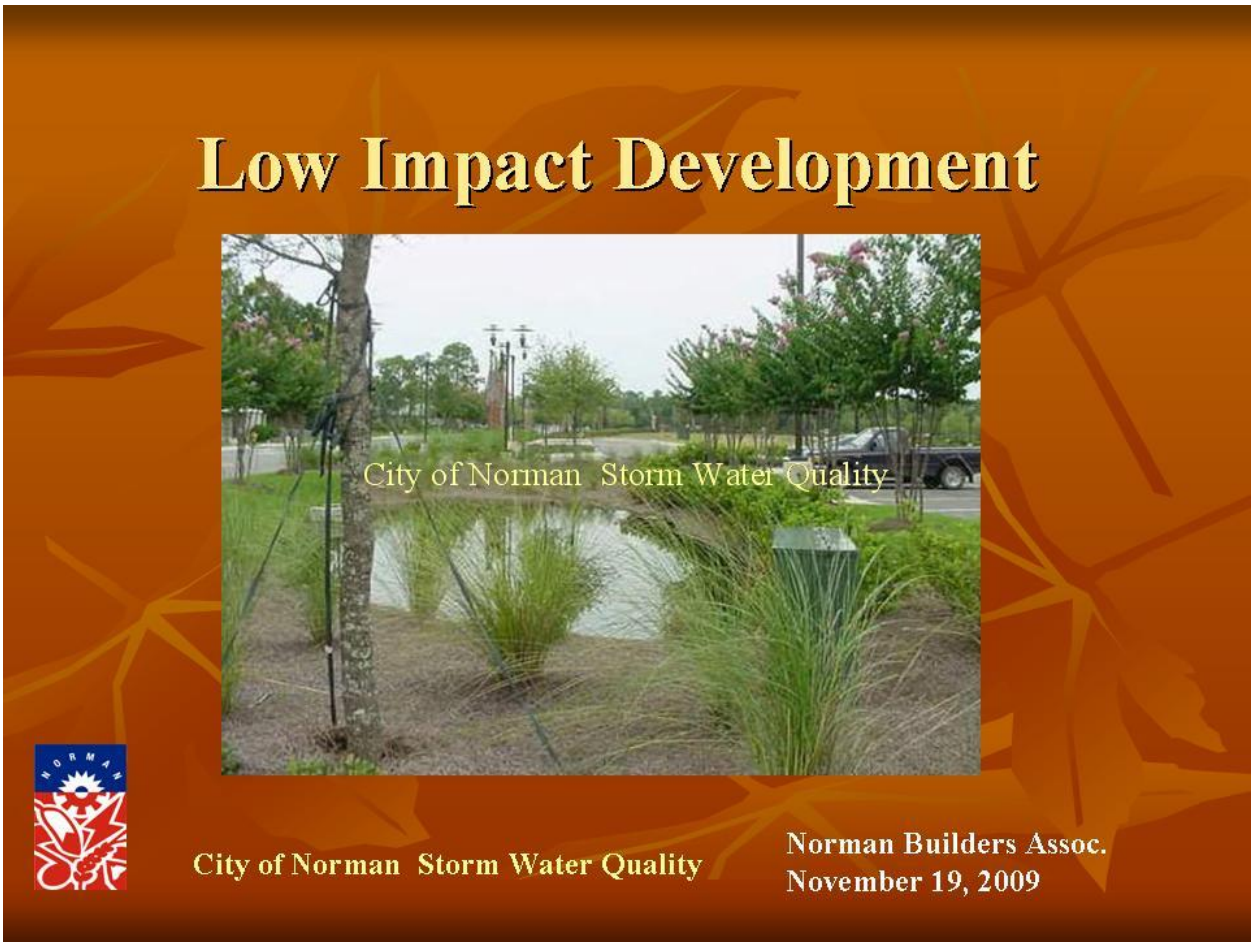
To RSVP call (405) 292-9721 by Tuesday, October 20th to reserve your place!

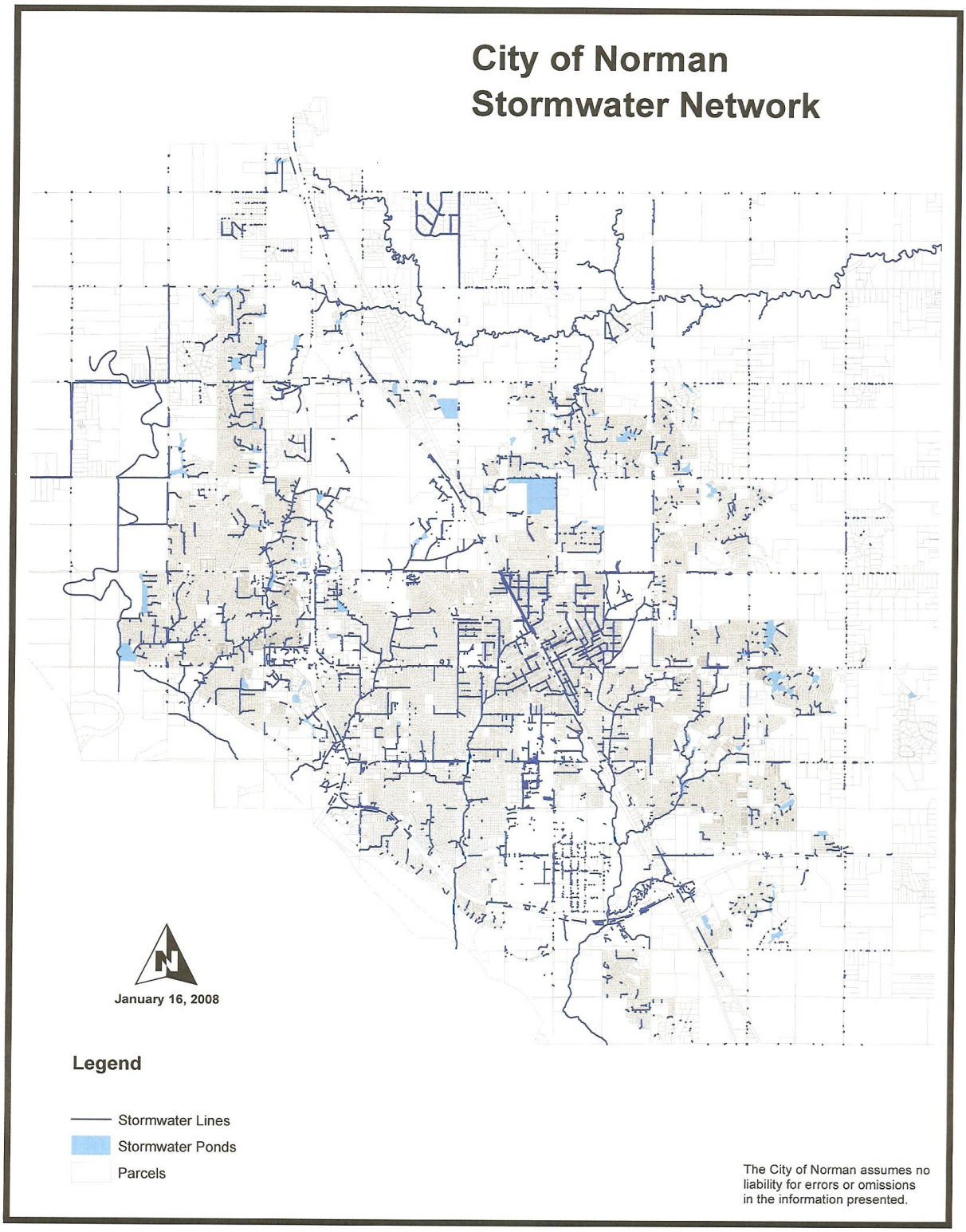
City of Norman
Public Works Department
Storm Water Quality

(405) 292-9721
stormwater@normanok.gov

Supporting Documentation for MCMs

POST-CONSTRUCTION MCM




City of Norman
Stormwater Network
January 16, 2008
Legend
Stormwater Lines
Stormwater Ponds
Parcels
The City of Norman assumes no liability for errors or omissions in the information presented.

Supporting Documentation for MCMs

MUNICIPAL GOOD HOUSEKEEPING MCM

Employee Training

Topic Vehicle Maintenance/Spills **Number of attendees** 15

Departments/Divisions Represented Fleet Maintenance

Topic Compost use as a BMP **Number of attendees** 8

Departments/Divisions Represented Public Works, Utilities,

Topic Municipal Good Housekeeping **Number of attendees** 14

Departments/Divisions Represented Public Works, Utilities, Planning, Parks and Rec. Legal, Police, Finance

Monthly Employee Newsletter

Lawn Care Tips included 3/09

Illicit Discharge information included 11/09