



June 13, 2011
FINAL

April 2011 Update to the Texas Water Quality Management Plan

Prepared by the:
Office of Water, Water Quality Division

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

April 2011 Update to the Texas Water Quality Management Plan

Compiled and distributed by the
Water Quality Assessment Section
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Texas Commission on Environmental Quality
P.O. Box 13087, MC-150
Austin, Texas 78711-3087

June 2011

WQMP updates are also available on the TCEQ web site at:
< www.tceq.texas.gov/nav/eq/eq_wqmp.html >

Developed in accordance with Sections 205(j)
and 208 of the Federal Clean Water Act
and applicable regulations thereto.



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Introduction

The Texas Water Quality Management Plan (WQMP) is the product of a wastewater treatment facility planning process developed and updated in accordance with provisions of Sections 205(j), 208, and 303 of the federal Clean Water Act (CWA), as amended. The WQMP is an important part of the State's program for accomplishing its clean water goals.¹

The Texas Department of Water Resources, a predecessor agency of the Texas Commission on Environmental Quality (TCEQ), prepared the initial WQMP for waste treatment management during the late 1970s. The Clean Water Act mandates that the WQMP be updated as needed to fill information gaps and revise earlier certified and approved plans. Any updates to the plan need involve only the elements of the plan that require modification. The original plan and its subsequent updates are collectively referred to as the State of Texas Water Quality Management Plan.

The WQMP is tied to the State's water quality assessments that identify priority water quality problems. The WQMPs are used to direct planning for implementation measures that control and/or prevent water quality problems. Several elements may be contained in the WQMP, such as effluent limitations of wastewater facilities, total maximum daily loads (TMDLs), nonpoint source management controls, identification of designated management agencies, and ground water and source water protection planning. Some of these elements may be contained in separate documents which are prepared independently of the current WQMP update process, but may be referenced as needed to address planning for water quality control measures.

This document, as with previous updates², will become part of the WQMP after completion of its public participation process, certification by the TCEQ on behalf of the Governor of Texas, and approval by the Environmental Protection Agency (EPA).

The materials presented in this document revise only the information specifically addressed in the following sections. Previously certified and approved water quality management plans remain in effect.

The April 2011 WQMP update addresses the following topics:

1. Projected Effluent Limits Updates for water quality planning purposes

The Projected Effluent Limit Update section provides information compiled from February 1, 2011 through April 30, 2011, and is based on water quality standards, and may be used for water quality planning purposes in Texas Pollutant Discharge Elimination System (TPDES) permit actions.

¹ A formal definition for a water quality management plan is found in 40 Code of Federal Regulations (CFR) 130.2(k).

² Fiscal Years 1980, 1981, 1982, 1983, 1984/85, 1986/88, 1989, 1990, 1991, 1992, 1993/94, 1995, 1996, 1997/98, 02/1999, 05/1999, 07/1999, 10/1999, 01/2000, 04/2000, 07/2000, 10/2000, 01/2001, 04/2001, 07/2001, 10/2001, 01/2002, 04/2002, 07/2002, 10/2002, 01/2003, 04/2003, 07/2003, 10/2003, 01/2004, 04/2004, 07/2004, 10/2004, 01/2005, 04/2005, 07/2005, 10/2005, 01/2006, 04/2006, 07/2006, 10/2006, 01/2007, 04/2007, 07/2007, 10/2007, 01/2008, 04/2008, 07/2008, 10/2008, 01/2009, 04/2009, 07/2009, 10/2009, 01/2010, 04/2010, 07/2010, 10/2010, and 01/2011.

Projected Effluent Limit Updates

Table 1 reflects proposed effluent limits for new dischargers and preliminary revisions to original proposed effluent limits for preexisting dischargers (MGD-Million Gallons per Day, CBOD₅ – 5 Day Carbonaceous Biochemical Oxygen Demand, NH₃-N – Ammonia-Nitrogen, BOD₅ – 5 Day Biochemical Oxygen Demand and DO – Dissolved Oxygen).

Effluent flows indicated in Table 1 reflect future needs and do not reflect current permits for these facilities. These revisions may be useful for water quality management planning purposes. The effluent flows and constituent limits indicated in the table have been preliminarily determined to be appropriate to satisfy the stream standards for dissolved oxygen in their respective receiving waters. These flow volumes and effluent sets may be modified at the time of permit action. These limits are based on water quality standards effective at the time of the TCEQ production of this update. Water Quality Standards are subject to revision on a triennial basis.

Table 1. Projected Effluent Limit Updates

State Permit Number	Segment Number	EPA ID Number	Permittee Name County	Flow (MGD)	CBOD ₅ (mg/L)	CBOD ₅ (lbs/day)	NH ₃ -N (mg/L)	NH ₃ -N (lbs/day)	BOD ₅ (mg/L)	BOD ₅ (lbs/day)	DO (mg/L)	Months/ Comments
10172-002	0823	0027723	City of Frisco Collin	0.30	10	25.02	3	7.51			4	
10489-007	1248	0132233	City of Georgetown Williamson	3.0	5	125.10	1.2	30.02			6	June-Sept
				3.0	5	125.10	2	50.04			6	Oct-May
10729-001	0823	0024198	City of Krum Denton	0.70	10	58.38	3	17.51			4	
11324-002	1244	0132926	City of Hutto Williamson	4.0	10	333.60	2	66.72			6	
12641-001	1007	0091979	Southwest Harris County MUD No. 1 Harris	0.40	10	33.36	3	10.01			4	
13457-001	0826	0104957	Trinity River Authority of Texas Denton <u>Note:</u> Outfall 001 and Outfall 002 combined flow cannot exceed 11.5 MGD	4.7	5	195.99	1.4	54.88			6	Outfall 001 (Final) June-Oct
				4.7	5	195.99	1.6	62.72			6	Outfall 001 (Final) Nov-May
				11.5	5	479.55	2	191.82			6	Outfall 002 June-Oct
				11.5	7	671.37	3	287.73			6	Outfall 002 Nov-May
14211-001	1205	0105163	Acton MUD Hood	0.93	7	54.29	2	15.51			6	
14415-002	2202	0132985	Agua SUD Hidalgo	7.55	10	629.67	2	125.93			6	

State Permit Number	Segment Number	EPA ID Number	Permittee Name County	Flow (MGD)	CBOD ₅ (mg/L)	CBOD ₅ (lbs/day)	NH ₃ -N (mg/L)	NH ₃ -N (lbs/day)	BOD ₅ (mg/L)	BOD ₅ (lbs/day)	DO (mg/L)	Months/ Comments
14991-001	1105	0132861	The Cardon Group, L.L.C. Brazoria	0.96	7	56.04	2	16.01			4	
14996-001	1003	0028169	Universal Forest Products Texas, L.L.C. Walker	0.020	10	1.67	3	0.50			4	
14999-001	1402	0132951	Rio Realm, LLC Matagorda	0.099	10	8.26	3	2.48			4	
15003-001	1008	0115827	Quadvest, L.P. Montgomery	0.80	7	46.70	2	13.34			4	