



March 14, 2006
FINAL

January 2006 Update to the Texas Water Quality Management Plan

January 2006 Update to the Texas Water Quality Management Plan

Compiled by the

Water Quality Assessment Section
Water Quality Division
Texas Commission on Environmental Quality

March 2006

Developed in accordance with Section 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 total maximum daily loads (TMDLs), effluent limitations of wastewater facilities, 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 January 2006 WQMP update address the following topics:

1. Projected Effluent Limits Updates for water quality planning purposes

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

²Fiscal 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 and 10/2005.

The Projected Effluent Limit Updates section provides information compiled from November 1, 2005 through January 31, 2006, 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.

The section on the Service Area Population for municipal wastewater facilities has been developed and evaluated by the TCEQ in cooperation with the Texas Water Development Board (TWDB) and regional water quality management planning agencies.

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.

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– Chemical Biological Oxygen Demand, NH₃– Ammonia-Nitrogen, BOD₅– Biological 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 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
10039-001	0821	0026808	City of Blue Ridge Collin	0.280	10	23.35	3	7.01			4	
10530-001	1001	0025402	Harris County WCID No. 70 Harris	0.225	10	18.77	3	5.63			4	
11410-002	1009	0046841	Charterwood MUD Harris	1.65	7	96.33	2	27.52			6	
11449-001	2422	0066656	Gray Utility Service, LLC Chambers	0.600	7	35.03	3	15.01			4	
12003-001	1245	0077178	Fort Bend County MUD No. 25 Fort Bend	1.60	5	66.72	1	13.34			5	
12039-001	2421	0078441	Galveston County WCID No. 12 Galveston	1.00					10	83.40	4	
12655-001	1016	0092312	Northwest Harris County MUD No. 24 Harris	0.50	10	41.70	3	12.51			4	
12766-001	1016	0093548	QBN Corp. Harris	0.019					10	1.58	4	
12802-001	1014	0093891	Harris County MUD No. 238 Harris	0.825	7	48.16	2	13.76			6	
12939-001	1102	0095842	Harris County WCID No. 89 Harris	0.95	5	39.62	2	15.85			5	

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
13072-001	0501	0097403	North Orange Water & Sewer, LLC Orange	0.094	20	15.68	3	2.35			4	
14171-001	0512	0121061	David Joseph Sorrell Wood	0.0245					10	2.04	4	
14195-001	0814	0123056	City of Italy Ellis	0.650	7	37.95	2	10.84			4	
14327-001	1009	0124770	Harris County MUD No. 391 Harris	0.95	7	55.46	2	15.85			6	
14645-001	1006	0128228	Port of Houston Authority Harris	0.006	10	0.50	3	0.15			4	
14646-001	1014	0128236	West I-10 Katy Holdings I, Ltd. Waller	0.33	5	13.76	2	5.50			6	
14653-001	1006	0128261	Woodmere Development Co. Ltd. Harris	0.40	10	33.36	2	6.67			4	
14654-001	1001	0128279	Woodmere Development Co. Ltd. Harris	0.40	10	33.36	3	10.01			4	
14655-001	1014	0128287	Dril-Quip, Inc. Harris	0.075	10	6.26	2	1.25			6	
14656-001	1008	0128295	Montgomery County MUD No. 94 Montgomery	1.080	10	90.07	3	27.02			4	
14658-001	1903	0128317	Westlakes Utility Corp. Bexar	0.99	10	82.57	3	24.77			4	

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
14661-001	0901	0128325	Chambers County Improvement District No. 1 Chambers	0.98	10	81.73	3	24.52			4	
14663-001	1015	0128368	Quadvest LP Montgomery	0.160	10	13.34	3	4.00			4	
14667-001	1902	0128384	South Central Water Co. Bexar	0.95	10	79.23	2	15.85			6	
14668-001	0512	0128406	Martin Leon Edwards Wood	0.012					10	1.00	4	