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FINAL

April 2005 Update to the Texas Water Quality Management Plan

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Compiled by the

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

June 2005

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



Kathleen Hartnett White, *Chairman*
R. B. “Ralph” Marquez, *Commissioner*
Larry R. Soward, *Commissioner*

Glenn Shankle, *Executive Director*

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(512) 239-4671

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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 April 2005 WQMP update address the following topics:

1. Projected Effluent Limits Updates for water quality planning purposes
2. Service Area Population for Municipal Wastewater Facilities
3. Designation of Management Agencies for Municipal Wastewater Facilities

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 and 01/2005.

The Projected Effluent Limit Updates section provides information compiled from February 1, 2005 through April 30, 2005, 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 sections on the Service Area Population and Designation of Management Agencies for municipal wastewater facilities have 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 preliminary revisions to the original proposed effluent limits for the indicated dischargers. Table 1 also reflects proposed effluent limits for new dischargers. 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
10096-001	2107	0057509	City of Lytle Atascosa	0.45	10	37.53	3	11.26			4	
10264-002	1244	0101940	Brazos River Authority and Lower Colorado River Authority Williamson	21.5	10	1,793.10	2	358.62			5	
10330-001	2491	0075451	City of Santa Rosa Cameron	0.681	10	56.80	3	17.04			6	
10619-005	2202	0116394	City of Weslaco Hidalgo	2.5	10	208.50	3	62.55			6	
11215-001	1009	0046663	Meadowhill Regional MUD Harris	2.4	7	140.11	2	40.03			6	Apr.-Oct.
				2.4	10	200.16	3	60.05			4	Nov.-Mar.
11392-001	0804	0074683	City of Jewett Leon	0.150	10	12.51	3	3.75			4	
11449-001	2422	0066656	Walter Madison Gray Chambers	0.300	7	17.51	3	7.51			4	
12675-001	2302	0127337	City of La Joya Hidalgo	1.47	20	245.20	3	36.78			4	
13462-008	2201	0123498	Military Highway WSC Cameron	0.51	20	85.07	3	12.76			4	
14246-001	0823	0023272	City of Celina Collin	0.95	10	79.23	3	23.77			4	
14571-001	1014	0127264	Hyas Corp. Waller	0.98	5	40.87	2	16.35			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
14572-001	0505	0127272	City of Clarksville City Gregg	0.095	10	7.92	3	2.38			4	
14575-001	1014	0127302	CW SCOA West L.P. Harris	0.64	10	53.38	2	10.68			6	
14576-001	1009	0127311	523 Venture, Ltd. Harris	0.2	10	16.68	3	5.00			6	
14577-001	0820	0127345	World Land Developers, L.P. Collin	0.25	5	10.43	2	4.17			4	
14578-001	2453	0127353	Bloomington ISD Victoria	0.005					20	0.83	2	
14579-001	1202	0127361	Fort Bend County MUD No. 19 Fort Bend	0.255	10	21.27	3	6.38			4	
14580-001	1012	0126888	UA Holdings 1994-5, L.P. Montgomery	0.05	10	4.17	3	1.25			4	
14582-001	0803	0127370	South Central Water Co. Walker	0.15	7	8.76	2	2.50			4	
14583-001	1014	0127388	Harris County MUD No. 165 Harris	2.0	10	166.80	2	33.36			6	
14584-001	0203	0127396	Commodore Marine, L.P. Grayson	0.030					10	2.50	5	
14586-001	1004	0127400	LMV Management Co., Ltd. Montgomery	0.90	10	75.06	3	22.52			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
14588-001	1014	0127434	Mischer Investments, L.P. Harris	0.30	10	25.02	2	5.00			6	
14590-001	1903	0127655	Presto Utilities, Inc. Bexar	0.84	10	70.06	3	21.02			5	
14592-001	1008	0127663	South Central Water Co. Montgomery	0.32	10	26.69	3	8.01			4	
14593-001	1434	0127680	Aqua Water Supply Corp. Bastrop	0.30	5	12.51	2	5.00			4	
14594-001	1213	0127698	City of Jarrell Brazos	4.0	5	166.80	2	66.72			5	
14599-001	1903	0127736	Presto Utilities, Inc. Bexar	0.375	10	31.28	3	9.38			5	
14600-001	2107	0127744	Presto Utilities, Inc. Bexar	0.84	10	70.06	3	21.02			5	
14604-001	1004	0127752	Northway Land Co., Ltd. Montgomery	0.58	10	48.37	3	14.51			6	

Planning Information Summary

The Water Quality and Monitoring Operations Divisions of the TCEQ coordinated with the TWDB and regional planning agencies to compile the wastewater facility information in this section. Domestic facility financing decisions under the State Revolving Loan Fund (SRF) program must be consistent with the certified and approved WQMP.

The purpose of this section is to present data reflecting facility planning needs, including previous water quality management plan needs requiring revision. Data are also presented to update other plan information for the TWDB's SRF projects. Table 2 contains the updated information. The table is organized in alphabetical order and includes the following 10 categories of information:

1. Planning Area - Area for which facility needs are proposed. The facility planning areas are subject to change during the facility planning process and any such changes will be documented in a later water quality management plan update. All planning areas listed are also designated management agencies (DMAs) unless otherwise noted in the "Comments" column.
2. Service Area - Area that receives the provided wastewater service.
3. Needs - A "T" indicates a need for either initial construction of a wastewater treatment plant, additional treatment capacity, or the upgrading of a wastewater treatment plant to meet existing or more stringent effluent requirements. A "C" indicates a need for improvements to, expansion of, rehabilitation of, or the initial construction of a wastewater collection system in the facility planning area. "T/C" indicates a need for both treatment and collection system facilities. More detailed facility planning conducted during a construction project may define additional needs and those needs will be reflected in a future update to the WQMP.
4. Needs Year - The year in which the needs were identified for the planning area.
5. Basin Name - The river basin or designated planning area where the entity is located. The seven water quality management planning areas designated by the Governor are Corpus Christi [Coastal Bend Council of Governments (CBCOG)], Killeen-Temple [Central Texas Council of Governments (CTCOG)], Texarkana [Ark-Tex Council of Governments (ATCOG)], Southeast Texas [South East Texas Regional Planning Council (SETRPC)], Lower Rio Grande Valley [Lower Rio Grande Valley Development Council (LRGVDC)], Dallas-Fort Worth [North Central Texas Council of Governments (NCTCOG)] and Houston [Houston-Galveston Area Council (H-GAC)]. Basin names are shown for agencies outside one of these areas.

6. Segment - The classified stream segment or tributary into which any recommended facility may discharge existing or projected wastewater. In the case of no-discharge facilities, this is the classified stream segment drainage area in which the facilities are located.
7. County - The county in which the facility planning area is located.
8. Date - The date the planning information was reviewed by the TCEQ.
9. Comments - Additional explanation or other information concerning the facility planning area.
10. Population - The base year and projected populations for each facility planning area. Population projections presented are consistent with the latest available statewide population projections or represent the most current information obtained from facility planning analyses.

The facility information in this section is intended to be utilized in the preparation of facility plans and the subsequent design and construction of wastewater facilities. Design capacities of the treatment and collection systems will be based upon the population projections contained in this document plus any additional needed capacity established for commercial/industrial flows and documented infiltration/inflow volumes (treatment or rehabilitation). The probable needs shown under the "Needs" heading are preliminary findings; specific needs for an area shall be as established in the completed and certified detailed engineering studies conducted during facility planning under the SRF and other state loan programs.

Specific effluent quality for any wastewater discharges resulting from any of the facilities recommended in this document will be in accordance with the rule on the Texas Surface Water Quality Standards in effect at the time of permit issuance for the specific facility.

Table 2. Service Area Population Updates to the Water Quality Management Plan

Planning Agency	Service Area	Needs	Needs Year	Basin Name	Segment	County	WQMP Date	Comments	Year	Population
City of Aransas Pass	City of Aransas Pass	T/C	1980	Redfish Bay	2483	San Patricio, Aransas, & Nueces	2003	Improvements to the collection system.	2000	10,138
									2010	11,861
									2020	13,683
									2025	14,525
Bell County WSD No. 1	Bell County WSD No. 1	T/C	1978	Brazos River	1218	Bell	2002		2000	137,930
									2010	160,716
									2020	180,097
City of El Paso	City El Paso	T/C	1992	Rio Grande	2307	El Paso	04/18/2005	Improvements to the collection system.	2000	256,416
									2005	290,582
									2010	335,180
									2015	382,294
									2020	428,150
									2025	474,006
Lumberton Municipal Utility District	Lumberton Municipal Utility District	T/C	1978	Neches River	0607	Hardin	2002		2000	16,000
									2010	18,140
									2020	19,675

Designated Management Agencies

In order to be designated as a management agency for wastewater collection or treatment, an entity must demonstrate the legal, institutional, managerial and financial capability necessary to carry out the entity's responsibilities in accordance with Section 208 (c) of the Clean Water Act (see below list of requirements). Before an entity can apply for a state revolving fund loan, it must be recommended for designation as the management agency in the approved WQMP. Designation as a management agency does not require the designated entity to provide wastewater services, but enables it to apply for grants and loans to provide the services. The facilities listed in Table 3 have submitted Designated Management Agencies (DMA) resolutions to the TCEQ. The TCEQ submits this DMA information to the EPA for approval as an update to the WQMP.

Section 208 (c)(2) Requirements for Management Agency:

- 208(c)(2)(A): to carry out portions of an area-wide waste treatment plan.
- 208(c)(2)(B): to manage waste treatment works.
- 208(c)(2)(C): directly or by contract to design and construct new works.
- 208(c)(2)(D): to accept and utilize grants.
- 208(c)(2)(E): to raise revenues, including assessment of waste treatment charges.
- 208(c)(2)(F): to incur short and long term indebtedness.
- 208(c)(2)(G): to assure community pays proportionate cost.
- 208(c)(2)(H): to refuse to receive waste from non-compliant dischargers.
- 208(c)(2)(I): to accept for treatment industrial wastes.

Table 3. Designated Management Agencies Updates to the Water Quality Management Plan

Planning Agency	Service Area	DMA Needs	DMA Date	DMA Area/Comments
City of Marlin	City of Marlin	T/C	01/11/05	City Limits