



**McCoy Water Supply Corporation
2014 Five Year Water Conservation Plan**

2125 FM 541

McCoy, Texas 78113

(830) 569-5575

www.mccoywsc.com

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Introduction

The purpose of a Water Conservation Plan is to ensure water use efficiency within operations. It is a combination of strategies for reducing the waste or loss of water as well as improving or maintaining the efficiency in the use of water. It contains best management practice measures to try to meet the targets and goals identified within the plan. Water conservation plans, including targets and goals, must be revised every 5 years. McCoy Water Supply Corporation (McCoy WSC) created its first five (5) year water conservation plan in 2009 as part of the application requirements for the Texas Water Development Board (TWDB) loan for \$1,050,000.

Organization of the 2014 McCoy WSC Five Year Water Conservation Plan (Plan) follows the TWDB checklist of required elements; non-applicable items are omitted and related topics are combined.

McCoy WSC now serves a population of over 7,000 with 438 miles of line, 12 facilities and a certificated area of 608 square miles. Water loss adversely impacts water delivery to McCoy WSC members; this new Plan focuses on the most relevant best management practices to McCoy WSC operations and membership.

2014 McCoy Water Supply Corporation Utility Profile

SECTION 1: CONTACT INFORMATION

Name of Utility: McCoy Water Supply Corporation

PWS ID #: 0070023

CCN #: 10649

Surface Water Right ID: N/A

WW ID: N/A

Address: 2125 FM 541

City: McCoy

Zip: 78113

Date: May 9, 2014

Regional Water Planning Group: L

Groundwater Conservation District: 24

Applicable Requirement: Received financial assistance of \$500,000 or more from TWDB

SECTION 2: UTILITY DATA

Population and Service Area Data

1. Current service area size in square mile: 608 (attach or email a copy of the service area map) Provide historical **service area population for the previous five years** starting with the most current year.¹

Year	Historical Population
2013	7,323
2012	6,723
2011	6,795
2010	8,700
2009	6,508

2. Provide the projected service area population for the following decades:

Year	Projected Population
2020	7,851
2030	9,074
2040	10,195
2050	11,280
2060	12,303

3. Describe the source(s)/method(s) for estimating current and projected populations. Current populations are estimated using the Utility residential connections and people-per-household method. The number of people per household (3) is derived from the South Central Texas Region L Population Study's average figure for Atascosa County where the majority of McCoy WSC members reside.

Projected populations are taken from draft projections provided by the Texas Water Development Board on March 5, 2013 for use by the Regional Water Planning Groups in developing the 2016 Regional Water Plans.

System Input

Provide system input data for the previous five years (EUWCD data)

Year	Self-supplied Water in Gallons ²	Total GPCD
2013	335,457,000	126
2012	352,888,251	144
2011	368,877,000	149
2010	268,544,000	85
2009	317,714,000	134
Historic 5-Year Average	328,696,050	127

¹ Source is Annual Conservation Reports

² Source is reported production to Evergreen Underground Water Conservation District

Water Supply System³

1. Designed daily capacity of system: 2.0 million gallons per day
2. Storage Capacity
 - Elevated: 0.206 million gallons
 - Ground: 0.744 million gallons
3. List all current water supply sources in gallons
 - Queen City and Carrizo Aquifers; Groundwater: 940,921,000⁴ gallons
4. If surface water is a source type: N/A

Projected Demands

1. Estimate the water supply requirements for the next ten years using population trends, historical water use, economic growth, etc.

Year	Population	Water Demands (gallons)
2014	7,423	344,139,620
2015	7,523	352,822,239
2016	7,623	361,504,859
2017	7,722	370,187,479
2018	7,822	378,870,098
2019	7,922	387,552,718
2020	8,022 ⁵	396,235,338
2021	8,127	400,015,214
2022	8,232	403,795,091
2023	8,338	407,574,967

2. Describe sources of data and how projected water demands were determined.

Projected populations for individual years are based on draft projections provided by the Texas Water Development Board on March 5, 2013 for use by the Regional Water Planning Groups in developing the 2016 Regional Water Plans.

Projected water demand figures are also based on draft projections provided by the Texas Water Development Board on March 5, 2013 for use by the Regional Water Planning Groups in developing the 2016 Regional Water Plans. These projections were edited based on actual data and expanded to result in more conservative projections.

High Volume Customers

1. List the annual water use, in gallons, for the five highest volume retail customers. Select one of the following water use categories to describe the customer; choose Residential, Industrial, Commercial, Institutional, or Agricultural.

³ System Area Map and System Facilities Description

⁴ Annual permit amount

⁵ Year 2020 projected by the TWDB was 7,851 and was substituted by a projection keyed to McCoy WSC demand projections. The remainder of the TWDB decennial projections were larger than those keyed to McCoy WSC demand projections and were used in this Plan.

Retail Customer	Water Use Category	Annual Water Use	Treated or Raw
Gate Guard Services	Commercial	3,944,510	Treated
TXDOT	Commercial	3,536,175	Treated
Exxon	Commercial	2,376,108	Treated
Zerlotti Equine Reproduction	Commercial	1,860,613	Treated
The Sandwich Shoppe	Commercial	1,811,300	Treated

SECTION 3: SYSTEM DATA

Retail Connections⁶

- List the active retail connections by major water use category

Water Use Category	Active Retail Connections			
	Metered	Unmetered	Total Connections	Percent of Total Connections
Residential – Single Family	2332	0	2332	95.53%
Commercial	109	0	109	4.47%
Total	2441	0	2441	100%

- List the **net** number of new retail connections by water use category for the previous five years

Water Use Category	Net New Number of New Retail Connections				
	2013	2012	2011	2010	2009
Residential – Single Family	178	-21	-603	694	-10
Commercial	22	-3	-32	37	-1
Total	200	-24	-635	731	-11

Accounting Data

For the previous five years, enter the number of gallons of RETAIL water provided in each major water use category⁷.

Water Use Category	Total Gallons of Retail water				
	2013	2012	2011	2010	2009
Residential – SF	240,891,537	249,845,248	375,470,365	182,049,652	245,691,259
Commercial	35,316,673	28,725,919	66,259,476	32,126,409	43,357,281
Total	276,208,210 ⁸	278,571,167 ⁹	441,729,841	214,176,061	289,048,540

⁶ 2013 Annual Conservation Plan Report; sourced from CUSI Billing Software

⁷ Available data reported

⁸ Includes additional water metered and billed to commercial accounts

⁹ Includes additional water metered and billed to commercial accounts

Residential Water Use

For the previous five years, enter the residential Gallons per Capita per Day (GCPD) for single family residences.

Water Use Category	Residential GCPD				
	2013	2012	2011	2010	2009
Residential – Single Family	103	113	178	67	122

Annual and Seasonal Water Use

1. For the previous five years, enter the gallons of treated water provided to RETAIL customers

Month	Total Gallons of Treated Retail Water ¹⁰				
	2013	2012	2011	2010	2009
January	22,304,000	22,544,000	20,208,000	20,271,000	22,809,000
February	19,685,000	16,157,000	20,492,000	14,670,000	18,072,000
March	28,828,000	20,059,000	25,903,000	17,124,000	19,177,000
April	25,488,000	29,746,251	33,613,000	19,039,000	22,841,000
May	29,969,000	28,625,000	35,281,000	24,051,000	29,557,000
June	30,491,000	59,142,000	39,226,000	24,547,000	35,254,000
July	38,781,000	34,277,000	38,926,000	25,397,000	42,043,000
August	43,170,000	39,053,000	45,955,000	35,714,000	40,603,000
September	26,985,000	28,893,000	38,115,000	20,447,000	31,994,000
October	23,360,000	24,286,000	26,848,000	25,014,000	20,300,000
November	23,714,000	25,017,000	23,638,000	20,772,000	18,504,000
December	22,682,000	25,089,000	20,672,000	21,498,000	16,560,000
Total	335,457,000	352,888,251	368,877,000	268,544,000	317,714,000

2. Summary of seasonal and annual water use.

Water Use	Seasonal and Annual Water Use					Average in Gallons
	2013	2012	2011	2010	2009	
Summer Retail (Treated + Raw)	112,442,000	132,472,000	124,107,000	85,658,000	117,900,000	114,515,800
						5 yr. Average
Total Retail (Treated +Raw)	335,457,000	352,888,251	368,877,000	268,544,000	317,714,000	328,696,050
						5 yr. Average

¹⁰ Production reported to Evergreen Underground Water Conservation District

Water Loss

Provide Water Loss data for the previous five years

Water Loss GPCD = (Total Water Loss in Gallons ÷ Permanent Population Served) ÷ 365

Water Loss Percentage = (Total Water Loss ÷ Total System Input) X 100

Year	Total Water Loss in Gallons	Water Loss in GPCD	Water Loss as a Percentage
2013	54,925,891	21	16%
2012	43,354,510	18	12%
2011	53,776,420	21	14%
2010	39,518,045	9	15%
2009	N/A	N/A	N/A
Average	47,893,717	17	14%

Peak Water Use

Provide the Average Daily Water Use and Peak Day Water Use for the previous five years

Year	Average Daily Use (Gallons)	Peak Day Use (Gallons)	Ratio (peak/average)
2013	103	125	1.21
2012	113	146	1.29
2011	178	166	.93
2010	67	78	1.16
2009	122	160	1.31

Summary of Historic Water Use¹¹

Water Use Category	Historic 5-year Average	Percent of Connections	Percent of Water Use
Residential SF	279,391,643	95%	85%
Commercial	49,304,407	5%	15%

McCoy WSC Five-Year and Ten-Year Targets

Metric	Historic 5 year Average	Baseline	5 year Goal for 2018	10 year Goal for 2023
Total GPCD	127	126	115	110
Residential GCPD	113	90	90	90
Water Loss (GCPD)	31	21	16	13
Water Loss (Percentage)	21%	16%	12%	9%

¹¹ Data is incomplete; percentages are estimates

Best Management Practices; Tracking Implementation and Effectiveness

McCoy WSC tracks monthly production; metered water consumption and adjustments; reported line breaks and leaks; tampering and damage; and flushing. This data is then reported monthly, quarterly and annually.

In addition to these efforts, McCoy will implement the following:

Annual Meter Reading Reconciliation

This process will improve cost recovery and reduce apparent water loss. Implementation of annual meter reading reconciliation requires each meter being read at least once a year by McCoy operators.

Currently McCoy operators read meters monthly for members who pay the meter reading fee; those with radio-read meters; and the elderly/disabled who pay no fee but have self-identified their need for assistance.

Customers outside of these categories who do not turn in a meter reading for two consecutive months are identified for meter reads through the spot read customer report generated through CUSI, McCoy WSC's billing and work order system and are charged a trip fee, instituted in 2013 as part of the McCoy WSC Tariff.

The remaining customers have their meters read by McCoy operators at least once during the second half of the year (June-December) via a system known as "annual reads."

Checking the status of meters at the end of the 3rd quarter will ensure operators have time to complete annual reads for each meter.

All active meters that had been read by McCoy operators will be classified in order to run a report in the McCoy WSC billing software.

This effort will apply to Authorized Consumption – Unbilled Metered and Apparent Losses - Average Customer Accuracy

Supervisory Control and Data Acquisition

With the SCADA upgrades in place, regular analysis of the resultant data will facilitate flow monitoring and more effective leak detection.

Assets connected to SCADA will be monitored in real-time and downloaded graphs analyzed to target anomalies and repairs.

Use of SCADA is expected to enable office staff will more effectively support field staff. Benefits include reducing the number of customer complaints; obtaining better information on previously unreported losses; and reducing call to repair time.

Office staff will initiate a program to employ Google Earth to map leaks to further support distribution system asset management and targeted use of capital improvement program funds.

This effort will apply to Real Losses – Unreported Loss and Reported Leaks

Agreements and Reporting

Complete agreements with all volunteer fire departments and ensure monthly reporting is received from each department to increase data capture and improving quantified volumes.

This effort will apply to Authorized Consumption – Unbilled Metered

Universal Metering

McCoy WSC actively maintains a program of universal metering, including volunteer fire departments to ensure their use is metered. We replace meters at 1,000,000 gallons and we promptly replace meters that are not performing. Each of McCoy WSC's wells has a master meter

Identifying and Controlling Water Loss; Leak Detection, Repair, and Water Loss Accounting

McCoy WSC field staff monitors distribution system conditions through route assignments and log the results of their visual inspections during this daily routine. The Field Manager conducts monthly compliance inspections and reports results to the McCoy WSC Board of Directors.

Damage and tampering are reported and responsible parties are billed for water loss, staff time and materials.

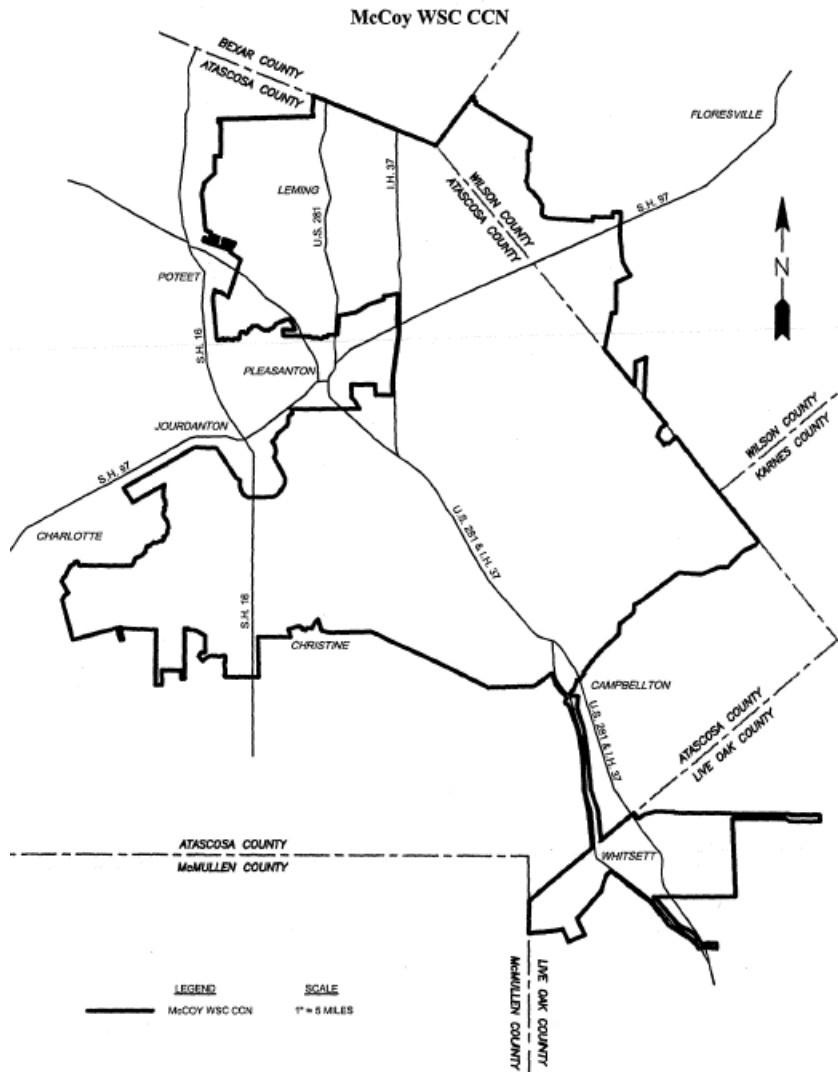
Water loss is recorded monthly and reported annually.

Continuing Education and Information Regarding Water Conservation

McCoy WSC will provide water conservation information directly to each member at least annually and will provide water conservation literature to new customers when they apply for service.

Education and information will include quarterly messages on bills, a monthly display at McCoy WSC offices, and seasonal information on the McCoy WSC website.

McCoy WSC System Map and Facilities Description



McCoy Water Supply Corporation Facilities

Plant #	Assets	Capacity Provided
#1	100' 141,000 Standpipe	141,000 gallons
	7500 gal Pressure Tank	7500 gallons
	(2) 300 gpm Pumps	600 gpm
	Wells 1 & 4 810 gpm	810 gpm
#2	100' 141K Standpipe	28,200 gallons Elevated
		141,000 gallons Total
#3	80' 112,800 Standpipe	0 gallons Elevated
		112,800 total
#4	50,000 gallon Ground Storage Tank	50,000 gallons
	2,500 gallon Pressure Tank	2,500 gallons
	(2) 150 gpm Pumps	300 gpm
#5	268,000 gallon Ground Storage Tank	268,000 gallons
	17,500 gallon Pressure Tank	17,500 gallons
	(2) 700 gpm Pumps	1,400 gpm
	Wells 2 & 6 800 gpm	800 gpm
#6	2,500 gallon Pressure Tank	2,500 gallons
	(2) 120 gpm	240 gpm
#7	88,000 gallon Ground Storage Tank	88,000 gallons
	2,500 gallon Pressure Tank	2,500 gallons
	(2) 125 gpm pump	250 gpm
#8	150,000 gallon Elevated Storage Tank	150,000 gallons
#9	(1) 200 gpm Submersible Booster Pump	200 gpm
#10	7,000 gallon Pressure Tank	7,000 gallons
	(2) 250 gpm Pumps	500 gpm
	Well 7 800 gpm	800 gpm

Current McCoy WSC Rate Structure

SECTION G. RATES AND SERVICE FEES

Unless specifically defined in this Tariff, all fees, rates, and charges as stated shall be non-refundable.

1. **Service Investigation Fee.** The Corporation shall conduct a service investigation for each service application submitted at the Corporation office. An initial determination shall be made by the Corporation, as to whether the service request is Standard or Non Standard. An investigation shall then be conducted and the results reported under the following terms:

a. All Standard Service requests shall be investigated and all applicable costs for providing service shall be quoted in writing to the Applicant within ten (10) working days of application.

b. All Non Standard Service requests shall be subject to a fee, appropriate to each project, of sufficient amount to cover all administrative, legal, and engineering fees associated with investigation of the Corporation's ability to deliver service to the Applicant to;

1) provide cost estimates of the project,

2) to present detailed plans and specifications as per final plat,

3) to advertise and accept bids for the project,

4) to present a Non Standard Service Contract to the Applicant, and

5) to provide other services as required by the Corporation for such investigation. A Non Standard Service Contract shall be presented to the Applicant within a suitable amount of time as determined by the complexity of the project. (See Section F.)

2. **Membership Fee.** At the time the application for service is approved, a refundable Membership Fee must be paid for each service requested before service shall be provided or reserved for the Applicant by the Corporation.

a. The Membership Fee for water service is \$100.00 for each service unit.

b. Membership fee for oversized or Master Metered Accounts shall be based on multiples of meter size equivalence.

3. **Easement Fee.** When the Corporation determines that private right of way easements and/or facilities sites are necessary to provide service to the Applicant, the Applicant shall be required to make good faith efforts to secure easements in behalf of the Corporation and/or pay all costs incurred by the Corporation in validating, clearing, and retaining such right of way in addition to tap fees otherwise required pursuant to the provisions of this Tariff. The costs may include all legal fees and expenses necessary to attempt to secure such right of way and/or facilities sites in behalf of the Applicant. (See Section E 3, Section F 8. b.)

4. Installation Fee. The Corporation shall charge an installation fee for service as follows:
- a. Standard Service shall include all current labor, materials, engineering, legal, customer service inspection, and administrative costs necessary to provide individual metered water or wastewater service and shall be charged on a per tap basis as computed immediately prior to such time as metered service is requested and installed.
 - b. Non Standard Service shall include any and all construction labor and materials, inspection, administration, legal, and engineering fees, as determined by the Corporation under the rules of Section F of this Tariff.
 - c. Standard and Non Standard Service Installations shall include all costs of any pipeline relocations as per Section E 3(e) of this Tariff.
5. Equity Buy-In Fee. In addition to the Membership Fee, each Applicant shall be required to achieve parity with the contributions to the construction of the Corporation's facilities capacity that have been made previously by existing Members. This fee shall be assessed immediately prior to providing or reserving service on a per service unit basis for each property and shall be assigned and restricted to that property for which the service was originally requested. This fee shall be set aside for future capacity improvements such as line upgrades, new tanks, treatment, or production. This fee is currently \$2,200.00 but may be re-calculated on an annual basis to ensure parity is achieved.
6. Monthly Charges.
- a. Base Rate
 - 1) Water Service The monthly charge for standard metered water service is for a 5/8" by 3/4" meter. The 5/8" X 3/4" meter charge is used as a base multiplier for larger non-standard meters in accordance with the following chart based on American Water Works Association maximum continuous flow specifications:

METER SIZE	5/8" X 3/4" METER EQUIVALENTS	MONTHLY RATE
5/8" X 3/4"	1.0	\$33.50
3/4"	1.5	\$50.25
1"	2.5	\$83.75
1 1/2"	5.0	\$167.50
2"	8.0	\$268.00

3" DISP.	9.0	\$301.50
3" CMPD.	16.0	\$536.00
3" TURB.	17.5	\$586.25
4" CMPD.	25.0	\$837.50
4" TURB.	30.0	\$1,005.00
6" CMPD.	50.0	\$1,675.00
6" TURB.	62.5	\$2,093.75
8" CMPD.	80.0	\$2,680.00

b. Gallonage Charge. In addition to the Base Rate, a gallonage charge shall be added at the following rates for usage during any one (1) billing period.

- 1) Water - \$2.25 per 1,000 gallons for any gallonage from 0 to 10, 000 gallons.
- 2) Water - \$2.75 per 1,000 gallons for any gallonage from 10,001 to 20, 000 gallons.
- 3) Water - \$3.25 per 1,000 gallons for any gallonage from 20,001 to 50, 000 gallons.
- 4) Water - \$3.75 per 1,000 gallons for any gallonage greater than 50, 000 gallons.
- 5) The Corporation shall, as required by Section 5.701, Water Code of the State of Texas, collect from each of its retail customers a regulatory assessment equal to one-half of one percent of the charge for retail water or wastewater service. This charge shall be collected in addition to other charges for utility service. This fee is collected on all charges pertaining to Section G.6. Monthly Charges of this tariff. (30 TAC 291.76(d))

7. Assessments. If at the end of the fiscal year, or in the event of emergency repairs, the Board of Directors determines the total amount derived from the collection of water or wastewater charges to be insufficient for the payment of all costs incident to the operation of the Corporation's system during the year in which such charges are collected, the Board shall make and levy an assessment against each Member of the Corporation as the Board may determine or as may be required by Rural Development, so that the sum of such assessments and the amount collected from water and other charges is sufficient to fully pay all costs of the operation, maintenance, replacement and repayment on indebtedness for the year's operations. (See Article XVIII of USDA Model Bylaws, Section 1)

8. Late Payment Fee. Once per billing period, a penalty of \$15.00 shall be applied to delinquent bills. This late payment penalty shall not be applied to any balance to which the penalty was applied in a previous billing, but shall be applied to any unpaid balance during the current billing period.

NOTE: For Political Subdivisions and state agencies the above late payment fee does not apply. Instead a late penalty of 1% shall be assessed for any amount unpaid on the 46th day after the bill is received by the state agency or political subdivision and an additional 1% shall be assessed for each month thereafter that the bill remains unpaid. (Government Code Chapter 2251)

9. Owner Notification Fee. The Corporation may, at the expense of the Member, notify said Member of a renter/lessee delinquent account status prior to disconnection of service. The Owner Notification Fee shall be \$25.00 per notification. (See Miscellaneous Transaction Forms).

10. Mortgagee/Guarantor Notification Fee. The Corporation shall assess a fee of \$25.00 for each notification to a Membership lien holder under agreement prior to Membership cancellation. (See Miscellaneous Transaction Forms.)

11. Returned Check Fee. In the event a check, draft, or any other similar instrument is given by a person, firm, corporation, or partnership to the Corporation for payment of services provided for in this Tariff, and the instrument is returned by the bank or other similar institution as insufficient or non-negotiable for any reason, the account for which the instrument was issued shall be assessed a return check charge of \$35.00. (See Miscellaneous Transaction Forms)

12. Reconnect Fee. The Corporation shall charge a fee of \$75.00 for reconnecting service after the Corporation has previously disconnected the service for any reason provided for in this Tariff except for activation of service under Section E 6.b. Re Service.

13. Seasonal Reconnect Fee. Base Rate multiplied by the number of months during which service is suspended, not to exceed 9 months during any 12 consecutive months.

14. Service Trip Fee. The Corporation shall charge a trip fee of \$55.00 for any service call or trip to the Member's tap as a result of a request by the Member or resident for response to damage of the Corporation's or another Member's facilities, for customer service inspections due to suspicion of meter tampering, bypass or diversion of service, or for the purpose of disconnecting or collecting payment for services. For service trips that extend beyond one hour, such as when an extended line location is required, the Corporation shall charge \$100.00 per employee per hour for each additional hour required.

15. Equipment Damage Fee. If the Corporation's facilities or equipment have been damaged by tampering, by passing, installing unauthorized taps, reconnecting service without authority, or other service diversion, a fee shall be charged equal to the actual costs for all labor, material, and equipment necessary for repair, replacement, and other Corporation actions. This fee shall be charged and paid before service is reestablished. If the Corporation's equipment has not been damaged, a fee equal to the actual costs for all labor, material, equipment, and other actions necessary to correct service diversions, unauthorized taps, or reconnection of service without authority shall be charged. All components of this fee will be itemized, and a statement shall be provided to the Member. If the Corporation's facilities or equipment have been damaged due to negligence or unauthorized use of the Corporation's equipment, right of way, or meter shut off valve, or due to other acts for which the Corporation incurs losses or damages,

the Member shall be liable for all labor and material charges incurred as a result of said acts or negligence.

16. Meter Tampering and Diversion Penalty. In addition to the Equipment Damage Fee, the Corporation may charge a penalty for "Tampering" as defined in Section E 23. The penalty may only be assessed against the person who committed the Tampering. An owner cannot be assessed for the Tampering committed by their tenant. The penalty shall not exceed six (6) times the Base Rate.

17. Customer History Report Fee. A fee of \$2.50 shall be charged to provide a copy of the Members record of past water purchases in response to a Member's request for such a record.

18. Meter Test Fee. The Corporation shall test a Member's meter upon written request of the Member. Under the terms of Section E of this Tariff, a charge of \$35.00 shall be imposed on the affected account.

19. Transfer Fee. An Applicant for service who is a Transferee shall complete all required application forms, etc., and pay a Transfer Fee of \$25.00.

20. Information Copy Fee. A fee for the copying of any public information will be charged to the person requesting that information in compliance with the cost rules of the Government Code Section 552.261 et. seq.

21. Customer Service Inspection Fee. A fee of \$45.00 will be assessed each Applicant before permanent continuous service is provided to new construction.

22. Regulatory Assessment. A fee of 0.5% of the amount billed for water service will be assessed each customer; this assessment is required under Texas law and TCEQ regulations. NOTE: The regulatory assessment is not to be collected from state agencies, wholesale customers, or buyers of non-potable (not drinkable) water. (Ref. TCEQ RG-199 revised Oct. 2002. TCEQ Section 291.76 (c))

23. Additional Assessments. In the event any federal, state or local government imposes on the Corporation a "per meter" fee or an assessment based on a percent of water/sewer charges, this fee or assessment will be billed and collected as a "pass through" charge to the customer.

24. Groundwater District Production Fee. (Reserved)

25. Leak Adjustments. A onetime adjustment will be granted to Member's who can demonstrate repair of a leak on the Member's side of the service line. Adjustments will be made only when the cumulative water loss exceeds 50,000 gallons or more. The adjustment calculation will be based on an average month's usage over the previous twelve (12) months, with the remaining charge per thousand gallons calculated at the lower gallonage rate.

26. Other Fees. All services outside the normal scope of utility operations that the Corporation may be compelled to provide at the request of a customer or Member shall be charged to the recipient based on the cost of providing such service.

2014 McCoy WSC Five Year Water Conservation Plan Resolution

STATE OF TEXAS
COUNTY OF ATASCOSA

RESOLUTION

The Board of Directors of McCoy Water Supply Corporation being convened in Regular Session at McCoy WSC offices at 2125 FM 541, McCoy, Texas 78113, on the 8th day of May, 2014, with a quorum present in the persons of

President Clay Luthringer, Secretary/Treasurer Rudy Schroeder, Tommy Caraway, Ed McClure, Hector Moreno, and Arthur Troell. Vice President Gus Gonzalez was not present.

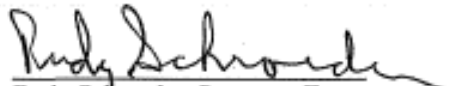
Director(s) being absent: Vice President Gus Gonzalez was not present.

WHEREAS Director Rudy Schroeder introduced the following order, moved its adoption, and the motion having been seconded by Director Arthur Troell was duly put and carried, said Order reading as follows:

IT IS HEREBY RESOLVED, ordered, and directed that the McCoy Water Supply Corporation adopts the 2014 McCoy Water Supply Corporation 5 Year Conservation Plan.


Clay Luthringer, President
McCoy Water Supply Corporation
Board of Trustees

Attest:


Rudy Schroeder, Secretary-Treasurer
McCoy Water Supply Corporation
Board of Trustees

Email Notifying South Central Texas Regional Water Planning Group of the 2014 McCoy WSC Five Year Water Conservation Plan

The service area of McCoy Water Supply Corporation is located within the South Central Texas Regional Water Planning Group (Region L) and the Corporation will provide a copy of this Plan to coordination with Region L at:

South Central Texas Regional Water Planning Group
c/o San Antonio River Authority
P.O. Box 839980
San Antonio, Texas 78283-9980

Emailed to: Julia Velez (jvelez@sara-tx.org) and Cole Ruiz (cruiz@sara-tx.org)

Kerry McCollough

To: Julia Velez (jvelez@sara-tx.org)
Cc: Cole Ruiz (cruiz@sara-tx.org)
Subject: 2014 McCoy WSC Five Year Water Conservation Plan
Attachments: 20140508 Approved 2014 McCoy WSC 5 Year Conservation Plan.pdf

Please find the referenced Conservation Plan attached to facilitate McCoy WSC's coordination with the South Central Texas (Region L) Regional Water Planning Group.

Let me know if you have any questions.

Thanks—Kerry

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The Drought Contingency Plan

SECTION H. DROUGHT CONTINGENCY AND EMERGENCY WATER DEMAND MANAGEMENT PLAN

1. Introduction.

The goal of this plan is to cause a reduction in water use in response to drought or emergency conditions so that the water availability can be preserved. Since emergency conditions can occur rapidly, responses must also be enacted quickly. This plan has been prepared in advance considering conditions that will initiate and terminate the rationing program.

A Drought/Emergency Management Committee consisting of two Board Members and the System Manager will monitor usage patterns and public education efforts and will make recommendations to the Board on future conservation efforts, demand management procedures or any changes to this plan. The Committee may develop public awareness notices, bill stuffers, and other methods that will begin and continue as a constant type of reminder that water should be conserved at all times, not just during a drought or emergency. This Committee will also review and evaluate any needed amendments or major changes due to changes in the WSC service area population, distribution system or supply. This review and evaluation will be done on a regular basis of five years unless conditions necessitate more frequent amendments.

The plan will be implemented according to the three stages of rationing as imposed by the Board. Paragraph 4 describes the conditions that will trigger these stages.

2. Public Involvement.

Opportunity for the public to provide input into the preparation of the Plan was provided by the Board by scheduling and providing public notice of a public meeting to accept input on the Plan. Notice of the meeting was provided to all customers. In the adoption of this plan, the Board considered all comments from customers.

3. Coordination with Regional Water Planning Group L.

Being located within the Region "L" water planning area a copy of this Plan will be provided to that Regional Water Planning Group.

4. Trigger Conditions.

The Drought Emergency Management Committee is responsible for monitoring water supply and demand conditions on a monthly basis (or more frequently if conditions warrant) and shall determine when conditions warrant initiation or termination of each stage of the plan, that is, when the specified triggers are reached. The Committee will monitor monthly operating reports, water supply or storage tank levels and/or rainfall as needed to determine when trigger conditions are reached. The triggering conditions described below take into consideration: the vulnerability of the water source under drought of record conditions; the production, treatment and distribution capacities of the system, and member usage based upon historical patterns.

a. Stage I – Mild Conditions. Stage I water allocation measures may be implemented when one or more of the following conditions exist:

- 1) Water consumption has reached 80 percent of daily maximum supply for three (3) consecutive days.
- 2) Water supply is reduced to a level that is only 20 percent greater than the average consumption for the previous month.

- 3) There is an extended period (at least eight (8) weeks) of low rainfall and daily use has risen 20 percent above the use for the same period during the previous year.
- b. Stage II – Moderate Conditions. Stage II water allocation measures may be implemented when one of the following conditions exist:
 - 1) Water consumption has reached 90 percent of the amount available for three consecutive days.
 - 2) The water level in any of the water storage tanks cannot be replenished for three (3) consecutive days.
- c. Stage III – Severe Conditions. Stage III water allocation measures may be implemented when one of the following five conditions exist:
 - 1) Failure of a major component of the system or an event which reduces the minimum residual pressure in the system below 20 psi for a period of 24 hours or longer.
 - 2) Water consumption of 95 percent or more of the maximum available for three (3) consecutive days.
 - 3) Water consumption of 100 percent of the maximum available and the water storage levels in the system drop during one 24-hour period.
 - 4) Natural or man-made contamination of the water supply source(s).
 - 5) The declaration of a state of disaster due to drought conditions in a county or counties served by the Corporation.
 - 6) Reduction of wholesale water supply due to drought conditions.
 - 7) Other unforeseen events which could cause imminent health or safety risks to the public.

5. Stage Levels of Water Allocations.

The stage levels of water allocations are to be placed in effect by the triggers in Paragraph 4. The System shall institute monitoring and enforce penalties for violations of the Drought Plan for each of the Stages listed below. The water allocation measures are summarized below.

a. Stage I – Mild Conditions: Voluntary Water Use Restrictions.

- 1) Water customers are requested to voluntarily limit the irrigation of landscaped areas to Sundays and Thursdays for customers with a street address ending in an even number (0, 2, 4, 6 or 8), and Saturdays and Wednesdays for water customers with a street address ending in an odd number (1, 3, 5, 7 or 9), and to irrigate landscapes only between the hours of midnight and 10:00 a.m. and 8:00 p.m. to midnight on designated watering days.
- 2) The system will reduce flushing operations.
- 3) Reduction of customers' water use will be encouraged through notices on bills or other method.

b. Stage II – Moderate Conditions: Mandatory Water Use Restrictions.

- 1) Irrigation of landscaped areas with hose-end sprinklers or automatic irrigation systems shall be limited to Sundays and Thursdays for customers with a street address ending in an even number (0, 2, 4, 6 or 8), and Saturdays and Wednesdays for water customers with a street address ending in an odd number (1, 3, 5, 7 or 9), and irrigation of landscaped areas is further limited to the hours of 12:00 midnight until 10:00 a.m. and between 8:00 p.m. and 12:00 midnight on designated watering days. However, irrigation of landscaped areas is permitted at any time if it is by means of a hand-held hose, a faucet filled bucket or watering can of five (5) gallons or less, or drip irrigation system.
- 2) Use of water to wash any motor vehicle, motorbike, boat, trailer, airplane or other vehicle is prohibited except on designated watering days between the hours of 12:00 midnight and 10:00 a.m. and between 8:00 p.m. and 12:00 midnight. Such washing, when allowed, shall be done with a hand-held bucket or a hand-held hose equipped with a positive shutoff nozzle for quick rinses. Vehicle washing may be done at any time on the immediate premises of a commercial car wash or commercial service station. Further, such washing may be exempted

from these regulations if the health, safety, and welfare of the public is contingent upon frequent vehicle cleansing, such as garbage trucks and vehicles used to transport food and perishables.

3) Use of water to fill, refill, or add to any indoor or outdoor swimming pools, wading pools, or Jacuzzi-type pools is prohibited except on designated watering days between the hours of 12:00 midnight and 10:00 a.m. and between 8 p.m. and 12:00 midnight.

4) Operation of any ornamental fountain or pond for aesthetic or scenic purposes is prohibited except where necessary to support aquatic life or where such fountains or ponds are equipped with a recirculation system.

5) Use of water from hydrants shall be limited to firefighting, related activities, or other activities necessary to maintain public health, safety, and welfare, except that use of water from designated fire hydrants for construction purposes may be allowed under special permit from the Corporation.

6) Use of water for the irrigation of golf course greens, tees, and fairways is prohibited except on designated watering days between the hours of 12:00 midnight and 10:00 a.m. and between 8 p.m. and 12:00 midnight. However, if the golf course utilizes a water source other than that provided by the Corporation, the facility shall not be subject to these regulations.

7) All restaurants are prohibited from serving water to patrons except upon request of the patron.

8) The following uses of water are defined as non-essential and are prohibited: wash down of any sidewalks, walkways, driveways, parking lots, tennis courts, or other hard-surfaced areas; use of water to wash down structures for purposes other than immediate fire protection; use of water for dust control; flushing gutters or permitting water to run or accumulate in any gutter or street; and failure to repair a controllable leak(s) within a reasonable period after having been given notice directing the repair of such leak(s).

9) Make public service announcements as conditions change via local media (TV, radio, newspapers, etc.).

c. Stage III – Severe Conditions: In addition to Stage II Restrictions.

1) Irrigation of landscaped areas shall be limited to designated watering days between the hours of 12:00 midnight and 10:00 a.m. and between 8 p.m. and 12:00 midnight and shall be by means of hand-held hoses, hand-held buckets, drip irrigation, or permanently installed automatic sprinkler system only. The use of hose-end sprinklers is prohibited at all times.

2) The watering of golf course tees is prohibited unless the golf course utilizes a water source other than that provided by the Corporation.

3) The use of water for construction purposes from designated fire hydrants under special permit is to be discontinued.

4) Corporation shall continue enforcement and educational efforts.

6. Initiation and Termination Procedures.

Once a trigger condition occurs, the Corporation, or its designated responsible representative, shall, based on recommendation from the Chairperson of the Drought/Emergency Management Committee, decide if the appropriate stage of rationing shall be initiated. The initiation may be delayed if there is a reasonable possibility the water system performance will not be compromised by the condition. If water allocation is to be instituted, written notice to the customers shall be given.

Written notice of the proposed water allocation measure shall be mailed or delivered to each affected customer upon the initiation of each stage. In addition, upon adoption of Stage II or Stage III, a notice will be placed in a local newspaper or announced on a local radio or television station. The customer notice shall contain the following information:

a. The date water allocation shall begin;

b. The expected duration;

- c. The stage (level) of water allocations to be employed;
- d. Penalty for violations of the water allocation program; and
- e. Affected area or areas.

If the water allocation program extends 30 days then the Chairperson of the Drought/Emergency Management Committee or manager shall present the reasons for the allocations at the next scheduled Board Meeting and shall request the concurrence of the Board to extend the allocation period.

When the trigger condition no longer exists then the responsible official may terminate the water allocations provided that such an action is based on sound judgment. Written notice of the end of allocations shall be given to customers. A water allocation period may not exceed 60 days without extension by action of the Board.

7. Penalties for Violations

- a. First Violation. The customer/member will be notified by a written notice of their specific violation and their need to comply with the tariff rules. The notice will show the amount of penalty * to be assessed for continued violations.
- b. Second Violation. The Corporation will assess a penalty * of \$ 75.00.
- c. Subsequent Violations. The Corporation will assess an additional penalty * of \$50 for violations continuing after the Second Violation. The Corporation may also install a flow restricting device in the customer's meter service to limit the amount of water that will pass through the meter in a 24 hour period. The costs of this procedure will be for the actual work and equipment and shall be paid by the customer.
- d. Termination. The Corporation will terminate service for up to 7 days for continuing violations under this section. Service will remain off until any delinquent penalty * or other assessment is fully paid including a charge for the service call to restore service.

These provisions apply to all customers of the Corporation.

NOTE: PENALTY * – A WSC is allowed to charge a reasonable penalty to customers that fail to comply with the Rationing Procedures in accordance with TAC 291.41 (j) if:

- 1) the penalty is clearly stated in the tariff;
- 2) the penalty is reasonable and does not exceed six (6) times the minimum monthly bill stated in the water supply corporation's current tariff; and
- 3) the water supply corporation has deposited the penalty in a separate account dedicated to enhancing water supply for the benefit of all the water supply corporation's customers.

8. Exemptions or Waivers

The Drought/Emergency Management Committee may, in writing, grant temporary variance for existing water uses otherwise prohibited under this Plan if it is determined that failure to grant such variance would cause an emergency condition adversely affecting the health or sanitation for the public or the person requesting such variance and if one or more of the following conditions are met:

- a. Compliance with this Plan cannot be technically accomplished during the duration of the water supply shortage or other condition for which the Plan is in effect.
- b. Alternative methods can be implemented which will achieve the same level of reduction in water use.

Persons requesting an exemption from the provisions of this Plan shall file a petition for variance with the Drought/Emergency Management Committee within 5 days after the Plan or a

particular drought response stage has been invoked or after a condition justifying the variance first occurs. All petitions for variances shall be reviewed by the Committee and shall include the following:

- 1) Name and address of the petitioner(s).
- 2) Purpose of water use.
- 3) Specific provision(s) of the Plan from which the petitioner is requesting relief.
- 4) Detailed statement as to how the specific provision of the Plan adversely affects the petitioner or what damage or harm will occur to the petitioner or others if petitioner complies with this Plan.
- 5) Description of the relief requested.
- 6) Period of time for which the variance is sought.
- 7) Alternative water use restrictions or other measures the petitioner is taking or proposes to take to meet the intent of this Plan and the compliance date.
- 8) Other pertinent information, as requested by the Committee.

Variances granted by the Committee shall be subject to the following conditions, unless specifically waived or modified by the Committee or Board of Directors:

- 1) Variances granted shall include a timetable for compliance.
- 2) Variances granted shall expire when the water allocation is no longer in effect, unless the petitioner has failed to meet specified requirements. No variance allowed for a condition requiring water allocation will continue beyond the termination of water allocation under Section F. Any variance for a subsequent water allocation must be petitioned again. The fact that a variance has been granted in response to a petition will have no relevance to the Committee's decision on any subsequent petition.

No variance shall be retroactive or otherwise justify any violation of this Plan occurring prior to the issuance of the variance.

9. Implementation

The Board establishes a Drought/Emergency Management Committee by Resolution, the chairperson of which will be the responsible representative to make Drought and Emergency Water Management actions. This Committee will review the procedures in this plan annually or more frequently. Modifications may be required to accommodate system growth, changes in water use demand, available water supply and/or other circumstances.

This Plan was adopted by the Board at a properly noticed meeting held on February 14, 2013.