Barton Springs Edwards Aquifer CONSERVATION DISTRICT

Limited Production Permit
User Conservation Plan
For

LPP Permittee

INTRODUCTION

The Barton Springs segment of the Edwards Aquifer is a groundwater resource managed by the Barton Springs/Edwards Aquifer Conservation District (District) under the authority granted under Chapter 36 of the Texas Water Code and the District's enabling legislation. Conservation and Drought Contingency are among the management goals the District must include in its Management Plan that is approved by the Texas Water Development Board no less than every five years. Rule 3-1.20.B addresses non-exempt domestic use and references the requirement to develop a User Conservation Plan.

It is in this context that _____ *(print owner name)* as the Permittee has adopted the contents of this document to serve as the User Conservation Plan (UCP) for the production of groundwater from _____ *(address of domestic/livestock well)*. The granting of authorization to withdraw water from the Barton Springs segment of the Edwards Aquifer and approval of this plan as submitted serves as a commitment by the permittee to implement this plan as described and to remain in compliance with District Rules.

The intent of a UCP is to set forth guidelines and conservation measures that will maximize the utility of the water withdrawn. The guidelines are to be implemented at all times and may only be replaced by more restrictive requirements as ordered by the Board under an Exceptional or Emergency Response declared drought stage.

The UCP also sets forth guidelines for recommended and voluntary curtailments of groundwater during each of the stages of drought that may be declared by the District as described in Rule 3-7. While it is the effort through conservation to prevent drought conditions, it is integral to the wise management of the resource to plan for this contingency in this manner. Notification of drought will occur through direct notice from the District, in addition to community notification through public notice, the District website, and other means. The UCP is not designed to punish, stigmatize, or criticize anyone about their usage of water. Its sole intent is to maintain an adequate supply of water, especially during the various stages of drought conditions which may occur from time to time.

SECTION 1. Declaration of Policy, Purpose, and Intent

As the Permittee I, _____ *(print name),* being the designated responsible official, and in a continuing effort to maintain an adequate supply of high quality water, has adopted this UCP with the guidance of the District. In order to maintain supply, storage, or pressure; or to comply with regulatory requirements, temporary restrictions may be instituted to limit nonessential water usage. This UCP satisfies and complies with District Rules 3-7.5 and 3-7.7 related to Drought Management.

_____ (Signature of Permittee or Responsible Official) _____(Date)

Ongoing Conservation Measures

The Permittee will adopt the following water conservation measures at all times:

1. Replace faulty or unusable plumbing fixtures or appliances with water saving devices such as low-flow toilets, shower and faucet aerators, water-efficient dishwashers and clothes washers.
2. Choose and install water-efficient appliances and fixtures in new construction.
3. Check for leaks in toilets at least every six months.
4. Repair dripping faucets and leaky plumbing promptly.
5. At least once each year, cease all water usage and check meter to determine if leaks exist in underground transmission lines.
6. Utilize water efficient landscape practices such as water-wise landscape design and drip irrigation for new turf and landscaping.
7. Convert high water use turf and landscapes to native and water-wise designs for existing turf and landscaping.
8. Select vegetation from the list of appropriate native and naturalized plants compiled by the Lady Bird Johnson Wildflower Center when installing new or replacing landscape vegetation.
9. Implement a watering schedule endorsed by the District that includes watering restrictions for hose-end and underground irrigation systems.
10. Maximize efficient operation of automatic sprinkler systems to avoid waste by conducting periodic irrigation audits, frequently adjusting controllers based on conditions, installing rainwater shutoff devices, smart clocks and controllers, etc.
11. Wash vehicles using a hose-end sprayer with an automatic shut off or with buckets full of water and not allowing the water to continue to run from the hose when not in use.
12. Use a cover on swimming pools when possible to minimize evaporative loss of water.
13. When possible, consider alternative water supplies including but not limited to rainwater collection and alternative irrigation strategies to improve conservation of water on site.
14. Maintain record of submitted meter readings as record for future determination of possible system leaks and to quantify success of conservation practices and steps for usage reduction during drought conditions.
15. Periodically review and evaluate this conservation plan and implement revisions to the plan as necessary.

Recommended Drought Stage Measures

The permittee will adopt the following voluntary water efficiency measures during District declared drought stages:

Indoor Measures

- Visually inspect lines and repair leaks on a regular basis.
- Check for toilet and faucet leaks and repair any found leaks immediately.
- Use water displacement device in toilet tank or replace older model toilets with HET models when possible.
- Install aerators on faucets and water efficient appliances.
- While waiting for hot water to reach faucet, catch cold water in a container to be reused.
- Only run dishwasher with full load.
- Keep drinking water in a container in the refrigerator.
- Reduce use of garbage disposal.
- Wash only full loads of laundry.
- Turn off master water shutoff when out of town or on vacation.
- Draw less water for bath or reduce shower time.
- Do not over water houseplants.

Outdoor Measures – Landscape Irrigation

- Adopt a 2 day schedule for lawn watering and always only water between 8pm and 8am.
- For Automatic Sprinkler systems:
  - check sprinkler heads regularly to prevent clogging
  - adjust to eliminate overspray and
  - adjust run times and frequency monthly to respond to water schedules and changing rainfall and temperature conditions.
- Use hand held hose, drip irrigation, or soaker hoses for trees, garden, non-turf areas and bedded plants.
- Avoid watering on windy days.
- Cut lawns on highest setting and leave lawn clippings on lawn instead of bagging.
- For hose-end sprinklers - use sprinkler timers to limit water duration.
- Use mulch to conserve soil moisture.
- Irrigation of lawn areas with hose-end sprinklers or automatic irrigation systems shall be manually set to follow a 2 day watering schedule between the hours of 8pm and 8am
- Use hand held hose, drip irrigation, or soaker hoses for trees, garden, non-turf areas and bedded plants during designated water days and times.
- Use of soaker hoses for foundation protection shall be limited to designated water days and times

Outdoor Measures – Vehicle Washing

- Vehicle washing should be avoided except when conducted with a bucket or hand-held hose with an automatic shutoff device during designated watering days and times (if possible, use a commercial car wash that recycles water).
- Wash vehicles over lawn areas where possible.

Outdoor Measures – Pools and Fountains

- Keep pools covered when not in use.
- Limit pool filter backwashing to only when necessary.
- Utilize supplemental water sources where possible (e.g. purchased water, collected rainwater, etc.).
- Filling or refilling of pools is strongly discouraged. Topping off of existing pools for essential maintenance purposes is acceptable only during designated watering days and times.
- 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.

The following uses of water are defined as nonessential and should be avoided during drought:

- wash down of any sidewalks, walkways, driveways, parking lots, tennis courts, or other hard-surfaced areas;
- use of water to wash down buildings or 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;
- failure to repair a controllable leak(s) within a reasonable period after having been given notice directing the repair of such leak(s); and any waste of water.

Recommended Drought Stage Curtailments

The permittee will adopt the following voluntary curtailments during District declared drought stages:

Stage I Water Conservation	10% curtailment
Stage II Alarm	20% curtailment
Stage III Critical	30% curtailment
Stage IV Exceptional	50% curtailment
Stage V Emergency Response Period	50% curtailment *

* Edwards LPP permittees may be subject to temporary pumpage curtailments during Stage V Emergency Response Drought.

Monthly Drought Curtailment Chart

The following drought chart should be used as a tool to manage your monthly water usage in the event of drought.

Limited Production Permit (LPP) -

Water Use: Domestic or Livestock
Max Permitted Pumpage (GPY): 500,000 UCP Approved in Fiscal Year:

		Recommended Curtailments Pumpage Volume Targets During Drought Stages					
Fiscal Year	Monthly Volume Allocation	No Drought Baseline	Stage I Water Con. Period	Stage II Alarm	Stage III Critical	Stage IV Exceptional	(ERP) Emergency Response Period
		No Reduction	10% Reduction	20% Reduction	30% Reduction	50% Reduction*	50% Reduction*
September	10.00%	50,000	45,000	40,000	35,000	25,000	25,000
October	8.30%	41,500	41,500	33,200	29,050	20,750	20,750
November	7.00%	35,000	35,000	28,000	24,500	17,500	17,500
December	6.30%	31,500	31,500	25,200	22,050	15,750	15,750
January	6.30%	31,500	31,500	25,200	22,050	15,750	15,750
February	6.50%	32,500	32,500	26,000	22,750	16,250	16,250
March	6.60%	33,000	33,000	26,400	23,100	16,500	16,500
April	7.40%	37,000	37,000	29,600	25,900	18,500	18,500
May	8.00%	40,000	36,000	32,000	28,000	20,000	20,000
June	9.50%	47,500	42,750	38,000	33,250	23,750	23,750
July	12.10%	60,500	54,450	48,400	42,350	30,250	30,250
August	12.00%	60,000	54,000	48,000	42,000	30,000	30,000
Annual Totals:	100.00%	500,000	474,200	400,000	350,000	250,000	250,000

** ERP(50%) ERP curtailments to be measured as a rolling 90 day average after the first three months of declared ERP.*
** Edwards Aquifer LPPs only*