DROUGHT CONTINGENCY/WATER CONSERVATION PLAN

2014 REVISION

FOR:

CITY OF PARIS, TEXAS

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PWS No. 1390002

APRIL 2014

ORDINANCE NO. 2014-007

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF PARIS, TEXAS, ADOPTING A REVISED AND CONSOLIDATED DROUGHT CONTINGENCY/WATER CONSERVATION PLAN IN ACCORDANCE WITH THE REQUIREMENTS OF SECTIONS 11.1271 AND 11.1272 OF THE TEXAS WATER CODE AND APPLICABLE RULES OF THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY AND TITLE 30, TEXAS ADMINISTRATIVE CODE, CHAPTER 288, SUB-CHAPTERS A AND B; MAKING OTHER FINDINGS AND PROVISIONS RELATED TO THE SUBJECT; REPEALING ALL PRIOR DROUGHT CONTINGENCY AND WATER CONSERVATION PLANS IN CONFLICT HEREWITH; MAKING OTHER FINDINGS AND PROVISIONS RELATED TO THE SUBJECT; PROVIDING A REPEALER CLAUSE, A SEVERABILITY CLAUSE, A SAVINGS CLAUSE, A PENALTY CLAUSE; AND PROVIDING AN EFFECTIVE DATE.

WHEREAS, Section 11.1272 of the Texas Water Code and applicable rules of the Texas Commission on Environmental Quality require all public water supply systems in Texas to prepare and maintain a drought contingency plan; and,

WHEREAS, Section 11.1271 of the Texas Water Code and applicable rules of the Texas Commission on Environmental Quality require the holder of an existing permit, certified filing, or certificate of adjudication for the appropriation of surface water in the amount of 1,000 acre-feet a year or more for municipal, industrial, and other uses to develop, submit, and implement a water conservation plan, consistent with the appropriate approved regional water plan, that adopts reasonable water conservation measures as defined by Subdivision (8)(B), Section 11.002, which defines "conservation" as those practices, techniques, and technologies that will reduce the consumption of water, reduce the loss or waste of water, improve the efficiency in the use of water, or increase the recycling and reuse of water so that a water supply is made available for future or alternative uses; and,

WHEREAS, the City of Paris, Texas recognizes that the amount of water available to the City and its water utility customers is limited and subject to depletion during periods of extended drought; and,

WHEREAS, the City of Paris' Drought Contingency and Water Conservation Plans were last updated in 2009; and,

WHEREAS, maintaining a clean, reliable supply of potable water is essential to the health, safety, and welfare of the citizens of the City of Paris; and,

WHEREAS, following public hearing and opportunity for public comment on the 2014 Drought Contingency/Water Conservation Plan, this plan was brought forward for City Council approval; and,

WHEREAS, in order to preserve the City's water supply, comply with the requirements of State law, and in the interest of preserving the health, safety, and welfare of the citizens of Paris, Texas, the City Council of the City of Paris deems it necessary and appropriate to establish certain rules and policies for conservation of the City's water supply and for the orderly and efficient management of limited water supplies during drought and other water supply emergencies, in the form of a revised and consolidated Drought Contingency/Water Conservation plan for both retail and wholesale water customers, as the same are defined herein;

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF PARIS, TEXAS:

Section 1. That the findings set out in the preamble to this ordinance are hereby in all things approved.

Section 2. Articles IV and V of Chapter 34 of the Code of Ordinances of the City of Paris, Texas, are hereby amended and consolidated into a new Article IV "Drought Contingency Plan/Water Conservation Plan" to read in its entirety as follows:

"Article IV. Drought Contingency/Water Conservation Plan

DIVISION ONE – Drought Contingency Plan

Sec. 34-150 Declaration of Policy, Purpose, and Intent

In order to conserve the available water supply and protect the integrity of water supply facilities, with particular regard for domestic water use, sanitation, and fire protection, and to protect and preserve public health, welfare, and safety and minimize the adverse impacts of water supply shortage or other water supply emergency conditions, the City of Paris hereby adopts the following Article and Drought Contingency/Water Conservation Plan, providing regulations and restrictions on the delivery and consumption of water.

Water uses regulated or prohibited under this Drought Contingency/Water Conservation Plan (the Plan) are considered to be non-essential and continuation of such uses during times of water shortage or other emergency water supply conditions are deemed to constitute a waste of water which subjects the offender(s) to penalties as defined in Section 34-160 of this Article.

Sec. 34-151 Public Involvement

Opportunity for the public to provide input into the preparation of the Plan was provided by the City of Paris by means of public notices published on the City's website and public meetings regarding implementation of the Plan.

Sec. 34-152 Drought Contingency Public Education

The City of Paris will periodically provide the public with information about the Plan, including information about the conditions under which each stage of the Plan is to be initiated or terminated and the drought response measures to be implemented in each stage. This information will be provided by means of press releases and utility bill inserts.

Sec. 34-153 Coordination with Regional Water Planning Groups

The service area of the City of Paris is located within the Northeast Texas Region D Water Planning Group and City of Paris will provide a copy of this Plan to the Northeast Texas Region D Water Planning Group.

Sec. 34-154 Authorization

The City Manager of the City of Paris or designee is hereby authorized and directed to implement the applicable provisions of this Plan upon determination that such implementation is necessary to protect public health, safety, and welfare. The City Manager or designee will have the authority to initiate or terminate drought or other water supply emergency response measures as described in this Plan.

Sec. 34-155 Application

The provisions of this Article will apply to all retail and wholesale water customers utilizing water provided by the City of Paris.

Sec. 34-156 Definitions

For the purposes of this Plan, the following definitions will apply:

(a) *Aesthetic water use.* Water use for ornamental or decorative purposes such as fountains, reflecting pools, and water gardens.

(b) *Commercial and institutional water use.* Water use that is integral to the operations of commercial and non-profit establishments and governmental entities such as retail establishments, hotels and motels, restaurants, and office buildings.

(c) *Conservation.* Those practices, techniques, and technologies that reduce the consumption of water, reduce the loss or waste of water, improve the efficiency in the use of water or increase the recycling and reuse of water so that a supply is conserved and made available for future or alternative uses.

(d) *Customer.* Any person, company, or organization using water supplied by City of Paris.

(e) *Domestic water use.* Water use for personal needs or for household or sanitary purposes such as drinking, bathing, heating, cooking, sanitation, or for cleaning a residence, business, industry, or institution.

(f) *Even number address*. Street addresses, box numbers, or rural postal route numbers ending in 0, 2, 4, 6, or 8 and locations without addresses.

(g) *Industrial water use*. The use of water in processes designed to convert materials of lower value into forms having greater usability and value.

(h) *Landscape irrigation use*. Water used for the irrigation and maintenance of landscaped areas, whether publicly or privately owned, including residential and commercial lawns, gardens, golf courses, parks, and rights-of-way and medians.

(i) *Non-essential water use*. Water uses that are neither essential nor required for the protection of public, health, safety, and welfare, including:

(1) Irrigation of landscape areas, including parks, athletic fields, and golf courses, except otherwise provided under this Plan;

(2) Use of water to wash any motor vehicle, motorbike, boat, trailer, airplane or other vehicle;

(3) Use of water to wash down any sidewalks, walkways, driveways, parking lots, tennis courts, or other hard-surfaced areas;

(4) Use of water to wash down buildings or structures for purposes other than immediate fire protection;

(5) Flushing gutters or permitting water to run or accumulate in any gutter or street;

(6) Use of water to fill, refill, or add to any indoor or outdoor swimming pools or jacuzzi-type pools;

(7) Use of water in a fountain or pond for aesthetic or scenic purposes except where necessary to support aquatic life;

(8) Failure to repair a controllable leak(s) within a reasonable period after having been given notice directing the repair of such leak(s); and

(9) Use of water from hydrants for construction purposes or any other purposes other than firefighting.

(j) *Odd numbered address*. Street addresses, box numbers, or rural postal route numbers ending in 1, 3, 5, 7, or 9.

(k) *Person*. A term including individuals, corporations, partnerships, associations, companies, organizations, or other legal entity.

(l) *Retail Water Customer*. A water customer of the City of Paris (as that person is defined herein) that utilizes the water purchased from the City for its own purposes and does not supply water to another person or entity for resale for human consumption.

(m) *Wholesale Water Customer.* Any individual, corporation, partnership, association, person, company, or organization purchasing or using water supplied by the City of Paris, Texas, that, in return for compensation, supplies water to another person or entity for resale for human consumption. The term does not include a person or entity that supplies water to itself or its employees or tenants as an incident of that employee's service or tenancy when that water is not resold to or used by others. For the purposes of this Article, the word "customer" and the phrase "wholesale water customer" will have the same meaning.

Sec. 34-157 Criteria for Initiation and Termination of Drought Response Stages

(a) General

The City Manager or designee will monitor water supply and/or demand conditions to determine when conditions warrant initiation or termination of each stage of the Plan. The City Manager or designee may decide not to order the implementation or termination of a drought response stage or water emergency even though one or more of the trigger events for a stage are met. Factors that could influence such a decision include, but are not limited to, the time of year, weather conditions, the anticipation of replenished water supplies, or the anticipation of potential changed conditions that warrant the continuation of the drought stage.

The triggering criteria and responses described below are based on analysis of rainfall data, lake capacities, historical drought conditions, and information from the Drought Contingency Plan for Lake Crook and Pat Mayse Lake and as prepared by the Department of the Army, Tulsa District of the Corps of Engineers.

The USGS and Corps of Engineers electronically monitor levels in Lake Crook and Pat Mayse Lake, respectively.

(b) Stage 1 Triggers - Mild Drought Conditions

(1) Requirements for initiation - Retail and wholesale water customers will be requested to voluntarily conserve water and adhere to the prescribed restrictions on certain water uses, defined in Section 34-158 of this Article for Stage 1, when any one of the following triggering events exists:

a. When the water supply available to the City of Paris is equal to or less than seventy percent (70%) of the Conservation pool in Pat Mayse Lake and Lake Crook combined; or

b. When there exists a high water demand on the system; or

c. When water production and/or distribution system limitations exist.

(2) Requirements for termination - Stage 1 of the Plan may be rescinded when all of the conditions listed as triggering events have ceased to exist.

(c) Stage 2 Triggers - Moderate Drought Conditions

(1) Requirements for initiation – Retail and wholesale water customers will be required to comply with the requirements and restrictions on certain non-essential water uses provided in Section 34-158 of this Article for Stage 2 when any one of the following triggering events exists:

a. When the water supply available to the City of Paris is equal to or less than sixty percent (60%) of the Conservation pool in Pat Mayse Lake and Lake Crook combined; or

b. When total daily water demand equals or exceeds thirty-two (32) million gallons for seven (7) consecutive days; or

c. When total daily water demand equals or exceeds thirty-six (36) million gallons for three (3) consecutive days; or

d. When water production and/or distribution system limitations exist.

(2) Requirements for termination - Stage 2 of the Plan may be rescinded when all of the conditions listed as triggering events have ceased to exist. Upon termination of Stage 2, Stage 1 becomes operative.

(d) Stage 3 Triggers – Severe Drought Conditions

(1) Requirements for initiation – Retail and wholesale water customers will be required to comply with the requirements and restrictions on certain non-essential water uses provided in Section 34-158 of this Article for Stage 3 when any one of the following triggering events exists:

a. When the water supply available to the City of Paris is equal to or less than fifty percent (50%) of the Conservation pool in Pat Mayse Lake and Lake Crook combined; or

b. When total daily water demand equals or exceeds thirty-four (34) million gallons for fourteen (14) consecutive days; or

c. When total daily water demand equals or exceeds thirty-six (36) million gallons for six (6) consecutive days; or

d. When water production and/or distribution system limitations exist.

(2) Requirements for termination - Stage 3 of the Plan may be rescinded when all of the conditions listed as triggering events have ceased to exist. Upon termination of Stage 3, Stage 2 becomes operative.

(e) Stage 4 Triggers – Emergency Drought Conditions

(1) Requirements for initiation – Retail and wholesale water customers will be required to comply with the requirements and restrictions on certain non-essential water uses provided in Section 34-158 of this Article for Stage 4 when any one of the following triggering events exists:

a. When the water supply available to the City of Paris is equal to or less than forty percent (40%) of the Conservation pool in Pat Mayse Lake and Lake Crook combined; or

b. When total daily water demand equals or exceeds thirty-five (35) million gallons for twenty-one (21) consecutive days; or

c. When total daily water demand equals or exceeds thirty-six (36) million gallons for nine (9) consecutive days; or

b. When major water production or distribution system limitations exist; or

c. When there is contamination, natural or man-made, of the water supply source(s); or

d. When system outage occurs due to failure of major water systems components, major water line breaks, electrical power failures, or pump or system failures which cause unprecedented loss of capability to provide water service.

(2) Requirements for termination - Stage 4 of the Plan may be rescinded when all of the conditions listed as triggering events have ceased to exist. Upon termination of Stage 4, Stage 3 becomes operative.

Sec. 34-158 Drought Response Stages

(a) General

The City Manager or designee shall monitor water supply and/or demand conditions on a daily basis and, in accordance with the triggering criteria set forth in Section 34-157 of this Article, shall determine that a mild, moderate, severe, or emergency water shortage condition exists. The following notification procedures will be implemented:

(1) Notification of the Public – The City Manager or designee will notify the public by means of publication in a newspaper of general circulation, public service announcements, and signs posted in public places.

(2) Additional Notification – The City Manager or designee will notify directly, or cause to be notified directly, the following individuals and entities:

Mayor and City Council
City Fire Chief
City and County Emergency Management Coordinator(s)
County Judge & Commissioner(s)
Municipal Court Judge
Texas Commission on Environmental Quality (TCEQ), Water Supply Division
Department of Public Safety Division of Emergency Management
Major industrial and wholesale water users
Critical water users, e.g. hospitals, dialysis centers

(b) Stage 1 Response - Mild Drought Conditions

(1) Target - Achieve a voluntary ten percent (10%) reduction in daily water demand.

(2) Best Management Practices for Supply Management – measures to be implemented directly by the City of Paris to manage limited water supplies and/or reduce water demand will include: reduced or discontinued flushing of water mains, use of reclaimed water for non-potable purposes, stringent operation of the Water Treatment Plant concerning filter backwashing, and discontinuing all outside wash-down activities.

(3) Voluntary Water Use Restrictions for Reducing Demand

a. Retail water customers are requested to voluntarily limit the watering of landscaped areas to the following time periods: for customers with street addresses ending in an even number (0, 2, 4, 6, or 8) times for watering are Sundays and Thursday mornings from midnight until 10:00 a.m. and evenings from 6:00 p.m. until midnight. For customers with a street address ending in an odd number (1, 3, 5, 7 or 9), times for watering are Wednesday and Saturday mornings from midnight until 10:00 a.m. and evenings from 6:00 p.m. until midnight.

b. All operations of the City of Paris will adhere to water use restrictions prescribed for Stage 2 of the Plan.

c. Retail water customers are requested to practice water conservation and to minimize or discontinue water use for non-essential purposes.

d. Wholesale customers are requested to implement voluntary Stage 1 – Mild Drought Conditions of their drought contingency plan and notify their water customers.

(c) Stage 2 Response - Moderate Drought Conditions

(1) Target - Achieve a twenty percent (20%) reduction in daily water demand.

(2) Best Management Practices for Supply Management - measures to be implemented directly by the City of Paris to manage limited water supplies and/or reduce water demand will include: reduced or discontinued flushing of water mains, use of reclaimed water for non-potable purposes, stringent operation of the Water Treatment Plant concerning filter backwashing, and discontinuing all outside wash-down activities.

(3) Water Use Restrictions for Demand Reduction - Under threat of penalty for violation, the following water use restrictions will apply to all persons:

a. Irrigation of landscaped areas with hose-end sprinklers or automatic irrigation systems will be limited to the following time periods: for customers with street addresses ending in an even number (0, 2, 4, 6 or 8) times for watering are Sunday and Thursday mornings from midnight until 10:00 a.m. and evenings from 6:00 p.m. until midnight. For customers with street addresses ending in an odd number (1, 3, 5, 7, or 9) times for watering are Wednesday and Saturday mornings from midnight until 10:00 a.m. and evenings from 6:00 p.m. until midnight. 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, drip irrigation system or soaker hoses.

b. 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 6:00 p.m. and 12:00 midnight. Such washing, when allowed, will be done with a hand-held bucket or a hand-held hose equipped with a positive shutoff nozzle for quick rises. 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 exempt from these regulations if the health, safety, and welfare of the public are contingent upon frequent vehicle cleansing, such as garbage trucks and vehicles used to transport food and perishables.

c. 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 6:00 p.m. and 12:00 midnight.

d. 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.

e. Use of water from hydrants will 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 City of Paris.

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

g. The following uses of water are defined as non-essential and are prohibited:

(i) Wash down of any sidewalks, walkways, driveways, parking lots, tennis courts, or other hard-surfaced areas;

(ii) Use of water to wash down buildings or structures for purposes other than immediate fire protection;

(iii) Use of water for dust control;

(iv) Flushing gutters or permitting water to run or accumulate in any gutter or street; and

(v) Failure to repair a controllable leak(s) within a reasonable period after having been given notice directing the repair of such leak(s).

h. Wholesale customers are requested to implement mandatory Stage 2 – Moderate Drought Conditions of their drought contingency plan and notify their water customers.

(d) Stage 3 Response - Severe Drought Conditions

(1) Target - Achieve a thirty percent (30%) reduction in daily water demand.

(2) Best Management Practices for Supply Management - measures to be implemented directly by the City of Paris to manage limited water supplies and/or reduce water demand will include: reduced or discontinued flushing of water mains, use of reclaimed water for non-potable purposes, stringent operation of the Water Treatment Plant concerning filter backwashing, and discontinuing all outside wash-down activities.

(3) Water Use Restrictions for Reducing Demand - All requirements of Stage 2 will remain in effect during Stage 3 except:

a. Irrigation of landscaped areas will be limited to the following time periods: for customers with street addresses ending in an even number (0, 2, 4, 6 or 8) times for watering are Thursday evenings from midnight until 10:00 a.m. For customers with street addresses ending in an odd number (1, 3, 5, 7, or 9) times for watering are Wednesday from midnight until 10:00 a.m. Watering will be by means of hand-held hoses, hand-held buckets, drip irrigation system

or soaker hoses only. The use of hose-end sprinklers or permanently installed automatic sprinkler systems are prohibited at all times.

b. Use of water to wash any motor vehicle, motorbike, boat, trailer, airplane or other vehicle not occurring on the premises of a commercial car wash and commercial service stations and not in the immediate interest of public health, safety, and welfare is prohibited. Further, such vehicle washing at commercial car washes and commercial service stations will occur only between the hours of 6:00 a.m. and 10:00 a.m. and between 6:00 p.m. and 10 p.m.

c. The filling, refilling, or adding of water to swimming pools, wading pools, and jacuzzi-type pools is prohibited.

d. 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.

e. No application for new, additional, expanded, or increased-in-size water service connections, meters, service lines, pipeline extensions, mains, or water service facilities of any kind will be approved, and time limits for approval of such applications are hereby suspended for such time as this drought response stage or a higher-numbered stage will be in effect.

f. Wholesale customers are requested to implement mandatory Stage 3 – Severe Drought Conditions of their drought contingency plan and notify their water customers.

(e) Stage 4 Response – Emergency Drought Conditions

(1) Target - Achieve a forty percent (40%) reduction in daily water demand.

(2) Best Management Practices for Supply Management - measures to be implemented directly by the City of Paris to manage limited water supplies and/or reduce water demand will include: reduced or discontinued flushing of water mains, use of reclaimed water for non-potable purposes, stringent operation of the Water Treatment Plant concerning filter backwashing, and discontinuing all outside wash-down activities. Elevated tank levels will be operated within minimum operating ranges in order to reduce system-wide pressure and still maintain adequate fire protection.

(3) Water Use Restrictions for Reducing Demand. All requirements of Stage 2 and 3 will remain in effect during Stage 4 except:

a. Irrigation of landscaped areas is absolutely prohibited.

b. Use of water to wash any motor vehicle, motorbike, boat, trailer, airplane or other vehicle is absolutely prohibited.

c. Wholesale customers are requested to implement mandatory Stage 4 – Emergency Drought Conditions of their drought contingency plan and notify their water customers.

d. Pro rata curtailment of water deliveries to wholesale water customers as provided in the Texas Water Code, §11.039 *.

e. The City will consider implementing water usage surcharge(s) for excessive use.

Sec. 34-159 Water Allocation

In the event of an identified water shortage, the City will distribute water to wholesale customers according to Texas Water Code, §11.039 and initiate water allocation to municipal allocation to municipal water customers. The City of Paris will include a provision in every wholesale water contract entered into or renewed after adoption of the Plan, including contract extensions, that in case of a shortage of water resulting from drought, the water to be distributed shall be divided in accordance with Texas Water Code, §11.039 *.

*** Texas Water Code, § 11.039. DISTRIBUTION OF WATER DURING SHORTAGE**

(a) If a shortage of water in a water supply not covered by a water conservation plan prepared in compliance with Texas Natural Resource Conservation Commission [Now known as Texas Commission on Environmental Quality] or Texas Water Development Board rules results from drought, accident, or other cause, the water to be distributed shall be divided among all customers pro rata, according to the amount each may be entitled to, so that preference is given to no one and everyone suffers alike.

(b) If a shortage of water in a water supply covered by a water conservation plan prepared in compliance with Texas Natural Resource Conservation Commission [Now known as Texas Commission on Environmental Quality] or Texas Water Development Board rules results from drought, accident, or other cause, the person, association of persons, or corporation owning or controlling the water shall divide the water to be distributed among all customers pro rata, according to:
(1) The amount of water to which each customer may be entitled; or
(2) The amount of water to which each customer may be entitled, less the amount of water the customer would have saved if the customer had operated its water system in compliance with the water conservation plan.

(c) Nothing in Subsection (a) or (b) precludes the person, association of persons, or corporation owning or controlling the water from supplying water to a person who has a prior vested right to the water under the laws of this state.

Sec. 34-160 Enforcement

(a) No person will knowingly or intentionally allow the use of water from the City of Paris for residential, commercial, industrial, agricultural, governmental, or any other purpose in a

manner contrary to any provision of this Plan, or in an amount in excess of that permitted by the drought response stage in effect at the time pursuant to action taken by City Manager or designee, in accordance with provisions of this Plan.

(b) That any person violating any provision of this ordinance shall be guilty of a misdemeanor, and upon conviction, shall be subject to a fine in accordance with the provisions of Section 1-6 of Chapter 1 of the City of Paris Code of Ordinances, which states, "violation of any such provision of this Code or any such ordinance shall be punished by a fine not exceeding two thousand dollars ($2,000.00) in all cases arising under ordinances governing fire safety, zoning, or public health and sanitation, including dumping of refuse, and not exceeding five hundred dollars ($500.00) in all other cases; provided however, that no penalty shall be greater or less than the penalty provided for the same or a similar offense under the laws of the state", and each and every day's continuance of any violation of the above-enumerated sections shall constitute and be deemed a separate offense. If a person is convicted of three or more distinct violations of this Article, the City Manager shall, upon due notice to the customer, be authorized to discontinue water service to the premises where such violations occur. Services discontinued under such circumstances will be restored only upon payment of a re-connection charge, hereby established at $50.00, and any other costs incurred by the City of Paris in discontinuing service. In addition, suitable assurance must be given to the City Manager that the same action will not be repeated while the Plan is in effect. Compliance with this Article may also be sought through injunctive relief in a court of appropriate jurisdiction, and the City Attorney is hereby authorized to seek such relief on behalf of the City.

(c) Any person, including a person classified as a water customer of the City of Paris in apparent control of the property where a violation occurs or originates will be presumed to be the violator, and proof that the violation occurred on the person's property will constitute a rebuttable presumption that the person in apparent control of the property committed the violation, but any such person will have the right to show that he/she did not commit the violation. Parents will be presumed to be responsible for violations of their minor children and proof that a violation, committed by a child, occurred on property within the parents' control will constitute a rebuttable presumption that the parent committed the violation, but any such parent may be excused if they prove they had previously directed the child not to use the water as it was used in violation of this Article and that the parent could not have reasonably known of the violation.

(d) Any employee of the City of Paris, police officer, or other employee designated by the City Manager, may issue a citation to a person he/she reasonably believes to be in violation of this Article. The citation will be prepared in duplicate and will contain the name and address of the alleged violator, if known, the offense charged, and will direct the violator to appear in the City of Paris Municipal Court on the date shown on the citation for which the date will not be less than three (3) days nor more than five (5) days from the date the citation was issued. The alleged violator will be served a copy of the citation. Service of the citation will be complete upon delivery of the citation to the alleged violator, to an agent or employee of a violator, or to a person over fourteen (14) years of age who is a member of the violator's immediate family or is a resident of the violator's residence. The alleged violator will appear in Municipal Court to enter a plea of guilty or not guilty for the violation

of this Plan. If the alleged violator fails to appear in Municipal Court, a warrant for the violator's arrest may be issued. A summons to appear may be issued in lieu of an arrest warrant. These cases will be expedited and given preferential setting in Municipal Court before all other cases.

Sec. 34-161 Variances

(a) The City Manager or designee, 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, sanitation, or fire protection for the public or the person requesting such variance and if one or more of the following conditions are met:

(1) 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.

(2) Alternative methods can be implemented which will achieve the same level of reduction in water use.

(b) Persons requesting an exemption from the provisions of this Ordinance will file a petition for variance with the City of Paris within five (5) days after the Plan or a particular drought response stage has been invoked. All petitions for variances will be reviewed by the City Manager or designee, and will 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 Ordinance.
(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.

(c) Variances granted by the City of Paris will be subject to the following conditions, unless waived or modified by the City Manager or designee:

(1) Variances granted will include a timetable for compliance.
(2) Variances granted will expire when the Plan is no longer in effect, unless the petitioner has failed to meet specified requirements.

(d) No variance will be retroactive or otherwise justify any violation of this Plan occurring prior to the issuance of the variance.

DIVISION TWO – Water Conservation Plan

Sec. 34-162 Water Conservation Plan

Water conservation is a strategy or combination of strategies for reducing the volume of water withdrawn from a water supply source, reducing loss or waste of water, maintaining or improving the efficiency of water use, increasing the recycling and reuse of water, and preventing the pollution of water.

Sec. 34-163 Introduction

The City of Paris is located in Lamar County, Texas. The residential population was 25,371 in 2013. Currently the City of Paris serves 10,823 connections. The City also provides water to two (2) wholesale customers; Lamar County Water Supply District and Marvin-Jennings-Clardy Water Supply Corporation.

The source of water for the City of Paris is 100% surface water from Pat Mayse Lake and Lake Crook. The City maintains Certificates of Adjudication, Nos. 4640 and 4943, for water rights from Pat Mayse Lake and Lake Crook totaling 37,000 acre-feet per year for municipal purposes and 36,610 acre-feet per year for industrial purposes. The priority dates are November 5, 1964 and May 31, 1922 respectively.

Water is treated by the City's water treatment plant originally built in 1967 and expanded in 1995. The plant has a treatment capacity of 36 million gallons per day (MGD). The City has a total of 14.5 million gallons of potable water storage capacity, with 4 million gallons of the total capacity contained in elevated storage.

Industrial is the primary retail water use for the City. In 2012, nearly 75% of retail water metered was for industrial use. Single-family residential accounted for 14%, commercial 9%, and institutional 2% of water use in 2012. There are no agricultural uses of water for the City, however there is an application pending with the Texas Commission on Environmental Quality to authorize agricultural use for sale to Daisy Farms. The City's billing software combines commercial and multi-family residential use.

Sec. 34-164 Utility Profile

The Certificate of Convenience and Necessity No. for the City of Paris is 10480; The Public Water Supply No. is 1390002; The Texas Water Development Board Regional Water Planning Group is Region D; The utility is located in Lamar County, Texas; The service area covers 38.12 square miles; Pat Mayse Lake and Lake Crook are the water sources; Pumping capacity is 42 MGD; Treatment capacity is 36 MGD; Storage capacity is 14.5 million gallons; Wastewater treatment capacity is 7.25 MGD; Annual water reuse volume is between 5 and 17 million gallons. A completed Utility Profile for Retail Water Suppliers that includes information regarding population and customer data, water use data, water supply system data, and

wastewater system data for the City of Paris will be submitted with this Plan to the Texas Commission on Environmental Quality and the Texas Water Development Board.

Sec. 34-165 Water Conservation Goals

Due to the level of industrial use for the City of Paris, the total gallons per customer per day (GPCD) metric is disproportionate and largely not influenced by residential water use. The level of industrial use is independent of population, climate and behavioral factors and instead based primarily upon the economic drivers of the individual industries. As a result, meaningful 5 and 10-year conservation goals for total GPCD are not possible to obtain. The total GPCD for 2009 was 381; 2010 was 417; 2011 was 402; 2012 was 431; and 2013 was 427.

Despite multi-family water use being combined with commercial use is the City's billing system the level of single-family residential use in the City of Paris, between 49 and 63 GPCD, is already well below the combined single and multi-family GPCDs of most public water suppliers in Texas. As a result, there is less potential for water savings, which includes water restrictions, at the residential level than would be seen in a typical water system in Texas. Residential GPCD in 2009 was 49; 2010 was 55; 2010 was 63; 2012 was 56; and 2013 was 54. The residential GPCD goal for 2014 is 55; 2019 is 53; and 2024 is 50.

Sec. 34-166 Water Conservation Public Education

The City of Paris conducts ongoing public and wholesale customer education through periodic distribution of water conservation brochures and information; providing water conservation brochures and materials at the Department of Utilities administration office and other public places; informational presentations conducted by City staff to local organizations, schools and civic groups; providing information to local media outlets, e.g. the local newspaper, television and radio outlets; posting water conservation information on the City website; and providing water conservation information to applicants for new service.

Sec. 34-167 Metering Devices

The City of Paris meters 100% of water used for residential, industrial, commercial and institutional accounts. Meters are tested upon customer request and in conjunction with the City's meter testing, repair and replacement program master meters are tested and calibrated annually to within an accuracy of plus or minus 5%; meters larger than 3" are tested and calibrated annually in accordance with AWWA standards; meters are routinely replaced based upon the age of the meter or abnormally high or low water usage readings; all new meters are touch read or automatic reading; inactive accounts are identified on a monthly basis and are inspected periodically for illegal connections; abandoned meters are removed.

Sec. 34-168 Water Loss

The City of Paris maintains an active program for leak detection and repair. Currently water loss for the City is calculated to be 5%. The City's 5 and 10-year goals are to maintain water loss at 5% or less.

A periodic internal water audit measures water loss by comparing water volumes sold to metered water diversion. Any abnormalities are investigated by Department of Utilities personnel using leak detection equipment. Water lines determined to have leaks are either replaced or repaired as quickly as practical by City crews or, if necessary, by licensed private contractors.

In 2012 the City repaired 475 leaks; 6 production meters were tested; 10 meters larger than one and one-half inches (1.5") were replaced; and 431 meters smaller than one and one-half inches (1.5") were replaced as part of the ongoing leak detection and repair program and to aid in the reduction of water loss.

Elevated and ground storage facilities are monitored by the water treatment plant SCADA system capable of alerting personnel to changes of water levels in the storage tanks, which would indicate possible breaks in a water main, tank overflows, and/or other abnormalities in the distribution system.

Visual inspections are performed routinely by meter readers and Utilities staff. When meter readings are obtained that indicate unusually high water usage City personnel investigate the cause of the excessive usage and, if necessary, alert the customer of potential plumbing issues, e.g. plumbing fixture leaks.

Sec. 34-169 Water Rates

The City of Paris has a uniform rate structure. The City contracts with a rate consultant to perform an annual rate study to maintain cost-based rates. Demand charges discourage the excessive use of water

Sec. 34-170 Cross Connection Control

The City of Paris maintains a cross connection control program, as required by the State of Texas. Risk of backflow is reduced when steps are taken to ensure that system pressures are maintained during periods of emergency repairs and also through periodic Customer Service Inspections for cross connections. Facilities and structures identified as high hazards to public health are required to install backflow prevention devices to prevent back siphonage of non-potable water caused by loss of pressure in water lines. Examples of potential cross connections include hose bibs, toilet float valves, swimming pools, water features, and irrigation sprinkler systems.

Sec. 34-171 Plumbing Fixtures

In accordance with the plumbing codes approved for Texas the City of Paris has adopted the international plumbing code, all new construction must comply with the code by using water saving plumbing fixtures. In addition, the State of Texas has recently adopted more stringent water saving performance measures for plumbing fixtures, which may be reviewed in the Texas Health and Safety Code Chapter 372. The following maximum flow standards are listed in the Texas Administrative Code, Title 30, Chapter 290, Sub-chapter G: faucets – 2.2 gallons per

minute (gpm); shower heads – 2.5 gpm; pre-rinse spray valves – 1.6 gpm; toilets – 1.28 gallons per flush (gpf); urinals – 0.5 gpf.

Service taps will not be given to customers that do not meet the City's requirements for service, including compliance with the adopted plumbing code requirement of installing water conserving plumbing fixtures. The City of Paris Code Enforcement inspects all new and repaired plumbing within the city limits. Certificates of Occupancy and permanent water service are not granted to facilities that fail to meet all requirements.

Customers in existing buildings that do not have water saving plumbing fixtures are provided educational materials and encouraged to retrofit their old plumbing fixtures with lower gpm and gpf standards. Increasing numbers of water efficient clothes and dish washing machines are available, providing the same performance while using less water. A water efficient home can save as much as 20% or more of water through the use of water saving plumbing fixtures.

Sec. 34-172 Water Waste

The wasting of water is discouraged at all times, and prohibited during activation of the City's drought plan. Water waste is defined as failure to repair controllable leaks to irrigation systems, plumbing fixtures, and pipes; operating an irrigation system with a broken or missing head, or a head that is out of adjustment; and during landscape irrigation allowing water to run off of the property due or pond due to over watering, and watering between the hours of 10:00 a.m. and 6:00 p.m.

Sec. 34-173 Discretionary and Non-Essential Uses

Examples of discretionary and non-essential uses are washing down hard-surfaced areas or structures, (e.g. vehicles, sidewalks, patios); using water for landscape irrigation; using water for dust control; using water in a fountain, pool, or water feature.

Sec. 34-174 Wholesale Contracts

The City of Paris will include in every wholesale water supply contract entered into or renewed after official adoption of the Plan and including any contract extension the requirement that each successive wholesale customer develop and implement a water conservation plan or water conservation measures using the applicable elements of this chapter. If the customer intends to resell the water, the contract between the initial supplier and customer must provide that the contract for the resale of water must have water conservation requirements so that each successive customer in the resale of the water will be required to implement water conservation measures in accordance with the provisions of 30 TAC Chapter 288.

Section 3. That the repeal of any ordinance or part of ordinances affected by the enactment of this ordinance shall not be construed as abandoning any action now pending under or by virtue of such ordinance or as discontinuing, abating, modifying, or altering any penalty accruing or to accrue, or as affecting any rights of the municipality under any section or provisions of any ordinance at the time of passage of this ordinance.

Section 4. That it is the intention of the City Council of the City of Paris, Texas that this ordinance, and every provision hereof, shall be considered severable, and the invalidity or partial invalidity of any section, clause, or provisions of this ordinance shall not affect the validity of any other portion of this ordinance.

Section 5. That any person violating any provision of this ordinance shall be guilty of a misdemeanor, and upon conviction, shall be subject to a fine in accordance with provisions of Sec. 1–6 of Chapter One of the City of Paris Code of Ordinances, and each and every day's continuance of any violation of the above-enumerated sections shall constitute and be deemed a separate offense.

Section 6. That this ordinance shall become effective from and after its passage of the reading and publication as required by law.

PASSED AND ADOPTED on reading this 28th day of April, 2014.

A.J. Hashmi, M.D., Mayor

ATTEST:

Janice Ellis, City Clerk

APPROVED AS TO FORM:

W. Kent McIlyar, City Attorney

Texas Commission on Environmental Quality

Water Conservation Implementation Report
Public Water Supplier

This five year report must be completed by entities that are required to submit a water conservation plan to the TCEQ in accordance with Title 30 Texas Administrative Code, Chapter 288. Please complete this report and submit it to the TCEQ. If you need assistance in completing this form, please contact the Resource Protection Team in the Water Availability Division at (512) 239-4691.

CONTACT INFORMATION

Name of Entity: City of Paris

Public Water Supply Identification Number (PWS ID):1390002
CCN numbers:10480; 20190
Water Right Permit numbers: 4940, 4943
Wastewater ID numbers: 10479-002

Check all that apply:
- ☒ Retail Public Water Supplier
- ☒ Wholesale Public Water Supplier

Address: P.O. Box 9037 City: Paris, TX Zip Code75461-9037

Email: dharris@paristexas.gov Telephone Number: (903) 784-2464

Regional Water Planning Group: D

Groundwater Conservation District: N/A

Form Completed By: Rodney Brashier Title: Environmental Services Supervisor

Signature: Rodney L. Brashier Date: 3/13/2014

Contact information for the person or department responsible for implementing the water conservation plan:

Name: Rodney Brashier Phone: (903) 784-2464 Email: rbrashier@paristexas.gov

Report Completed on Date: 3/13/2014

Reporting Period (**check only one**):
- ☐ Fiscal Period Begin: Period End:
- ☒ Calendar Period Begin: January 2009 Period End: December 2013

Please check all of the following that apply to your entity:

☒ A surface water right holder of 1,000 acre-feet/year or more for non-irrigation uses
☐ A surface water right holder of 10,000 acre-feet/year or more for irrigation uses

Important
If your entity meets the following description, please skip page 3 and go directly to page 4.

Your entity is a Wholesale Public Water Supplier that ONLY provides wholesale water services for public consumption. For example, you only provide wholesale water to other municipalities or water districts.

Water Use Accounting

Retail Water Sold: *All retail water sold for public use and human consumption.*

Helpful Hints: There are two options available for you to provide the requested information. Both options ask the same information; however, the level of detail and break down of information differs between the two options. Please select just one option that works best for your entity and fill in the fields as completely as possible.

Fields that are gray are entered by the user. Select fields that are white and press F9 to updated fields.

For the five-year reporting period, enter the gallons of **RETAIL water sold** in each major water use category. Use **only one** of the following options.

Option 1

Water Use Category*	Gallons Sold
Single Family Residential	2,588,575,956
Multi-Family Residential	0
TOTAL Residential Use[1]	2,588,575,956
Industrial	13,408,710,108
Commercial	1,625,425,461
Institutional	373,440,700
TOTAL Retail Water Sold[2]	**17,996,152,225**

1. [SF Res +MF Res = Residential Use]
2. [Res +Ind +Com +Ins = Retail Water Sold]

Option 2

Water Use Category *	Gallons Sold
Residential Select all of the sectors that your account for as "Residential" ☐Single Family ☐ Multi-Family	
Commercial Please select all of the sectors that your account for as "Commercial". ☐ Commercial ☐ Multi-Family ☐ Industrial ☐ Institutional	
Industrial Please select all of the sectors that your account for as "Industrial". ☐Industrial ☐ Commercial ☐ Institutional	
Other Please select all of the sectors that your account for as "Other". ☐Commercial ☐Multi-Family ☐ Industrial ☐ Institutional	
TOTAL Retail Water Sold[1]	0.00

1. [Res +Com +Ind + Other = Retail Water Sold]

Wholesale Water Exported: *Wholesale water sold or transferred out of the distribution system.*

For the five-year reporting period, enter the gallons of **WHOLESALE water exported** to each major water use category.

Water Use Category*	**Gallons of Exported Wholesale Water**
Municipal Customers	5,709,059,427
Agricultural Customers	
Industrial Customers	
Commercial Customers	
Institutional Customers	
TOTAL Wholesale Water Exported [1]	**5,709,059,427**

1. [Mun +Agr +Ind +Com +Ins = Wholesale Water Exported]

System Data

Fields that are gray are entered by the user. Select fields that are white and hit F9 to updated fields.

	Total Gallons During the Five-Year Reporting Period
Water Produced: Volume produced from own sources	24,992,450,000
Wholesale Water Imported : Purchased wholesale water imported from other sources into the distribution system	0
Wholesale Water Exported: Wholesale water sold or transferred out of the distribution system (Insert Total Volume calculated on Page 4)	5,709,059,427
TOTAL System Input : Total water supplied to the infrastructure	19,283,390,573 [Produced + Imported – Exported = System Input]
Retail Water Sold : All retail water sold for public use and human consumption (Insert Total Residential Use from Option 1 or Option 2 calculated on Page 3)	17,996,152,225
Other Consumption Authorized for Use but not Sold: - back flushing water - line flushing - storage tank cleaning - golf courses - fire department use - parks - municipal government offices	34,983,480
TOTAL Authorized Water Use: All water that has been authorized for use or consumption.	18,031,135,705 [Retail Water Sold + Other Consumption = Total Authorized]
Apparent Losses – Water that has been consumed but not properly measured (Includes customer meter accuracy, systematic data discrepancy, un- authorized consumption such as theft)	183,280,675
Real Losses – Physical losses from the distribution system prior to reaching the customer destination (Includes physical losses from system or mains, reported breaks and leaks, storage overflow)	1,130,208,318
Unidentified Water Losses	-61,234,125 [System Input- Total Authorized - Apparent Losses - Real Losses = Unidentified Water Losses]
TOTAL Water Loss	1,252,254,868 [Apparent + Real + Unidentified = Total Water Loss]

Targets and Goals

In the table below, please provide the **specific and quantified five and ten-year targets for water savings** listed in your water conservation plan.

Fields that are gray are entered by the user. Select fields that are white and hit F9 to update fields.

Date	Target for: Total GPCD	Target for: Water Loss (expressed in GPCD)	Target for: Water Loss Percentage (expressed in Percentage)
Five-year target date: 12/31/2015	200	9	5%
Ten-year target date: 12/31/2020	197	7	4 %

Are targets in the water conservation plan being met? Yes ☒ No ☐

If these targets are not being met, provide an explanation as to why, including any progress on these targets:

Gallons per Capita per Day (GPCD) and Water Loss

Compare your current gpcd and water loss to the above targets and goals set in your previous water conservation plan.

Total System Input in Gallons	Permanent Population	Current GPCD
19,283,390,573 [Produced + Imported – Exported = System Input]	25,371	416 [(System Input ÷ Permanent Population) /5/ 365]

Permanent Population is the total permanent population of the service area. This includes single family, multi-family, and group quarter populations.

Total Residential Use	Permanent Population	Residential GPCD
2,588,575,956	25,371	56 [(Residential Use ÷ Residential Population) / 5/ 365]

Residential Population is the total residential population of the service area including single & multi-family population.

Total Water Loss	Total System Input in Gallons	Permanent Population	Water Loss calculated in	
			GPCD [1]	Percent [2]
1,252,254,868 [Apparent + Real + Unidentified = Total Water Loss]	19,283,390,573 [Water Produced + Wholesale Imported - Wholesale Exported]	25,371	416	6.5

1. [Total Water Loss ÷ Permanent Population] / 5/ 365 = Water Loss GPCD]
2. [Total Water Loss ÷ Total System Input] x 100 = Water Loss Percentage]

Water Conservation Programs and Activities

As you complete this section, please review your water conservation plan to see if you are making progress towards meeting your stated goals.

Fields that are gray are entered by the user. Select fields that are white and hit F9 to updated fields.

1. Water Conservation Plan

What year did your entity adopt, or revise, their most recent water conservation plan: 2009

Does the plan incorporate Best Management Practices? Yes ☒ No ☐

2. Water Conservation Programs

For the reporting period, please select the types of activities and programs that have been actively administered, and estimate the expense and savings that incurred in implementing the conservation activities and programs for the past five years. Leave the field blank if unknown:

Program or Activity	Estimated Expenses	Estimated Gallons Saved
Conservation Analysis & Planning		
☐ Conservation Coordinator		
☐ Water Survey for Single-Family and Multi-Family Customers		
Financial		
☐ Wholesale Agency Assistance Programs		
☐ Water Conservation Pricing/ Rate Structures		
System Operations		
☒ Water Loss Audits		
☒ Leak Detection		
☒ Universal Metering and Metering Repair		
Landscaping		
☐ Landscape Irrigation Conservation and Incentives		

☐ Athletic Fields Conservation		
☐ Golf Course Conservation		
☐ Park Conservation		
Education & Public Awareness		
☒ School Education		
☐ Public Information		
Rebate, Retrofit, and Incentive Programs		
☐ Conservation Programs for ICI Accounts		
☐ Residential Clothes Washer Incentive Program		
☐ Water Wise Landscape Design and Conversion Programs		
☐ Showerhead, Aerator, and Toilet Flapper Retrofit		
☐ Residentiál Toilet Replacement Programs		
☐ Rainwater Harvesting Incentive Program		
☐ ICI Incentive Programs		
Conservation Technology		
☐ Recycling and Reuse Programs (Water or Wastewater Effluent)		
☐ Rainwater Harvesting and Condensate Reuse Programs		
Regulatory and Enforcement		
☐ Prohibition on Wasting Water		
TOTAL	$ 0.00	0

3. Reuse (Water or Wastewater Effluent)

For the reporting period, please provide the following data regarding the types of direct and indirect reuse activities that were administered for the past five years:

Reuse Activity	Estimated Volume (in gallons)
On-site irrigation	
Plant wash down	41,515,417
Chlorination/de-chlorination	
Industrial	
Landscape irrigation (parks, golf courses)	
Agricultural	
Other, please describe:	
Estimated Volume of Recycled or Reuse	41,515,417

4. Water Savings

For the five-year reporting period, estimate the total savings that resulted from your overall water conservation activities and programs?

Estimated Gallons Saved (Total from Conservation Programs Table)	**Estimated Gallons Recycled or Reused** (Total from Reuse Table)	**Total Volume of Water Saved** [1]	**Dollar Value of Water Saved** [2]
	41,515,417	41,515,417	$61,303.80

1. [Estimated Gallons Saved + Estimated Gallons Recycled or Reused = Total Volume Saved]
2. Estimate this value by taking into account water savings, the cost of treatment or purchase of your water, and any deferred capital costs due to conservation.

5. Conservation Pricing / Conservation Rate Structures

During the five-year reporting period, have your rates or rate structure changed? Yes ☒ No ☐

Please indicate the type of rate pricing structures that you use:

☒ Uniform rates	☐ Water Budget Based rates	☐ Surcharge - seasonal
☐ Flat rates	☒ Excess Use Rates	☐ Surcharge - drought
☐ Inclining/ Inverted Block	☐ Drought Demand rates	☒ Surcharge - usage demand
☐ Declining Block rates	☐ Tailored rates	
☐ Seasonal rates		

6. Public Awareness and Education Program

For the five-year reporting period, please check the appropriate boxes regarding any public awareness and educational activities that your entity has provided:

	Implemented	**Number/Unit**
Example: Brochures Distributed	☐	*10,000/year*
Example: Educational School Programs	☐	*50 students/month*
Brochures Distributed	☐	
Messages Provided on Utility Bills	☐	
Press Releases	☐	
TV Public Service Announcements	☐	
Radio Public Service Announcements	☐	
Educational School Programs	☒	9/year
Displays, Exhibits, and Presentations	☒	6/year
Community Events	☐	

Social Media campaigns	☐	
Facility Tours	☒	6/year
Other :	☐	

7. Leak Detection

During the five-year reporting period, how many leaks were repaired in the system or at service connections: 1,780

Please check the appropriate boxes regarding the main cause of water loss in your system during the reporting period:

☒ Leaks and breaks
☐ Un-metered utility or city uses
☐ Master meter problems
☐ Customer meter problems
☐ Record and data problems
☐ Other:
☐ Other:

8. Universal Metering and Meter Repair

For the five-year reporting period, please provide the following information regarding meter repair:

	Total Number	Total Tested	Total Replaced
Production Meters	6	24	0
Meters larger than 1 ½"	276	56	49
Meters 1 ½ or smaller	10,109	0	1,926

Does your system have automated meter reading? Yes ☒ No ☐

9. Conservation Communication Effectiveness

In your opinion, how would you rank the effectiveness of your conservation activities in reaching the following types of customers for the past five years?

	Do not have activities or programs that target this type customer.	Less Than Effective	Somewhat Effective	Highly Effective
Residential Customers	☐	☐	☒	☐
Industrial Customers	☐	☐	☒	☐
Institutional Customers	☐	☐	☒	☐
Commercial Customers	☐	☐	☒	☐
Agricultural Customers	☒	☐	☐	☐

10. Drought Contingency and Emergency Water Demand Management

During the five-year reporting period, did you implement your Drought Contingency Plan?

Yes ☐ No ☒

If yes, indicate the number of days that your water use restrictions were in effect:

If yes, please check all the appropriate reasons for your drought contingency efforts going into effect.

☐ Water Supply Shortage	☐ Equipment Failure
☐ High Seasonal Demand	☐ Impaired Infrastructure
☐ Capacity Issues	☐ Other:

If you have any questions on how to fill out this form or about the Water Conservation program, please contact us at 512/239-4691.

Individuals are entitled to request and review their personal information that the agency gathers on its forms. They may also have any errors in their information corrected. To review such information, contact us at 512-239-3282.

Texas Water Development Board

UTILITY PROFILE FOR RETAIL WATER SUPPLIER

Fill out this form as completely as possible.
If a field does not apply to your entity, leave it blank.

CONTACT INFORMATION

Name of Utility: City of Paris

Public Water Supply Identification Number (PWS ID): 1390002

Certificate of Convenience and Necessity (CCN) Number: 10480; 20190

Surface Water Right ID Number: 4940, 4943

Wastewater ID Number: 10479-002

Completed By: Rodney Brashier Title: E. S. Supervisor

Address: P.O. Box 9037 City: Paris, TX Zip Code: 75461

Email: rbrashier@paristexas.gov Telephone Number: (903) 784-2464

Date: 3/13/2014

Regional Water Planning Group: D Map

Groundwater Conservation District: N/A Map

Check all that apply:

- ☐ Received financial assistance of $500,000 or more from TWDB
- ☑ Have 3,300 or more retail connections
- ☑ Have a surface water right with TCEQ

Section I: Utility Data

A. Population and Service Area Data

1. Current service area size in square miles: 38
(Attach or email a copy of the service area map.)

2. Provide historical service area population for the previous five years, starting with the most current year.

Year	Historical Population Served By Retail Water Service	Historical Population Served By Wholesale Water Service	Historical Population Served By Wastewater Service
2009	26,972	22,329	26,972
2010	25,371	22,329	25,371
2011	25,371	22,329	25,371
2012	25,371	22,329	25,371
2013	25,371	22,329	25,371

3. Provide the projected service area population for the following decades.

Year	Projected Population Served By Retail Water Service	Projected Population Served By Wholesale Water Service	Projected Population Served By Wastewater Service
2020	30,190	23,300	30,190
2030	32,192	24,166	32,192
2040	34,194	25,143	34,194
2050	34,194	24,734	34,194
2060	34,194	24,325	34,194

4. Describe the source(s)/method(s) for estimating current and projected populations.

Population projections were obtained from the Northeast Texas (Region D) 2011 Regional Water Plan.

B. System Input

Provide system input data for the previous five years.

Total System Input = Self-supplied + Imported – Exported

Year	Self-supplied Water in Gallons	Purchased/Imported Water in Gallons	Exported Water in Gallons	Total System Input	Total GPCD
2009	4,769,688,000	0	1,016,077,868	3,753,610,132	381
2010	4,978,617,000	0	1,118,328,047	3,860,288,953	417
2011	5,013,622,000	0	1,288,844,545	3,724,777,455	402
2012	5,148,972,000	0	1,161,844,676	3,987,127,324	431
2013	5,081,551,000	0	1,123,964,291	3,957,586,709	427
Historic 5-year Average	4,998,490,000	0	1,141,811,885	3,856,678,115	412

C. Water Supply System (Attach description of water system)

1. Designed daily capacity of system 36,000,000 **gallons** per day.
2. Storage Capacity:
   Elevated 4,000,000 **gallons**
   Ground 105,000,000 **gallons**
3. List all current water supply sources in gallons.

Water Supply Source	Source Type*	Total Gallons
Pat Mayse Reservoir	Surface	11,929,405,110
Lake Crook	Surface	3,910,212,000
	Choose One	
	Choose One	
	Choose One	
	Choose One	

*Select one of the following source types: *Surface water, Groundwater, or Contract*

4. If surface water is a source type, do you recycle backwash to the head of the plant?
   - (●) Yes 800,000 estimated **gallons** per day
   - ( ) No

D. 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	25,371	3,815,290,980
2015	26,174	3,936,097,249
2016	26,978	4,056,877,954
2017	27,781	4,177,658,658
2018	28,584	4,298,439,363
2019	29,387	4,419,220,068
2020	30,190	4,539,972,200
2021	30,390	4,570,108,352
2022	30,591	4,600,214,428
2023	30,791	4,630,320,504

2. Describe sources of data and how projected water demands were determined. Attach additional sheets if necessary.

Population was projected by extrapolating population data from the Northeast Texas (Region D) Regional Water Plan. Water demands were projected using the previous 5-year average GPCD of 412.

E. 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.

Retail Customer	Water Use Category*	Annual Water Use	Treated or Raw
Lamar Power Partners	Industrial	1,263,859,000	Raw
Campbell Soup	Industrial	1,115,558,999	Treated
Daisy Dairy	Industrial	187,719,700	Treated
Kimberly-Clark	Industrial	87,600,437	Treated
Direct Energy	Industrial	86,368,000	Treated

*For definitions on recommended customer categories for classifying customer water use, refer to the online Guidance and Methodology for Reporting on Water Conservation and Water Use.

2. If applicable, list the annual water use for the five highest volume **WHOLESALE customers.** Select one of the following water use categories to describe the customer; choose Municipal, Industrial, Commercial, Institutional, or Agricultural.

Wholesale Customer	Water Use Category*	Annual Water Use	Treated or Raw
Lamar County WSD	Municipal	1,116,490,000	Treated
MJC WSC	Municipal	7,474,291	Treated
	Choose One		Choose One
	Choose One		Treated
	Choose One		Choose One

*For definitions on recommended customer categories for classifying customer water use, refer to the online Guidance and Methodology for Reporting on Water Conservation and Water Use.

F. Utility Data Comment Section

Provide additional comments about utility data below.

Section II: System Data

A. Retail Connections

1. 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	8,932	0	8,932	83%
Residential – Multi-family (units)	0	0	0	0%
Industrial	18	0	18	0%
Commercial	1,857	0	1,857	17%
Institutional	16	0	16	0%
Agricultural	0	0	0	0%
TOTAL	10,823	0	10,823	

*For definitions on recommended customer categories for classifying customer water use, refer to the online Guidance and Methodology for Reporting on Water Conservation and Water Use.

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

Water Use Category*	Net Number of New Retail Connections				
	2009	2010	2011	2012	2013
Residential – Single Family	-202	-111	167	13	-2
Residential – Multi-family (units)					
Industrial	0	-1	1	-4	2
Commercial	-11	10	12	-10	0
Institutional	0	0	0	0	0
Agricultural					
TOTAL	-213	-102	180	-1	0

*For definitions on recommended customer categories for classifying customer water use, refer to the online Guidance and Methodology for Reporting on Water Conservation and Water Use.

B. Accounting Data

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

Water Use Category*	Total Gallons of Retail Water				
	2009	2010	2011	2012	2013
Residential - Single Family	479,711,270	507,558,095	583,618,186	516,730,624	500,957,781
Residential – Multi-family					
Industrial	2,791,020,085	2,560,586,083	2,556,606,641	2,743,028,769	2,757,468,530
Commercial	318,212,792	333,745,588	318,850,053	333,105,151	321,511,877
Institutional	57,695,174	82,482,440	81,061,305	70,280,429	81,921,352
Agricultural					
TOTAL	3,646,639,321	3,484,372,206	3,540,136,185	3,663,144,973	3,661,859,540

*For definitions on recommended customer categories for classifying customer water use, refer to the online Guidance and Methodology for Reporting on Water Conservation and Water Use.

C. Residential Water Use

For the previous five years, enter the residential GPCD for single family and multi-family units.

Water Use Category*	Residential GPCD				
	2009	2010	2011	2012	2013
Residential - Single Family	49	55	63	56	54
Residential – Multi-family					

D. 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				
	2009	2010	2011	2012	2013
January	168,857,773	177,561,834	186,010,755	143,149,070	167,912,613
February	144,626,501	140,270,147	151,290,002	139,024,386	154,060,643
March	133,258,833	160,686,440	154,323,213	152,677,155	144,074,040
April	149,461,583	194,426,130	135,156,178	180,767,133	166,049,543
May	184,287,819	203,618,605	198,380,151	210,469,022	187,154,292
June	208,492,564	219,992,762	237,576,103	219,943,995	210,701,268
July	261,024,639	254,791,167	286,508,727	276,208,753	234,970,385
August	241,757,881	292,174,587	260,284,754	267,598,280	277,514,883
September	193,690,298	240,836,284	237,581,682	259,674,642	262,884,739
October	188,043,000	243,886,992	214,522,375	170,495,184	212,975,769
November	196,278,489	179,495,092	150,166,538	180,776,471	194,535,055
December	197,110,941	196,383,212	149,225,779	187,996,883	185,167,310
TOTAL	2,266,890,321	2,504,123,252	2,361,026,257	2,388,780,974	2,398,000,540

2. For the previous five years, enter the gallons of raw water provided to RETAIL customers.

Month	Total Gallons of Raw Retail Water				
	2009	2010	2011	2012	2013
January	81,106,000	63,490,000	79,873,000	140,829,000	117,996,000
February	72,945,000	74,321,000	58,994,000	130,050,000	83,920,000
March	120,173,000	81,180,000	74,631,000	70,123,000	28,523,000
April	70,556,000	123,344,000	96,692,000	52,980,000	109,401,000
May	87,186,000	101,606,000	96,753,000	115,147,000	88,700,000
June	168,994,000	86,612,000	116,230,000	118,232,000	100,893,000
July	183,024,000	93,767,000	132,300,000	143,501,000	169,976,000
August	168,406,000	122,229,000	171,825,000	158,831,000	179,301,000
September	156,792,000	77,882,000	120,879,000	107,659,000	115,953,000
October	119,668,000	59,722,000	91,626,000	94,707,000	82,621,000
November	64,490,000	26,274,000	60,572,000	63,928,000	107,409,000
December	86,409,000	44,861,000	55,319,000	78,377,000	80,067,000
TOTAL	1,379,749,000	955,288,000	1,155,694,000	1,274,364,000	1,264,760,000

3. Summary of seasonal and annual water use.

Water Use	Seasonal and Annual Water Use					Average in Gallons
	2009	2010	2011	2012	2013	
Summer Retail (Treated + Raw)	1,231,699,084	1,069,566,5	1,204,724,584	1,184,315,028	1,173,356,536	1,172,732,350 / 5yr Average
TOTAL Retail (Treated + Raw)	3,646,639,321	3,459,411,2	3,516,720,257	3,663,144,974	3,662,760,540	3,589,735,269 / 5yr Average

E. 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
2009	107,244,811	11	3%
2010	390,820,455	42	10%
2011	202,636,634	22	5%
2012	320,484,016	35	8%
2013	292,303,076	32	7%
5-year average	262,697,798	28	7%

F. Peak Water Use

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

Year	Average Daily Use (gal)	Peak Day Use (gal)	Ratio (peak/avg)
2009	13,067,638	24,558,000	1.88
2010	13,640,047	24,794,000	1.82
2011	13,735,951	23,856,000	1.74
2012	14,106,773	25,626,000	1.82
2013	13,922,058	25,740,000	1.85

G. Summary of Historic Water Use

Water Use Category	Historic 5-year Average	Percent of Connections	Percent of Water Use
Residential SF	517,715,191	83%	0%
Residential MF	0	0%	0%
Industrial	2,681,742,022	0%	1%
Commercial	325,085,092	17%	0%
Institutional	74,688,140	0%	0%
Agricultural	0	0%	0%

H. System Data Comment Section

Provide additional comments about system data below.

Multi-family residences (Apartments, Trailer Parks, etc.) are billed as commercial users by the billing office and are included in that water use category.

Section III: Wastewater System Data

If you do not provide wastewater system services then you have completed the Utility Profile. Save and Print this form to submit with your Plan. Continue with the Water Conservation Plan Checklist to complete your Water Conservation Plan.

A. Wastewater System Data (Attach a description of your wastewater system.)

1. Design capacity of wastewater treatment plant(s): 7,250,000 **gallons** per day.

2. List the active wastewater connections by major water use category.

Water Use Category*	Active Wastewater Connections			
	Metered	Unmetered	Total Connections	Percent of Total Connections
Municipal	7,842	0	7,842	84%
Industrial	14	0	14	0%
Commercial	1,465	0	1,465	16%
Institutional	16	0	16	0%
Agricultural	0	0	0	0%
TOTAL	9,337	0	9,337	

2. What percent of water is serviced by the wastewater system? 86 %

3. For the previous five years, enter the number of gallons of wastewater that was treated by the utility.

Month	Total Gallons of Treated Wastewater				
	2009	2010	2011	2012	2013
January	97,220,000	166,730,000	108,590,000	139,510,000	102,000,000
February	89,620,000	212,500,000	109,670,000	131,150,000	88,710,000
March	133,100,000	178,620,000	100,440,000	159,180,000	95,410,000
April	126,620,000	148,680,000	113,100,000	124,320,000	105,580,000
May	214,780,000	104,190,000	157,030,000	106,640,000	113,680,000
June	92,980,000	91,540,000	86,030,000	85,020,000	88,560,000
July	98,090,000	94,760,000	85,080,000	89,020,000	88,560,000
August	105,140,000	87,560,000	89,450,000	86,670,000	88,320,000
September	124,580,000	105,270,000	81,840,000	82,970,000	89,950,000
October	219,290,000	97,620,000	86,190,000	86,480,000	106,060,000
November	181,630,000	109,350,000	94,410,000	82,740,000	116,190,000
December	146,500,000	99,810,000	135,110,000	91,080,000	133,730,000
TOTAL	1,629,550,000	1,496,630,000	1,246,940,000	1,264,780,000	1,216,750,000

4. Can treated wastewater be substituted for potable water?

○ Yes ◉ No

B. Reuse Data

1. Provide data on the types of recycling and reuse activities implemented during the current reporting period.

Type of Reuse	Total Annual Volume (in gallons)
On-site irrigation	
Plant wash down	8,303,083
Chlorination/de-chlorination	
Industrial	
Landscape irrigation (parks, golf courses)	
Agricultural	
Discharge to surface water	
Evaporation pond	
Other	
TOTAL	8,303,083

C. Wastewater System Data Comment

Provide additional comments about wastewater system data below.

You have completed the Utility Profile. Save and Print this form to submit with your Plan. Continue with the Water Conservation Plan Checklist to complete your Water Conservation Plan.