Texas Commission on Environmental Quality

UTILITY PROFILE AND WATER CONSERVATION PLAN REQUIREMENTS FOR MUNICIPAL WATER USE BY RETAIL PUBLIC WATER SUPPLIERS

This form is provided to assist retail public water suppliers in water conservation plan development. If you need assistance in completing this form or in developing your plan, please contact the conservation staff of the Resource Protection Team in the Water Availability Division at (512) 239-4691.

Name:	TRAVIS COUNTY WCID NO. 17	
Address:	3812 Eck Lane, Austin, TX 78734	
Telephone Number:	(512) -2661111	Fax: (512) -2667290
Water Right No.(s):	N/A	
Regional Water Planning Group:	Region K	
Form Completed by:	DEBORAH S. GERNES	
Title:	GENERAL MANAGER	
Person responsible for implementing conservation program:	DEBORAH S. GERNES	Phone: (512) -2661111
Signature:	Deborah S. Gernes	Date:3/31/2017

NOTE: If the plan does not provide information for each requirement, include an explanation of why the requirement is not applicable.

UTILITY PROFILE

I. POPULATION AND CUSTOMER DATA

A. *Population and Service Area Data*

1. Attach a copy of your service-area map and, if applicable, a copy of your Certificate of Convenience and Necessity (CCN).

2. Service area size (in square miles): Approx. 23

   (Please attach a copy of service-area map)

3. Current population of service area: Approx. 58,000

4. Current population served for:

   a. Water Approx. 34,575 or 11,575 accounts /17,300 LUEs

   b. Wastewater 20,169 or 6,899 accounts

5. Population served for previous five years:

Year	*Population*
2012	31,200
2013	32,600
2014	33,177
2015	33,900
2016	34,000

6. Projected population for service area in the following decades:

Year	*Population*
2020	62,000
2030	67,000
2040	72,000
2050	77,000
2060	82,000

7. List source or method for the calculation of current and projected population size.

   Three (3) times the number of accounts at year end and projected developments under construction, land use, and school demographic studies.

B. *Customers Data*

Senate Bill 181 requires that uniform consistent methodologies for calculating water use and conservation be developed and available to retail water providers and certain other water use sectors as a guide for preparation of water use reports, water conservation plans, and reports on water conservation efforts. A water system must provide the most detailed level of customer and water use data available to it, however, any new billing system purchased must be capable of reporting data for each of the sectors listed below. http://www.tceq.texas.gov/assets/public/permitting/watersupply/water_rights/sb181_guidance.pdf

1. Current number of active connections. Check whether multi-family service is counted as ☒ Residential or ☐ Commercial?

Treated Water Users	*Metered*	*Non-Metered*	**Totals**
Residential	10,977	0	10,977
Single-Family	10,805	0	10,805
Multi-Family	172	0	172
Commercial	409	0	409
Industrial/Mining	1	0	1
Institutional	139	0	139
Agriculture	0	0	0
Other/Wholesale	0	0	0

2. List the number of new connections per year for most recent three years.

Year	2014	2015	2016
Treated Water Users			
Residential	276	287	114
Single-Family	246	242	51
Multi-Family	30	45	63
Commercial	10	10	26
Industrial/Mining	0	0	0
Institutional	0	0	83
Agriculture	0	0	0
Other/Wholesale	0	0	0

3. List of annual water use for the five highest volume customers.

	Customer	*Use (1,000 gal/year)*	*Treated or Raw Water*
1.	Steiner Ranch Apartments	34,050	Treated
2.	Lake Travis ISD	25,234	Treated
3.	Lakeway Regional Medical Center	13,761	Treated
4.	CRSA - Longhorn Village	12,899	Treated
5.	Lake Austin Spa and Resort	12,266	Treated

II. WATER USE DATA FOR SERVICE AREA

A. Water Accounting Data

1. List the amount of water use for the previous five years (in 1,000 gallons). Indicate whether this is ☒ diverted or ☐ treated water.

Year	2012	2013	2014	2015	2016
Month					
January	105,325	137,143	114,481	115,184	134,509
February	109,545	124,105	135,965	86,333	126,097
March	110,639	170,456	119,013	88,310	137,420
April	173,412	171,621	142,492	134,427	168,233
May	258,890	193,421	216,601	129,123	134,243
June	270,442	213,427	169,934	109,605	188,772
July	258,890	215,066	180,320	175,008	269,461
August	239,317	203,865	23,700	250,352	306,905
September	333,535	254,695	231,157	256,005	261,993
October	191,938	186,577	179,663	272,054	230,030
November	236,808	152,557	160,825	148,015	207,852
December	180,613	118,424	113,300	121,167	175,501
Totals	2,425,930	2,141,357	1,996,451	1,884,648	2,341,019

Describe how the above figures were determine (e.g, from a master meter located at the point of a diversion from the source, or located at a point where raw water enters the treatment plant, or from water sales).

Gallons pumped is determined from the master meter at the water plant. Gallons sold is the sum of individual meter readings.

2. Amount of water (in 1,000 gallons) delivered/sold as recorded by the following account types for the past five years.

Year	2012	2013	2014	2015	2016
Account Types					
Residential	1,820,166	1,598,970	1,504,000	1,558,031	1,695,884
Single-Family	1,781,762	1,554,150	1,458,931	1,511,363	1,644,972
Multi-Family	38,374	44,820	45,069	46,668	50,912
Commercial	246,189	237,681	249,241	267,209	321,091
Industrial/Mining	0	0	0	0	0
Institutional	50,014	55,217	52,240	43,306	62,014
Agriculture	0	0	0	0	0
Other/Wholesale	0	0	0	0	0

3. List the previous records for water loss for the past five years (the difference between water diverted or treated and water delivered or sold).

Year	*Amount (gallons)*	*Percent %*
2012	234,188	11.67
2013	184,841	9.50
2014	135,205	7.65
2015	162,791	7.73
2016	204,489	8.83

B. Projected Water Demands

If applicable, attach or cite projected water supply demands from the applicable Regional Water Planning Group for the next ten years using information such as population trends, historical water use, and economic growth in the service area over the next ten years and any additional water supply requirements from such growth.

III. WATER SUPPLY SYSTEM DATA

A. Water Supply Sources

List all current water supply sources and the amounts authorized (in acre feet) with each.

Water Type	*Source*	*Amount Authorized*
Surface Water	Lake Travis - LCRA	8,800
Groundwater	N/A	
Contracts		
Other		

B. Treatment and Distribution System

1. Design daily capacity of system (MGD):22

2. Storage capacity (MGD):
   a. Elevated 6.160
   b. Ground 5.970

3. If surface water, do you recycle filter backwash to the head of the plant?
   ☒ Yes ☐ No If yes, approximate amount (MGD): 1.3 - WCID17 plants use microfiltration membrane technology.

IV. WASTEWATER SYSTEM DATA

A. Wastewater System Data (if applicable)

1. Design capacity of wastewater treatment plant(s) (MGD): Steiner Ranch WWTP (WQ0013294-001) - 1.5 MGD: Comanche Canyon WWTP (No Permit, No Discharge) - 100,000 gal/day : Commander's Point WWTP (WQ0013953-001) - 50,000 gal/day: Flintrock WWTP (WQ0013878-001) - 1.0 MGD

2. Treated effluent is used for ☒ on-site irrigation, ☒ off-site irrigation, for ☒ plant wash-down, and/or for ☒ chlorination/dechlorination.

   If yes, approximate amount (in gallons per month): 33 Million Gallons / Month

3. Briefly describe the wastewater system(s) of the area serviced by the water utility. Describe how treated wastewater is disposed. Where applicable, identify treatment plant(s) with the TCEQ name and number, the operator, owner, and the receiving stream if wastewater is discharged.

   1) Steiner Ranch WWTP (WQ0013294-001) and 2) Flintrock WWTP (WQ0013878-001) are Sequencing Batch Reactor plants. Treated effluent is disposed of on golf courses and landscaping. ALL PLANTS HAVE NO DISCHARGE PERMITS, SEE APPENDIX B. 3)Commanche Canyon WWTP is a standard aeration basin and clarifier with treated effluent pumped to the City of Austin. 4) Commander's Point WWTP (WQ0013953-001) is a sand filtration plant. Treated effluent is disposed of on an eight acre irrigation tract and landscaping.

B. Wastewater Data for Service Area (if applicable)

1. Percent of water service area served by wastewater system: 50 %

2. Monthly volume treated for previous five years (in 1,000 gallons):

Year	2012	2013	2014	2015	2016
Month					
January	30,796	33,133	36,880	42,133	41,892
February	28,960	21,570	32,955	35,444	39,219
March	31,163	31,872	37,067	39,995	43,149
April	30,432	32,350	36,295	38,374	45,102
May	24,641	34,865	39,368	45,663	46,815
June	29,901	32,266	37,593	40,528	42,548
July	31,898	32,802	38,549	39,817	41,800
August	31,874	33,334	36,296	41,932	47,313
September	31,111	33,581	37,047	44.026	43,353
October	32,226	36,213	37,799	44,731	43,734

November	31,008	34,707	38,048	42,189	42,943
December	31,974	36,407	38,797	41,377	42,982
Totals	365,985	393,104	446,694	496,209	520,850

V. ADDITIONAL REQUIRED INFORMATION

In addition to the utility profile, please attach the following as required by Title 30, Texas Administrative Code, §288.2. Note: If the water conservation plan does not provide information for each requirement, an explanation must be included as to why the requirement is not applicable.

A. *Specific, Quantified 5 & 10-Year Targets*

The water conservation plan must include specific, quantified five-year and ten-year targets for water savings to include goals for water loss programs and goals for municipal use in gallons per capita per day. Note that the goals established by a public water supplier under this subparagraph are not enforceable

B. *Metering Devices*

The water conservation plan must include a statement about the water suppliers metering device(s), within an accuracy of plus or minus 5.0% in order to measure and account for the amount of water diverted from the source of supply.

C. *Universal Metering*

The water conservation plan must include and a program for universal metering of both customer and public uses of water, for meter testing and repair, and for periodic meter replacement.

D. *Unaccounted- For Water Use*

The water conservation plan must include measures to determine and control unaccounted-for uses of water (for example, periodic visual inspections along distribution lines; annual or monthly audit of the water system to determine illegal connections; abandoned services; etc.).

E. *Continuing Public Education & Information*

The water conservation plan must include a description of the program of continuing public education and information regarding water conservation by the water supplier.

F. *Non-Promotional Water Rate Structure*

The water supplier must have a water rate structure which is not "promotional," i.e., a rate structure which is cost-based and which does not encourage the excessive use of water. This rate structure must be listed in the water conservation plan.

G. *Reservoir Systems Operations Plan*

The water conservation plan must include a reservoir systems operations plan, if applicable, providing for the coordinated operation of reservoirs owned by the applicant within a common watershed or river basin. The reservoir systems operations plan shall include optimization of water supplies as one of the significant goals of the plan.

H. Enforcement Procedure and Plan Adoption

The water conservation plan must include a means for implementation and enforcement, which shall be evidenced by a copy of the ordinance, rule, resolution, or tariff, indicating official adoption of the water conservation plan by the water supplier; and a description of the authority by which the water supplier will implement and enforce the conservation plan.

I. Coordination with the Regional Water Planning Group(s)

The water conservation plan must include documentation of coordination with the regional water planning groups for the service area of the wholesale water supplier in order to ensure consistency with the appropriate approved regional water plans.

J. Plan Review and Update

A public water supplier for municipal use shall review and update its water conservation plan, as appropriate, based on an assessment of previous five-year and ten-year targets and any other new or updated information. The public water supplier for municipal use shall review and update the next revision of its water conservation plan not later than May 1, 2009, and every five years after that date to coincide with the regional water planning group. The revised plan must also include an implementation report.

VI. ADDITIONAL REQUIREMENTS FOR LARGE SUPPLIERS

Required of suppliers serving population of 5,000 or more or a projected population of 5,000 or more within ten years

A. Leak Detection and Repair

The plan must include a description of the program of leak detection, repair, and water loss accounting for the water transmission, delivery, and distribution system in order to control unaccounted for uses of water.

B. Contract Requirements

A requirement in every wholesale water supply contract entered into or renewed after official adoption of the plan (by either ordinance, resolution, or tariff), and including any contract extension, that each successive wholesale customer develop and implement a water conservation plan or water conservation measures using the applicable elements in 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 the 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 this chapter.

VII. ADDITIONAL CONSERVATION STRATEGIES

A. Conservation Strategies

Any combination of the following strategies shall be selected by the water supplier, in addition to the minimum requirements of this chapter, if they are necessary in order to achieve the stated water conservation goals of the plan. The commission may require by commission order that any of the following strategies be implemented by the water supplier if the commission determines that the strategies are necessary in order for the conservation plan to be achieved:

1. Conservation-oriented water rates and water rate structures such as uniform or increasing block rate schedules, and/or seasonal rates, but not flat rate or decreasing block rates;

2. Adoption of ordinances, plumbing codes, and/or rules requiring water conserving plumbing fixtures to be installed in new structures and existing structures undergoing substantial modification or addition;

3. A program for the replacement or retrofit of water-conserving plumbing fixtures in existing structures;

4. A program for reuse and/or recycling of wastewater and/or graywater;

5. A program for pressure control and/or reduction in the distribution system and/or for customer connections;

6. A program and/or ordinance(s) for landscape water management;

7. A method for monitoring the effectiveness and efficiency of the water conservation plan; and

8. Any other water conservation practice, method, or technique which the water supplier shows to be appropriate for achieving the stated goal or goals of the water conservation plan.

Best Management Practices

The Texas Water Developmental Board's (TWDB) Report 362 is the Water Conservation Best Management Practices (BMP) guide. The BMP Guide is a voluntary list of management practices that water users may implement in addition to the required components of Title 30, Texas Administrative Code, Chapter 288. The Best Management Practices Guide broken out by sector, including Agriculture, Commercial, and Institutional, Industrial, Municipal and Wholesale along with any new or revised BMP's can be found at the following link on the Texas Water Developments Board's website: http://www.twdb.state.tx.us/conservation/bmps/index.asp

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 512-239-3282.

APPENDIX A

Texas Commission on Environmental Quality

Utility Profile – Travis County WCID No. 17

II. Water Use Data for Service Area

B. Projected Water Demands

Year	*Acre Feet*	*Notes*
2014	6,127 Actual	Drought year with severe restrictions
2015	6,400 Actual	Drought year with severe restrictions
2016	7,184 Actual	
2017	7,225	
2018	7,389	
2019	7,553	
2020	7,717	
2021	7,881	

Travis County WCID # 17

Mansfield Microfiltration Water Treatment Plant TP# 410689

D- Zone 1
Daily Grab Samples
Turb, Temp, PH

D- Zone 2
Daily Grab Samples
Turb, Temp, PH

IDE Filtrate Turb.
Continuous Monitoring
Turb Mntu

CFE Filtrate Turb.
Continuous Monitoring
Turb Mntu

D-Zone 3
Daily Grab Samples
Turb, Temp, PH

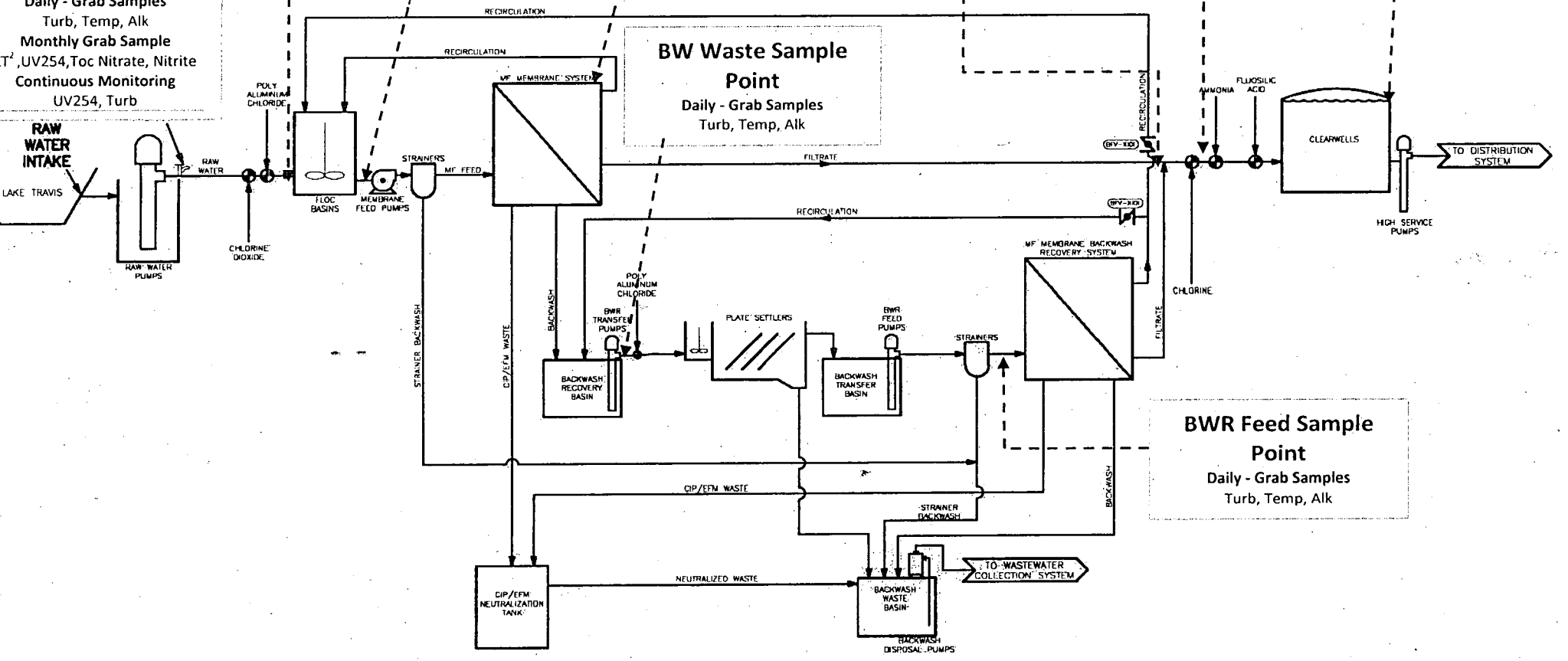
D-Zone 4
Daily Grab Samples
Turb, Temp, PH, Free Cl^2
Continuous Monitoring
Free Cl^2

D-Zone 5
Daily Grab Samples
Turb, Temp, PH, CLA, Mono CLA, Free NH^3 Free Cl^2
Monthly Grab Samples
Nitrate, Nitrite,Toc, UV254
Continuous Monitoring
Total Cl^2, Mono CLA, Free NH^3

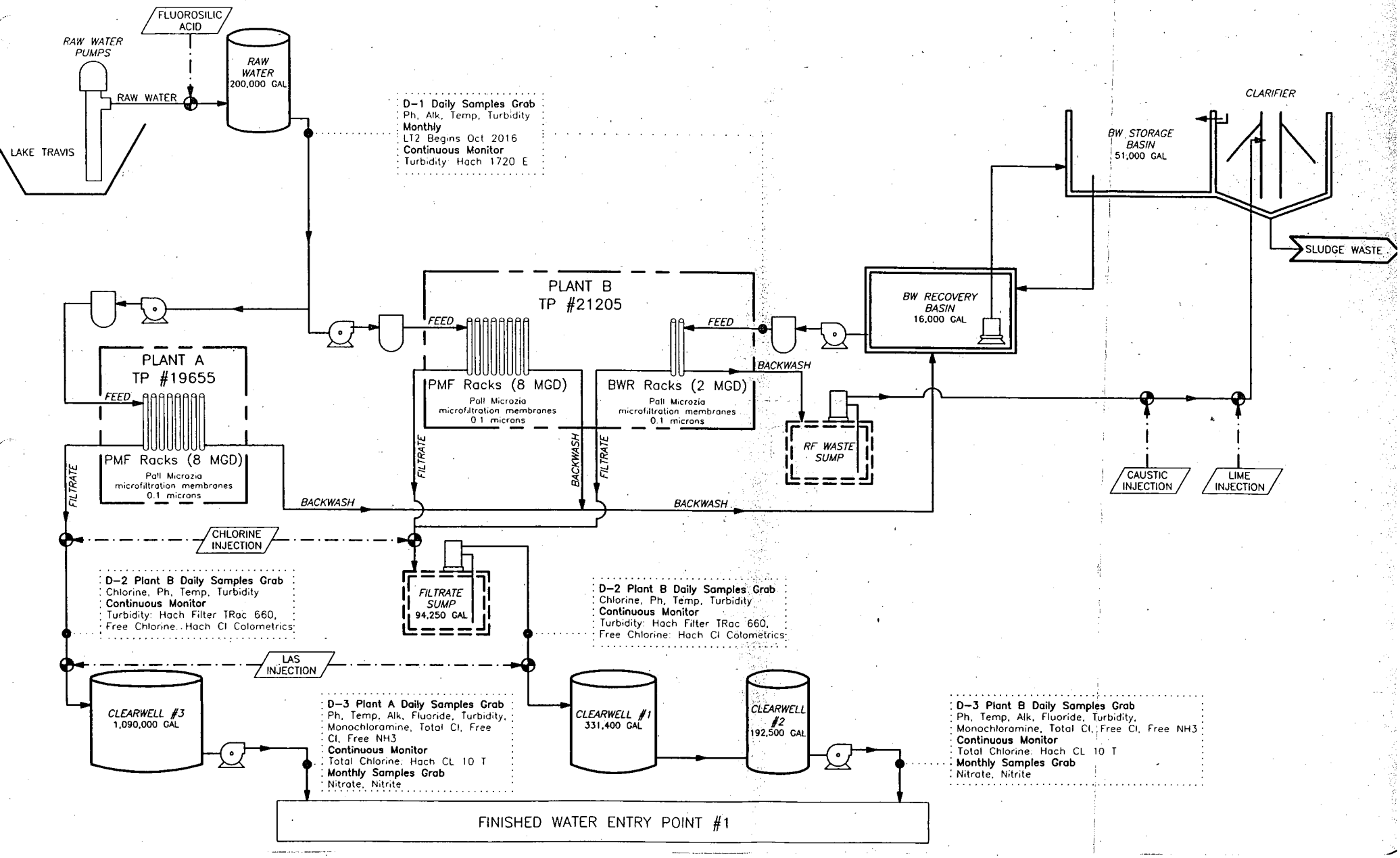
RW Sample Point
Daily - Grab Samples
Turb, Temp, Alk
Monthly Grab Sample
T^2,UV254,Toc Nitrate, Nitrite
Continuous Monitoring
UV254, Turb

BW Waste Sample Point
Daily - Grab Samples
Turb, Temp, Alk

BWR Feed Sample Point
Daily - Grab Samples
Turb, Temp, Alk

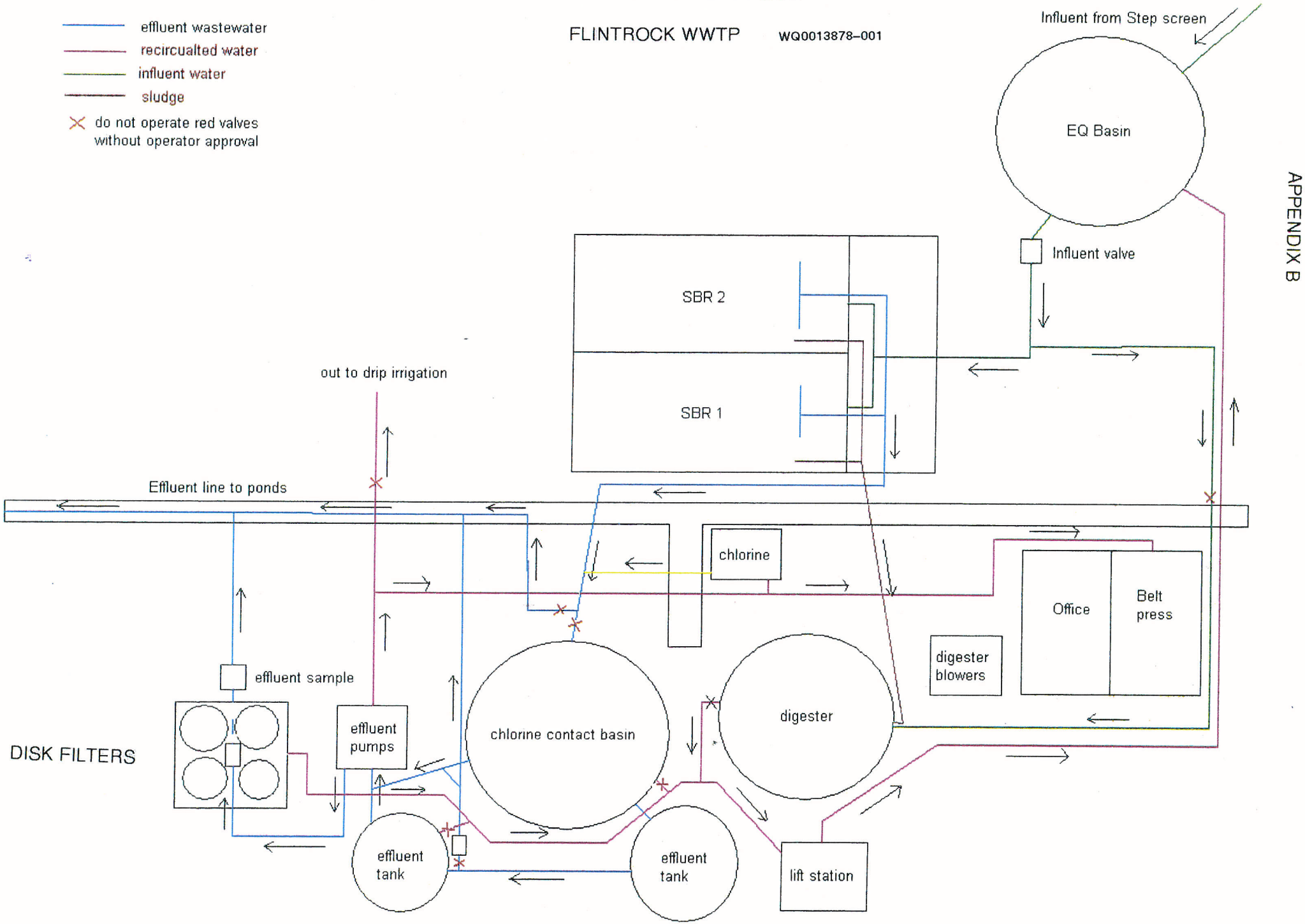


Travis County W.C.&I.D. No. 17
Eck Lane Water Treatment Plant

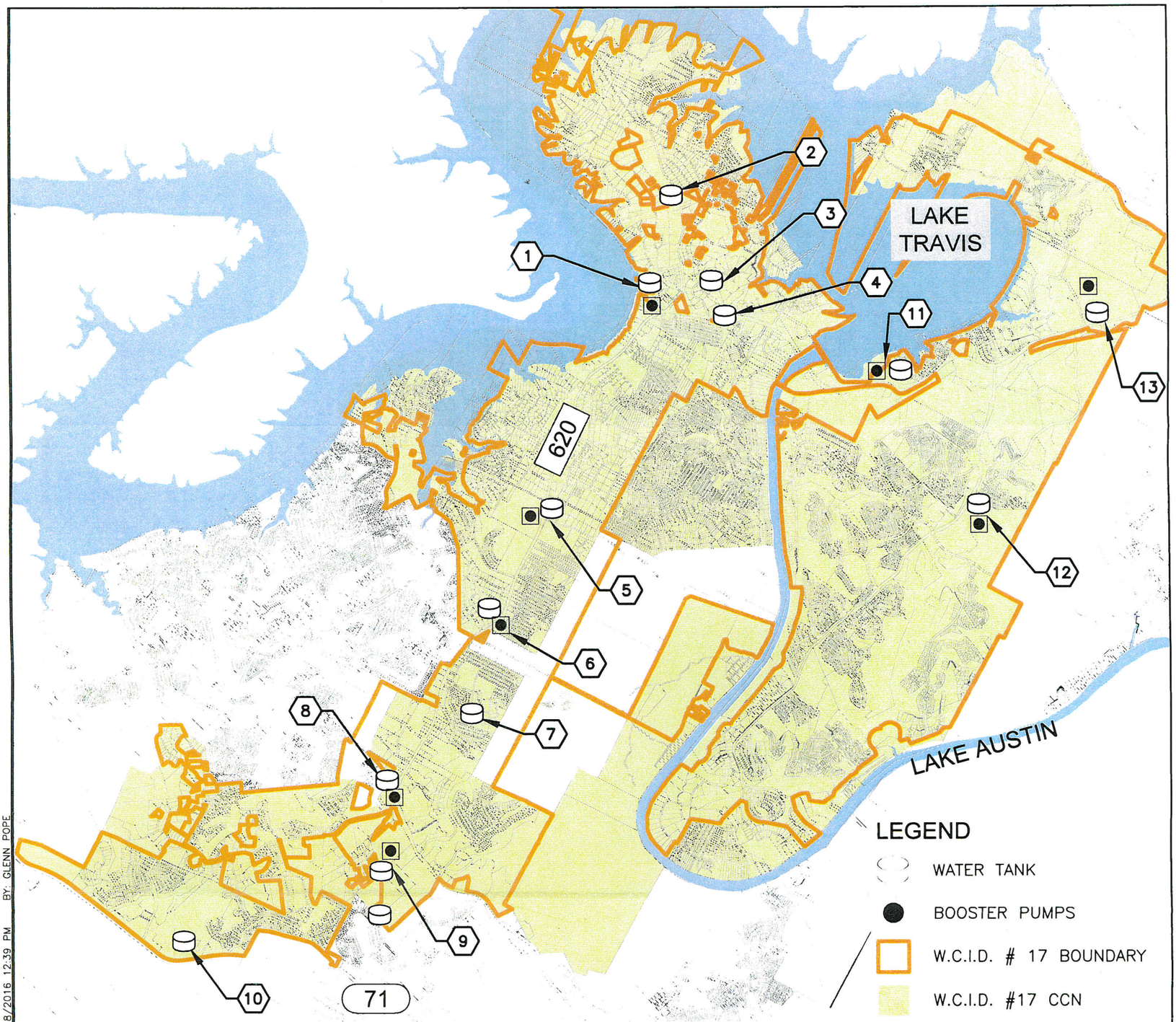


STEINER WW T ATMENT PLANT WQ0013294-001

FLINTROCK WWTP WQ0013878-001



APPENDIX B



1. ECK LN. WATER TREATMENT PLANT
   - TREATMENT CAPACITY: 16 MGD
   - CLEARWELL #1: 330,000 GAL
   - CLEARWELL #2: 209,000 GAL
   - CLEARWELL #3: 1,100,000 GAL
   - HIGH SERVICE PUMPS: 4 @ 2,100 GPM EACH
     4 @ 2,800 GPM EACH
2. HUDSON BEND
   - ELEVATED STORAGE TANK: 300,000 GAL, OVERFLOW = 970
3. McCORMICK MOUNTAIN
   - STANDPIPE: 300,000 GAL, OVERFLOW = 1035
4. MOUNTAIN VIEW
   - ELEVATED STORAGE TANK: 1,000,000 GAL, OVERFLOW = 1040
5. RR 620 STANDPIPE (BIG DAVES)
   - STANDPIPE: 1,200,000 GAL, OVERFLOW = 1040
   - BOOSTER PUMPS: 3 @ 2,000 GPM EACH
6. ROUND MOUNTAIN
   - GROUND STORAGE TANK: 360,000 GAL, OVERFLOW = 980
   - BOOSTER PUMPS: 3 @ 1,200 GPM EACH, 1 @ 3,500 GPM EACH
7. CARDINAL HILLS
   - STANDPIPE: 1,100,000 GAL, OVERFLOW = 1100
8. LOHMANS CROSSING
   - GROUND STORAGE TANK #1: 360,000 GAL
   - GROUND STORAGE TANK #2: 150,000 GAL
   - BOOSTER PUMPS: 4 @ 800 GPM EACH
9. LAKE TRAVIS HIGH SCHOOL
   - STANDPIPE: 300,000 GAL, OVERFLOW = 1200
   - GROUND STORAGE TANK: 1,000,000 GAL, OVERFLOW = 1200
   - BOOSTER PUMPS: 2 @ 1,800 GPM EACH
10. HIGHWAY 71
    - ELEVATED STORAGE TANK: 500,000 GAL, OVERFLOW = 1320
11. MANSFIELD WATER TREATMENT PLANT
    - TREATMENT CAPACITY: 6 MGD
    - CLEARWELL #1: 1,000,000 GAL
    - HIGH SERVICE PUMPS: 4 @ 2,550 GPM EACH
12. STEINER RANCH
    - GROUND STORAGE TANK #1: 500,000 GAL, OVERFLOW = 980
    - GROUND STORAGE TANK #2: 1,500,000 GAL, OVERFLOW = 980
    - BOOSTER PUMPS: 3 @ 2,000 GPM EACH
13. COMANCHE TRAIL
    - GROUND STORAGE TANK #1: 1,000,000 GAL, OVERFLOW = 1130
    - GROUND STORAGE TANK #2: 80,000 GAL, OVERFLOW = 1130
    - ELEVATED STORAGE TANK (PEDESPHERE): 200,000 GAL, OVERFLOW = 1210
    - BOOSTER PUMPS: 2 @ 1,800 GPM EACH

SCALE: 1" = 5000'

0 5000 10000

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TRAVIS COUNTY WATER CONTROL & IMPROVEMENT DISTRICT NO. 17

WATER SERVICE AREA MAP - 2016

SHEET: 1 OF 1