

INTERIM EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTSOutfall Number 001

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>		<u>Min. Self-Monitoring Requirements</u>	
	Daily Avg mg/l	Daily Max mg/l	Report Daily Avg. & Daily Max. Measurement Frequency	Sample Type
Lethal and Sublethal Whole Effluent Toxicity (WET) limits (Parameter 22414) ² <i>Ceriodaphnia dubia</i> (7-day chronic NOEC ¹)	Report	Report	1/quarter	Composite
Lethal and Sublethal Whole Effluent Toxicity (WET) limits (Parameter 22414) ² <i>Pimephales promelas</i> (7-day chronic NOEC ¹)	Report	Report	1/quarter	Composite
Lethal and Sublethal Whole Effluent Toxicity (WET) limits 53% (Parameter 22414) ² <i>Ceriodaphnia dubia</i> (7-day chronic NOEC ¹)	53%	53%	1/quarter	Composite
Lethal and Sublethal Whole Effluent Toxicity (WET) limits 53% (Parameter 22414) ² <i>Pimephales promelas</i> (7-day chronic NOEC ¹)	53%	53%	1/quarter	Composite

¹ The NOEC is defined as the greatest effluent dilution at which no significant effect is demonstrated. A significant effect is defined as a statistically significant difference between a specified effluent dilution and the control for toxicity (lethal or sublethal effects, whichever is specified).

² The WET limits become effective on September 5, 2016.

FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS**Outfall Number 001**

1. During the period beginning upon the date of discharge from the new outfall location (see Attachment A) and lasting through date of expiration, the permittee is authorized to discharge subject to the following effluent limitations:

The annual average flow of effluent shall not exceed 2.13 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 3,000 gpm.

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Min. Self-Monitoring Requirements</u>	
	Daily Avg mg/l (lbs/day)	7-day Avg mg/l	Daily Max mg/l	Single Grab mg/l	Report Daily Avg. & Daily Max. Measurement Frequency	Sample Type
Flow, MGD	Report	N/A	Report	N/A	Continuous	Totalizing Meter
Biochemical Oxygen Demand (5-day)	20 (355)	30	45	65	Two/week	Composite
Total Suspended Solids	20 (355)	30	45	65	Two/week	Composite
<i>E. coli</i> , colony forming units or most probable number per 100 ml	126	N/A	399	N/A	One/week	Grab

2. The effluent shall contain a chlorine residual of at least 1.0 mg/l after a detention time of at least 20 minutes (based on peak flow) and shall be monitored daily by grab sample at each chlorine contact chamber. The permittee shall dechlorinate the chlorinated effluent to less than 0.1 mg/l chlorine residual and shall monitor chlorine residual daily by grab sample after the dechlorination process. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.
3. The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored once per week by grab sample.
4. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.
5. Effluent monitoring samples shall be taken at the following location(s): Following the final treatment unit.
6. The effluent shall contain a minimum dissolved oxygen of 2.0 mg/l and shall be monitored twice per week by grab sample.
7. The annual average flow and maximum 2-hour peak flow shall be reported monthly.



TPDES PERMIT NO. WQ0010277001
[For TCEQ office use only - EPA I.D.
No. TX0022365]

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
P.O. Box 13087
Austin, Texas 78711-3087

This is a renewal that replaces TPDES
Permit No. WQ0010277001 issued on
April 29, 2010.

PERMIT TO DISCHARGE WASTES
under provisions of
Section 402 of the Clean Water Act
and Chapter 26 of the Texas Water Code

City of Seguin

whose mailing address is

205 North River Street
Seguin, Texas 78155

is authorized to treat and discharge wastes from the Walnut Branch Wastewater Treatment
Facility, SIC Code 4952


located at 101 East Klein Street, in Seguin, in Guadalupe County, Texas 78155

directly to the Guadalupe River Below Comal River in Segment No. 1804 of the Guadalupe River
Basin

only according to effluent limitations, monitoring requirements and other conditions set forth in
this permit, as well as the rules of the Texas Commission on Environmental Quality (TCEQ), the
laws of the State of Texas, and other orders of the TCEQ. The issuance of this permit does not
grant to the permittee the right to use private or public property for conveyance of wastewater
along the discharge route described in this permit. This includes, but is not limited to, property
belonging to any individual, partnership, corporation, or other entity. Neither does this permit
authorize any invasion of personal rights nor any violation of federal, state, or local laws or
regulations. It is the responsibility of the permittee to acquire property rights as may be
necessary to use the discharge route.

This permit shall expire at midnight, **February 1, 2020.**

ISSUED DATE: March 13, 2015


For the Commission

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTSOutfall Number 001

1. During the period beginning upon the date of issuance and lasting through the date of expiration the permittee is authorized to discharge subject to the following effluent limitations:

The annual average flow of effluent shall not exceed 4.9 million gallons per day (MGD); nor shall the average discharge during any two-hour period (2-hour peak) exceed 8,333 gallons per minute (gpm).

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>				<u>Min. Self-Monitoring Requirements</u>	
	Daily Avg mg/l (lbs/day)	7-day Avg mg/l	Daily Max mg/l	Single Grab mg/l	Report Daily Avg. & Daily Max. Measurement Frequency	Daily Max. Sample Type
Flow, MGD	Report	N/A	Report	N/A	Continuous	Totalizing Meter
Carbonaceous Biochemical Oxygen Demand (5-day)	10 (409)	15	25	35	Two/week	Composite
Total Suspended Solids	15 (613)	25	40	60	Two/week	Composite
Ammonia Nitrogen	3 (123)	6	10	15	Two/week	Composite
<i>E. coli</i> , CFU or MPN/100 ml	126	N/A	399	N/A	One/week	Grab

2. The effluent shall contain a chlorine residual of at least 1.0 mg/l after a detention time of at least 20 minutes (based on peak flow) and shall be monitored daily by grab sample at each chlorination basin. The permittee shall dechlorinate the chlorinated effluent to less than 0.1 mg/l chlorine residual and shall monitor chlorine residual daily by grab sample after the dechlorination process. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.
3. The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored once per week by grab sample.
4. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.
5. Effluent monitoring samples shall be taken at the following location(s): Following the final treatment unit.
6. The effluent shall contain a minimum dissolved oxygen of 6.0 mg/l and shall be monitored twice per week by grab sample.
7. The annual average flow and maximum 2-hour peak flow shall be reported monthly.

Service Area Total Acre **7329.51**

3.5 LUE/AC Assumption

245 gpd/LUE assumption

3.25 Peaking Factor based upon "*Water Supply and Waste Water Disposal*" - 1st Edition Wiley & Sons

1000 Inflow/Infiltration

Planning Basin	Area	LUEs	ADF	PDWF	PWF
PB 1	666.40	2332.4	571,438	1,857,174	2,523,574
PB 2	274.02	959.1	234,972	763,659	1,037,679
PB 3	437.32	1530.6	375,002	1,218,756	1,656,076
PB 4	456.67	1598.3	391,595	1,272,682	1,729,352
PB 5	562.82	1969.9	482,618	1,568,509	2,131,329
PB 6	286.11	1001.4	245,339	797,353	1,083,463
PB 7	304.99	1067.5	261,529	849,969	1,154,959
PB 8	278.46	974.6	238,779	776,033	1,054,493
PB 9	691.12	2418.9	592,635	1,926,065	2,617,185
PB 10	795.68	2784.9	682,296	2,217,461	3,013,141
PB 11	247.16	865.1	211,940	688,804	935,964
PB 12	478.26	1673.9	410,108	1,332,851	1,811,111
PB 13	336.62	1178.2	288,652	938,118	1,274,738
PB 14	188.50	659.8	161,639	525,326	713,826
PB 15	1189.78	4164.2	1,020,236	3,315,768	4,505,548
PB 16	135.60	474.6	116,277	377,900	513,500
Totals	7329.51	25653.29	6,285,055	20,426,428	27,755,938

Population (P) 5013

Peak Factor 3.243959

$$\text{Peak Factor} = \frac{18 + \sqrt{P}}{4 + \sqrt{P}}$$

Gravity Trunk Main Sizing Calculations -Treatment Option A

WWTP SOUTH TRUNK MAINS

AREA	BEGIN CP	AREA FLOW	PREV FLOW	PIPE FLOW	ENDING CP	REQ SIZE
PB 8		1,114,188	0	1,114,188	CP 5	12"
PB 7		1,220,341	0	1,220,341	CP 5	15"
PB 6	CP 5	1,144,798	2,334,529	3,479,327	CP 6	18"
PB 5		2,251,984	0	2,251,984	CP 4	18"
PB 4	CP 6	1,827,251	3,479,327	5,306,578	CP 7	24"
PB 3	CP 4	1,749,827	2,251,984	4,001,810	CP 7	21"
PB 2		1,096,423	0	1,096,423	RB LS	12"
PB 1		2,666,433	0	2,666,433	WWTP	21"
WWTP INLET	CP 7	0	9,308,388	9,308,388	WWTP	27"

WWTP NORTH TRUNK MAINS

AREA	BEGIN CP	AREA FLOW	PREV FLOW	PIPE FLOW	ENDING CP	REQ SIZE
PB 16		542,570	0	542,570	LS/CP 1	10"
PB 15	CP 1	4,760,607	542,570	5,303,177	CP 2	24"
PB 14		754,236		754,236	LS/CP 2	12"
PB 13	CP 2	1,346,901	6,057,412	7,404,313	WWTP	24"
PB 12	CP 3	1,913,638	5,949,059	7,862,696	WWTP	27"
PB 11		988,949	0	988,949	WWTP	12"
PB 10		3,183,715	0	3,183,715	CP 3	18"
PB 9		2,765,344	0	2,765,344	CP 3	18"

WWTP SOUTH TRUNK MAINS ALTERNATE

AREA	BEGIN CP	AREA FLOW	PREV FLOW	PIPE FLOW	ENDING CP	REQ SIZE
PB 8		1,114,188	0	1,114,188	CP 5	12"
PB 7		1,220,341	0	1,220,341	CP 5	15"
PB 6	CP 5	1,144,798	2,334,529	3,479,327	CP 6	18"
PB 5		2,251,984	16,255,958	18,507,942	CP 4	36"
PB 4	CP 6	1,827,251	3,479,327	5,306,578	CP 7	24"
PB 3	CP 4	1,749,827	18,507,942	20,257,769	CP 7	36"
PB 2		1,096,423	0	1,096,423	RB LS	12"
PB 1		2,666,433	0	2,666,433	WWTP	21"

Sanitary Sewer Flow in Pipe n=0.013					
Pipe Size	Min Slope	Max Slope	Min Flow @ 0.4%	GPD	
10	0.25%	6.23%	505.5	727,898	
12	0.20%	4.88%	822.0	1,183,642	
15	0.15%	3.62%	1,490.3	2,146,086	
18	0.11%	2.83%	2,423.5	3,489,772	
21	0.09%	2.30%	3,655.6	5,264,072	
24	0.08%	1.93%	5,219.2	7,515,657	
27	0.06%	1.65%	7,145.1	10,289,013	
30	0.055%	1.43%	9,463.1	13,626,794	
36	0.045%	1.12%	15,388.0	22,158,669	
42	0.036%	0.91%	23,211.6	33,424,771	

ASSUMPTIONS

AVG SLOPE ACROSS TRUNK MAINS ARE 0.4%

GRAV SEWERS UTILIZE 80% OF TOTAL PIPE AREA

COLLECTION SYSTEM SIZED OFF PWWF

TREATMENT PLANTS SIZED OFF ADF

FLOWS BASED ON TOTAL BASIN AREAS (INCL FLOODPLAIN, NEIGHBORHOODS, ETC)

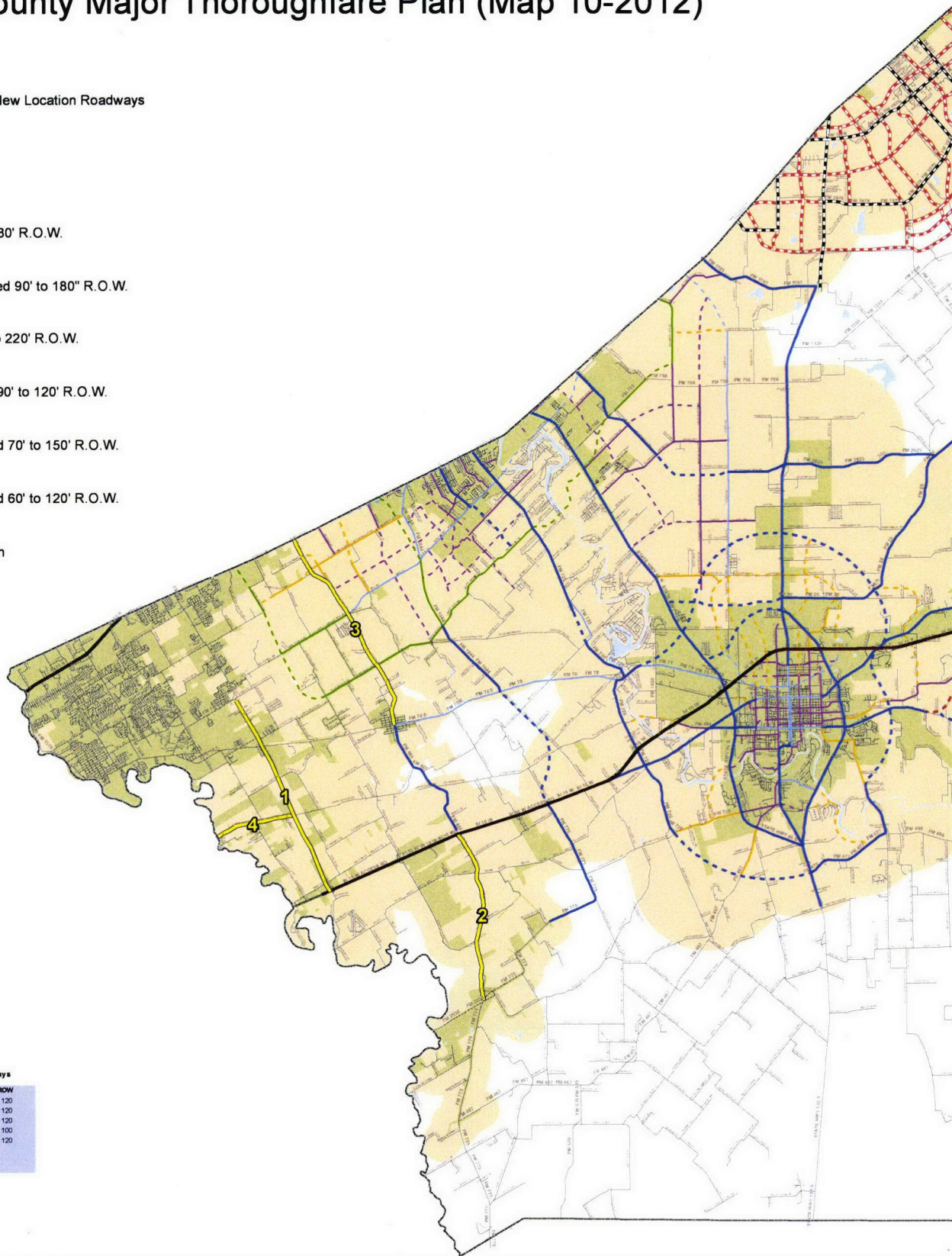
PB 1	2,666,433
PB 2	1,096,423
PB 3	1,749,827
PB 4	1,827,251
PB 5	2,251,984
PB 6	1,144,798
PB 7	1,220,341
PB 8	1,114,188
PB 9	2,765,344
PB 10	3,183,715
PB 11	988,949
PB 12	1,913,638
PB 13	1,346,901
PB 14	754,236
PB 15	4,760,607
PB 16	542,570
Total	29,327,202

PLANT	DESIGN FLOW
WWTP S	2,801,272
WWTP N	3,483,782
TOTAL	6,285,055

Guadalupe County Major Thoroughfare Plan (Map 10-2012)

Legend

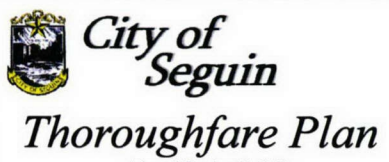
- County Line
- Guadalupe Co. Visioned New Location Roadways
- San Marcos Existing
- San Marcos Proposed
- Interstate
- Expressway
- Expressway - Proposed 180' R.O.W.
- Principal Arterial
- Principal Arterial - Proposed 90' to 180" R.O.W.
- Parkway
- Parkway - Proposed 90' to 220' R.O.W.
- Minor Arterial
- Minor Arterial - Proposed 90' to 120' R.O.W.
- Major Collector
- Major Collector - Proposed 70' to 150' R.O.W.
- Minor Collector
- Minor Collector - Proposed 60' to 120' R.O.W.
- Municipalities
- Extra Territorial Jurisdiction



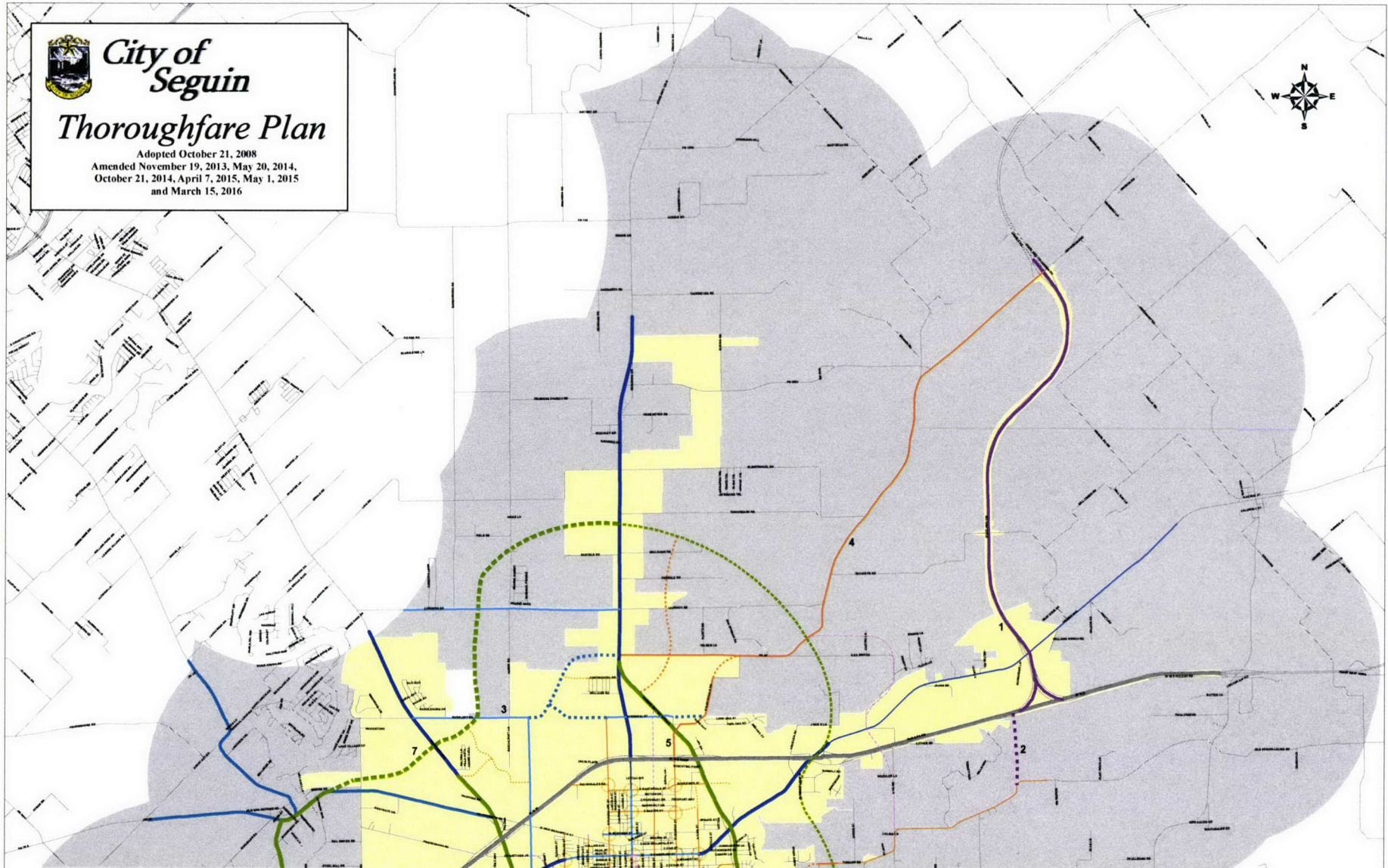
Guadalupe Co. Visioned New Location Roadways

IDZ	Name	ROW
1	FM 1103-4110 Connector	120
2	FM 465-FM 775 Connector	120
3	FM 465-405 Connector	120
4	Lower Seguin Rd-FM 1518 Connector	100
5	SH 130-FM 1117 Connector	120

Produced 10-15-2012



Adopted October 21, 2008
Amended November 19, 2013, May 20, 2014,
October 21, 2014, April 7, 2015, May 1, 2015
and March 15, 2016



ATTACHMENT 'B'
Need for Service Summary

Need for Service Summary

As noted in Attachment 'A', GBRA is tasked with protecting the water resources of the Guadalupe River basin. By providing wastewater service to the proposed area, GBRA can manage water quality within reaches and watersheds of the Guadalupe River basin.

By granting the proposed amended CCN area, GBRA can provide central wastewater service in an economical and environmental friendly manner. This will eliminate the need for new development to install costly septic systems, and will eventually provide existing residents the opportunity to abandon their existing septic system. GBRA has a history of environmental stewardship and is excited to continue that effort in the proposed additional service area. As noted in GBRA's Wastewater Master Plan, the soils in the area are undesirable for onsite septic systems due to low percolation rates.

For the last several months, GBRA has met with the surrounding municipalities including the City of New Braunfels, New Braunfels Utilities (NBU), City of Seguin, Crystal Clear Special Utility District, Springs Hill Water Supply Corporation, and Green Valley Special Utility District. These local municipalities are in support of GBRA providing wastewater service to this area. Copies of the Letters of Support are provided in Attachment 'C' of this application.

ATTACHMENT 'C'
Letters of Support

RESOLUTION 2017-R 29

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF NEW BRAUNFELS, TEXAS, IN SUPPORT OF THE GUADALUPE BLANCO RIVER AUTHORITY (GBRA) APPLYING TO THE PUBLIC UTILITY COMMISSION OF TEXAS FOR AUTHORIZATION TO EXPAND THEIR CERTIFICATE OF CONVENIENCE AND NECESSITY (CCN) TO PROVIDE CENTRALIZED WASTEWATER SERVICES IN AREAS OF NEW BRAUNFELS' CITY LIMITS AND ETJ ON THE EAST SIDE OF THE GUADALUPE RIVER/LAKE DUNLAP.

WHEREAS, the subject expansion area, as depicted on the attached map, is a rapidly developing area between New Braunfels and Seguin; and

WHEREAS, the subject expansion area is not presently served by centralized wastewater services; and

WHEREAS, centralized wastewater services are an important tool for communities to manage growth, development and water quality; and

WHEREAS, centralized wastewater services are an efficient, environmentally sound, and sprawl-reducing alternative to individual septic systems and private package sewer treatment plants; and

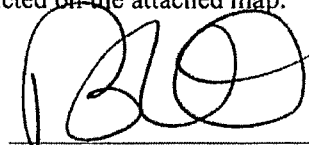
WHEREAS, GBRA's plans for expansion into the subject area do not include sewer lines crossing either above, through or under the Guadalupe River/Lake Dunlap; and

WHEREAS, with approval of GBRA's request by the PUC of Texas current and future residents and business owners in the subject area will have more efficient and reliable wastewater services.

NOW THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF NEW BRAUNFELS, TEXAS:

That the City of New Braunfels supports GBRA's request for expansion of their wastewater/sewer CCN into the subject area as depicted on the attached map.

Passed and approved this the 26th of June, 2017.

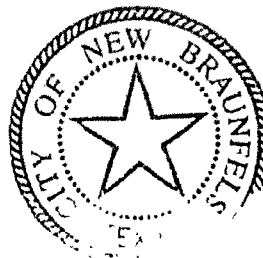


Barron Casteel, Mayor

ATTEST:



Patrick Aten, City Secretary



SPRINGS HILL WATER SUPPLY CORP.

May 30, 2017

Darrell Nichols
Guadalupe-Blanco River Authority
933 E. Court St.
Seguin, Texas 78155

P.W.S. ID. NO.
0940022

P.O. BOX 29
8510 S. 123 BYPASS
SEGUIN, TEXAS 78156

Phone: 830-379-7683
Fax: 830-379-0539
Website:
www.springshill.org

RE: GBRA's application to amend its sewer certificate of convenience and necessity

Dear Mr. Nichols:

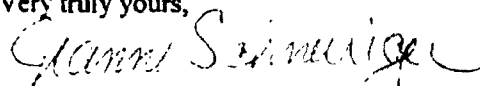
On behalf of Springs Hill Water Supply Corporation, we want to offer our support of the Guadalupe Blanco River Authority's decision to file an application at the Public Utility Commission to amend and expand its sewer certificate of convenience and necessity. It is my understanding that a significant portion of this new area that will be incorporated into GBRA's sewer CCN boundaries overlaps with Springs Hill WSC's current water CCN boundaries; and, thus, the membership of Springs Hill is impacted by this application.

Local governments and other retail water and sewer service providers should endeavor to work together and install/operate utility service systems to ultimately benefit their end user customers, and GBRA's decision to grow its retail sewer service area and provide landowners with the opportunity to obtain centralized sewer service is certainly a benefit to Springs Hill's affected members. Once the sewer CCN amendment application is approved, Springs Hill's retail water service members located within this overlapping area could also become retail sewer service customers of GBRA.

Springs Hill looks forward to working with GBRA so that both entities can provide their respective retail service to the end user in an efficient manner. Springs Hill's billing and field Staff are ready, willing, and well versed in coordinating billing and meter reading activities with separate retail sewer service providers.

If you have any questions regarding how we can work together with billing matters or otherwise, do not hesitate to contact me at (830) 379-7683.

Very truly yours,


Jeanne Schnuriger, General Manager

ATTACHMENT 'D'
Written Description of Service Area

General Description and Location of the Proposed 7345.2-Acre Additional GBRA Sewer CCN Area

The proposed 7345.2-acre addition to Guadalupe-Blanco River Authority's (GBRA) Sewer CCN (#20892) falls within the extents of Guadalupe County and within the extents of the Springs Hill Water Supply Corporation's (WSC) Water CCN (#10666). No portion of the proposed additional area falls within an existing Sewer CCN. The additional area will extend from the eastern portion of GBRA's existing Sewer CCN from the Guadalupe River adjacent to The Bandit Golf Club, northeast to the area between FM 105 (Huber Road) & FM 140 (Schwarzlose Road).

Starting from the existing eastern boundary of GBRA's Sewer CCN at the Guadalupe River and moving clockwise, the additional 7345.2-acre area will be bound by Elley Lane to the north until the north right-of-way lane for State Highway 46 where it will then be bound by the City of New Braunfels Utilities (NBU) Water CCN (#10677) to the east/northeast and follow that boundary to the eastern most portion of NBU's Water CCN at FM 140. The new area then extends east approximately 7,900-LF to the Crystal Clear's Water CCN (#10297) near the intersection of FM 105 & FM 142 (Dietert Road). The additional area will then be bound by Crystal Clear's Water CCN approximately 6,950-LF South, then approximately 2,730-LF East, then approximately 2,950-LF South to the intersection of Crystal Clear's Water CCN and the City of Seguin's Sewer CCN (#20270). The additional area will then be bound by the City of Seguin's Sewer CCN to the south and southwest to the Guadalupe River at the starting point mentioned above.



METES AND BOUNDS DESCRIPTION
FOR A
77.960 ACRE TRACT OF LAND

Being 77.960 acres of land situated in the City of New Braunfels, Guadalupe County, Texas, and being part of the William. H. Pate Survey No. 22, Abstract No. 259, and a part of the Sarah DeWitt, Survey No. 48, Abstract No. 359, Guadalupe County, Texas, and being out of 150.00 acre tract of land described in Volume 4277, Page 743 of the Official Public Records of Guadalupe County, Texas and said 77.960 acre tract of land being more particularly described as follows:

BEGINNING at a ½" iron pin found along the Northwesternly line of Klein Road, being the southerly corner of a One acre tract of land conveyed to Deborah Kraft in Volume 2648, Page 798 of the Deed Records of Guadalupe County, Texas, and being the Southeasterly corner of this herein described 77.960 acre tract of land and the POINT OF BEGINNING;

THENCE with the Northwest line of Klein Road, S 44° 08' 40" W a distance of 1311.45 feet to a ½" iron pin found for the Southeasterly corner of Lot 4, Ashby Acres, as recorded in Volume 5, Page 141A of the Map and Plat Records of Guadalupe County, Texas and being the Southernmost corner of this herein described 77.960 acre tract of land;

THENCE with the Northeasterly line of Lots 1, 2, 3, and 4 of said Ashby Acres, N 41° 12' 53" W a distance of 3305.77 feet to a ½" iron pin with cap stamped "DAM #5348 PROP. COR." set for the Northerly corner of Lot 1, Ashby Acres, and in the Southeasterly line of a 8.296 acre tract of land conveyed to Arthur Jacobsen in Volume 1228, Page 91 of the Official Records of Guadalupe County, Texas, and being the Westernmost corner of this herein described 77.960 acre tract of land;

THENCE with the Southeasterly line of said Arthur Jacobsen 8.296 acre tract of land, N 43° 24' 29" E a distance of 321.32 feet to a ½" iron pin found for the Easterly corner of said Jacobsen 8.296 acre tract of land, and being the Northwesternly corner of this herein described 77.960 acre tract of land;

THENCE departing the Easterly corner of said Arthur Jacobsen 8.296 acre tract of land, and across said Laubach 150.00 acre tract the following calls:

S 27° 52' 50" E a distance of 54.43 feet to a ½" iron pin with cap stamped "DAM #5348 PROP. COR." set for a corner;

S 37° 51' 57" E a distance of 72.97 feet to a ½" iron pin with cap stamped "DAM #5348 PROP. COR." set for a corner;

S 56° 28' 54" E a distance of 73.60 feet to a ½" iron pin with cap stamped "DAM #5348 PROP. COR." set for a corner;

N 25° 28' 22" E a distance of 136.63 feet to a ½" iron pin with cap stamped "DAM #5348 PROP. COR." set for a corner;

S 68° 27' 33" E a distance of 20.57 feet to a ½" iron pin with cap stamped "DAM #5348 PROP. COR." set for a corner;

S 17° 36' 32" W a distance of 137.18 feet to a ½" iron pin with cap stamped "DAM #5348 PROP. COR." set for a corner;

S 78° 52' 58" E a distance of 74.00 feet to a ½" iron pin with cap stamped "DAM #5348 PROP. COR." set for a corner;

N 86° 25' 28" E a distance of 74.32 feet to a ½" iron pin with cap stamped "DAM #5348 PROP. COR." set for a corner;

N 72° 10' 57" E a distance of 69.48 feet to a ½" iron pin with cap stamped "DAM #5348 PROP. COR." set for a corner;

N 24° 08' 12" W a distance of 140.91 feet to a ½" iron pin with cap stamped "DAM #5348 PROP. COR." set for a corner;

N 65° 11' 40" E a distance of 53.04 feet to a ½" iron pin with cap stamped "DAM #5348 PROP. COR." set for a corner;

With a curve to the right having an Arc Length of 7.46 feet, a Radius of 5.50 feet, a Delta Angle of 77° 41' 12", a Tangent length of 4.43 feet, and a Chord Bearing and Distance of S 75° 57' 44" E, 6.90 feet, to a ½" iron pin with cap stamped "DAM #5348 PROP. COR." set for a corner;

With a reverse curve to the left having an Arc Length of 273.72 feet, a Radius of 330.00 feet, a Delta Angle of 47° 31' 30", a Tangent length of 145.29 feet, and a Chord Bearing and Distance of S 60° 52' 53" E, 265.94 feet, to a ½" iron pin with cap stamped "DAM #5348 PROP. COR." set for a corner;

S 84° 38' 38" E a distance of 146.68 feet to a ½" iron pin with cap stamped "DAM #5348 PROP. COR." set for a corner;

With a non-tangent curve to the right having an Arc Length of 4.86 feet, a Radius of 270.00 feet, a Delta Angle of 01° 01' 52", a Tangent length of 2.43 feet, and a Chord Bearing and Distance of S 84° 07' 42" E, 4.86 feet to a ½" iron pin with cap stamped "DAM #5348 PROP. COR." set for a corner;

S 44° 06' 13" W a distance of 153.81 feet to a ½" iron pin with cap stamped "DAM #5348 PROP. COR." set for a corner;

S 84° 38' 38" E a distance of 91.41 feet to a ½" iron pin with cap stamped "DAM #5348 PROP. COR." set for a corner;

With a non-tangent curve to the right having an Arc Length of 116.34 feet, a Radius of 154.53 feet, a Delta Angle of 43° 08' 14", a Tangent length of 61.08 feet, and a Chord Bearing and Distance of S 62° 47' 20" E, 113.61 feet, to a ½" iron pin with cap stamped "DAM #5348 PROP. COR." set for a corner;

N 44° 06' 13" E a distance of 120.00 feet to a ½" iron pin with cap stamped "DAM #5348 PROP. COR." set for a corner;

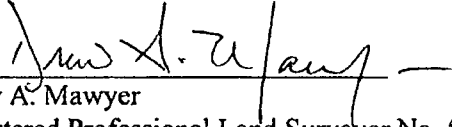
S 45° 53' 47" E a distance of 230.00 feet to a ½" iron pin with cap stamped "DAM #5348 PROP. COR." set for a corner;

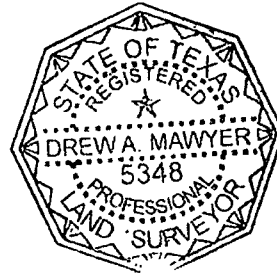
and N 44° 06' 13" E a distance of 236.18 feet to a ½" iron pin with cap stamped "DAM #5348 PROP. COR." set in the Southwesterly line of a 96.00 acre tract conveyed to Leonard Kraft in Volume 373, Page 254 of the Official Records, Guadalupe County, Texas and being the Northeasterly corner of this herein described 77.960 acre tract of land;

THENCE with the Southwesterly line of said Leonard Kraft 96.00 acre tract, and continuing along the Southwesterly line of said Deborah Kraft 1.00 acre tract, S 45° 55' 53" E a distance of 2242.56 feet to the POINT OF BEGINNING and containing a 77.960 acre tract of land;

Bearings based on the Texas State Plane Coordinate System, Texas South Central Zone (4204), N.A.D 1983.

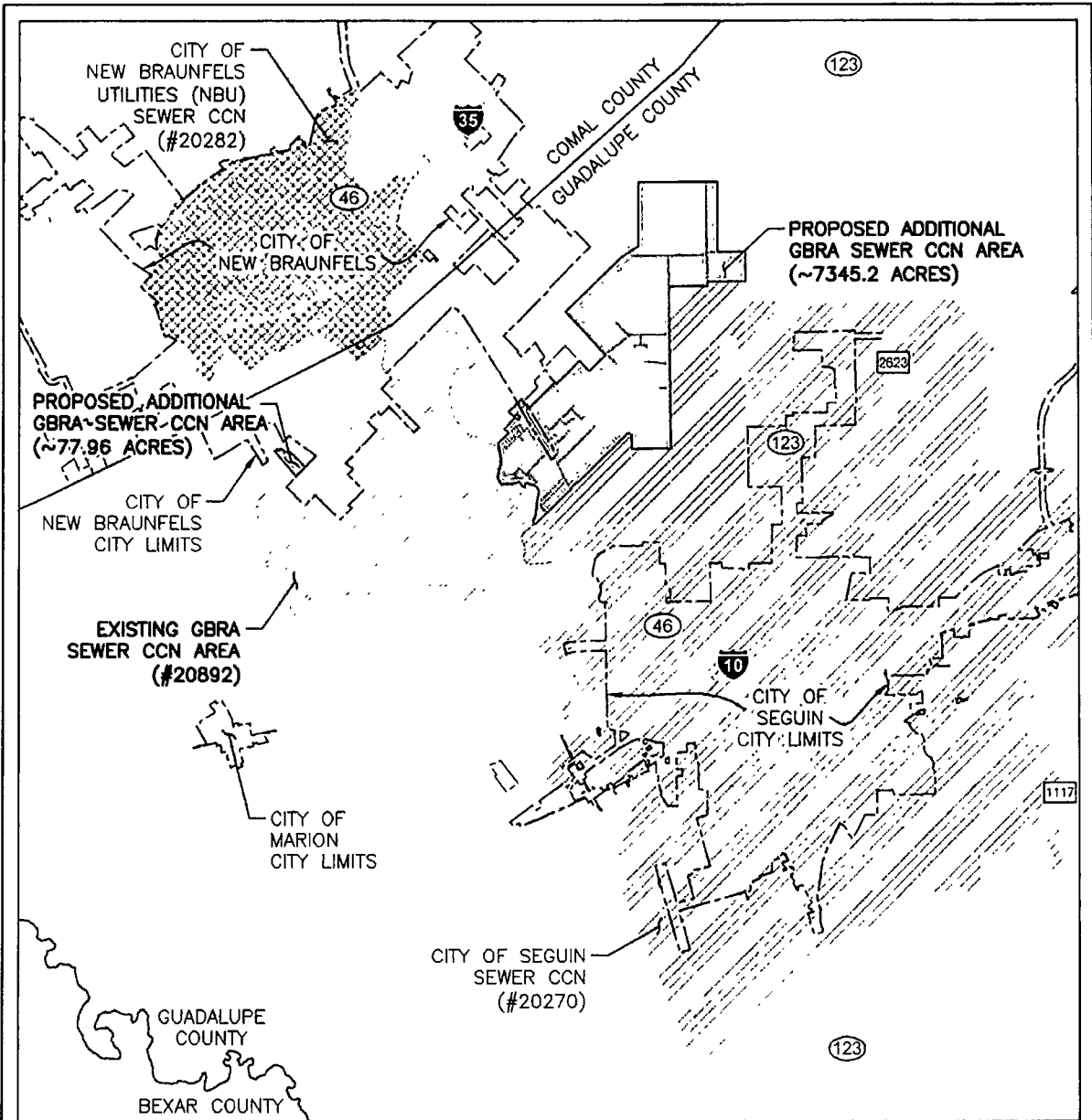
Surveyed on the ground this the 20th day of March, 2015.


Drew A. Mawyer
Registered Professional Land Surveyor No. 5348
TBPLS Firm Registration #10191500
132 Caddell Lane
New Braunfels, Texas, 78130
MOE164 – Laubach South 77.960 AC



ATTACHMENT 'E'
Location Map – Large Scale

G:\PROJECTS\TULSA (GAMA)\05 - GBRA WASTEWATER MASTER PLAN\05\05 EXHIBITS\CERTIFICATE OF CONVENIENCE AND NECESSITY\ATTACHMENT E - LOCATION MAP - LARGE SCALE



EXPLANATION

	PROPOSED SEWER CCN (~7345.2 ACRES)		CITY LIMIT EXTENT
	U.S. INTERSTATE HIGHWAY DESIGNATION		ROADWAY
	STATE HIGHWAY DESIGNATION		CERTIFICATE OF CONVENIENCE AND NECESSITY
	COUNTY ROAD DESIGNATION		CCN
	COUNTY LINE		



Trihydro
CORPORATION
1252 Commerce Drive
Laramie, Wyoming 82070
www.trihydro.com
(P) 307.745.7474 (F) 307.745.7729

ATTACHMENT E

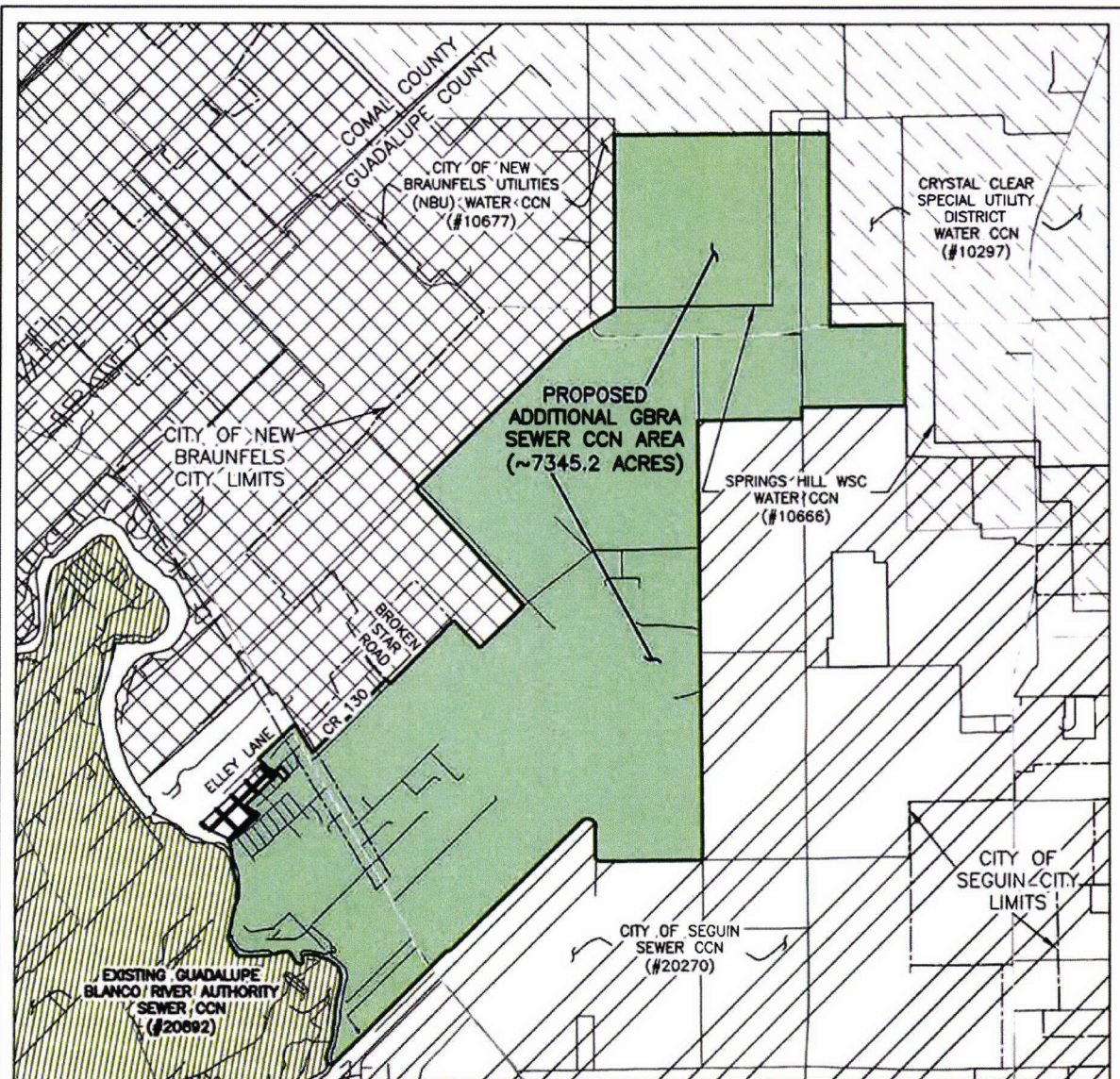
LOCATION MAP - LARGE SCALE

PROPOSED SEWER CCN GUADALUPE BLANCO RIVER AUTHORITY SEGUIN, TEXAS

Drawn By: RJ Checked By: PAL Scale: 1" = 3 MILES Date: 10/9/2017 File: ATTACHMENT E - LOCATION MAP - LARGE SCALE

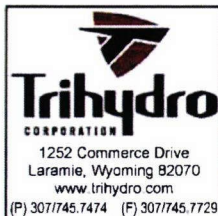
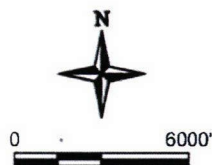
ATTACHMENT 'F'
Location Map – Small Scale 7345.2 Acre Tract

Q:\PROJECTS\7033 (GWR)\05 - GBR - WASTEWATER MASTER PLAN\04\EXHIBITS\CERTIFICATES OF CONVENIENCE AND NECESSITY\ATTACHMENT F - LOCATION MAP - SMALL SCALE



EXPLANATION

	PROPOSED SEWER CCN (~7345.2 ACRES)		SPRINGS HILL WSC WATER CCN
	CITY OF SEGUIN SEWER CCN		COUNTY LINE
	EXISTING GUADALUPE BLANCO RIVER AUTHORITY SEWER CCN		CITY LIMIT EXTENT
	CITY OF NEW BRAUNFELS (NBU) UTILITIES WATER CCN		ROADWAY
	CRYSTAL CLEAR SPECIAL UTILITY DISTRICT	CCN	CERTIFICATE OF CONVENIENCE AND NECESSITY
		CR	COUNTY ROAD
		WSC	WATER SERVICE COMPANY



ATTACHMENT F

LOCATION MAP - SMALL SCALE 7345.2 ACRES TRACT

PROPOSED SEWER CCN GUADALUPE BLANCO RIVER AUTHORITY SEGUIN, TEXAS

Drawn By: RJ Checked By: PAL Scale: 1" = 6000' Date: 10/9/2017 File: ATTACHMENT F - LOCATION MAP - SMALL SCALE

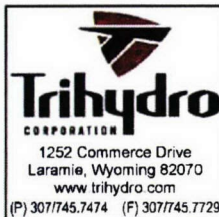
ATTACHMENT 'G'
Location Map – Small Scale 77.96 Acre Tract

Q:\PROJECTS\7033 (GBRA)\05 - GBRA\WATERMASTER PLAN\04\COMMENTS\CERTIFICATE OF CONVENIENCE AND NECESSITY ATTACHMENT G - LOCATION MAP - SMALL SCALE



EXPLANATION

	PROPOSED SEWER CCN (~7345.2 ACRES)		SPRINGS HILL WSC WATER CCN
	CITY OF SEGUIN SEWER CCN		COUNTY LINE
	EXISTING GUADALUPE BLANCO RIVER AUTHORITY SEWER CCN		CITY LIMIT EXTENT
	CITY OF NEW BRAUNFELS (NBU) UTILITIES WATER CCN		ROADWAY
	CRYSTAL CLEAR SPECIAL UTILITY DISTRICT	CCN	CERTIFICATE OF CONVENIENCE AND NECESSITY
		CR	COUNTY ROAD
		WSC	WATER SERVICE COMPANY



ATTACHMENT G

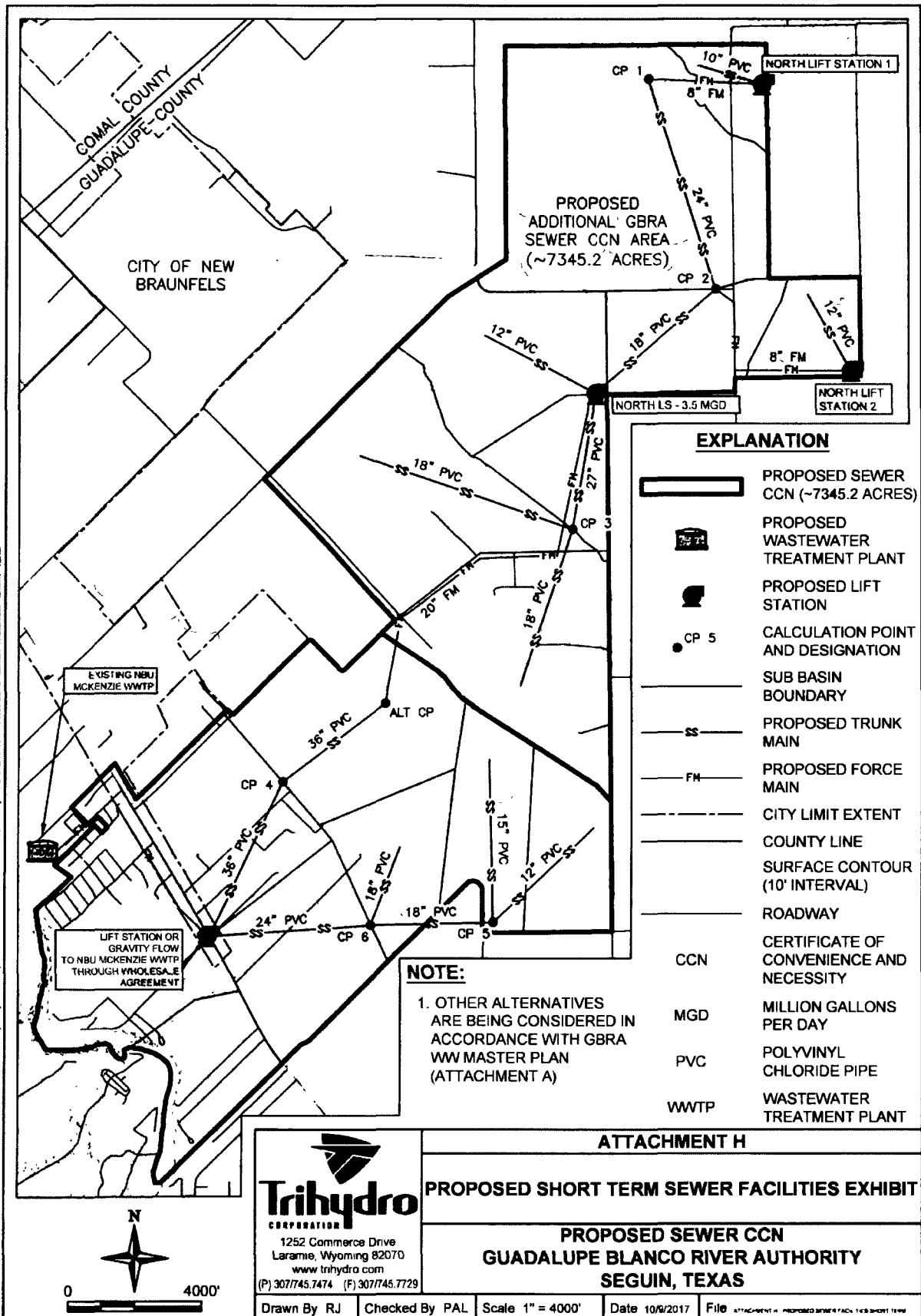
LOCATION MAP - SMALL SCALE 77.96 ACRES TRACT

PROPOSED SEWER CCN GUADALUPE BLANCO RIVER AUTHORITY SEGUIN, TEXAS

Drawn By: RJ Checked By: PAL Scale: 1" = 6000' Date: 10/9/2017 File: ATTACHMENT G - LOCATION MAP - SMALL SCALE

ATTACHMENT 'H'
Proposed Short Term Sewer Facilities Exhibit

CCN PROJECTS 7453 (2004) 45 - GBRA WASTEWATER PLANT AND WASTEWATER TREATMENT PLANT AND WASTEWATER TREATMENT PLANT ATTACHMENT H - PROPOSED SEWER FACILITIES - SHORT TERM



EXPLANATION

	PROPOSED SEWER CCN (~7345.2 ACRES)
	PROPOSED WASTEWATER TREATMENT PLANT
	PROPOSED LIFT STATION
	CALCULATION POINT AND DESIGNATION
	SUB BASIN BOUNDARY
	PROPOSED TRUNK MAIN
	PROPOSED FORCE MAIN
	CITY LIMIT EXTENT
	COUNTY LINE
	SURFACE CONTOUR (10' INTERVAL)
	ROADWAY
CCN	CERTIFICATE OF CONVENIENCE AND NECESSITY
MGD	MILLION GALLONS PER DAY
PVC	POLYVINYL CHLORIDE PIPE
WWTP	WASTEWATER TREATMENT PLANT

NOTE:

1. OTHER ALTERNATIVES ARE BEING CONSIDERED IN ACCORDANCE WITH GBRA WW MASTER PLAN (ATTACHMENT A)

ATTACHMENT H

PROPOSED SHORT TERM SEWER FACILITIES EXHIBIT

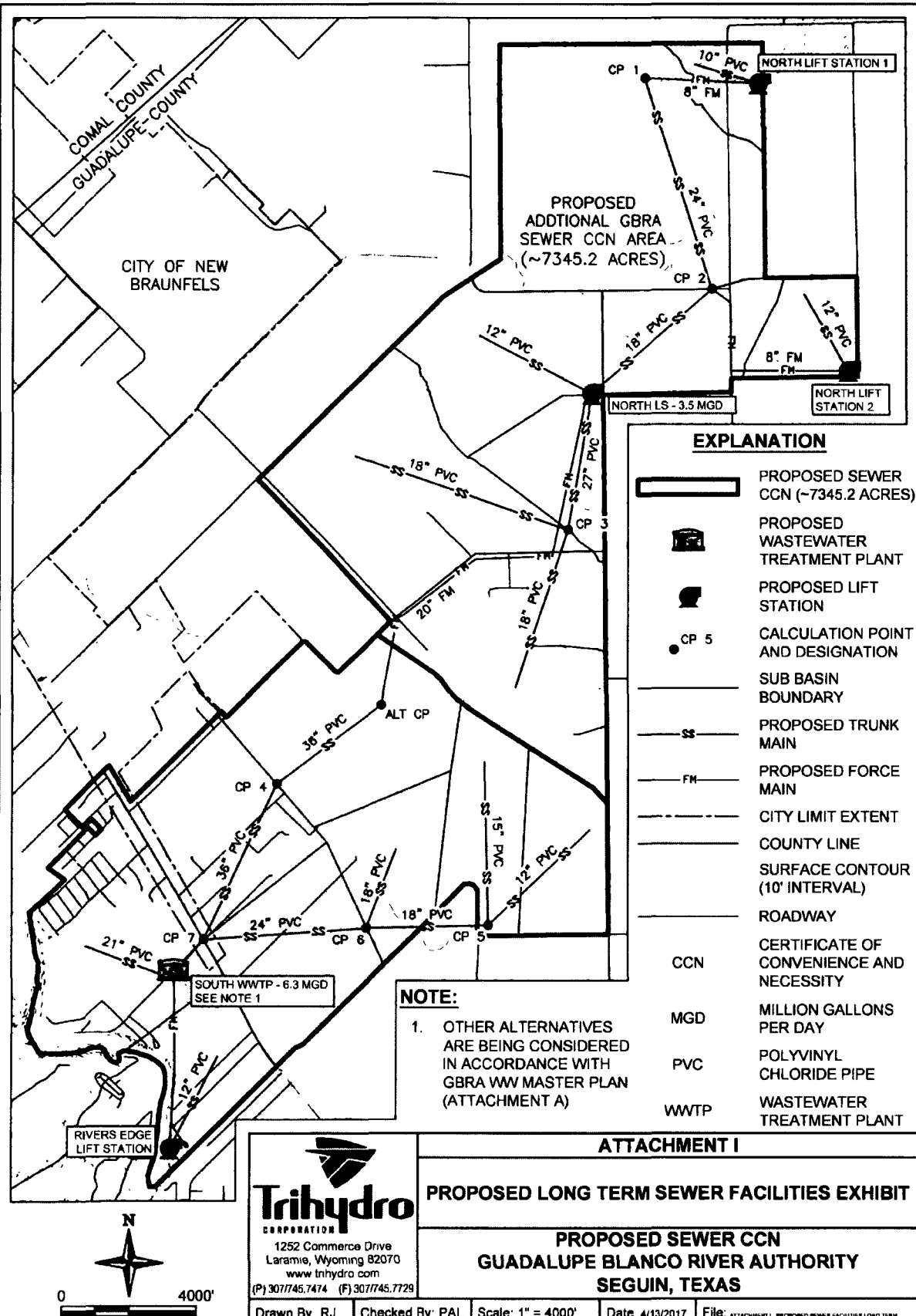
PROPOSED SEWER CCN GUADALUPE BLANCO RIVER AUTHORITY SEGUIN, TEXAS

1252 Commerce Drive
 Laramie, Wyoming 82070
 www.trihydro.com
 (P) 307.745.7474 (F) 307.745.7729

Drawn By RJ | Checked By PAL | Scale 1" = 4000' | Date 10/9/2017 | File ATTACHMENT H - PROPOSED SEWER FACILITIES - SHORT TERM

ATTACHMENT 'I'
Proposed Long Term Sewer Facilities Exhibit

24-PROJECTS-7033 (2016) 08 - GBRA WASTEWATER MASTER PLAN/CCN/CONSENTS/CERTIFICATE OF CONVENIENCE AND NECESSITY ATTACHMENT I - PROPOSED SEWER FACILITIES - LONG TERM



EXPLANATION

- PROPOSED SEWER CCN (~7345.2 ACRES)
- PROPOSED WASTEWATER TREATMENT PLANT
- PROPOSED LIFT STATION
- CALCULATION POINT AND DESIGNATION
- SUB BASIN BOUNDARY
- PROPOSED TRUNK MAIN
- PROPOSED FORCE MAIN
- CITY LIMIT EXTENT
- COUNTY LINE
- SURFACE CONTOUR (10' INTERVAL)
- ROADWAY
- CCN CERTIFICATE OF CONVENIENCE AND NECESSITY
- MGD MILLION GALLONS PER DAY
- PVC POLYVINYL CHLORIDE PIPE
- WWTP WASTEWATER TREATMENT PLANT

NOTE:

1. OTHER ALTERNATIVES ARE BEING CONSIDERED IN ACCORDANCE WITH GBRA WW MASTER PLAN (ATTACHMENT A)

Trihydro
CORPORATION
1252 Commerce Drive
Laramie, Wyoming 82070
www.trihydro.com
(P) 307.745.7474 (F) 307.745.7729

ATTACHMENT I

PROPOSED LONG TERM SEWER FACILITIES EXHIBIT

PROPOSED SEWER CCN
GUADALUPE BLANCO RIVER AUTHORITY
SEGUIN, TEXAS

Drawn By: RJ Checked By: PAL Scale: 1" = 4000' Date: 4/13/2017 File: ATTACHMENT I - PROPOSED SEWER FACILITIES - LONG TERM

ATTACHMENT 'J'
TCEQ Inspection Report

Bryan W. Shaw, Ph.D., P.E., *Chairman*
Toby Baker, *Commissioner*
Jon Niermann, *Commissioner*
Richard A. Hyde, P.E., *Executive Director*



RECEIVED
AUG 1 2016
GBRA - Seguin Office

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

July 29, 2016

CERTIFIED MAIL 91 7199 9991 7036 0227 2220
RETURN RECEIPT REQUESTED

Mr. Michael Urrutia
Director of Water Quality Services
GBRA Lake Dunlap
933 E Court Street
Seguin, Texas 78155-5819

Re: Notice of Violation for Compliance Evaluation Investigation at: GBRA Lake
Dunlap, 174 Century Ranch Road, New Braunfels, Comal County, Texas
Regulated Entity No.: 102333820, TCEQ ID No.: WQ0011378001

Dear Mr. Urrutia:

On May 10, 2016, Ms. Patricia Blackwell and Mr. Chris Dziuk of the Texas Commission on Environmental Quality (TCEQ) San Antonio Region Office conducted an investigation of the above-referenced regulated entity to evaluate compliance with applicable requirements for wastewater treatment. Enclosed is a summary which lists the investigation findings. During the investigation, some concerns were noted which were alleged noncompliances that have been resolved based on subsequent corrective action. In addition, certain outstanding alleged violations were identified for which compliance documentation is required. Please submit to this office by August 29, 2016 a written description of corrective action taken and the required documentation demonstrating that compliance has been achieved for each of the outstanding alleged violations.

In the listing of the alleged violations, we have cited applicable requirements, including TCEQ rules. Please note that both the rules themselves and the agency brochure entitled Obtaining TCEQ Rules (GI 032) are located on our agency website at <http://www.tceq.state.tx.us> for your reference. If you would like a hard copy of this brochure mailed to you, you may call and request one from either the San Antonio Region Office at 210-490-3096 or the Central Office Publications Ordering Team at 512-239-0028.

The TCEQ appreciates your assistance in this matter. Please note that the Legislature has granted TCEQ enforcement powers which we may exercise to ensure compliance with environmental regulatory requirements. We anticipate that you will resolve the alleged violations as required in order to protect the State's environment. If you have additional information that we are unaware of, you have the opportunity to contest the violations documented in this notice. Should you choose to do so, you must notify the

Mr. Michael Urrutia

Page 2

July 29, 2016

San Antonio Region Office within 10 days from the date of this letter. At that time, Ms. Lynn Bumguardner, Water Section Manager will schedule a violation review meeting to

be conducted at a specified date and time. However, please be advised that if you decide to participate in the violation review process, the TCEQ may still require you to adhere to the compliance schedule included in the enclosed Summary of Investigation Findings until an official decision is made regarding the status of any or all of the contested violations.

If you or members of your staff have any questions, please feel free to contact Ms. Patricia Blackwell in the San Antonio Region Office at 210-403-4065.

Sincerely,



Joy Thurston-Cook, Water Section Team Leader
San Antonio Region Office
Texas Commission on Environmental Quality

JTC/PB/adj

Enclosure: Summary of Investigation Findings

Summary of Investigation Findings

GBRA LAKE DUNLAP

174 CENTURY RANCH RD

NEW BRAUNFELS, GUADALUPE COUNTY, TX 78130

**Additional ID(s): TX0025208
WQ0011378001**

Investigation #

1330291

Investigation Date: 05/10/2016

OUTSTANDING ALLEGED VIOLATION(S) ASSOCIATED TO A NOTICE OF VIOLATION

Track No: 605779 Compliance Due Date: 08/29/2016

30 TAC Chapter 305.125(5)

**LIC WQ0011378001, TPDES Permit
Operational Requirements No.1**

Alleged Violation:

Investigation: 1330291

Comment Date: 05/31/2016

Failed to properly maintain the facility. Specifically, there was excessive vegetation on the facility fencing. The vegetation must be removed from the fence.

Recommended Corrective Action: Submit documentation indicating that the excessive vegetation has been removed from the facility fence

Track No: 605789 Compliance Due Date: 08/29/2016

30 TAC Chapter 305.125(5)

**LIC WQ0011378001, TPDES Permit No. WQ0011378001
Operational Requirement No.1**

Alleged Violation:

Investigation: 1330291

Comment Date: 05/31/2016

Failed to maintain the flow measurement device. Specifically, the weir crest was not level. At the time of the investigation, only about 30% of the weir had effluent flowing. There was no flow over the remaining 70% of the weir.

Recommended Corrective Action: The crest of a weir must be exactly level to ensure a uniform depth of flow. Submit documentation indicating that the weir has been leveled.

Track No: 605793 Compliance Due Date: 08/29/2016

30 TAC Chapter 305.125(5)

30 TAC Chapter 317.7(e)

**LIC WQ0011378001, TPDES Permit
Operational Requirements No.1**

Alleged Violation:

Investigation: 1330291

Comment Date: 05/31/2016

Failed to properly operate and maintain the facility. Specifically, there were no "Danger / No Trespassing" signs on the facility fence.

Recommended Corrective Action: Provide documentation indicating that "Danger / No Trespassing" signs are posted on the facility fence to verify compliance

ALLEGED VIOLATION(S) NOTED AND RESOLVED ASSOCIATED TO A NOTICE OF VIOLATION

Track No: 605784

30 TAC Chapter 305.125(11)(B)

Summary of Investigation Findings

Page 1 of 2

Alleged Violation:

Investigation: 1330291

Comment Date: 05/31/2016

Failed to make all sludge documents readily available to TCEQ personnel. Specifically, the 2015 annual sludge report was not available at the time of the investigation.

Recommended Corrective Action: The required information shall be retained at the facility site and/or shall be readily available for review by TCEQ representatives for a period of five years. Submit copies of the 2015 annual sludge report to verify compliance.

Resolution: On 05/31/2016 documentation was submitted to resolve the violation. See attachment #3.

ADDITIONAL ISSUES

Description

Are adequate safeguards maintained to prevent the discharge of untreated or inadequately treated wastes during electrical power failure by means of alternate power sources, standby generators and/or retention structures?

Were region collected samples compliant with the permit limits (except pH, DO and Cl2 minimum)?

Additional Comments

The generator runs the disinfection unit only. A new generator has been purchased, but has not been installed. The new generator will run the entire plant. A copy of the purchase order for the new generator is attached to the report. (Attachment 3)

A follow up record review will be conducted once the results of the TCEQ San Antonio Region grab samples are received for Total Phosphates. Compliance with the effluent monitoring limitations will be verified at the time. Samples results for CBOD5, TSS, NH3N and E. coli were compliant with permit requirements.

From: Joel Heideke
To: [Patricia Blackwell \(Patricia.Blackwell@tceq.texas.gov\)](mailto:Patricia.Blackwell@tceq.texas.gov)
Subject: Dunlap WWTP
Attachments: [DOC021.pdf](#)

Good morning Patricia,

Here is a copy of the purchase order and Dunlap annual sludge report. The generator will be delivered in July I am told. I am currently looking for a contractor for the leveling of the weir on the clarifier. The signs are being constructed, they will be installed as soon as we get them. Our in house crew will be cleaning the fences, this has been scheduled but the rain has been an issue. It will probably be a month or so because crew is spilling water from Canyon lake. If you have any questions please feel free to call 830-305-0480.

Thank you and have a great day!

Joel

San Antonio Water System #00180018
2800 US Hwy 821 N
San Antonio, TX 78212-0105

(Check One) Residential ☒ Commercial ☐

(Check One) Domestic ☐ Irrigation ☐

(Check One) Commercial ☒ Industrial ☐

Advanced Backflow Prevention Section

Assembly Location / Unit being Protected

Contaminant

Dunlap

SUBJECT: Test and Maintenance Report - Backflow Prevention Assembly (Circle one) ☒ DO PVS ☐ SPVS ☐ RPDA ☐ DODA

Please be advised that we have made the following periodic test as required by TCEQ and the San Antonio Water System's Cross Connection Control Program and report the following:

Manufacturer and Model of Assembly Apello RP40 Assembly Serial 301697
Size 3/4"

Service Address BRFLS Design 128125 Design Date 4-21-16

	CHECK #1 VALVE	CHECK #2 VALVE	DIFF. PRESSURE RELIEF VALVE	PRESSURE VACUUM BREAKER
INITIAL TEST	1. Leaked <u>8.4</u> () 2. Closed Tight <u>++</u>	1. Leaked () 2. Closed Tight <u>++</u>	Opened at <u>2.11</u> PSID Did Not Open () Leaking ()	Air Inlet Opened at _____ PSID Did Not Open ()
REPAIRS	Cleaned Replaced: () Disc () Spring () Guide () Pin Retainer () Hinge Pin () Seat () Diaphragm () Other, Describe ()	Cleaned Replaced: () Disc () Spring () Guide () Pin Retainer () Hinge Pin () Seat () Diaphragm () Other, Describe ()	Cleaned Replaced: () Disc: () Upper () Lower () Spring () Diaphragm: () Large: () Upper () Lower () Small () Seat: () Upper () Lower () Spacer: () Lower () Other, Describe ()	Check Valve Held at _____ PSID Leaked () Cleaned Replaced: () Air Inlet Disc () Check Disc () Air Inlet Spring () Check Spring () Other, Describe ()
FINAL TEST	P.S.I. Drop (R/F) _____ Closed Tight ()	Closed Tight ()	Opened at _____ PSID	Air Inlet _____ PSID Check Valve _____ PSID

CERTIFICATIONS:

1. I hereby certify that the foregoing data is accurate and reflects the proper operation and maintenance of the captioned equipment. I personally performed the field test herein described. I hereby certify that the Test Gauge listed above has been certified within the last twelve (12) months and a copy of the certification has been submitted to SAWS. The assembly is installed in accordance with manufacturer recommendations and/or local codes. Yes ☒ NO ☐

Test Date 5-15 Time 11:21 (AM) (PM) () SPAT Tester Number 16096 Exp Date 9-2-17

DD TESTING COMPANY NAME Dunlap ADDRESS 7121 CITY San Antonio STATE TX
TESTER NAME Dunlap

2. I hereby certify the assembly has been in constant use at this location in a manner approved by the San Antonio Water System during the entire prescribed interval between test periods and during this period this assembly was not by-passed, made inoperative or removed without proper authorization. All defects found during the operating period or during tests of the assembly were immediately corrected to the specification and approval of the San Antonio Water System.

OWNER NAME _____ ADDRESS _____ CITY _____ STATE _____
TELEPHONE NUMBER _____ TITLE _____ DATE _____
SIGNATURE OWNER OR REPRESENTATIVE _____ PRINTED NAME OWNER OR REPRESENTATIVE _____

PROCESS CONTROL CALIBRATION

186 OAKSIDE, UNIVERSAL CITY, TX. 78148
PHONE (210) 658-0783

CERTIFICATE OF CALIBRATION

CERTIFICATE NO: 04851

CUSTOMER: GUADALUPE-BLANCO RIVER AUTHORITY

MANUFACTURER: MILLTRONICS

LOCATION: DUNLAP

MODEL: OCM III

STREET: 933 EAST COURT

SERIAL #: 870303101X2

CITY: SEGUIN

TYPE: FLOW METER

STATE: TX. ZIP CODE: 78155-5819

ID #: 0841

CUSTOMER ID: 155

CUSTOMERS #:

CONTACT: MR. JOEL HIEDEKE

INPUT: FLOW

PHONE: (830) 379-5822

OUTPUT: DISPLAY & 4-20 ma

FAX: (830) 401-0991

MAX.ERROR: +/- 1/4 INCH

TEMPERATURE: 88 F

TEST PROCEDURE: MANUFACTURER

CALIBRATION DATE: 5/18/2015

HUMIDITY: 66%

SPECIFICATIONS: MANUFACTURER

DUE CALIBRATION: 5/18/2016

INTERVAL: 12 MOs.

AS FOUND: IN TOLERANCE

CALIBRATED BY: NWF

AS LEFT: IN TOLERANCE

TS MANUFACTURER
STARRETT
FLUKE

TS MODEL
C404R-48 787

TS SERIAL #
N/A
8220006

TS TYPE
RULER
PROCESS METER

TS ID
TS10
TS15

TS CALIBRATION DATE
8/25/2014
3/3/2015

TS DUE CALIBRATION
8/25/2015
3/3/2016

AS FOUND DATA

INPUT		OUTPUT	
MEASURED	READ	OUTPUT	MEASURED
1.25 IN	1.20 IN	4ma	4.00ma
		20ma	19.99ma

AS LEFT DATA

INPUT		OUTPUT	
MEASURED	READ	OUTPUT	MEASURED
1.25 IN	1.20 IN	4ma	4.00ma
		20ma	19.99ma

THE TEST STANDARDS USED ARE TRACEABLE TO THE STANDARDS MAINTAINED BY THE NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY (NIST).

SIGNATURE: 

DATE: 27 May 2015

PROCESS CONTROL CALIBRATION

166 OAKSIDE, UNIVERSAL CITY, TX. 78148
PHONE (210) 658-0783

CERTIFICATE OF CALIBRATION

CERTIFICATE NO: 05136

CUSTOMER: GUADALUPE-BLANCO RIVER AUTHORITY

MANUFACTURER: MILLTRONICS

LOCATION: DUNLAP

MODEL: OCM III

STREET: 933 EAST COURT

SERIAL #: 870303101X2

CITY: SEGUIN

TYPE: FLOW METER

STATE: TX. ZIP CODE: 78155-5819

ID #: 0641

CUSTOMER ID: 155

CUSTOMERS #:

CONTACT: MR. JOEL HIEDEKE

INPUT: FLOW

PHONE: (830) 379-5822

OUTPUT: DISPLAY & 4-20 ma

FAX: (830) 401-0991

MAX.ERROR: +/- 1/4 INCH

TEMPERATURE: 77 F

TEST PROCEDURE: MANUFACTURER

CALIBRATION DATE: 5/16/2016

HUMIDITY: 79%

SPECIFICATIONS: MANUFACTURER

DUE CALIBRATION: 5/16/2017

INTERVAL: 12 MOs.

AS FOUND: IN TOLERANCE

CALIBRATED BY: NWF

AS LEFT: IN TOLERANCE

TS MANUFACTURER
STARRETT
FLUKE

TS MODEL
C404R-48 787

TS SERIAL #
N/A
8220006

TS TYPE
RULER
PROCESS METER

TS ID
TS10
TS15

TS CALIBRATION DATE
8/25/2015
3/3/2016

TS DUE CALIBRATION
8/25/2016
3/3/2017

AS FOUND DATA

INPUT
MEASURED READ
2.25 IN 2.12 IN

OUTPUT
MEASURED
4ma 4.00ma
20ma 20.00ma

AS LEFT DATA

INPUT
MEASURED READ
2.25 IN 2.12 IN

OUTPUT
MEASURED
4ma 4.00ma
20ma 20.00ma

THE TEST STANDARDS USED ARE TRACEABLE TO THE STANDARDS MAINTAINED BY THE NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY (NIST).

SIGNATURE:

Neil Fave

DATE:

25 May 2016



Guadalupe-Blanco River Authority

933 E. Court Street, Seguin, Texas 78155
830-379-5822 • Fax 830-379-7478

Purchase Order

Purchase Order

020 - 11101

This order number must appear
on all invoices and packing slips

Date: Feb. 11, 2016

To: LJ Power Generators
9301 Highway 290 West # 100
Austin Texas 78736

Please Ship Prepaid To:

Dunlap WWTP
174 Century Ranch Road
New Braunfels, Texas 78130

Attn: Jeff McKee

Item	Quantity	Description	Not Budgeted	Price	Per	Total
1	1 EA.	500 KW Diesel Driven AKSA Generator				96,993.00
2		As per Attached Specs				
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						

TOTAL 96,993.00

Recommended by [Signature] Date 2/11/16

Please direct correspondence regarding this order to the attention of the person signed above.

Approved by [Signature] Date 2/11/16

Receipt

Items _____

Date _____ By _____

Mail Invoices in Duplicate to:

Guadalupe-Blanco River Authority
933 East Court Street, Seguin, Texas 78155

The Guadalupe-Blanco River Authority is a political subdivision of the State of Texas and is exempt from payment of federal excise taxes and state and local sales taxes. Please do not include taxes in your billing. Exemption certificates will be furnished with payment.

Quotations and Bids

For Internal Use Only

Account Classification

Item No.

Code

Buy Board Purchase

033 1114 864 07

Dunlap Annual report

[illegible]

Total Dry lbs.	42542	Total in lbs. per Field	42542 lbs.
-----------------------	--------------	--------------------------------	-------------------

Total Metric Tons 19.30
Total Acres on Permit - 47.914
Each Field is 15.967 Acres

Permit Numbers

Dunlap WWTP	WQ0011378001
-------------	--------------

Total Loads	15	FIELDS		
Total Tonnage	21.271	1,2 & 3	Tons/ Acre	0.444

ATTACHMENT 'K'
GBRA/NBU Wholesale Agreements

MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding ("MOU") between the Guadalupe-Blanco River Authority ("GBRA") and New Braunfels Utilities ("NBU") (collectively, "the Parties") is acknowledged by the Parties on the date indicated on the last page of the MOU. The Parties recognize that this MOU is not a contract or binding agreement, but rather an acknowledgement by GBRA and NBU, respectively, of certain objectives with respect to GBRA's provision of water from sources owned or controlled by GBRA in the Guadalupe River Basin, including Canyon Reservoir, and NBU's provision of wholesale wastewater treatment service to GBRA, including treatment at NBU's Sam C. McKenzie, Jr. Water Reclamation Facility (the "McKenzie Plant").

I. RECITALS

WHEREAS, to address anticipated future shortages in water supply to meet increasing demand in the New Braunfels area, NBU filed an application with Texas Commission on Environmental Quality ("TCEQ") for new Water Use Permit No. 12469 (the "Permit"), which, if issued, would authorize NBU to divert and reuse up to 9,408 acre-feet of its groundwater-based return flows discharged from three wastewater treatment plants in the Guadalupe River for Municipal, Industrial, and Agricultural use;

WHEREAS, the Executive Director of the Texas Commission on Environmental Quality (the "TCEQ") has issued a draft permit;

WHEREAS, GBRA requested a contested case hearing on the Permit, which the TCEQ granted on August 9, 2016, and was subsequently named a party to the contested case hearing on the Permit at the State Office of Administrative Hearings ("SOAH") on December 12, 2016;

WHEREAS, the Parties entered into settlement negotiations in an effort to resolve the issues disputed in the contested case hearing, as well as others, and agreed to request a six-month continuance of the contested case hearing, which the SOAH Administrative Law Judges granted on February 23, 2017;

WHEREAS, GBRA anticipates increased wastewater service demand in certain drainage basins outside of NBU's retail service area generally located east of the Guadalupe River along State Highway 46;

WHEREAS, GBRA anticipates a corresponding need for wastewater treatment capacity to meet the increasing demand and has requested NBU provide wholesale wastewater treatment service to GBRA with capacity up to 2.5 million gallons per day ("MGD");

WHEREAS, GBRA is developing a water supply project that will produce and treat up to 15,000 acre-feet of groundwater from the Carrizo Aquifer in Gonzales County and to deliver such groundwater to customers;

WHEREAS, the Parties wish to enter into a mutual agreement that will establish a guaranteed source of raw water supply from GBRA to NBU, a guaranteed supply of available

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wastewater treatment capacity available on a wholesale basis from NBU to GBRA, and resolution of disputed issues that will avoid the expense of a contested case hearing on the Permit;

WHEREAS, this MOU outlines the general terms of the agreement in principle of the Parties to work together to identify and implement short-term and long-term water and wastewater supply options and availability; and

WHEREAS, upon acknowledgement of this MOU, NBU intends to withdraw its application for the Permit and request dismissal of the pending hearing without prejudice under the applicable TCEQ regulations;

NOW, THEREFORE, the Parties expressly acknowledge the following understandings with respect to water and wastewater supply options in the Guadalupe River basin:

II. UNDERSTANDINGS

A. Wholesale Wastewater Treatment Service

The Parties acknowledge that they will, in good faith, exercise all reasonable efforts to negotiate and enter into a formal, binding agreement with the following terms:

1. NBU will provide wholesale wastewater treatment service of up to 2.5 MGD of the total 10 MGD capacity of its McKenzie Wastewater Treatment Plant that allows GBRA discretion to decide which drainage basins in the Guadalupe River Basin, outside of NBU's service area, will be developed based on NBU's wholesale wastewater service capacity;

2. GBRA will pay to NBU \$4,081.00 per living unit equivalent ("LUE") for capital participation in existing facilities (the McKenzie Plant and related infrastructure), which will be calculated as a percentage of the actual as-built treatment capacity of the McKenzie Plant at the time of payment (the "Capital Participation Fee"). GBRA will pay the Capital Participation Fee prior to service being provided to reserve capacity up to 25% of the actual as-built treatment capacity of the McKenzie Plant at the time of payment;

3. For any future expansion of the McKenzie Plant, a new Capital Participation Fee per LUE payable by GBRA will be established and applied to any additional LUE connected to the expanded facility and served by the up to 2.5 MGD commitment;

4. NBU will calculate a fixed total LUE for any future expansion based on hourly peak/daily peak capacity of the McKenzie Plant and any such commitment by or to GBRA shall not exceed 2.5 MGD;

5. For purposes of illustration, based on existing McKenzie Plant capacity at the time of this acknowledgement (2.5 MGD), the capacity that is available to NBU to provide service to GBRA under the terms of this MOU (0.625 MGD, or 25 percent of 2.5 MGD) will

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support 2,083 LUE, while 25 percent of the capacity of the McKenzie Plant when fully built out to permitted capacity (2.5 MGD of the permitted 10 MGD capacity) will support 8,333 LUE.

6. In addition to the Capital Participation Fee, NBU will charge a monthly rate for actual wholesale wastewater service provided of \$4.527 per 1,000 gallons of wholesale wastewater collected by NBU from GBRA;

7. GBRA anticipates that it will establish a retail rate that will result in a customer rate that is no less than \$7.80 per 1,000 gallons. To the extent allowed by regulators and to the extent allowed under applicable law, GBRA's customer rate will be greater than the rate charged by NBU to NBU's retail sewer customers in any wholesale wastewater agreement;

8. GBRA will comply with the requirements and limitations of NBU's pretreatment program, including prescribed fees if sewage contributed by GBRA exceeds pretreatment parameters; and

9. NBU will provide multiple delivery points for GBRA to deliver wastewater to NBU's system, which will be clearly and specifically designated in the final agreement, along with flow monitoring expectations and requirements for each delivery point.

B. Water Supply

The Parties acknowledge that they will, in good faith, exercise all reasonable efforts to negotiate and enter into a formal, binding agreement with the following terms:

1. The Parties will work together to identify and implement short-term and long-term water supply options for NBU's exclusive use;

2. GBRA will work with NBU to identify temporary raw water options that could be available to NBU as needed to meet any municipal water supply needs, until additional long term water supply projects are developed;

3. GBRA is developing up to 15,000 acre-feet per year of groundwater in Gonzales County (the "Gonzales County groundwater")

4. GBRA will develop the Gonzales County groundwater project to make water available to NBU, either treated water directly from the groundwater source or through raw water in Canyon Reservoir that is made available by the offset of the groundwater source, by 2023 or earlier;

5. The cost of the Gonzales County groundwater project will include fixed costs per acre foot for groundwater leases and fixed operating costs on a take-or-pay basis, debt service per acre foot for infrastructure related to the production, treatment, and delivery of the groundwater on a take-or-pay basis, and operation and maintenance costs of the facilities on a take-and-pay basis;

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6. GBRA anticipates that all take-and-pay charges will commence when water deliveries commence.

7. GBRA anticipates that all take-or-pay charges will commence one year after execution of an agreement with the exception of debt service which shall only commence when project debt is outstanding.

8. GBRA will apply to the Texas Water Development Board ("TWDB") for funding from the State Water Implementation Fund of Texas ("SWIFT") program for financing the construction of the project, which will allow GBRA access to below-market interest rates or principal deferral for projects with capacity that will not be utilized for several years;

9. GBRA intends to provide NBU and other primary project participants with TWDB financing options available at the time that best meets their long-term financing and cash flow needs.

10. GBRA intends to provide NBU (and other primary project participants) the ability to structure the debt component of the water supply agreement based on NBU's needs within the parameters available from the TWDB;

11. GBRA's application to the TWDB for SWIFT funding will be submitted before the deadline for SWIFT applications in 2018, and all contracts necessary for water supply between the Parties will be formally and finally executed before such deadline;

12. GBRA's application to the TWDB for SWIFT funding will request that repayment of debt service not commence until a time concurrent with or immediately before scheduled construction completion of the project.

13. GBRA's preliminary estimate for delivering 8,000 acre-feet of treated groundwater to NBU from a 15,000 acre-foot project is approximately \$1,420 - \$1,470 per acre-foot with TWDB SWIFT financing. GBRA's preliminary estimate for making 8,000 acre-feet of raw water available to NBU from a 15,000 acre-foot project is approximately \$1,350 - \$1,400 per acre-foot with TWDB SWIFT Financing.

14. GBRA will provide consent if requested by NBU, as part of the water supply agreement, to NBU's subleasing of raw or treated water supply obtained from GBRA under the terms of the water supply agreement; and

15. GBRA, in the water supply agreement, will make available first to NBU any additional long-term water supply options that come available from downstream of NBU for a period of not less than 30 years.

C. TCEQ Indirect Reuse Permit Hearing

I. Upon execution of the agreement described in Section II.B. herein by both Parties, NBU shall withdraw its application to TCEQ for the Permit and to seek from SOAH and/or TCEQ

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dismissal of the application without prejudice, and NBU shall take all actions required under applicable regulations to obtain such dismissal;

2. NBU further agrees that, upon withdrawal of the above-referenced application, it will not file an application for indirect reuse of groundwater within the Guadalupe River Basin within the next 5 years without consent from GBRA;

3. GBRA acknowledges that, after 5 years, NBU intends to file a new application with the TCEQ for an indirect reuse authorization to allow NBU to divert and for NBU to reuse all of its groundwater-based return flows discharged from the same wastewater treatment facilities identified in NBU's application for the Permit;

4. The Parties agree that any future indirect reuse authorization application filed by NBU will be filed in full compliance with any law as it exists at the time the application is filed, including any law developed, created, or changed as a result of any legal proceedings relating to similar matters;

5. GBRA agrees that, after withdrawal of NBU's application under Paragraph II.C.2, GBRA will not protest or otherwise oppose an application by NBU to the TCEQ for an indirect reuse authorization for diversion reuse solely by NBU of groundwater-based return flows discharged from the three wastewater treatment facilities identified in NBU's application for the Permit; and

6. GBRA agrees to incorporate the agreement not to protest or oppose NBU's future indirect reuse authorization application into the terms of the binding, formal agreement.

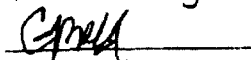
GUADALUPE BLANCO RIVER
AUTHORITY



Kevin Patteson
General Manager / CEO
Guadalupe-Blanco River Authority

Dated: 9/21/17

Approved - Legal:



NEW BRAUNFELS UTILITIES



Ian Taylor
CEO
New Braunfels Utilities

Dated: 9/5/17

Patrick Lackey

From: Alvin Schuerg <aschuerg@gbra.org>
Sent: Thursday, September 28, 2017 9:14 AM
To: Kevin Patteson; Darrell Nichols; Jonathan Stinson; Jeff McKee
Cc: Patrick Lackey
Subject: FW: Wastewater Service in Laubach Tract

FYI – See below.

I asked for a letter confirming that NBU did not oppose GBRA providing WW Service to the southern part of the Laubach Tract (Dunlap service area along Klein Rd). Instead Michael Short instead sent an e-mail confirming NBU's support for GBRA's service of that area as well as support for GBRA's intent to include the area in a CCN expansion.

From: Michael Short [mailto:mshort@nbutexas.com]
Sent: Thursday, September 28, 2017 7:30 AM
To: Alvin Schuerg
Subject: RE: Wastewater Service in Laubach Tract

Alvin,

Please accept this e-mail as a response to your request as described below and as documented in your letter August 8th. NBU supports GBRA's action to move forward with providing the Laubach South Tract sewer service. In addition NBU also supports GBRA's incorporation of the tract into GBRA's CCN.



Michael G. Short, P.E.
Chief Engineer Water Systems Engineering
P.O. Box 310289
New Braunfels, TX 78131-0289
mshort@nbutexas.com | 830.608.8970

From: Alvin Schuerg [mailto:aschuerg@gbra.org]
Sent: Friday, September 01, 2017 11:06 AM
To: Michael Short <mshort@nbutexas.com>
Subject: RE: Wastewater Service in Laubach Tract

Outstanding, thanks for the update.

From: Michael Short [mailto:mshort@nbutexas.com]
Sent: Friday, September 01, 2017 10:54 AM
To: Alvin Schuerg
Subject: RE: Wastewater Service in Laubach Tract

Alvin,

Yes I did receive. I am in favor I just need to craft a formal response and I will try and have that complete next week. I apologize for the delay.



Michael G. Short, P.E.
Chief Engineer Water Systems Engineering
P.O. Box 310289
New Braunfels, TX 78131-0289
mshort@nbutexas.com | 830.608.8970

From: Alvin Schuerg [<mailto:aschuerg@gbra.org>]
Sent: Friday, September 01, 2017 10:51 AM
To: Michael Short
Subject: Wastewater Service in Laubach Tract

Mike, I sent a letter over the first part of August related to GBRA's interest in providing wastewater service to the "southern" portion of Laubach tract of land which lies north of Klein Road across from Legend Pond. I was if you received the letter and if you and your staff have had an opportunity to discuss wastewater service in that area. If my memory serves me correctly, we had previously discussed NBU potentially serving the northern portion of the tract and GBRA serving the southern portion due to the topography of the land in that area.

I would appreciate any information or update that you can provide. Thanks.

ATTACHMENT 'L'
GBRA Financial Information

Accountability

Presented by [illegible]

GFOA Certificate of Achievement



Government Finance Officers Association

Certificate of Achievement for Excellence in Financial Reporting

Presented to

**Guadalupe-Blanco River Authority
Texas**

For its Comprehensive Annual
Financial Report
for the Fiscal Year Ended

August 31, 2015

A handwritten signature in black ink, reading 'Jeffrey R. Enos', is positioned above the title of the signatory.

Executive Director/CEO

The *Guadalupe Valley Hydroelectric Division* operates six “low head” hydroelectric plants in Guadalupe and Gonzales counties capable of producing 16 megawatts. All electricity produced by the division is delivered to the Guadalupe Valley Electric Cooperative (GVEC) for consumption principally within the river basin. The charge for the power delivered to GVEC includes a fixed monthly charge of \$125,000 and an energy charge of 3.14¢ per kilowatt hour of energy produced. GV Hydro Division personnel are responsible for the operation and maintenance of the generating stations as well as the associated dams, lakes, ancillary equipment and adjacent properties.

The *Rural Utilities Division* operates and maintains six wastewater treatment plants in Comal, Hays and Guadalupe counties. These small plants serve rural areas where septic tanks do not provide proper or safe wastewater disposal and the extension of wastewater services from nearby municipalities is not cost effective. The six wastewater plants include Canyon Park, Dunlap, Springs Hill, Northcliffe, Shadow Creek and Sunfield. The most recent of these wastewater treatment plant operations is the Sunfield Municipal Utility District’s (MUD) Wastewater Treatment Plant. GBRA began operating this plant in Fiscal Year 2009 utilizing personnel from the nearby City of Buda and Shadow Creek wastewater plants that are also operated by GBRA. GBRA’s operation of the Buda, Shadow Creek and Sunfield plants using the same personnel provides a cost effective means for GBRA to safely and properly meet their wastewater treatment needs of both the City and two MUDs.

The development and operation of water supply sources and raw water delivery systems is the responsibility of the *Water Resource Division*. The division contracts with municipal, industrial and agricultural users throughout the river basin to provide a dependable supply of surface water. This division is anchored in the upper reaches of the river basin by Canyon Reservoir and in the lower reaches of the basin by the Guadalupe River Diversion Dam and Salt Water Barrier. Additionally, this division is responsible for GBRA’s water quality program as well as the operation of a regional water quality laboratory located at the general office in Seguin. The regional water quality laboratory provides services to GBRA’s other operations as well as to individuals, municipalities, industries and private entities throughout the region. Other operations recognized within the Water Resource Division are the Calhoun Canal System, the City of San Marcos Water Treatment Plant, the City of Buda Wastewater Treatment Plant, the Western Canyon Water Treatment Plant, and retail, treated water delivery and wastewater treatment systems in Comal County. Included within these Comal County operations are the Comal Trace, Johnson Ranch, and Cordillera real estate developments and starting in FY 2015, the Singing Hills Wastewater Plant on behalf of the City of Bulverde.

GBRA’s *Port Lavaca Water Treatment Plant Division* operates and maintains a water treatment plant that supplies treated water to the City of Port Lavaca, the Calhoun County Rural Water Supply System, and the Port O’Connor Improvement District (ID). The division, which commenced operation in 1969, receives raw water from the Guadalupe River delivered through 20 miles of canals. GBRA then treats and disinfects the water to drinking water standards before delivering it to the City, Rural Water System, and ID.

The *Calhoun County Rural Water Supply Division* began in 1974 and currently operates and maintains a treated water distribution system to supply approximately 1,407 homes and businesses located throughout a large portion of the unincorporated areas of Calhoun County.

The *Coleta Creek Division* operates and maintains the Coleta Creek Reservoir located thirteen miles southwest of Victoria just off State Highway 59. The reservoir, which was completed and filled in 1981, serves as a cooling pond for a coal-fired electric generating plant owned by Coleta Creek Power, LP. This division also operates and maintains recreation facilities that provide grounds for camping and picnicking as well as public access to the lake for fishing, swimming, and boating.

Surface water from the San Marcos River is treated by the *Luling Water Treatment Plant Division* and delivered to the City of Luling and the City of Lockhart for distribution. The plant was constructed in 1978 and has a treatment capacity of 2.5 MGD.

the dam. This caused agricultural losses which when coupled with losses in agricultural support industries were in the billions of dollars. Fortunately, due to the effects of El Nino, rainfall during 2015 and 2016 has resulted in reservoirs recovering to full or nearly full levels for much of the State. While this is a welcome change, the State as well as various regional water providers, have recognized the need to implement additional water management strategies identified in the State's regional water planning process.

The Local Economy. GBRA's service area is geographically part of south central Texas. It stretches from the Texas Hill Country through the IH-35, IH10, and State Highway 130 Corridors and onto the Texas Gulf Coast. This geographic diversity provides economic diversity with a unique combination of agriculture, oil and gas, defense, high tech, higher education centers, tourism, seawater ports, and heavy industry. This diversity allows the regional economy to be among the State's growth leaders and outpace the national economy. For reporting purposes, the State Comptroller places most of the GBRA service area into the Alamo Region. The counties in and around the Cities of San Antonio and Austin are the most populous of this area.

The northern region of the GBRA district is lies between the Austin and San Antonio Metropolitan Statistical Areas (MSAs). This location and the vibrant economies of these two cities have correspondingly elevated the economy of the northern Guadalupe River Basin over the last several decades. Both of these cities are ranked in the top twenty nationally when judged on job growth and this will obviously float the economic possibilities of the surrounding areas of the GBRA district along with them. Consistent with the exceptional growth of its larger neighbors, the City of San Marcos has been named by Forbes magazine as "America's Next Metropolis". Forbes cites the astounding 37% growth rate as the reason for its declaration as well as the recent construction of Amazon's newest distribution center in San Marcos.

Another noteworthy growth factor for the local economy has been the oil and gas exploration boom related to the Eagle Ford Shale discovery over the last decade. This formation stretches across 23 Texas counties and two of those counties, Gonzales and DeWitt, are located in the middle stretch of the GBRA district. The impact of this discovery is still evident but due to the drop in global oil prices, the \$61 billion per year economic impact this discovery has produced in previous years has diminished somewhat. Nevertheless, the economic ripple effects can be seen in everything from new housing to new commercial developments. Just north of Gonzales and DeWitt Counties lies Guadalupe County. This is another county within the GBRA district that is experiencing considerable job growth. In an August 13, 2013 article of Money Magazine, this job growth is attributed to the construction of several new manufacturing and distribution centers including Caterpillar and Continental Automotive which in the aggregate have invested \$459 million and brought in over 2,000 jobs. Further south in GBRA's district lies the City of Victoria. With its location near the Texas Gulf Coast, the Eagle Ford oil discovery, and a number of large petrochemical plants within a 30 mile radius, the City of Victoria is an economic standout. In fact, according to the Milken Institute's 2014 report entitled "2014 Best Performing Cities: Where America's Jobs Are Created and Sustained", the City of Victoria was ranked number three in the country. Within an easy commute from Victoria, just south in Calhoun County, Formosa Plastics is in the process of expanding its petrochemical plant by more than \$1 billion which should further continue the area's economic expansion and job growth.

To continue these results and economic positioning for years into the future, it is GBRA's mission and role to assist the area's economy and population growth by providing high quality water and wastewater treatment while also developing future water supplies in order to better assure the district's continued economic vitality.

MAJOR INITIATIVES

For the Year. GBRA's major initiative for Fiscal Year 2016, is the provision of ample water resources for the Guadalupe River Basin along with the planning that is necessary to permit, finance,

among these possibilities is the development of groundwater from the Carrizo Aquifer in the Gonzales County area of GBRA's district. It is incumbent on both GBRA and the regional water planning group to continue to study and ultimately implement various water supply projects in order to meet the water demands of the rapidly growing population of the Guadalupe River Basin.

In addition to the effort focused on future water supply alternatives, GBRA also worked to ensure existing water supplies are used efficiently and wisely. GBRA actively worked with water users and local governments located within the Basin to educate them on water conservation efforts. GBRA also worked closely with the Edwards Aquifer Authority, Guadalupe Basin Coalition, and the Edwards Aquifer Recovery Implementation Group to ensure the Edwards aquifer was managed effectively and in accordance with state law thereby ensuring adequate springflow into the Guadalupe and San Marcos Rivers.

FINANCIAL INFORMATION

Management of GBRA is responsible for establishing and maintaining an internal control structure designed to ensure that the assets of GBRA are protected from loss, theft or misuse and to ensure adequate accounting data is compiled to allow for the preparation of financial statements in conformity with accounting principles generally accepted in the United States of America. The internal control structure is designed to provide reasonable, but not absolute, assurance that these objectives are met. The concept of reasonable assurance recognizes that: (1) the cost of a control should not exceed the benefits likely to be derived; and (2) the valuation of costs and benefits requires estimates and judgments by management. As demonstrated by the statements and schedules included in the financial section of this report as well as the Management Discussion and Analysis on pages 46 through 50, GBRA continues to meet its responsibility for sound financial management. GBRA recommends readers pay close attention to each section of this report including the oversight review provided by the management discussion and analysis in order to have a thorough understanding of GBRA, its activities, financial position and results of operations.

In addition to other internal controls, GBRA also maintains budgetary controls. The objective of these budgetary controls is to ensure compliance with contractual provisions and to properly manage resources. Since GBRA does not have the power of taxation, there is no appropriated budget or encumbrance accounting system nor any legal requirement to include comparative budget to actual expenditure statements in this report. Nevertheless, the GBRA staff diligently prepares the Annual Work Plan and Budget to assure projects are prioritized and the use of funds is effective and efficient.

GBRA's financial policies and the resulting rates and financial structure provide support to the management and decision making of the organization. Since GBRA is not a taxing district, it must rely solely upon the service rates that are adopted and the customer revenue that is generated to support GBRA's projects and operations. One strategy that GBRA has adopted through the years to mitigate the volatility of its revenue stream is to diversify operations. One group of operations are "rate-based" and these operations are structured in such a way that financial gains and losses may result. A second group of operations are "contract-based" and these operations are structured to yield an exact cost of service to customers with no corresponding financial gain or loss to GBRA. This strategy has allowed GBRA to expand its operations through the years, meet its legislative mandate of providing water and wastewater services, mitigate financial risk, while still accumulating the financial reserves important to any viable organization. Another rate strategy that GBRA has employed is the requirement of a debt coverage factor on all bond issuances that are of a regional, multi-customer nature. This coverage factor has allowed GBRA to expand its financial reserves and position the organization to better assimilate the monetary impacts of natural disasters, unscheduled repair projects, and any customer defaults while also providing funds for new project start up. These strategies have been particularly useful this past year in dealing with the effects of the flood and studies to determine the most appropriate new water supply project.

Financial Section

Other Matters

Required Supplementary Information

Accounting principles generally accepted in the United States of America require that the management's discussion and analysis, the schedule of changes in the net pension liability and related ratios, and schedule of employer contributions on pages 38-42 and 68-70 be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board, who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

Other Information

Our audit was conducted for the purpose of forming opinions on the financial statements that collectively comprise the Guadalupe-Blanco River Authority's basic financial statements. The introductory section, other supplemental schedules, and statistical section are presented for purposes of additional analysis and are not a required part of the basic financial statements.

The other supplemental schedules are the responsibility of management and were derived from and relate directly to the underlying accounting and other records used to prepare the basic financial statements. Such information has been subjected to the auditing procedures applied in the audit of the basic financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the other supplemental schedules are fairly stated, in all material respects, in relation to the basic financial statements as a whole.

The introductory and statistical sections have not been subjected to the auditing procedures applied in the audit of the basic financial statements and, accordingly, we do not express an opinion or provide any assurance on them.

Other Reporting Required by Government Auditing Standards

In accordance with *Government Auditing Standards*, we have also issued our report dated December 14, 2016, on our consideration of Guadalupe-Blanco River Authority's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements and other matters. The purpose of that report is to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering Guadalupe-Blanco River Authority's internal control over financial reporting and compliance.

ABIP, PC

Certified Public Accountants
San Antonio, Texas

December 14, 2016

\$5,383,066 per year during the period. This has been further manifested in an increase of \$4,732,084 in Cash, Cash Equivalents, and Unrestricted Investments during the period. The Cash and Unrestricted Investment increase is principally reflected in the 2014 – 2016 increase in Other Assets – Investments Unrestricted of \$5,533,904. Another noteworthy item for the three year period relates to the changing pension plan reporting requirements. Starting in 2015, GASB Statement 68 requires that governmental organizations recognize in their financial statements any Unfunded Actuarial Accrued Liability associated with a defined benefit pension plan. The net result of this altered accounting includes recording in FY 2016 and 2015 respectively, a Net Pension Liability of \$6,588,043 and \$4,320,626. Disclosure requirements that further explain GBRA's pension plan and the requirements of GASB 68 are found in Footnote C. GBRA emphasizes that despite the financial statement consequences of these altered Pension Plan accounting requirements, GBRA's operations and their financial statement impacts has been positive over the period herein presented as previously stated. The following table presents a Condensed Statement of Net Position for August 31, 2016, 2015 and 2014:

GUADALUPE-BLANCO RIVER AUTHORITY			
STATEMENT OF NET POSITION			
AUGUST 31, 2016, 2015, AND 2014			
ASSETS	2016	2015	2014
Current Assets			
Unrestricted Assets	\$ 18,577,210	\$ 20,117,330	\$ 19,238,562
Restricted Assets	10,334,471	6,413,173	8,844,443
Long-Term Assets			
Restricted Assets	2,983,782	3,936,693	1,457,881
Capital Assets	165,632,254	169,048,256	173,439,744
Other Assets	20,446,470	15,217,372	18,093,797
Total Assets	<u>217,974,187</u>	<u>214,732,824</u>	<u>221,074,427</u>
DEFERRED OUTFLOWS OF RESOURCES	<u>3,834,731</u>	<u>2,323,333</u>	<u>185,270</u>
Total Assets and Deferred Outflows of Resources	<u>\$ 221,808,918</u>	<u>\$ 217,056,157</u>	<u>\$ 221,259,697</u>
LIABILITIES AND NET POSITION			
Current Liabilities			
Payable from Current Assets	\$ 4,140,103	\$ 3,568,271	\$ 3,970,464
Payable from Restricted Assets	6,412,616	7,299,682	6,627,639
Long-Term Liabilities			
Bonds and Loans Payable	114,754,269	118,960,641	126,102,151
Advances for Operations	521,038	417,875	404,415
Net Pension Liability	6,588,043	4,320,626	-
Total Liabilities	<u>132,416,069</u>	<u>134,567,095</u>	<u>137,104,669</u>
DEFERRED INFLOWS OF RESOURCES	<u>9,135,357</u>	<u>7,969,798</u>	<u>6,827,070</u>
NET POSITION			
Net Investments in Capital Assets	\$ 45,212,346	\$ 43,492,246	\$ 41,302,982
Restricted for Debt Service	4,732,175	6,916,028	6,874,088
Restricted for Insurance	1,300,517	1,184,715	1,173,475
Unrestricted	29,012,454	22,926,275	27,977,413
Total Net Position	<u>80,257,492</u>	<u>74,519,264</u>	<u>77,327,958</u>
Total Liabilities, Deferred Inflows and Net Position	<u>\$ 221,808,918</u>	<u>\$ 217,056,157</u>	<u>\$ 221,259,697</u>

The Total Net Position amount in the above statement is subdivided into an Unrestricted Net Position amount, two Restricted Net Positions amounts, and a final amount described as Net Investments in Capital Assets. The two restricted Net Position subcomponents include debt service payments, and insurance reservations. These reserve accounts are explained in more detail in Footnotes A and G.

adequate to offset the \$3.6M increase in Program Expenses and Interest Expense. While various factors caused this result, principal among them was a commitment to increase customer rates when necessary, an aggressive plan to control discretionary spending, and the reduction interest expense through the amortization and periodic refunding of long-term debt.

Capital Asset and Long-Term Debt Activity

As of August 31, 2016, 2015, and 2014 respectively, GBRA's total investment in Long-Term Capital Assets net of depreciation were \$165,632,254; \$169,048,256; and \$173,439,744. These capital assets which are shown in the long-term asset section of GBRA's Statement of Net Position are comprised of a number of different types of assets. Included in this asset type are water rights, dams, canals, water treatment plants, wastewater treatment plants, park facilities, hydroelectric plants, pipelines, and electric transmission facilities. The amount of capital assets recognized by GBRA declined by 4.5% or \$7,807,490 during period FY 2014-2016. The principal reason for this asset decrease is the recognition of annual depreciation costs on these assets with no corresponding large asset acquisition to offset the depreciation.

GBRA's long-term debt is comprised of outstanding revenue bond issues, bank loans, and a loan from the United States Government related to the construction of Canyon Reservoir. The total revenue bonds outstanding, exclusive of bond discounts and premiums, as of August 31, 2014, 2015, and 2016 respectively were \$117,000,000; \$111,815,000; and \$108,465,000. Between Fiscal Years 2014 and 2016, revenue bonds outstanding decreased by a net amount of \$8,535,000. During FY 2016, GBRA did issue \$2,000,000 in new revenue bonds to fund new water supply studies however this amount was more than offset by the annual principal repayment on existing GBRA bond issues as well as the refunding or replacement of other bond issues.

GBRA's long-term loans outstanding as of fiscal year end 2014, 2015 and 2016 respectively amounted to \$8,024,267; \$7,294,084; and \$6,054,591. These varying amounts represent the annual principal repayments of the various loans including a lump-sum payment on one loan in GBRA's Rural Utilities Division following the payoff of a \$2.5M Letter of Credit which was collateral from a developer on a wastewater treatment plant expansion.

More information on GBRA's capital assets and long-term debt is available in footnotes to the Basic Financial Statements. Capital asset information is presented in Footnote E and information about GBRA's long-term debt is available in Footnote B.

Infrastructure

GBRA recognizes all equipment and infrastructure with an original cost greater than \$2,000 and with a life exceeding one year as Capital Assets. Since all of GBRA's activity is accounted for in an enterprise fund similar to the accounting businesses, GBRA has always recorded the historical cost of Capital Assets and depreciated that cost over the estimated life of the asset.

The condition of GBRA's infrastructure and capital assets is generally very good. Most of GBRA's equipment and infrastructure is generally less than 30 years old, with much of it being less than 20 years old. Additionally, this equipment is subject to an ongoing preventive maintenance program. One area of concern is the infrastructure within the Guadalupe Valley Hydroelectric System (GV Hydro). This system is comprised of six low-head hydroelectric dams, power houses and ancillary equipment all of which was originally constructed in the 1920's and 1930's. Due to the age of many of the GV Hydro components a major emphasis on repair and replacement will be required in the next few years to return this System to the level of equipment condition present in GBRA's other operations. This initiative has not heretofore been undertaken due to a lacking of funding in the System. The funding deficiency has been the result of the reduction in Hydroelectric Power Sales Revenue because of drought conditions in 4 out of the last 7 years as well as a general impediment to increased hydroelectric energy charges due to a stable wholesale electric market.

GUADALUPE-BLANCO RIVER AUTHORITY
STATEMENT OF NET POSITION

AUGUST 31, 2016 AND 2015

ASSETS AND DEFERRED OUTFLOWS	2016	2015
CURRENT ASSETS		
Unrestricted Assets		
Cash and Cash Equivalents	\$ 8,384,471	\$ 10,567,257
Investments-Unrestricted	7,140,096	6,421,372
Interest Receivable	87,161	56,565
Accounts Receivable-Operating	2,494,546	2,557,977
Other Current Assets	470,936	514,154
Total Unrestricted Assets	<u>18,577,210</u>	<u>20,117,330</u>
Restricted Assets		
Cash and Cash Equivalents	7,643,028	3,937,416
Investments-Restricted	2,655,467	2,445,791
Interest Receivable	35,976	29,966
Total Restricted Assets	<u>10,334,471</u>	<u>6,413,173</u>
Total Current Assets	<u>28,911,681</u>	<u>26,530,503</u>
LONG-TERM ASSETS		
Restricted Assets		
Investments-Restricted	<u>2,983,782</u>	<u>3,936,693</u>
Total Restricted Assets	<u>2,983,782</u>	<u>3,936,693</u>
Capital Assets		
Land, Water and Storage Rights	35,538,587	35,538,587
Dams, Plants and Equipment	212,374,711	211,433,931
Construction In Progress	1,293,941	165,344
Less Accumulated Depreciation	<u>(83,574,985)</u>	<u>(78,089,606)</u>
Total Capital Assets	<u>165,632,254</u>	<u>169,048,256</u>
Other Assets		
Investments-Unrestricted	13,151,296	10,043,251
Long-Term Loans Receivable	186,971	244,054
Contract Development Costs (Net of Amortization)	1,304	4,277
Permits and Licenses (Net of Amortization)	445,742	469,860
Project Development Costs	6,661,157	4,455,930
Net Pension Asset	-	-
Total Other Assets	<u>20,446,470</u>	<u>15,217,372</u>
Total Long-Term Assets	<u>189,062,506</u>	<u>188,202,321</u>
DEFERRED OUTFLOWS OF RESOURCES	<u>3,834,731</u>	<u>2,323,333</u>
Total Assets and Deferred Outflows of Resources	<u>\$ 221,808,918</u>	<u>\$ 217,056,157</u>
LIABILITIES, DEFERRED INFLOWS AND NET POSITION		
CURRENT LIABILITIES		
Payable from Unrestricted Assets		
Current Portion of Long-Term Loans Payable	\$ 350,636	\$ 428,745
Interest Payable	45,057	48,981
Accounts Payable-Operating	3,744,410	3,090,544
Total Current Unrestricted Liabilities	<u>4,140,103</u>	<u>3,568,271</u>
Payable from Restricted Assets		
Current Portion of Revenue Bonds	5,210,000	5,350,000
Current Portion of Long-Term Loans Payable	105,000	810,748
Interest Payable	1,097,616	1,138,934
Total Current Restricted Liabilities	<u>6,412,616</u>	<u>7,299,682</u>
Total Current Liabilities	<u>10,552,719</u>	<u>10,867,953</u>
LONG-TERM LIABILITIES		
Revenue Bonds Payable	114,365,314	118,256,050
Long-Term Loans Payable	6,054,591	7,294,084
Less Current Portion	<u>(5,665,636)</u>	<u>(6,589,493)</u>
Total Bonds and Loans Payable	<u>114,754,269</u>	<u>118,960,641</u>
Advances for Operations	521,038	417,875
Net Pension Liability	6,588,043	4,320,626
Total Long-Term Liabilities	<u>121,863,350</u>	<u>123,699,142</u>
Total Liabilities	<u>132,416,069</u>	<u>134,567,095</u>
DEFERRED INFLOWS OF RESOURCES	<u>9,135,357</u>	<u>7,969,798</u>
NET POSITION		
Net Investments in Capital Assets	45,212,346	43,492,246
Restricted for Insurance	1,300,517	1,184,715
Restricted for Debt Service	4,732,175	6,916,028
Unrestricted	29,012,454	22,926,275
Total Net Position	<u>80,257,492</u>	<u>74,519,264</u>
Total Liabilities, Deferred Inflows of Resources and Net Position	<u>\$ 221,808,918</u>	<u>\$ 217,056,157</u>

The accompanying notes are an integral part of this statement.

GUADALUPE-BLANCO RIVER AUTHORITY
STATEMENT OF CASH FLOWS

FISCAL YEARS ENDED AUGUST 31, 2016 AND 2015

	2016	2015
CASH FLOWS FROM OPERATING ACTIVITIES:		
Cash Received from Customers.....	\$ 50,178,121	\$ 46,671,059
Cash Received from Interfund Administrative Charges.....	2,943,855	2,788,639
Cash Paid for Personnel Operating Costs.....	(12,257,607)	(12,328,695)
Cash Paid for Other Operating and Maintenance Costs.....	(21,392,487)	(19,500,373)
Cash Paid for Interfund Administrative Charges.....	(2,849,629)	(2,683,607)
Costs Associated with Whooping Crane Endangered Species Lawsuit.....	-	(220,901)
Net Cash Flows From Operating Activities.....	16,622,253	14,726,122
CASH FLOWS FROM NONCAPITAL AND RELATED FINANCING ACTIVITIES:		
Cash Received from Grants.....	1,531,700	891,457
Net Cash Flows Used by Noncapital and Related Activities.....	1,531,700	891,457
CASH FLOWS FROM CAPITAL AND RELATED FINANCING ACTIVITIES:		
Proceeds from Advances from Customers, Developers, and Other Governmental Units.....	25,833	20,128
Proceeds from Revenue Bonds and Loans for Capital Assets and Plant Expansion.....	2,000,000	-
Proceeds from Sale of Capital Assets.....	13,137	25,718
Purchase of Capital Assets.....	(1,034,202)	(1,202,647)
Cash Paid for Construction in Progress and Project Development.....	(3,333,824)	(413,710)
Interest Paid.....	(4,432,417)	(4,585,660)
Principal Payments on Revenue Bonds.....	(5,906,793)	(5,753,075)
Principal Payments on Loans.....	(1,239,493)	(730,183)
Net Cash Flows Used by Capital and Related Financing Activities.....	(13,907,759)	(12,639,429)
CASH FLOWS FROM INVESTING ACTIVITIES:		
Cash Received from Investments.....	2,063,649	4,584,338
Investment Income Received.....	328,916	135,090
Cash Paid for Investments.....	(5,115,933)	(5,210,689)
Net Cash Flows Used by Investing Activities.....	(2,723,368)	(491,261)
NET CHANGE IN CASH AND CASH EQUIVALENTS.....	1,522,826	2,486,889
CURRENT CASH AND CASH EQUIVALENTS:		
At Beginning of Year.....	10,567,257	7,842,917
At End of Year.....	8,384,471	10,567,257
Net Increase.....	(2,182,786)	2,724,340
RESTRICTED CASH AND CASH EQUIVALENTS:		
At Beginning of Year.....	3,937,416	4,174,867
At End of Year.....	7,643,028	3,937,416
Net Decrease.....	3,705,612	(237,451)
TOTAL CASH AND CASH EQUIVALENTS:		
At Beginning of Year.....	14,504,673	12,017,784
At End of Year.....	16,027,499	14,504,673
NET CHANGE IN CASH AND CASH EQUIVALENTS.....	\$ 1,522,826	\$ 2,486,889
RECONCILIATION OF OPERATING INCOME TO NET CASH FLOWS FROM OPERATING ACTIVITIES:		
Operating Income.....	\$ 9,471,835	\$ 9,740,609
Adjustments to Reconcile Operating Income to Net Cash Flows		
From Operating Activities:		
Depreciation and Amortization.....	5,617,403	5,705,554
Actuarially Determined Net Pension Expense.....	513,330	1,013,949
Costs Associated with Whooping Crane Endangered Species Lawsuit.....	-	(220,901)
Net Change in Assets and Liabilities from Operating Activities:		
Operating Accounts Receivable.....	189,036	(242,386)
Other Current Assets.....	43,223	(36,679)
Operating Accounts Payable.....	626,890	450,278
Net Pension Liability.....	160,536	(1,684,302)
Total Adjustments.....	7,150,418	4,985,513
NET CASH FLOWS FROM OPERATING ACTIVITIES.....	\$ 16,622,253	\$ 14,726,122

NON-CASH TRANSACTIONS SCHEDULE

1. During fiscal year 2016 and 2015, an adjustment of \$37,281 and (\$79,655) respectively, was made to adjust investments to fair value.

The accompanying notes are an integral part of this statement.

GUADALUPE-BLANCO RIVER AUTHORITY
NOTES TO COMBINED FINANCIAL STATEMENTS
AUGUST 31, 2016 AND 2015

6. **Capitalization of Interest.** It is GBRA's policy to capitalize net interest costs on funds borrowed to finance the construction of capital assets. GBRA recorded no interest expense or interest income for construction in progress.
7. **Deferred Expenses/Revenue.** Certain utility expenses that do not require funds currently are deferred to such periods as they are intended to be recovered in rates charged to customers. Likewise, certain utility revenue is deferred to such periods in which the costs related to that revenue is recognized. Deferred expenses and revenue will be recognized in future years by setting rates sufficient to provide funds for the related debt service requirements.
8. **Deferred Outflows/Inflows.** GBRA adopted the provisions of GASB #63 Financial Reporting of Deferred Outflows of Resources, Deferred Inflows of Resources, and Net Position. The statement requires governments to account for deferred outflows of resources, deferred inflows of resources and net position as they relate to derivatives and service concession arrangements. Under the provisions of this statement, governments will already present a Statement of Net Position and changes the caption "Net Assets" to "Net Position". GBRA has no deferred outflows or inflows of resources as they relate to derivatives and service concession agreements.
9. **Debt Issue Costs.** The Authority also adopted the provisions of GASB #65 items previously reported as Assets and Liabilities. The GASB requires that the Debt issuance costs (except for any portion that is a prepayment of insurance) should be recognized as an expense in the period incurred and no longer be reported in statements of net position. The financial statements have been restated to reflect the provisions of GASB #65.
10. **Change in Accounting Policy.** During fiscal year 2015, GBRA changed accounting policies related to reporting of net pension liability, deferred outflows of resources, and deferred inflows of resources in a statement of net position by adopting GASB Statement No. 68 "Accounting and Financial Reporting for Pensions – an Amendment of GASB Statement No. 27."

NOTE B - LONG TERM LIABILITIES

GBRA currently has \$114,519,591 of debt outstanding from long-term loans and revenue bonds. This is exclusive of defeasance, discounts and premiums associated with these bonds.

The loans and revenue bonds outstanding at August 31, 2016 mature serially through 2039 as follows.

Year Ending August 31	LONG-TERM LOANS				REVENUE BONDS			
	Total	Interest	Principal	Balance of Principal Outstanding	Total	Interest	Principal	Balance of Principal Outstanding
				\$6,054,591				\$108,465,000
2017	644,654	186,018	455,636	5,598,955	9,823,693	4,613,693	5,210,000	103,255,000
2018	638,146	172,103	466,043	5,132,912	9,181,225	4,496,225	4,685,000	98,570,000
2019	639,557	157,775	481,782	4,651,130	9,195,922	4,335,922	4,860,000	93,710,000
2020	610,524	143,398	467,126	4,184,004	9,191,409	4,146,409	5,045,000	88,665,000
2021	606,683	129,104	477,579	3,706,425	9,193,764	3,943,764	5,250,000	83,415,000
2022	577,114	114,608	462,446	3,243,979	9,197,848	3,727,848	5,470,000	77,945,000
2023	547,379	101,628	445,751	2,798,228	9,206,285	3,496,286	5,710,000	72,235,000
2024	548,120	88,531	459,589	2,338,639	9,423,331	3,303,331	6,120,000	66,115,000
2025	548,095	75,011	473,084	1,864,955	8,795,522	3,040,522	5,755,000	60,360,000
2026	549,102	61,057	488,045	1,376,910	8,789,810	2,789,810	6,000,000	54,360,000
2027	240,453	46,664	193,789	1,183,121	8,800,110	2,525,110	6,275,000	48,085,000
2028	235,610	39,625	195,985	987,136	8,491,979	2,244,979	6,250,000	41,835,000
2029	235,683	32,404	203,279	783,857	8,482,095	1,962,095	6,520,000	35,315,000
2030	240,506	24,830	215,676	568,181	8,070,297	1,665,297	6,405,000	28,910,000
2031	240,074	16,893	223,181	345,000	7,560,226	1,380,226	6,180,000	22,730,000
2032	178,684	8,684	170,000	175,000	7,308,080	1,093,080	6,215,000	16,515,000
2033	177,923	2,923	175,000	--	7,306,538	796,538	6,510,000	10,005,000
2034					2,465,412	485,412	1,980,000	8,025,000
2035					2,466,107	396,107	2,070,000	5,955,000
2036					2,257,206	302,206	1,955,000	4,000,000
2037					2,255,979	210,979	2,045,000	1,955,000
2038					1,065,242	115,242	950,000	1,005,000
2039					1,064,255	59,255	1,005,000	--
	<u>\$ 7,455,907</u>	<u>\$ 1,401,316</u>	<u>\$ 6,054,591</u>		<u>\$159,595,336</u>	<u>\$ 51,130,336</u>	<u>\$ 108,465,000</u>	

**VALUPE-BLANCO RIVER AUTHORITY
FINANCIAL STATEMENTS, CONTINUED
FISCAL YEARS 2016 AND 2015**

B – LONG-TERM LIABILITIES (CONTINUED)

GBRA issued in Fiscal Year 2011 General Improvement and Refunding Revenue Bonds, Series 2011. These bonds were issued to retire the General Improvement Revenue Bonds, Series 2002 and to provide funds for the lump sum buy-out of the Water Right Subordination Agreement between GBRA and the City of Seguin. The refunding of the 2002 General Improvement Revenue Bonds produced an economic savings of \$27,473, but was necessary to remove bond covenants in the 2002 bonds to facilitate the new money portion of the bond. GBRA's buy-out of the Water Right Subordination Agreement effectively produced a savings of approximately \$4,295,500. Bonds outstanding that are considered defeased as a result of the 2011 refunding are \$0.

GBRA issued in Fiscal Year 2011 Regional Raw Water Delivery System Contract Revenue Refunding Bonds, Series 2010 (City of San Marcos portion). These bonds were issued to retire the 1998 bonds, except for the September 1, 2010 payment of \$340,000. As a result of the refunding, GBRA reduced its total debt service requirement by \$842,606 and produced a net present value savings (economic gain) of \$48,929. Bonds outstanding that are considered defeased as a result of the 2011 refunding are \$0.

GBRA issued in Fiscal Year 2013 Contract Revenue Refunding Bonds (IH35 Treated Water Delivery Bonds), Series 2013. These bonds were issued to retire the Series 2004 bonds. As a result of the refunding, GBRA reduced its total debt service requirements by \$4,307,567 and produced a net present value savings (economic gain) of \$2,877,554. Bonds outstanding that are considered defeased as a result of the 2013 refunding are \$0.

GBRA issued in Fiscal Year 2013 Contract Revenue Refunding Bonds (Western Canyon Regional Water Supply Project), Series 2013A and Series 2013B. As a result of the refunding, GBRA reduced its total debt service requirements by \$9,669,586 and produced a net present value savings (economic gain) of \$6,741,092. Bonds outstanding that are considered defeased as a result of the 2013 refunding are \$0.

GBRA issued in Fiscal Year 2011 Water Supply Revenue Refunding Bonds, Series 2011 (Port Lavaca Water Treatment Plant Project). These bonds were issued to retire the Series 2000 bonds. As a result of the refunding, GBRA reduced its total debt service requirements by \$4,115 and produced a net present value savings (economic gain) of \$39,856. Bonds outstanding that are considered defeased as a result of the 2011 refunding are \$0.

GBRA issued in Fiscal Year 2014 Treated Water Delivery System Contract Revenue Refunding Bonds, Series 2014 (City of Lockhart Project). These bonds were issued to retire the Series 2004 bonds. As a result of the refunding, GBRA reduced its total debt service requirements by \$634,189 and produced a net present value savings (economic gain) of \$478,361. Bonds outstanding that are considered defeased as a result of the 2014 refunding are \$0.

GBRA issued in Fiscal Year 2011 Contract Revenue Refunding Bonds, Series 2010 (City of Lockhart Wastewater Treatment System Project). These bonds were issued to retire the Series 1996 bonds. As a result of the refunding, GBRA reduced its total debt service requirements by \$248,321 and produced a net present value savings (economic gain) of \$220,321. Bonds that are considered defeased as a result of the current year refunding are \$0.

The various bond indentures, resolutions and agreements provide for the establishment of separate restricted accounts for debt service, retirement, construction, contingencies, etc. These accounts are reported as restricted assets in the accompanying financial statements. The bond indentures contain flow of funds requirements which generally provide the order in which funds are to be applied. These requirements have been met. The following bond indentures of GBRA contain bond coverage requirement provisions: 1) General Improvement and Refunding Revenue Bonds, Series 2011; 2) Contract Revenue Bonds (IH35), Series 2013; 3) Combined Contract Revenue Bonds (Western Canyon), Series 2013; 4) Combined Contract Revenue Bonds (RRWDS), Series 2007; 5) RRWDS Contract Revenue Refunding Bonds (City of San Marcos), Series 2010; and 6) Treated Delivery System Contract Revenue Refunding Bonds (City of Lockhart), Series 2014.

PUADALUPE-BLANCO RIVER AUTHORITY
NOTES TO COMBINED FINANCIAL STATEMENTS, CONTINUED
AUGUST 31, 2016 AND 2015

(NOTE C - DEFINED BENEFIT PENSION PLAN)

Actuarial Assumptions

The total pension liability in the January 1, 2016 actuarial valuation was determined using the following actuarial assumptions, applied to all periods included in the measurement:

Inflation	3.50 percent
Salary increases	3.00 percent, plus merit and promotion increases that vary by age and service
Investment rate of return	7.00 percent, net of pension plan investment expense, including inflation

Mortality rates were based on the RP-2000 Combined Healthy Mortality Tables for males and for females (sex distinct) projected to 2024 by scale AA.

The long-term expected rate of return on pension plan investments is reviewed annually and was determined using a building-block method in which expected future net real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class. These components are combined to produce the long-term expected rate of return by weighting the expected future net real rates of return by the target asset allocation percentage (currently resulting in 4.25%) and by adding expected inflation (3.0%). In addition, the final 7.0% assumption was selected by "rounding down" and thereby reflects a reduction of 0.25% for adverse deviation. The target allocation and expected arithmetic net real rates of return for each major asset class are summarized in the following table:

	Target Allocation	Long-Term Expected Net Real Rate of Return
Equities		
Large cap domestic	30%	5.65%
Small cap domestic	7	5.93
International developed	12	6.05
Emerging Markets	3	7.60
Hedge fund of funds	10	2.75
Real estate	12	3.31
Fixed income	26	1.96
Cash	0	0.35
Total	100%	
Weighted Average		4.25%

Discount Rate

The discount rate used to measure the total pension liability was 7.00%. No projection of cash flows was used to determine the discount rate because the January 1, 2016 actuarial valuation showed that expected contributions would pay the normal cost and amortize the unfunded actuarial accrued liability (UAAL) in nine years. That UAAL was based on an actuarial value of assets that was only 8% more than the plan fiduciary net position as of December 31, 2015. Because of the nine-year amortization period of the UAAL, the pension plan's fiduciary net position is expected to be available to make all projected future benefit payments of current active and inactive members. Therefore, the long-term expected rate of return on pension plan investments of 7.00% was applied to all periods of projected benefit payments as the discount rate to determine the total pension liability.

Sensitivity of the Net Pension Liability to Changes in the Discount Rate

The following presents the net pension liability of the Employer, calculated using the discount rate of 7.00%, as well as what the Employer's net pension liability would be if it were calculated using a discount rate that is 1-percentage-point lower (6%) or 1-percentage-point higher (8%) than the current rate:

	1% Decrease (6%)	Current Discount Rate (7%)	1% Increase (8%)
Employer's Net Pension Liability	\$10,350,653	\$6,588,043	\$3,372,519

Plan Fiduciary Net Position

The plan fiduciary net position reported above is the same as reported by the plan. Detailed information about the plan fiduciary net position is available in the plan's separately issued audited financial statements, which are reported using the economic resources measurement focus and the accrual basis of accounting in conformity with accounting principles generally accepted in the United States of America. Revenues are recorded when earned, and expenses are recorded when a liability is incurred, regardless of the timing of the related cash flows. Investments are reported at fair value, the price that would be recognized to sell an asset in an orderly transaction between market participants at the measurement date.

GUADALUPE-BLANCO RIVER AUTHORITY
NOTES TO COMBINED FINANCIAL STATEMENTS, CONTINUED
AUGUST 31, 2016 AND 2015

NOTE C - DEFINED BENEFIT PENSION PLAN

Amounts reported as deferred outflows of resources and deferred inflows of resources related to pensions will be recognized in pension expense as follows:

Year Ended August 31	Net of Deferred Outflows Minus Deferred Inflows
2017	\$ 1,003,584
2018	1,003,585
2019	1,003,585
2020	740,404
2021	47,404
Thereafter	0
Total	\$ 3,798,562

3. Deferred Outflow of Resources to be Recognized Next Year

No supplemental contribution was contributed subsequent to the measurement date of the net pension liability, as shown in Section III. So there is no deferred outflow of resources that will be recognized as a reduction in the net pension liability in the fiscal year ending August 31, 2017.

NOTE D - CASH, CASH EQUIVALENTS AND INVESTMENTS

The monetary assets of GBRA are held in various forms and accounts. These assets are described and presented in the combined financial statements in two groups. One group is described as "Cash and Cash Equivalents". This group is characterized as having high liquidity with little market risk and includes cash, checking accounts, money market accounts and bank time deposits with an original maturity of less than three months. The second group of monetary assets is presented in the financial statements as "Investments". Investments are recorded at their fair value as based upon quoted market prices with the exception of bank certificates of deposit which are recorded at their historical cost which approximates fair value.

1. CASH AND DEPOSITS

At August 31, 2016, GBRA held \$2,141,147 in restricted and unrestricted cash. Included in this amount was \$1,650 of cash on hand and the remainder was on deposit at various banks in demand accounts.

GBRA bank deposits were entirely insured or collateralized with securities held by GBRA's agent in GBRA's name.

2. INVESTMENTS

In March 2003 the GASB issued No. 40 "Deposits and Investment Risk Disclosures", which GBRA has implemented. Risk disclosures in previous financial reports (under the provisions of GASB 3) focused only on custodial credit risk. GASB 40 not only addresses custodial credit risk, but other common areas of investment risk as well (e.g. interest rate risk, credit risk, and concentration of credit risk).

GBRA customarily invests its funds in certificates of deposit, mortgage backed securities, direct obligations of the United States or money market investment funds such as the Texas State Treasury's TexPool Fund and the Texas Cooperative Liquid Assets Securities System (Texas CLASS). GBRA usually holds its investments until maturity.

Custodial Credit Risk: Investments which may be purchased pursuant to Texas state law and GBRA's investment policy are direct or indirect obligations of the United States of America, any "A" rated obligation of a state of the United States or political subdivision thereof, investment grade repurchase agreements, prime commercial paper rated A-1 or P-1, obligations of the Federal National Mortgage Association and Government National Mortgage Association, and bank time deposits to the extent collateral is pledged on the amount exceeding Federal Deposit Insurance Corporation (FDIC) coverage.

	Fair Value	Weighted Average Maturity in Months
Federal Home Loan Bank	\$ 6,998,257	18.07
Federal Home Loan Mortgage	1,703,655	6.2
Federal National Mortgage Assn	7,910,681	31.76
Federal Farm Credit Bank	604,212	27.02
U. S. Treasury	6,784,660	18.63
Certificates of Deposit	4,959,244	10.06
Money Market Funds	6,000,270	1.00
Texas Class	164,705	1.00
TexPool	4,691,309	1.00
Total Investments	\$ 39,816,993	14.86

Interest Rate Risk. GBRA'S investment policy calls for maximum final maturity of any operating investments to be 5 years, with at least 50% of all operating investments maturing within 3 years. Bond funds may be invested with maturities of less than 5 years, and construction funds may be invested in accordance with a construction draw schedule. The weighted average maturities noted above are in compliance with this policy.

GUADALUPE-BLANCO RIVER AUTHORITY
NOTES TO COMBINED FINANCIAL STATEMENTS, CONTINUED
AUGUST 31, 2016 AND 2015

NOTE E – CAPITAL ASSETS

Capital asset activity for the fiscal year end was as follows:

Classification	ASSETS			
	Balance August 31, 2015	Additions	Removals	Balance August 31, 2016
Land, Water & Storage Rights	\$ 35,538,587	\$ --	\$ --	\$ 35,538,587
Construction in Progress	165,344	1,128,597	--	1,293,941
Total Assets Not Being Depreciated	35,703,931	1,128,597	--	36,832,528
Structures & Improvements	191,324,267	67,805	--	191,392,072
Specialized Equipment	7,312,897	70,054	--	7,382,951
Office Buildings & Communications	2,310,551	14,268	--	2,324,819
Shops & Storerooms	83,673	--	--	83,673
Auto & Heavy Equipment	4,123,128	335,544	(86,194)	4,372,478
Office Furniture & Equipment	1,469,474	26,672	--	1,496,146
Miscellaneous Equipment	4,809,941	519,859	(7,228)	5,322,572
Total Dams, Plants and Equipment	211,433,931	1,034,202	(93,422)	212,374,711
Total Capital Assets	\$ 247,137,862	\$ 2,162,799	\$ (93,422)	\$ 249,207,239
Classification	DEPRECIATION			
	Balance August 31, 2015	Additions	Removals	Balance August 31, 2016
Structures & Improvements	\$ (62,707,724)	\$ (4,672,513)	--	\$ (67,380,237)
Specialized Equipment	(6,284,866)	(77,257)	--	(6,362,123)
Office Buildings & Communications	(1,776,931)	(42,361)	--	(1,819,292)
Shops & Storerooms	(50,745)	(1,815)	--	(52,560)
Auto & Heavy Equipment	(3,079,211)	(285,992)	81,650	(3,283,553)
Office Furniture & Equipment	(1,300,124)	(69,608)	--	(1,369,732)
Miscellaneous Equipment	(2,890,005)	(424,711)	7,228	(3,307,488)
Total Accumulated Depreciation	\$ (78,089,606)	\$ (5,574,257)	\$ 88,878	\$ (83,574,985)
NET CAPITAL ASSETS	\$ 169,048,256	\$ (3,411,458)	\$ (4,544)	\$ 165,632,254

GUADALUPE-BLANCO RIVER AUTHORITY
NOTES TO COMBINED FINANCIAL STATEMENTS, CONTINUED
AUGUST 31, 2016 AND 2015

NOTE H – CONTINUING DISCLOSURE REQUIREMENTS (CONTINUED)

4. The revenues pledged to repay the debt service requirements of General Improvement and Refunding Revenue Bonds, Series 2011, General Improvement Revenue Bonds, Series 2012, and General Improvement Revenue Bonds, Series 2015 the are on parity with the pledge revenues described as follows:

The bonds constitute special obligations of GBRA, both principal and interest, payable from and secured by an irrevocable lien on and pledge of the "Pledged Revenues" and the Pledged Revenues are further pledged to the establishment and maintenance of certain funds created in the Resolution authorizing the Bonds. "Pledged Revenues" generally consist of the gross revenues received by GBRA from the sale or commitment of raw water currently stored in Canyon Reservoir and from other sources of firm, dependable supplies of water as they are acquired and developed in the "Water Supply System" of GBRA's Water Resources Division.

GENERAL IMPROVEMENT AND REFUNDING REVENUE BONDS, SERIES 2011

On September 18, 2002, GBRA authorized the issuance of General Improvement Revenue Bonds, Series 2002 in the amount of \$4,390,000 with a delivery date of September 27, 2002. The proceeds were used for the expansion and construction of the GBRA headquarters, meeting room and office facilities, and an operations warehouse.

On November 17, 2010, GBRA authorized the issuance of GBRA tax-exempt revenue bonds to be used to refund the Series 2002 General Improvement Revenue Bonds and provide funds for the lump sum buy-out of the Water Right Subordination Agreement between GBRA and the City of Seguin. The resolution was subsequently amended on March 16, 2011 related to the issuance of Guadalupe-Blanco River Authority General Improvement and Refunding Revenue Bonds, Series 2011 primarily for the purpose of amending the date by which certain proceeds of such bonds must be used to pay the "final payment" to the City of Seguin, revising the continuing disclosure requirements to comply with amended Section regulations that became effective December 1, 2010, revising the annual rate covenant, and deleting references to the General Division in certain covenants.

Moody's Investors Service, Inc. assigned an underlying rating on the Bonds of "Aa2".

GENERAL IMPROVEMENT REVENUE BONDS, SERIES 2012

On January 18, 2012, GBRA authorized the issuance of General Improvement Revenue Bonds, Series 2012 in the amount of \$4,400,000 with a delivery date of April 4, 2012. The bonds were sold to the Texas Water Development Board and as such, no rating was required on these bonds. The bond proceeds were used to complete a study and feasibility assessment related to a new firm water supply for GBRA referred to as the Mid-Basin Project. The Project is envisioned as a conjunctive use project, utilizing both surface and ground water supplies within the basin.

GENERAL IMPROVEMENT REVENUE BONDS, SERIES 2015

On October 21, 2015, GBRA authorized the issuance of General Improvement Revenue Bonds, Series 2015 in the amount of \$2,000,000 with a delivery date of December 1, 2015. The bonds were sold to the Texas Water Development Board through the SWIRFT Program and as such, no rating was required on these bonds. The bond proceeds were used to fund a feasibility study in connection with the development of an integrated water-power project (IWPP Project) along the Texas Gulf Coast to provide a regional solution that would create a new source of water supply for the Coastal Bend (Region N) and South Central (Region L) and potentially Central Texas (Region K) regional water planning areas, and to pay costs of issuance.

GENERAL IMPROVEMENT AND REFUNDING REVENUE BONDS, SERIES 2011 AND GENERAL IMPROVEMENT REVENUE BONDS, SERIES 2012, GENERAL IMPROVEMENT REVENUE BONDS, SERIES 2015 - FUND BALANCES AND COVERAGE

**GENERAL IMPROVEMENT AND REFUNDING REVENUE BONDS, SERIES 2011
AND GENERAL IMPROVEMENT REVENUE BONDS, SERIES 2012**

2011 Bonds: Average Annual Principal and Interest Requirements, 2016 - 2030	\$	734,632
2012 Bonds: Average Annual Principal and Interest Requirements, 2016 - 2031	\$	260,119
2015 Bonds: Average Annual Principal and Interest Requirements, 2024 - 2035		- ⁽¹⁾
Total Average Annual Principal and Interest Requirements	\$	994,751
Coverage of Average Requirements by Pledged Revenues		13.17 times
Coverage of Average Requirements by Net Revenues		4.69 times
2011 Bonds: Maximum Principal and Interest Requirements, 2027	\$	837,750
2012 Bonds: Maximum Principal and Interest Requirements, 2028	\$	262,522
2015 Bonds: Maximum Principal and Interest Requirements, 2032		204,747
Total Maximum Principal and Interest Requirements	\$	1,305,019
Coverage of Maximum Requirements by Pledged Revenues		10.04 times
Coverage of Maximum Requirements by Net Revenues		3.57 times
2011 Bonds: Interest and Sinking Fund Balance	\$	68,638
2012 Bonds: Interest and Sinking Fund Balance	\$	18,802
2015 Bonds: Interest and Sinking Fund Balance		-
Total Interest and Sinking Fund Balance as of August 31, 2016	\$	87,440
Pledged Revenues for the Fiscal Year Ended August 31, 2016	\$	13,102,085 ⁽²⁾
Net Revenues for Fiscal Year Ended August 31, 2016	\$	4,660,481 ⁽³⁾

(1) GBRA General Improvement Revenue Bonds, Series 2015 will be included into this table in 2024, when debt payments begin.

(2) See "Raw Water Sales" under "Raw Water Sales" table.

(3) See "Net Revenues" under "Raw Water Sales" table.

GUADALUPE-BLANCO RIVER AUTHORITY
NOTES TO COMBINED FINANCIAL STATEMENTS, CONTINUED
AUGUST 31, 2016 AND 2015

NOTE H – CONTINUING DISCLOSURE REQUIRMENTS (CONTINUED)

MAJOR FIRM WATER CUSTOMERS (1,000 ACRE-FEET PER YEAR OR MORE)

Municipal and Industrial customers account for the majority of the total acre-feet under contract between GBRA and purchasers, and purchasers with contracts for 1,000 acre-feet or more per year account for 94.82% of the total acre-feet currently under contract. For this reason, major firm water customers have been identified as those with contracts for the sale of firm raw water in the amount of 1,000 or more acre-feet per year. Major firm water customers, as well as, smaller customers that are part of a large regional project, for the fiscal year ended August 31, 2016 are shown below.

		Contract Information				
Customer	Type	Total	Revenue ⁽²⁾	Contract	Expiration	Renewal
		AF/YR		Date	Date	Option
Municipal & Retail						
Canyon Regional Water Authority	Regional Water Authority		1,000,000	1/1/00	2/28/20	(1)
City of Maricopa	City	100				
City of Gilbert	City	1,500				
Green Valley SUD	Special Utility District	1800				
Springs Hill WSC	Water Supply Corporation	1,025				
East Camel WSC	Water Supply Corporation	1,400				
SAWS	City	4,000				
New Braunfels Utilities	City	6,720		1/1/00	2/28/20	20 Yrs
City of Seguin	City	2,000		01/01/04	12/31/24	...
Canyon Lake WSC	Water Supply Corporation	2,000		1/1/00	12/31/20	...
Canyon Lake WSC II	Water Supply Corporation	2,000		01/01/00	12/31/20	...
Canyon Lake WSC III	Water Supply Corporation	2,000		01/01/00	12/31/20	...
SHWSC I	Water Supply Corporation	1,850		1/1/00	12/31/20	...
SHWSC II	Water Supply Corporation	2,000		1/1/00	12/31/20	...
Green Valley SUD	Special Utility District	1900		1/1/00	12/31/20	...
Regional RWDS Project						
City of San Marcos	City	10,000		1/1/00	12/31/20	...
City of Kyle	City	5,440		1/1/00	12/31/20	...
City of Bulverde	City	1,600		1/1/00	12/31/20	...
CRWA - Hays Project	Regional Water Authority	2,038		1/1/00	12/31/20	...
Go-Forth SUD	Special Utility District	1,050		1/1/00	12/31/20	...
Sumfield MUD	Municipal Utility District	3,130		1/1/00	12/31/20	...
Monarch	Utility Company	500		1/1/00	12/31/20	...
GBRA Western Canyon						
Boerne	City	3,600	484,800	12/22/00	12/31/20	40 Yrs (2x20 Yrs)
Fair Oaks Ranch	City	1,850	240,500	12/22/00	12/31/20	40 Yrs (2x20 Yrs)
SAWS	City	4,000 (3)	520,000	12/22/00	12/31/20	40 Yrs (2x20 Yrs)
Cordillera Ranch	Housing Development	1,500	191,250	12/22/00	12/31/20	40 Yrs (2x20 Yrs)
Kendall & Tapscott	Housing Development	750	95,625	12/22/00	12/31/20	40 Yrs (2x20 Yrs)
Johnson Ranch	Housing Development	900	115,500	12/22/00	12/31/20	40 Yrs (2x20 Yrs)
Lear Hubs	Housing Development	750	95,625	12/22/00	12/31/20	40 Yrs (2x20 Yrs)
GBRA Comal Trace	River Authority	50				...
SJWTX-Tivoli	Water Supply Corporation	400		01/01/00	12/31/20	10 Yrs
SJWTX Park Village	Water Supply Corporation	222		01/01/00	12/31/20	10 Yrs
Total Major Municipal Customers		63,850	\$ 8,233,250			
Industrial						
Guadalupe Power Partners	Electric Generation	5,540	\$ 897,363	12/11/00	12/31/20	10 Yrs (2x10 Yrs)
Coke & Creek Power LP	Electric Generation	6,000	\$ 975,000	12/11/00	12/31/20	...
Hays Energy Limited Partners	Electric Generation	2,404	\$ 384,640	12/28/00	12/31/20	...
Ineos USA LLC	Chemical Company	1,100	\$ 188,042	12/28/00	12/31/20	40 Yrs (2x20 Yrs)
Total Major Industrial Customers		16,044	\$ 2,476,045			
Total Major Customers		85,589	\$ 12,423,559			
Total Firm Water Sales		90,522	\$ 13,102,085			
Major Customers as a Percentage of Total		94.55%	94.82%			

(1) Contract does not provide for specific renewal options.

(2) Includes Out-of-District Charges.

(3) Includes returnable and additional water charges.

GUADALUPE-BLANCO RIVER AUTHORITY
NOTES TO COMBINED FINANCIAL STATEMENTS, CONTINUED
AUGUST 31, 2016 AND 2015

NOTE H – CONTINUING DISCLOSURE REQUIREMENTS (CONTINUED)

5. CONTRACT REVENUE REFUNDING BONDS (WESTERN CANYON REGIONAL WATER SUPPLY PROJECT), SERIES 2013A & 2013B

On February 20, 2013, GBRA authorized the issuance of Combined Contract Revenue Refunding Bonds, Series 2013A and 2013B in the amount of \$55,265,000 and \$6,830,000, respectively. The proceeds were used to i) refund the Contract Revenue Bonds, Series 2003 (Western Canyon Regional Water Supply Project) to achieve debt service net present value savings of \$6,741,092, ii) fund a related account in the debt service reserve fund surety policies from Assured Guaranty Municipal Corporation and iii) pay issuance costs on the current bonds. The original proceeds from the Series 2003 bonds were used for the construction and equipping a regional treated surface water supply project to serve portions of Comal, Kendall and Bexar Counties, Texas.

Moody's Investors Service, Inc. ("Moody's") and Standard and Poor's Ratings Services, a Standard & Poor's Financial Services LLC business ("S&P"), rated the bonds "Aa1" and "AA+", respectively.

The bonds constitute special obligations of GBRA payable, both as to principal and interest, and secured solely by a first lien on and pledge of the Gross Revenues of GBRA, which primarily are derived from payments made to GBRA under the Water Supply Agreements entered into with the Participants in the Western Canyon Regional Water Supply Project.

WESTERN CANYON REGIONAL WSP - ANNUAL WATER DELIVERY BY PARTICIPANTS

COMBINED CONTRACT REVENUE REFUNDING BONDS

(WESTERN CANYON REGIONAL WATER SUPPLY PROJECTS), SERIES 2013A & 2013B

	Current *	% of	Ultimate	% of
	(Acre-Feet)	Total	(Acre-Feet)	Total
In District				
City of Boerne	973	8.71%	3,611	21.49%
City of Fair Oaks	947	8.41%	1,950	11.01%
GBRA - Cordillera	306	2.68%	1,500	8.93%
Johnson Ranch MUD	150	1.34%	900	5.36%
GBRA - Comal Trace	50	0.44%	900	0.60%
Canyon Lake WSC	722	6.45%	722	4.30%
Lerin Hills MUD	225	2.01%	750	4.46%
Kendall West Utilities	200	1.79%	750	4.46%
Other Participants	40	0.35%	40	0.24%
Future Participants		0.00%	2,577	15.34%
Total In District	3,634		12,800	
Out of District				
SAWS (Initial & Additional)	7,500	67.15%	4,000	23.81%
Total Out of District	7,500		4,000	
Total	11,200	100.00%	16,800	100.00%

* Annual Water Delivery is based on contractual commitments of each participant

WESTERN CANYON REGIONAL WSP - SOURCES OF PLEDGED REVENUES

COMBINED CONTRACT REVENUE REFUNDING BONDS

(WESTERN CANYON REGIONAL WATER SUPPLY PROJECT), SERIES 2013A & 2013B

	Fiscal Year Ended August 31				
	2016	2015	2014	2013	2012
Western Canyon O&M Revenue	\$ 3,852,141	\$ 3,737,294	\$ 3,460,286	\$ 3,368,656	\$ 3,373,591
Western Canyon Debt Service Revenue	5,334,466	5,285,307	5,306,500	5,791,241	5,837,670
	<u>\$ 9,186,607</u>	<u>\$ 9,022,601</u>	<u>\$ 8,766,786</u>	<u>\$ 9,159,897</u>	<u>\$ 9,211,261</u>
Operating Expenses	\$ 3,229,970	\$ 2,548,014	\$ 2,557,111	\$ 2,651,498	\$ 2,729,471
Maintenance & Repair	253,229	285,637	360,449	328,632	280,870
Administrative & General	155,616	134,416	148,256	150,666	148,472
Total Operating & Maintenance Expenses	<u>\$ 3,638,815</u>	<u>\$ 2,968,067</u>	<u>\$ 3,065,816</u>	<u>\$ 3,130,796</u>	<u>\$ 3,158,813</u>
Net Revenue	<u>\$ 5,547,792</u>	<u>\$ 6,054,534</u>	<u>\$ 5,700,970</u>	<u>\$ 6,029,101</u>	<u>\$ 6,052,448</u>
Debt Service	\$ 4,835,186	\$ 4,835,186	\$ 4,835,965	\$ 4,835,965	\$ 5,320,675
Debt Service Coverage Factor	1.1474	1.2522	1.1789	1.2467	1.1375

GUADALUPE-BLANCO RIVER AUTHORITY
NOTES TO COMBINED FINANCIAL STATEMENTS, CONTINUED
AUGUST 31, 2016 AND 2015

7. CONTRACT REVENUE REFUNDING BONDS, SERIES 2013

On November 28, 2012, GBRA authorized the issuance of Contract Revenue Refunding Bonds, Series 2013 in the amount of \$19,470,000. Proceeds from the sale of the Bonds were used to i) refund all of the Combination Contract Revenue, Subordinate Water Resources Division Revenue, and Surplus Water Project Revenue Bonds, Series 2004A and 2004B and ii) pay issuance costs on the current bonds. As a result of the refunding, GBRA reduced its total debt service requirements by \$4,307,567 and produced a net present value savings (economic gain) of \$2,877,554. The original proceeds from the Series 2004A and 2004B bonds were used to construct and equip facilities and acquire rights-of-ways necessary for delivering treated water from a water treatment plant located in San Marcos, Texas to portions of Hays and Caldwell Counties, Texas.

Moody's Investors Service, Inc. ("Moody's") and Standard and Poor's Ratings Services, a Standard & Poor's Financial Services LLC business ("S&P"), assigned an underlying rating on the Bonds of "A1" and "A+" respectively.

The bonds constitute special obligations of GBRA that are secured by a first lien on and pledge of the "Pledged Revenues," which generally consist of the "Gross Contract Revenues," received by GBRA from various public and private entities pursuant to certain "Water Supply Agreements" related to the delivery of treated water from a water treatment plant located in San Marcos, Texas to portions of Hays and Caldwell Counties, Texas through a treated water delivery system and the interest income from funds on deposit in the Interest and Sinking Fund, the Reserve Fund and the Rate Stabilization Fund. The Pledged Revenues are further pledged irrevocably to the establishment and maintenance of the Interest and Sinking Fund, the Reserve Fund and the Rate Stabilization Fund.

CONTRACT REVENUE REFUNDING BONDS, SERIES 2013 (IH35) - DEBT SERVICE PAYABLE BY PARTICIPANTS

CONTRACT REVENUE REFUNDING BONDS, SERIES 2013 (IH35 TREATED WATER DELIVERY SYSTEM PROJECT)

	Fiscal Year Ended August 31							
	2016		2015		2014		2013	
	MGD	Debt Payments	MGD	Debt Payments	MGD	Debt Payments	MGD	Debt Payments
Debt Service Component of Gross Contract Revenues								
From City of Buda, Texas	1.50	\$ 167,523	1.50	\$ 167,523	1.50	\$ 167,523	1.50	\$ 167,566
From City of Kyle, Texas	4.86	542,774	4.86	542,774	4.86	542,774	4.86	542,915
From GoForth Special Utility District *	2.46	274,990	1.46	166,536	1.38	146,695	1.26	126,459
From Sunfield Municipal Utilities District *	2.48	276,720	3.48	385,174	3.56	405,014	3.63	425,393
From Monarch	0.50	55,841	0.50	55,841	0.50	55,841	0.50	55,856
Total Debt Service Commitment & Revenues	11.80	\$1,317,848	11.80	\$1,317,848	11.80	\$1,317,847	11.80	\$1,318,189
Annual Debt Service Requirements		\$1,201,656		\$1,197,556		\$1,203,356		\$ 982,835
Debt Service Coverage Factor		1.0967		1.1004		1.0951		1.3412

* Sunfield MUD's Purchase Commitment is being incrementally transferred to GoForth SUD.

IH35 TREATED WATER DELIVERY SYSTEM - HISTORICAL OPERATING STATEMENT

CONTRACT REVENUE REFUNDING BONDS, SERIES 2013 (IH35 TREATED WATER DELIVERY SYSTEM PROJECT)

	2016	2015	2014	2013
IH35 O&M Transmission Revenue	\$ 403,268	\$ 328,441	\$ 307,053	\$ 303,164
IH35 Debt Revenue	1,317,848	1,317,848	1,317,847	1,318,189
IH35 Interest Earnings	14,070	3,070	8,273	16,695
Total Revenue	\$ 1,735,186	\$ 1,649,359	\$ 1,633,173	\$ 1,638,048
IH35 Operating Expenses	\$ 247,819	\$ 249,398	\$ 207,227	\$ 203,279
IH35 Maintenance & Repair Expenses	69,296	61,019	41,021	63,606
IH35 Administrative & General Expenses	10,752	9,893	9,239	9,239
Total Expenses	\$ 327,867	\$ 320,310	\$ 257,487	\$ 276,124
Net Revenue	\$ 1,407,319	\$ 1,329,049	\$ 1,375,686	\$ 1,361,924
Debt Service	\$ 1,201,656	\$ 1,197,556	\$ 1,203,356	\$ 982,835
Debt Service Coverage	1.171	1.110	1.143	1.386

GUADALUPE-BLANCO RIVER AUTHORITY
NOTES TO COMBINED FINANCIAL STATEMENTS, CONTINUED
AUGUST 31, 2016 AND 2015

NOTE 1 - SEGMENT INFORMATION, INCLUDING INTERFUND RECEIVABLES/PAYABLES

GBRA is comprised of ten (10) enterprise funds. These funds provide various services including raw and treated water supply, wastewater treatment and disposal, water quality monitoring, cooling reservoir operation, parks and recreational opportunities, as well as, hydroelectric generation. Governments that use enterprise funds accounting and reporting standards to report their activities are required to present segment information. A segment is an identifiable activity reported as or within an enterprise fund or another stand-alone entity that has one or more bonds outstanding with a revenue stream pledged in support of that debt, and the activity is externally required to maintain separate accounts.

All operating revenues result from charges for services.

Segment information at August 31, 2016 is as follows:

	Water Sales	Pan Evaca Water Plant	Chase Water Plant	Lockhart WWTP	Total
REVENUES, EXPENSES AND CHANGES IN NET POSITION					
Operating Revenue	\$ 14,000,446	\$ 1,542,529	\$ 1,419,158	\$ 1,259,385	\$ 18,221,518
Operating Expenses	(16,249,581)	(14,160,181)	(5,511,111)	(1,777,401)	(37,698,274)
Depreciation and Amortization Exp.	(2,156,022)	(205,834)	(135,137)	(261,251)	(2,558,244)
Operating Income	\$ 5,594,843	\$ 169,332	\$ 344,938	\$ 46,360	\$ 6,115,473
Nonoperating Revenue (Expenses)	(2,352,612)	(14,863)	(20,348)	(210)	(2,387,933)
Costs to be Recovered (Deferred Ref.)	782,962	(221,324)	(82,531)	(424,419)	(150,432)
Change in Net Position	\$ 3,925,193	\$ (66,855)	\$ 242,059	\$ 25,731	\$ 4,127,128
NET POSITION ACTIVITIES					
Current Assets	\$ 17,515,400	\$ 400,492	\$ 495,892	\$ 14,065	\$ 18,425,849
Capital Assets	12,878,752	2,177,956	4,318,176	2,468,845	\$ 19,843,729
Other Assets	11,715,492	--	312,635	134	\$ 12,028,261
Total Assets	\$ 42,110,644	\$ 6,578,448	\$ 9,126,603	\$ 3,526,204	\$ 61,341,900
Deferred Outflow of Resources	--	--	36,667	--	\$ 36,667
Total Assets and Deferred Outflow of Resources	\$ 42,110,644	\$ 6,578,448	\$ 9,163,270	\$ 3,526,204	\$ 61,378,569
Current Liabilities	\$ 7,548,246	\$ 341,871	\$ 415,855	\$ 108,140	\$ 8,414,112
Long Term Liabilities	108,977,894	2,799,977	4,242,645	30,000	\$ 116,050,516
Total Liabilities	\$ 116,526,140	\$ 3,141,848	\$ 4,658,500	\$ 138,140	\$ 124,464,628
Deferred Inflows of Resources	1,574,801	665,945	--	1,579,290	\$ 3,819,936
Net Investment in Capital Assets	16,258,116	1,877,293	3,317,336	184,134	\$ 21,637,879
Restricted	4,488,499	--	169,307	374,599	\$ 4,932,405
Unrestricted	21,885,950	1,287,154	569,227	1,584,421	\$ 25,326,752
Total Net Position	\$ 42,110,644	\$ 3,141,848	\$ 4,096,870	\$ 3,526,204	\$ 53,275,566
Total Liabilities, Deferred Outflows and Net Position	\$ 158,636,784	\$ 6,578,448	\$ 9,163,270	\$ 3,526,204	\$ 178,104,696
Revenue Bonds Payable	\$ 109,212,274	\$ --	\$ 4,002,743	\$ 649,600	\$ 113,864,617
Notes Payable	250,000	30,000,000	--	--	\$ 30,250,000
Interfund Balances	--	--	--	--	--
Accounts Receivable	1,178,472	169,616	7,137	152,415	\$ 1,507,640
Accounts Payable	\$ 2,463	\$ 18,111	\$ 11,371	\$ 45,285	\$ 36,230
CASH FLOW ACTIVITIES					
Cash Flows					
Operating Activities	\$ 1,416,557	\$ 167,092	\$ 461,998	\$ 593,406	\$ 2,639,053
Capital & Related Financing Activities	(1,631,177)	(577,636)	163,172	(649,958)	\$ (2,095,599)
Noncapital Financing Activities	903,937	--	--	--	\$ 903,937
Investing Activities	(1,526,587)	23,150	(5,118)	(2,978)	\$ (1,508,523)
	\$ 1,162,830	\$ (407,494)	\$ 619,972	\$ (659,530)	\$ 615,878
Current Cash and Cash Equivalents					
At Beginning of Year	\$ 6,522,761	\$ 19,061	\$ 5,103	\$ 316,356	\$ 7,043,281
At End of Year	\$ 7,685,591	\$ 22,887	\$ 93,895	\$ 248,183	\$ 7,950,556
Net Increase (Decrease)	\$ 1,162,830	\$ (407,494)	\$ 619,972	\$ (659,530)	\$ 615,878
Restricted Cash and Cash Equivalents					
At Beginning of Year	\$ 1,536,775	\$ --	\$ 7,128	\$ --	\$ 1,543,903
At End of Year	\$ 929,955	\$ --	\$ 7,128	\$ --	\$ 937,083
Net Increase (Decrease)	\$ 4,193,380	\$ (5,011)	\$ 578	\$ --	\$ 4,188,947
	\$ 1,612,302	\$ (28,812)	\$ 7,373	\$ (68,167)	\$ 1,580,320

Required Supplemental Information

**GUADALUPE-BLANCO RIVER AUTHORITY
REQUIRED SUPPLEMENTAL INFORMATION
AUGUST 31, 2016**

B. Schedule of Employer Contributions for the Last 10 Fiscal Years¹

	Plan Year Ending 12/31/2015	Plan Year Ending 12/31/2014
1. Actuarially determined contribution	\$ 1,033,464	\$ 984,302
2. Contributions in relation to the actuarially determined contribution	<u>1,733,464</u>	<u>1,684,302</u>
3. Contribution deficiency (excess)	\$ (700,000)	\$ (700,000)
4. Covered payroll	\$ 7,565,168	\$ 7,423,408
5. Contributions as a percentage of covered payroll	22.9%	22.7%

Notes to Schedule:

Actuarially determined contribution amount for the plan year ending December 31 was calculated in the January 1 actuarial valuation one year earlier. Methods and assumptions used to determine the actuarially determined contributions:

Actuarial cost method	Entry age
Amortization method	Level percent of payroll, open period
Recalculated amortization period	8 and 10 years, respectively, for years ending in 2015 and 2014
Asset valuation method	5-year smoothed market
Inflation	3.5% and 3.75%, respectively, for years ending in 2015 and 2014
Salary increases	inflation plus merit and promotion increases that vary by age and service
Investment rate of return	7.25% and 7.50%, respectively, for years ending in 2015 and 2014
Retirement age	Rates that vary by age and service
Mortality	RP-2000 Combined Healthy Mortality Tables for males and for females (sex distinct) projected to 2024 by scale AA

¹ Until a full 10-year trend is compiled, only available information is shown.

C. Contributions Reflected in Asset Value as of December 31, 2015 Measurement Date (Applicable for Fiscal Year Ending August 31, 2016)

Month of Contribution	Amount
July 2015	\$ 700,000
December 2015	<u>1,033,464</u>
Total	\$ 1,733,464

D. Subsequent Contributions Made Prior to Fiscal Year End (August 31, 2016)

Month of Contribution	Amount
N/A	\$ 0
Total	\$ 0 ¹

¹ An amount contributed subsequent to the measurement date of the net pension liability would be a deferred outflow of resources that would be recognized as a reduction in the net pension liability in the next fiscal year.

Other Supplemental Information

Calhoun County Rural Water Supply Division	Coleta Creek Division	Luling Water Treatment Plant Division	Canyon Hydroelectric Division	Lockhart Division	2016 Eliminations	2016 Total
\$ 131,288	\$ 134,583	\$ 93,898	\$ 187,642	\$ 448,212	\$ --	\$ 8,384,471
160,067	--	105,076	--	--	--	7,140,096
5,564	--	5,966	--	--	--	87,161
111,990	379	--	162,320	57,697	--	2,494,546
86,000	136,060	114,248	39,290	202,367	(6,481,053)	--
5,637	8,827	7,187	9,880	15,755	--	470,936
500,546	279,849	326,375	399,042	724,031	(6,481,053)	18,577,210
--	--	7,706	103,176	--	--	7,643,028
--	--	161,601	--	374,669	--	2,655,467
--	--	210	--	666	--	35,976
--	--	169,517	103,176	375,335	--	10,334,471
500,546	279,849	495,892	502,218	1,099,366	(6,481,053)	28,911,681
--	--	--	--	--	--	2,983,782
--	--	--	--	--	--	2,983,782
51,396	--	875,292	12,187	136,881	--	35,538,587
2,616,838	2,091,418	7,392,461	12,553,381	6,792,217	--	212,374,711
60,669	--	--	--	--	--	1,293,941
(1,884,925)	(1,791,086)	(3,453,777)	(7,689,290)	(3,907,178)	--	(83,574,985)
843,978	300,322	4,813,976	4,876,778	3,021,920	--	165,632,254
300,518	--	402,633	--	--	--	13,151,296
--	--	--	--	--	--	186,971
--	--	--	--	1,304	--	1,304
--	--	--	445,742	--	--	445,742
--	--	--	--	--	--	6,661,157
--	--	--	--	--	(7,582,243)	--
300,518	--	402,633	445,742	1,304	(7,582,243)	20,446,470
1,144,496	300,322	5,216,609	5,322,520	3,023,224	(7,582,243)	189,062,506
--	--	36,169	--	--	--	3,834,731
\$ 1,645,042	\$ 580,171	\$ 5,748,670	\$ 5,824,738	\$ 4,122,590	(14,063,296)	\$ 221,808,918
\$ --	\$ --	\$ --	\$ --	\$ --	\$ --	350,636
--	--	--	--	--	--	45,057
56,431	111,114	106,074	49,340	640,731	--	3,744,410
174,050	230,543	41,930	16,741	69,102	(6,481,053)	--
230,481	341,657	148,004	66,081	709,833	(6,481,053)	4,140,103
--	--	255,000	--	640,000	--	5,315,000
--	--	12,851	--	--	--	1,097,616
--	--	267,851	--	640,000	--	6,412,616
230,481	341,657	415,855	66,081	1,349,833	(6,481,053)	10,552,719
--	--	4,462,940	--	640,000	--	114,365,314
--	--	--	--	--	--	6,054,591
--	--	--	--	--	(7,582,243)	--
--	--	4,462,940	--	640,000	(7,582,243)	120,419,905
--	--	(255,000)	--	(640,000)	--	(5,665,636)
--	--	4,207,940	--	--	(7,582,243)	114,754,269
--	--	34,805	348,766	30,412	--	521,038
--	--	--	--	--	--	6,588,043
--	--	4,242,745	348,766	30,412	(7,582,243)	121,863,350
230,481	341,657	4,658,600	414,847	1,380,245	(14,063,296)	132,416,069
--	--	--	5,310,328	1,579,280	--	9,135,357
843,977	300,322	351,036	4,876,777	2,381,920	--	45,212,346
--	--	--	--	--	--	1,300,517
--	--	169,307	--	374,669	--	4,732,175
570,584	(61,808)	569,727	(4,777,214)	(1,593,524)	--	29,012,454
1,414,561	238,514	1,090,070	99,563	1,163,065	--	80,257,492
\$ 1,645,042	\$ 580,171	\$ 5,748,670	\$ 5,824,738	\$ 4,122,590	(14,063,296)	\$ 221,808,918

Carlton County Rural Water Supply Division	Coletto Creek Division	Luling Water Treatment Plant Division	Canyon Hydroelectric Division	Lockhart Division	Eliminations	Total
\$	\$	\$	\$	\$	\$	\$
975,192	899,645	1,340,236	343,658	553,174	-	3,980,284
-	641,236	-	-	-	-	36,351,390
50,120	-	-	-	1,148,222	-	752,100
-	-	-	-	-	-	4,481,509
-	91,281	-	-	-	-	965,329
-	-	-	-	-	-	312,628
-	-	-	-	-	(2,943,855)	-
85,418	28,899	2	3,740	595,523	-	3,172,713
1,110,730	1,661,061	1,340,238	347,398	2,297,519	(2,943,855)	50,215,953
389,490	822,478	343,275	127,725	444,353	(94,226)	2,837,247
400,758	270,428	326,281	81,156	715,969	-	17,387,856
155,039	361,032	102,861	97,468	362,513	-	4,801,652
102,802	138,415	87,746	41,359	113,897	(2,849,629)	-
59,625	42,166	135,137	262,745	246,821	-	5,617,403
1,107,715	1,654,519	995,300	610,433	1,883,558	(2,943,855)	40,744,118
3,015	6,542	344,938	(253,045)	4,3961	-	4,351,435
-	-	-	-	-	-	1,531,700
4,750	31	7,893	300	1,797	-	365,520
4,536	3,792	-	-	266	-	8,594
-	-	(158,241)	-	(22,150)	-	(4,387,175)
9,286	3,823	(150,348)	300	(20,087)	-	(2,481,361)
12,301	10,365	194,590	(262,745)	193,874	-	6,990,474
-	(4,533)	(82,153)	21,245	(424,419)	-	(1,252,246)
12,301	5,832	112,437	-	(30,545)	-	5,738,228
1,402,260	232,682	977,633	39,563	1,193,610	-	74,519,264
\$	\$	\$	\$	\$	\$	\$
1,414,561	238,514	1,090,070	99,563	1,163,065	-	80,257,492

Port Lavaca Water Treatment Plant Division	Calhoun County Rural Water Supply Division	Coleta Creek Division	Luling Water Treatment Plant Division	Canyon Hydroelectric Division	Lockhart Division	Eliminations	Total
\$ 1,677,302	\$ 1,098,754	\$ 1,665,594	\$ 1,391,922	\$ 405,906	\$ 2,326,821	\$ --	\$ 50,178,121
--	--	--	--	--	--	--	2,943,855
(477,836)	(389,490)	(802,479)	(343,275)	(127,725)	(444,353)	--	(12,257,607)
(910,452)	(504,496)	(650,867)	(498,918)	(91,036)	(1,033,298)	--	(21,392,487)
(126,012)	(102,803)	(138,415)	(87,746)	(41,359)	(113,897)	--	(2,849,629)
163,002	101,965	53,834	461,983	145,786	735,273	--	16,622,253
216,500	--	23,500	--	--	--	(400,200)	--
--	--	--	--	--	--	400,200	--
(216,500)	--	(23,500)	--	--	--	945,000	--
--	--	--	--	--	--	(945,000)	--
--	--	--	--	--	--	--	1,511,700
--	--	--	--	--	--	--	1,531,700
--	--	--	--	--	--	--	25,831
--	--	--	--	--	--	--	2,000,000
--	7,447	3,791	--	--	1,892	--	13,137
(5,599)	(37,226)	(12,990)	--	--	(13,781)	--	(1,034,202)
(9,407)	(20,973)	--	--	--	--	--	(1,128,577)
--	--	--	--	--	--	--	(2,205,227)
(16,161)	--	--	(158,946)	--	(22,150)	--	(4,432,411)
(305,000)	--	--	(244,496)	--	(615,000)	--	(5,906,771)
(29,532)	--	--	--	--	--	--	(1,239,493)
(365,699)	(50,752)	(9,199)	(403,442)	--	(649,032)	--	(13,907,759)
230,551	2,941	--	4,303	--	--	--	2,063,649
958	1,541	31	4,658	300	1,539	--	328,916
--	(53,002)	--	(60,129)	--	(13,563)	--	(5,115,933)
231,509	(48,520)	31	(51,168)	300	(12,024)	--	(2,723,368)
\$ 28,812	\$ 2,693	\$ 44,666	\$ 7,373	\$ 146,086	\$ 74,217	\$ --	\$ 1,522,826
19,064	128,595	89,917	87,103	41,852	373,995	--	10,567,257
52,887	131,288	134,583	93,898	187,642	448,212	--	8,384,471
33,823	2,693	44,666	6,795	145,790	74,217	--	(2,182,786)
59,011	--	--	7,128	102,880	--	--	3,937,416
--	--	--	7,706	103,176	--	--	7,643,028
(5,011)	--	--	578	296	--	--	3,705,612
24,075	128,595	89,917	94,231	144,732	373,995	--	14,504,673
52,887	131,288	134,583	101,604	290,818	448,212	--	16,027,499
\$ 28,812	\$ 2,693	\$ 44,666	\$ 7,373	\$ 146,086	\$ 74,217	\$ --	\$ 1,522,826
\$ (69,332)	\$ 3,015	\$ 6,542	\$ 341,938	\$ (267,045)	\$ 413,091	\$ --	\$ 9,471,835
205,834	59,625	42,166	135,137	262,745	246,821	--	5,617,403
--	--	--	--	--	--	--	513,330
159,341	4,461	3	51,684	58,518	29,302	--	189,036
(17,009)	776	569	1,359	871	2,967	--	43,223
--	--	--	--	--	--	--	160,536
(109,122)	34,088	4,554	(71,135)	86,697	42,222	--	626,890
232,334	98,950	47,292	117,045	408,831	321,312	--	7,150,418
\$ 163,002	\$ 101,965	\$ 53,834	\$ 461,983	\$ 145,786	\$ 735,273	\$ --	\$ 16,622,253

**GUADALUPE-BLANCO RIVER AUTHORITY
AMORTIZATION SCHEDULES**

U.S. GOVERNMENT LOAN, CANYON DAM AND RESERVOIR

YR END AUG 31	PRINCIPAL	INTEREST	TOTAL
2017	\$ 241,305	\$ 67,585	\$ 308,890
2018	247,337	61,553	308,890
2019	253,521	55,369	308,890
2020	259,859	49,031	308,890
2021	266,355	42,535	308,890
2022	273,014	35,876	308,890
2023	279,839	29,051	308,890
2024	286,835	22,055	308,890
2025	294,006	14,884	308,890
2026	301,357	7,533	308,890
	<u>\$ 2,703,428</u>	<u>\$ 385,472</u>	<u>\$ 3,088,900</u>

WATER RESOURCE WATER RIGHT PURCHASE AMORTIZATION SCHEDULE

YR END AUG 31	<u>LULING FOUNDATION</u>			<u>ABNER USSERY</u>			TOTAL
	PRINCIPAL	INTEREST	TOTAL	PRINCIPAL	INTEREST	TOTAL REQUIREMENTS	
2017	\$ 19,790	\$ 18,510	\$ 38,300	\$ 11,626	\$ 10,874	\$ 22,500	\$ 60,800
2018	20,681	17,619	38,300	12,149	10,351	22,500	60,800
2019	21,612	16,688	38,300	12,696	9,804	22,500	60,800
2020	22,584	15,716	38,300	13,267	9,233	22,500	60,800
2021	23,600	14,700	38,300	13,864	8,636	22,500	60,800
2022	24,662	13,638	38,300	14,488	8,012	22,500	60,800
2023	25,772	12,528	38,300	15,140	7,360	22,500	60,800
2024	26,932	11,368	38,300	15,822	6,678	22,500	60,800
2025	28,144	10,156	38,300	16,534	5,966	22,500	60,800
2026	29,410	8,890	38,300	17,278	5,222	22,500	60,800
2027	30,734	7,566	38,300	18,055	4,445	22,500	60,800
2028	32,117	6,183	38,300	18,868	3,632	22,500	60,800
2029	33,562	4,738	38,300	19,717	2,783	22,500	60,800
2030	35,072	3,228	38,300	20,604	1,896	22,500	60,800
2031	36,648	1,647	38,295	21,534	967	22,501	60,796
	<u>\$ 411,320</u>	<u>\$ 163,175</u>	<u>\$ 574,495</u>	<u>\$ 241,642</u>	<u>\$ 95,859</u>	<u>\$ 337,501</u>	<u>\$ 911,996</u>

GUADALUPE-BLANCO RIVER AUTHORITY
AMORTIZATION SCHEDULES

GENERAL IMPROVEMENT REVENUE BONDS, SERIES 2015
IWPP PROJECTS, SWIRF FUNDS

YR END AUG 31	PRINCIPAL	INTEREST	TOTAL
2017	\$ --	\$ --	\$ --
2018	--	--	--
2019	--	--	--
2020	--	--	--
2021	--	--	--
2022	--	--	--
2023	--	--	--
2024	145,000	58,295	203,295
2025	145,000	55,267	200,267
2026	150,000	52,080	202,080
2027	155,000	48,404	203,404
2028	160,000	44,294	204,294
2029	160,000	39,789	199,789
2030	165,000	35,096	200,096
2031	170,000	30,075	200,075
2032	180,000	24,747	204,747
2033	185,000	18,969	203,969
2034	190,000	12,916	202,916
2035	195,000	6,591	201,591
	<u>\$ 2,000,000</u>	<u>\$ 426,523</u>	<u>\$ 2,426,523</u>

CONTRACT REVENUE REFUNDING BONDS, SERIES 2013
IH35 TREATED WATER DELIVERY SYSTEM PROJECT

YR END AUG 31	PRINCIPAL	INTEREST	TOTAL
2017	\$ 565,000	\$ 627,656	\$ 1,192,656
2018	585,000	613,531	1,198,531
2019	600,000	601,831	1,201,831
2020	625,000	571,833	1,196,833
2021	640,000	557,769	1,197,769
2022	660,000	532,169	1,192,169
2023	690,000	505,769	1,195,769
2024	730,000	471,269	1,201,269
2025	765,000	434,769	1,199,769
2026	785,000	411,819	1,196,819
2027	810,000	387,288	1,197,288
2028	840,000	360,963	1,200,963
2029	865,000	332,613	1,197,613
2030	900,000	301,256	1,201,256
2031	930,000	268,631	1,198,631
2032	965,000	234,919	1,199,919
2033	1,000,000	199,938	1,199,938
2034	1,035,000	163,688	1,198,688
2035	1,070,000	124,875	1,194,875
2036	1,110,000	84,750	1,194,750
2037	1,150,000	43,121	1,193,121
	<u>\$ 17,320,000</u>	<u>\$ 7,830,457</u>	<u>\$ 25,150,457</u>

**GUADALUPE-BLANCO RIVER AUTHORITY
AMORTIZATION SCHEDULES**

**COMBINATION CONTRACT REVENUE BONDS, SERIES 2007A & 2007B
RRWDS PROJECT**

YR END AUG 31	SERIES 2007A			SERIES 2007B			TOTAL
	PRINCIPAL	INTEREST	TOTAL	PRINCIPAL	INTEREST	TOTAL	
2017	\$ 195,000	\$ 402,500	\$ 597,500	\$ 100,000	\$ 370,822	\$ 470,822	\$ 1,068,322
2018	205,000	392,750	597,750	105,000	363,752	468,752	1,066,502
2019	215,000	382,500	597,500	110,000	356,328	466,328	1,063,828
2020	225,000	371,750	596,750	120,000	348,551	468,551	1,065,301
2021	235,000	360,500	595,500	130,000	340,067	470,067	1,065,567
2022	250,000	348,750	598,750	135,000	330,876	465,876	1,064,626
2023	260,000	336,250	596,250	145,000	321,332	466,332	1,062,582
2024	275,000	323,250	598,250	155,000	311,080	466,080	1,064,330
2025	285,000	309,500	594,500	170,000	300,122	470,122	1,064,622
2026	300,000	295,250	595,250	180,000	288,103	468,103	1,063,353
2027	315,000	280,250	595,250	195,000	275,377	470,377	1,065,627
2028	330,000	264,500	594,500	205,000	261,590	466,590	1,061,090
2029	350,000	248,000	598,000	220,000	247,097	467,097	1,065,097
2030	365,000	230,500	595,500	235,000	231,543	466,543	1,062,043
2031	385,000	212,250	597,250	255,000	214,928	469,928	1,067,178
2032	405,000	193,000	598,000	270,000	196,900	466,900	1,064,900
2033	425,000	172,750	597,750	290,000	177,811	467,811	1,065,561
2034	445,000	151,500	596,500	310,000	157,308	467,308	1,063,808
2035	470,000	129,250	599,250	335,000	135,391	470,391	1,069,641
2036	490,000	105,750	595,750	355,000	111,706	466,706	1,062,456
2037	515,000	81,250	596,250	380,000	86,608	466,608	1,062,858
2038	540,000	55,500	595,500	410,000	59,742	469,742	1,065,242
2039	570,000	28,500	598,500	435,000	30,755	465,755	1,064,255
	\$ 8,050,000	\$ 5,676,000	\$ 13,726,000	\$ 5,245,000	\$ 5,517,789	\$ 10,762,789	\$ 24,488,789

Statistical Section

Guadalupe Blanco River Authority
Net Position By Component
Last Ten Fiscal Years
(accrual basis of accounting)

	Fiscal Year				
	<u>2016</u>	<u>2015</u>	<u>2014</u>	<u>2013</u>	<u>2012</u>
Primary government					
Net investment in capital assets	\$ 45,212,346	\$ 43,492,246	\$ 41,302,982	\$ 36,423,496	\$ 35,853,611
Restricted	6,032,692	8,100,743	8,047,563	4,787,708	5,995,312
Unrestricted	<u>29,012,454</u>	<u>22,926,275</u>	<u>27,977,413</u>	<u>30,776,556</u>	<u>25,315,195</u>
Total primary government net position	<u>\$ 80,257,492</u>	<u>\$ 74,519,264</u>	<u>\$ 77,327,958</u>	<u>\$ 71,987,760</u>	<u>\$ 67,164,118</u>

	Fiscal Year				
	<u>2011</u>	<u>2010</u>	<u>2009</u>	<u>2008</u>	<u>2007</u>
Primary government					
Net investment in capital assets	\$ 40,790,810	\$ 43,235,437	\$ 40,582,695	\$ 38,715,589	\$ 36,361,304
Restricted	5,386,547	6,521,324	10,715,810	7,978,016	6,221,215
Unrestricted	<u>18,914,321</u>	<u>15,143,773</u>	<u>10,656,309</u>	<u>11,365,266</u>	<u>10,843,049</u>
Total primary government net position	<u>\$ 65,091,678</u>	<u>\$ 64,900,534</u>	<u>\$ 61,954,814</u>	<u>\$ 58,058,871</u>	<u>\$ 53,425,568</u>

Guadalupe Blanco River Authority

Operating Revenues by Source Last Ten Fiscal Years

Year	Pollution and Industrial Financing	Power Sales	Water Sales and Lake Operations	Rental, Recreation and Land Use	Waste Water Treatment Services	Laboratory Services	Miscellaneous	Total
2007	\$ -	\$ 3,764,212	\$ 24,850,270	\$ 916,797	\$ 6,248,195	\$ 594,524	\$ 2,168,515	\$ 38,542,513
2008	163,560	3,854,491	30,255,712	973,603	6,271,513	641,059	2,485,501	44,645,439
2009	-	3,056,054	31,051,511	932,909	6,683,467	675,585	2,601,689	45,001,215
2010	-	4,040,510	31,054,841	927,049	6,107,928	759,958	1,627,413	44,517,699
2011	-	4,192,271	31,615,931	1,022,746	4,273,817	736,451	1,808,498	43,649,714
2012	-	3,979,015	33,081,820	1,111,419	3,556,848	823,466	2,084,089	44,636,657
2013	-	3,548,940	34,252,743	1,127,145	3,649,643	800,922	1,686,873	45,066,266
2014	-	3,032,418	34,316,750	1,151,892	3,830,673	842,643	4,382,883	47,557,259
2015	-	2,914,459	35,235,777	1,140,268	4,070,855	914,476	2,581,332	46,857,167
2016	-	3,980,284	36,351,390	1,064,728	4,481,509	965,329	3,372,713	50,215,953

Operating Expenses Last Ten Fiscal Years

Year	Personnel Operating Costs	Operating Supplies and Services	Maintenance and Repairs	Depreciation and Amortization	Special Items (a)	Total
2007	\$ 8,997,620	\$ 12,770,894	\$ 4,036,894	\$ 3,060,563	\$ -	\$ 28,865,971
2008	9,325,518	13,858,478	4,876,916	5,623,753	-	33,684,665
2009	10,014,890	14,371,964	4,539,233	5,577,893	-	34,503,980
2010	9,942,404	13,288,880	4,416,585	6,127,100	1,195,792	34,970,761
2011	9,454,599	13,340,648	4,272,751	6,136,748	1,994,934	35,199,680
2012	9,679,527	13,291,466	4,071,712	5,847,241	2,970,725	35,860,671
2013	9,983,897	14,111,633	4,398,941	7,279,816	1,024,963	36,799,250
2014	10,669,145	14,675,651	4,808,404	6,273,761	239,080	36,666,041
2015	11,553,310	14,894,444	4,963,250	5,705,554	220,901	37,337,459
2016	12,837,247	17,397,816	4,891,652	5,617,403	-	40,744,118

(a) Special Items in FY 2010 through FY 2015 include costs associated with the Whooping Crane Endangered Species Lawsuit

Nonoperating Revenue and Expenses Last Ten Fiscal Years

Year	Interest Expense	Investment Income	Grants	Gain (Loss) on Disposal of Capital Assets	Total
2007	\$ (4,199,747)	\$ 855,793	\$ -	\$ -	\$ (3,343,954)
2008	(7,046,879)	828,429	-	(71,940)	(6,290,390)
2009	(7,410,716)	475,308	242,557	(2,704)	(6,695,555)
2010	(7,184,205)	237,079	430,424	16,790	(6,499,912)
2011	(6,812,918)	288,242	549,534	(1,748,901)	(7,724,043)
2012	(6,684,592)	146,506	563,047	(122,715)	(6,097,754)
2013	(6,711,171)	117,304	681,223	4,560	(5,908,084)
2014	(5,059,003)	276,151	1,030,613	8,981	(3,743,258)
2015	(4,553,127)	124,228	891,457	17,392	(3,520,050)
2016	(4,387,175)	365,520	1,531,700	8,594	(2,481,361)

Types of Operating Systems

Several GBRA operating divisions are segregated into systems to facilitate cost accounting, internal control, and rate setting. Each system has one of two types of budgets, either "Budget-to-Actual" or "Units of Service". Budget-to-Actual systems provide services based on a budget approved by the customer and GBRA. During the course of the year, the customer is billed based on the annual budget with those billings adjusted to the total actual cost of service at each fiscal year end. Unit-of Service budgets are for the other GBRA operations where the customer pays for some type of service based on a unit of measure at a rate approved by the GBRA Board of Directors. The revenue derived from these customers pays the operating and maintenance, debt service, and capital costs of the system. In these systems, revenue is completely dependent upon the number of units sold and no customer year-end adjustment is available. The table below distinguishes the systems according to the type of operations in which they operate:

Budget-to-Actual Operations:	Principal Customers	County
Northcliffe Wastewater Treatment Plant	City of Schertz	Guadalupe
Sunfield Wastewater Treatment Plant	Sunfield MUD #4	Hays
Singing Hills Wastewater Treatment Plant	City of Bulverde	Comal
Buda Wastewater Treatment Plant	City of Buda	Hays
Port Lavaca Water Treatment Plant	City of Port Lavaca	Calhoun
Coleto Creek Reservoir	Coleto Creek Power, LP	Victoria/Goliad
Luling Water Treatment Plant	Cities of Luling & Lockhart	Caldwell
Canyon Hydroelectric Plant	New Braunfels Utilities	Comal
Lockhart Wastewater Reclamation System	City of Lockhart	Caldwell
Lockhart Water Treatment Plant	City of Lockhart	Caldwell

Unit of Service Operations:	Principal Customers	County
General Division	GBRA Systems	Guadalupe
Guadalupe Valley Hydroelectric Division	Guadalupe Valley Electric Coop.	Guadalupe/Gonzales
Shadow Creek Wastewater Treatment Plant	Residential Customers	Hays
Canyon Park Wastewater Reclamation System	Residential Customers	Comal
Dunlap Wastewater Reclamation System	Residential Customers	Guadalupe
Springs Hill Wastewater Reclamation System	City of Seguin	Guadalupe
Water Sales System	Communities, industries, farmers	Entire River Basin
Regional Laboratory System	Residential, Industrial, City Customers	Entire River Basin
Calhoun Canal System	Port Lavaca Plant, farmers, industries	Calhoun
San Marcos Water Treatment Plant	City of San Marcos	Hays
Western Canyon Division	Boerne, Bulverde, Fair Oaks, Cordillera	Comal/Kendall
Cordillera Water Treatment Plant	Residential and Commercial Customers	Kendall
Cordillera Wastewater Treatment Plant	Residential and Commercial Customers	Kendall
Comal Trace Water Distribution System	Residential Customers	Comal
Johnson Ranch Water Distribution System	Residential Customers, Public School	Comal
Johnson Ranch Wastewater Treatment Plant	Residential Customers, Public School	Comal
Calhoun County Rural Water System	Residential and Commercial Customers	Calhoun
Coleto Creek Recreation	Recreational Customers	Victoria/Goliad

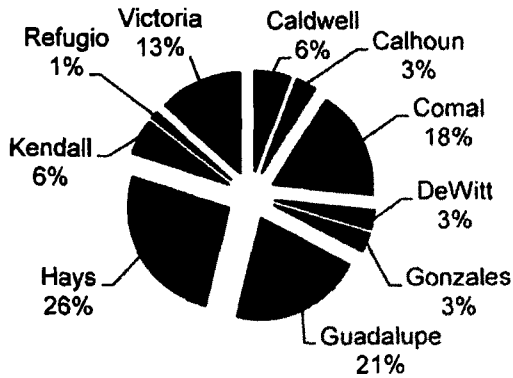
**Guadalupe Blanco River Authority
Third Party Debt
Last Ten Fiscal Years**

**Pollution Control and
Industrial Development Bonds**

Year	
2007	\$ 90,890,000
2008	90,890,000
2009	90,890,000
2010	40,890,000
2011	40,890,000
2012	40,890,000
2013	40,890,000
2014	40,890,000
2015	40,890,000
2016	40,890,000

GBRA has assisted industries within the GBRA service area by acting as issuing conduit so that the user of the bond proceeds benefited from reduced debt service requirements. Fees to administer this debt are recognized as pollution and industrial financing income. In each case, the user of the bond proceeds pledge their credit, bear sole responsibility for all debt service, make all payments directly to the trustee and completely indemnify GBRA for any costs incurred. Due to the character of these bonds, GBRA considers them debts of the third party users rather than debts of GBRA. Therefore, these bonds and the related receivables have been excluded from the combined financial statements in order to avoid misrepresenting the nature of the bonds and distorting GBRA's statements. The exclusion is in conformity with the Texas State Auditor's Report dated October 6, 1986 for Water Districts and River Authorities reporting third party conduit financings.

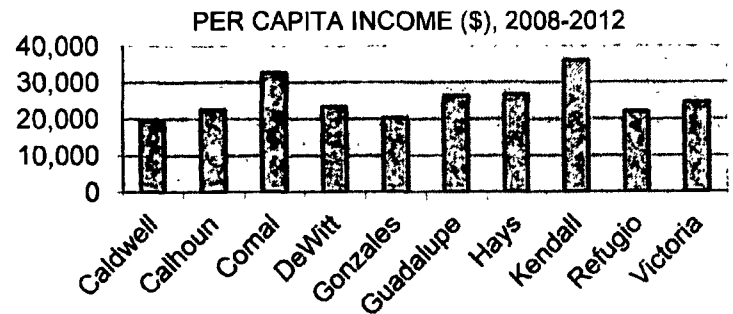
DISTRICT POPULATION BY COUNTY



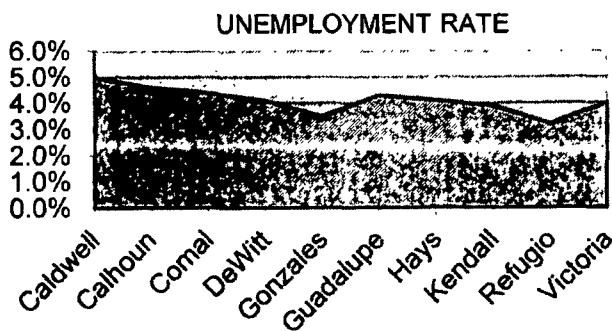
SOURCE: U.S. Census Bureau, Estimate 2013

COUNTY	POPULATION
Hays	176,026
Guadalupe	143,183
Comal	118,480
Victoria	90,028
Caldwell	39,232
Kendall	37,766
Calhoun	21,806
DeWitt	20,503
Gonzales	20,312
Refugio	7,305

COUNTY	PER CAPITA INCOME
Kendall	35,991
Comal	32,736
Hays	26,662
Guadalupe	26,233
Victoria	24,473
DeWitt	23,281
Calhoun	22,439
Refugio	21,936
Gonzales	20,225
Caldwell	19,368



SOURCE: U.S. Census Bureau, 5yr Estimate



SOURCE: US Dept. of Labor, Bureau of Labor Statistics as of April 2014

COUNTY	UNEMPLOYMENT RATE
Comal	4.4%
Caldwell	5.0%
Guadalupe	4.3%
Calhoun	4.6%
Victoria	4.0%
Hays	4.1%
Kendall	3.9%
Gonzales	3.5%
DeWitt	4.1%
Refugio	3.2%
Texas	5.1%
U.S.	6.1%



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FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016
87,252,000	71,381,000	91,070,000	92,377,000	81,818,000	75,749,000	72,753,000	81,715,000
554,970,000	542,137,000	613,240,000	579,122,000	548,963,000	537,896,000	522,285,000	544,955,000
677,043,000	634,399,000	675,179,000	664,541,000	684,728,000	630,906,000	638,074,000	654,244,000
739,501,000	630,210,000	752,918,000	721,578,000	666,194,000	617,275,000	715,451,000	693,981,000
2,773,635,000	2,685,046,000	3,209,012,000	3,324,085,000	3,449,001,000	3,643,600,000	3,619,286,000	3,627,098,000
3,669,842,000	3,722,663,000	3,446,937,000	3,640,904,000	3,663,286,000	3,587,600,000	3,302,315,000	3,641,065,000
273,300,000	339,800,000	331,430,000	376,050,000	363,970,000	479,600,000	426,560,000	435,200,000
2,184,018	3,059,616	2,291,900	2,709,621	2,085,000	1,719,866	3,306,682	2,041,000
380,250,000	465,830,000	429,580,000	453,960,000	395,550,000	413,360,000	483,600,000	491,710,000
168,400,000	239,600,000	195,800,000	186,300,000	186,300,000	199,500,000	239,900,000	229,200,000
2,209,000,000	2,579,000,000	819,000,000	--	--	--	--	--
4,720,000	3,246,000	4,930,000	1,750,000	--	--	--	--
35,980,000	41,010,000	38,160,000	43,000,000	46,700,000	54,790,000	56,050,000	65,760,000
--	2,560,000	9,970,000	19,020,000	23,210,000	43,610,000	41,670,000	36,710,000
2,153	2,177	2,249	1,917	2,306	1,532	--	1,074
1,146,655,000	998,991,000	900,513,000	498,819,000	680,145,000	816,222,100	1,224,248,900	1,239,957,000
2,908,782,000	3,280,168,000	3,336,852,000	4,093,251,000	4,281,180,000	4,295,695,000	4,525,209,000	4,803,160,000
25,726,200	71,633,300	42,126,000	31,405,400	23,444,900	18,469,500	37,271,300	68,045,400
2,415,841	17,716,632	7,566,158	--	--	1,599	4,256,771	22,657,028
9	18	19	27	30	23	10	5
252	254	259	309	320	290	273	285
2,995	3,204	4,266	4,914	5,403	4,932	4,031	2,214
12,941	12,393	13,133	14,368	14,983	14,697	13,136	14,514
725	717	766	985	1,072	1,009	923	990
2,739	2,776	2,588	2,851	3,080	3,855	3,746	2,697
15,139	14,465	16,331	17,503	18,377	16,825	17,455	18,417

Independent Auditor's Report In Accordance With Government Auditing Standards



INDEPENDENT AUDITOR'S REPORT ON INTERNAL CONTROL OVER FINANCIAL REPORTING AND ON
COMPLIANCE AND OTHER MATTERS BASED ON AN AUDIT OF FINANCIAL STATEMENTS
PERFORMED IN ACCORDANCE WITH *GOVERNMENT AUDITING STANDARDS*

To the Board of Directors
Guadalupe-Blanco River Authority

We have audited, in accordance with the auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards* issued by the Comptroller General of the United States, the financial statements of the Guadalupe-Blanco River Authority as of and for the years ended August 31, 2016 and 2015, and the related notes to the financial statements, which collectively comprise Guadalupe-Blanco River Authority's basic financial statements, and have issued our report thereon dated December 14, 2016.

Internal Control Over Financial Reporting

In planning and performing our audit of the financial statements, we considered Guadalupe-Blanco River Authority's internal control over financial reporting (internal control) to determine the audit procedures that are appropriate in the circumstances for the purpose of expressing our opinions on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of Guadalupe-Blanco River Authority's internal control. Accordingly, we do not express an opinion on the effectiveness of Guadalupe-Blanco River Authority's internal control.

A *deficiency in internal control* exists when the design or operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, misstatements on a timely basis. A *material weakness* is a deficiency, or a combination of deficiencies, in internal control, such that there is a reasonable possibility that a material misstatement of the entity's financial statements will not be prevented, or detected and corrected on a timely basis. A *significant deficiency* is a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance.

Our consideration of internal control was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control that might be material weaknesses or, significant deficiencies. Given these limitations, during our audit we did not identify any deficiencies in internal control that we consider to be material weaknesses. However, material weaknesses may exist that have not been identified.

Compliance and Other Matters

As part of obtaining reasonable assurance about whether Guadalupe-Blanco River Authority's financial statements are free from material misstatement, we performed tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements, noncompliance with which could have a direct and material effect on the determination of financial statement amounts. However, providing an opinion on compliance with those provisions was not an objective of our audit, and accordingly, we do not express such an opinion. The results of our tests disclosed no instances of noncompliance or other matters that are required to be reported under *Government Auditing Standards*.

Purpose of this Report

The purpose of this report is solely to describe the scope of our testing of internal control and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the entity's internal control or on compliance. This report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the entity's internal control and compliance. Accordingly, this communication is not suitable for any other purpose.

ABIP, PC

Certified Public Accountants
San Antonio, Texas

December 14, 2016

Principal Offices and Business Locations