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OCT 02 2019

SYLVIA GARCIA-PEREZ
CAMERON COUNTY CLERK
By: [Signature] Deputy

TO: Southmost Regional Water Authority
FROM: Dr. Jude A. Benavides, President
SUBJECT: Notice of a Regular Board Meeting

MEETING DATE: **October 7, 2019**
MEETING TIME: **12:00 PM**
LOCATION: **Southmost Regional Water Authority
Robert H. Lackner Board Room
1255 FM 511
Brownsville, Texas 78526**

MEETING AGENDA

Call Open Meeting to Order at 12:00 PM

Confirmation of a Quorum
Pledge of Allegiance

PUBLIC COMMENT PERIOD


Please note the following:

- **"PUBLIC COMMENT REGISTRATION FORMS"** ARE LOCATED AT THE ENTRANCE OF THE SRWA BOARD ROOM.
- **"PUBLIC COMMENT REGISTRATION FORMS"** MUST BE FILLED OUT AND PRESENTED TO THE RECORDING SECRETARY/STAFF FIFTEEN (15) MINUTES PRIOR TO THE MEETING.
- THERE IS A FIVE (5) MINUTE TIME LIMIT PER SPEAKER. THE SPEAKER MUST IDENTIFY BY NAME, ADDRESS, AND ORGANIZATIONAL AFFILIATION (IF ANY) BEFORE SPEAKING.
- QUESTIONS AND COMMENTS SHOULD BE ADDRESSED TO THE PRESIDENT, NOT TO INDIVIDUAL BOARD MEMBERS, THE CEO, OR MEMBERS OF THE AUDIENCE.
- NO FORMAL ACTION CAN BE TAKEN.

OPEN MEETING

1. Consideration and Possible Action on Approval of the September 9, 2019, Board Meeting Minutes—J. Benavides
2. General Manager's Report
- Operational and Financial Report
3. Discussion on Date and Time of Next Board Meeting—J. Benavides

Adjournment



Dr. J. Benavides – President

The Southmost Regional Water Authority Board reserves the right to adjourn into executive session at any time to discuss any of the matters listed above, as authorized by Texas Government Code § 551.071 (Consultation with Attorney), § 551.072 (Deliberations about Real Property), § 551.074 (Personnel Matters), § 551.076 (Deliberations about Security Devices), § 551.086 (Public Utility Competitive Matters), § 551.087 (Economic Development), and § 551.089 (Department of Information Resources).

**Southmost Regional Water Authority
Brownsville, Texas**

**Minutes
Of
Regular Board Meeting
September 9, 2019
12:00 P.M.**

Place: S.R.W.A. Brackish Groundwater Treatment Facility
Robert H. Lackner Board Room
1255 FM 511
Brownsville, Texas 78526

Present: Directors & Officers:
Dr. Jude A. Benavides, BPUB
John S. Bruciak, P.E., BPUB
Roger Nelson, VMUD #2
Ralph Cowen, BND

Others Present:
Fernando Saenz, BPUB
Leandro G. Garcia, BPUB
Jaime Estrada, BPUB
Miguel Perez, BPUB
Joe Saldivar, Jr., BPUB/SRWA
Jose A. Garza, BPUB
Juan Bujanos, BPUB
Judy K. Adams, BPUB
Mark Millum, City of Los Fresnos
Melissa Zepeda, BPUB
Tricia Ayers, BPUB

Dr. Jude A. Benavides welcomed all in attendance and called the meeting to order at 12:00 p.m.
The U.S. Pledge of Allegiance was led by Dr. Jude A. Benavides.

1. Election of Officers for the Board of Directors of the Southmost Regional Water Authority—J. Bruciak

Pursuant to Senate Bill No. 1161 of the State of Texas 67th Legislature (1981) and in accordance with Article III of the Bylaws, the Southmost Regional Water Authority (SRWA) Board of Directors shall elect from its members a slate of officers including the following:

- President Dr. Jude A. Benavides, Brownsville Public Utilities Board
- Vice-President Mr. Roger Nelson, Valley Municipal Utility District No. 2
- Treasurer Mayor Hipolito L. Narvaez, City of Los Fresnos
- Secretary Mr. Ralph Cowen, Brownsville Navigational District
- Board Member Mayor James A. Chambers, Town of Indian Lake
- Deputy Secretary/Treasurer John S. Bruciak, P.E., Brownsville Public Utilities Board

Each Director serves his/her term of office until successor is appointed and qualified.

Motion was made by Roger Nelson, seconded by Ralph Cowen and unanimously carried by Board to approve appointment of officers to the SRWA Board, as presented.

2. Consideration and Possible Action on Approval of the August 5, 2019, Board Meeting Minutes—J. Benavides

Motion was made by Ralph Cowen, seconded by Roger Nelson, and unanimously carried by board to approve the minutes of August 5, 2019, Regular Board Meeting, as presented.

3. General Manager's Report

– **Operational and Financial Report** – Jose Armando Garza, Water Treatment Manager, presented the operational report for July 31, 2019, which included the Southmost Regional Water Authority (SRWA) 2018 – 2019 Fiscal Year (FY) Water Distribution Summary and True-up Estimate. He discussed the year-to-date water distribution flows to each entity and the water plant operations. Tricia Ayers, Acting Controller, presented the financial statement for the month ending July 31, 2019.

4. Consideration and Possible Action of a Resolution Amending Designation of Certain Officers and Employees as Authorized Signatories to Drafts Drawn on Accounts of SRWA at the Wells Fargo Bank—L. Garcia

Funds in all Wells Fargo Bank accounts established by SRWA, may be withdrawn effective on the date of the approved resolution with vouchers of the SRWA signed by any two of the following persons:

Dr. Jude A. Benavides, President
 John S. Bruciak, P.E., General Manger & CEO
 Leandro G. Garcia, CPA, Chief Financial Officer
 Pedro Elizondo, Controller
 Tricia Ayers, Acting Controller
 Nora C. Cavazos, Treasury & Accounting SS Manager

Former SRWA President, Martin C. Arambula, will be removed as authorized signer on accounts of SRWA at Wells Fargo Bank.

Motion was made by Ralph Cowen, seconded by Roger Nelson, and unanimously carried by board to approve.

5. Consideration and Possible Action of a Resolution to Approve the Investment Policy, Investment Strategies and Other Matters in Connection Therewith—L. Garcia

As required by the provisions of Chapter 2256, as amended, the Texas Government Code requires the annual review of the Southmost Regional Water Authority’s (SRWA) Investment Policy, Investment Strategies and other matters. SRWA staff reviewed the current policy (Tab1) and is recommending minor revisions to the policy.

The following components of the investment policy also require annual review and approval:

- Tab 2- List of Authorized Personnel
- Tab 3- Broker/Dealer Questionnaire and Certification
- Tab 4- List of Authorized Brokers/Dealers & Financial Institutions

Motion was made by Roger Nelson, seconded by Ralph Cowen, and unanimously carried by board to approve.

6. Discussion on Date and Time of Next Board Meeting

The date and time of the next Board Meeting is on Monday, October 7, 2019, at 12:00 p.m.

7. Adjournment

Motion to adjourn was made by Roger Nelson, seconded by Ralph Cowen, and unanimously carried by board approval. Meeting adjourned at 12:14 p.m.

Recorder: _____ Date: _____
 Melissa Zepeda

Approved: _____ Date: _____
 Dr. Jude A. Benavides

**Production
&
Distribution
Report**

**For the Month Ended
August 31, 2019**

Jose A. Garza

[A]	[B]	[C]	[D]	[E]	[F]	[G]	[H]	[I]	[J]	[K]
SRWA 2018-2019 FY Water Distribution Summary and True-Up Estimate										
		SRWA Total Distribution			BPUB ¹	Valley MUD#2	Los Fresnos ²	BND ¹	Indian Lake ²	Total
Allocation	Percent (%)	Million Gals	Dist. Per sum of		92.91%	2.51%	2.28%	2.10%	0.20%	100.00%
			column f-j	Difference	Million Gals	Million Gals	Million Gals			
	Oct-18	222.138	222.138	0.000	195.436	12.229	9.364	4.665	0.444	222.138
	Nov-18	204.442	204.442	0.000	189.880	7.471	2.389	4.293	0.409	204.442
	Dec-18	214.374	214.374	0.000	200.970	5.132	3.341	4.502	0.429	214.374
	Jan-19	210.629	210.629	0.000	199.394	3.850	2.541	4.423	0.421	210.629
	Feb-19	190.938	190.938	0.000	181.905	2.512	2.129	4.010	0.382	190.938
	Mar-19	213.295	213.295	0.000	201.771	4.462	2.156	4.479	0.427	213.295
	Apr-19	216.368	216.368	0.000	202.096	4.239	5.057	4.544	0.433	216.368
	May-19	226.240	226.240	0.000	213.108	3.257	4.672	4.751	0.452	226.240
	Jun-19	241.527	241.527	0.000	229.541	2.093	4.338	5.072	0.483	241.527
	Jul-19	225.565	225.565	0.000	206.975	5.018	8.384	4.737	0.451	225.565
	Aug-19	231.919	231.919	0.000	206.460	8.709	11.416	4.870	0.464	231.919
	Sep-19		0.000	0.000						-
Actual Distribution	YTD MG	2,397.435	2,397.435	0.000	2,227.536	58.972	55.787	50.346	4.795	2,397.435
	Daily Average (MGD)	7.157			6.649	0.176	0.167	0.150	0.014	7.157

True up Estimate: This is not a bill.

Allocable Distribution Based on % Participation	2,227.457	60.176	54.662	50.346	4.795	2,397.435
Consolidation of Distribution per Agreements	2,277.803	60.176	59.456	-	-	2,397.435
Over (Under) Distributed	0.08	(1.204)	1.13	-	-	(0.000)
FY2019 Estimated O&M Cost Per Thousand Gallons	\$ 1.49	\$ 1.49	\$ 1.49			
Total Cost of Over (Under) Distributed	<u>\$ 116.99</u>	<u>\$ (1,793.41)</u>	<u>\$ 1,676.42</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ (0.00)</u>

¹ BPUB is providing credit to the BND for their SRWA share on their monthly BPUB water bill.

² As of Jan 1, 2009, City of Los Fresnos is purchasing Indian Lake's water allocation (as per Interlocal Agreement dated 10/14/2008)

SOUTHMOST REGIONAL WATER AUTHORITY

PRODUCTION / DISTRIBUTION COSTS

2019

MONTH: **August-19**

	R.O. Water Produced MGD	Blend Water Produced MGD	Total Water Produced	DISTRIBUTION (MGD)			TOTAL WATER DISTRIBUTED
				TO BROWNSVILLE	TO LOS FRESNOS	TO VMUD #2	
1	6.356	1.263	7.619	8.790	0.377	0.173	9.340
2	6.286	1.238	7.524	4.656	0.336	0.249	5.241
3	6.101	1.222	7.323	6.622	0.341	0.299	7.262
4	6.150	1.217	7.367	6.852	0.378	0.250	7.480
5	6.282	1.246	7.528	7.095	0.347	0.305	7.747
6	5.429	1.087	6.516	6.458	0.366	0.277	7.101
7	6.244	1.242	7.486	6.778	0.328	0.265	7.371
8	6.256	1.238	7.494	6.920	0.392	0.284	7.596
9	5.050	0.988	6.038	6.955	0.352	0.274	7.581
10	6.358	1.256	7.614	6.646	0.364	0.296	7.306
11	6.043	1.270	7.313	6.394	0.351	0.306	7.051
12	6.219	1.184	7.403	7.199	0.374	0.334	7.907
13	6.243	1.249	7.492	6.617	0.389	0.305	7.311
14	6.304	1.251	7.555	7.006	0.369	0.271	7.646
15	6.502	1.288	7.790	6.746	0.426	0.229	7.401
16	6.001	1.193	7.194	4.883	0.422	0.288	5.593
17	6.592	1.315	7.907	7.223	0.428	0.320	7.971
18	7.289	1.457	8.746	7.913	0.390	0.250	8.553
19	6.646	1.320	7.966	7.775	0.369	0.354	8.498
20	6.650	1.337	7.987	8.306	0.414	0.224	8.944
21	7.074	1.398	8.472	7.576	0.379	0.247	8.202
22	7.030	1.388	8.418	7.420	0.394	0.292	8.106
23	7.255	1.421	8.676	7.657	0.436	0.281	8.374
24	6.547	1.316	7.863	7.437	0.428	0.314	8.179
25	6.507	1.281	7.788	7.036	0.415	0.278	7.729
26	6.375	1.261	7.636	7.257	0.334	0.303	7.894
27	2.625	0.458	3.083	5.586	0.385	0.354	6.325
28	5.889	1.153	7.042	5.653	0.412	0.217	6.282
29	5.013	0.954	5.967	6.185	0.406	0.306	6.897
30	6.311	1.241	7.552	6.294	0.364	0.296	6.954
31	6.194	1.231	7.425	5.395	0.414	0.268	6.077
TOTALS	191.821	37.963	229.784	211.330	11.880	8.709	231.919
AVERAGE	6.188	1.225	7.412	6.817	0.383	0.281	7.481

CHEMICAL CONSUMPTION

	TYPE	QUANTITY	COST/UNIT	TOTALS
Scale Inhibitor	275-Gal Tote	1.26	\$4,681.60	\$5,898.82
Calcium Chloride	lbs.	65,661.29	\$0.1750	\$11,490.73
Caustic Soda	lbs.	16,096.93	\$0.1740	\$2,800.87
Liquid Ammonium Sulfate	lbs.	19,315.35	\$0.1014	\$1,958.58
Chlorine	Ton Containers	6.70	\$694.00	\$4,649.80
Ferric Chloride	lbs.	9,063.99	\$0.2420	\$2,193.49
Sodium Bisulfite	lbs.	8,222.95	\$0.1050	\$863.41
High pH Membrane Cleaner (237)	55-Gal Drum	0.00	\$1,550.00	\$0.00
Low pH Membrane Cleaner (234)	55-Gal Drum	0.00	\$1,600.00	\$0.00
Low pH Membrane Cleaner (232)	55-Gal Drum	0.00	\$1,600.00	\$0.00
Citric Acid	275-Gal Totes	2.00	\$1,734.34	\$3,468.68
Sodium Chlorite	lbs.	21,066.21	\$0.882	\$18,580.40
<i>Chemical cost per thousand gals:</i>		<i>\$0.226</i>		\$51,904.76

ELECTRIC CONSUMPTION

	kwh	COST/kwh	TOTALS
Well Field	547,800	\$0.05560	\$30,457.68
MF Processing Plant	270,000	\$0.0700	\$18,900.00
RO Processing Plant	354,600	\$0.0700	\$24,822.00
High Service Pumps	184,400	\$0.0700	\$12,908.00
<i>Power costs per thousand gals:</i>	<i>\$0.379</i>		\$87,087.68

SOUTHMOST REGIONAL WATER AUTHORITY
2019

MONTH: **August-19**

	TOTAL MGD PRODUCED	DESCRIPTION	DOWN TIME HOURS
1	7.619		
2	7.524		
3	7.323		
4	7.367		
5	7.528		
6	6.516		
7	7.486		
8	7.494		
9	6.038		
10	7.614		
11	7.313		
12	7.403		
13	7.492		
14	7.555		
15	7.790		
16	7.194		
17	7.907		
18	8.746		
19	7.966		
20	7.987		
21	8.472		
22	8.418		
23	8.676		
24	7.863		
25	7.788		
26	7.636		
27	3.083	SRWA had a scheduled shutdown to install a grounding ring on a magnetic flow meter at the microfiltration booster pump station.	12
28	7.042		
29	5.967	Microfiltration processing issues with air scrubs (backwashing).	3
30	7.552		
31	7.425		
TOTALS	229.784		15
AVERAGE	7.412		

**Financial
Performance**

**For the Month Ended
August 31, 2019**

Tricia Ayers

Fiscal Year 2019 Southmost Regional Water Authority Financial Performance as of August 31, 2019



Operating Revenues / Expenses

	August 2019	FY 2019 YTD
1. Operating Revenues:		
2. Member assessments	\$ 575,627	\$ 6,331,895
3. Total Operating Revenues	<u>575,627</u>	<u>6,331,895</u>
4. Operating Expenses:		
5. Personnel services	48,479	544,286
6. Materials and supplies	41,310	1,122,120
7. Repairs and maintenance	17,442	59,803
8. Contractual and other services	132,185	1,308,073
9. Depreciation expense	107,541	1,168,987
10. Total Operating Expenses	<u>346,957</u>	<u>4,203,269</u>
11. Operating Income	228,670	2,128,626

Fiscal Year 2019 Southmost Regional Water Authority Financial Performance as of August 31, 2019



Non-Operating Revenues / Expenses

	August 2019	FY 2019 YTD
12. Non-Operating Revenues (Expenses):		
13. Non-operating revenues (expenses)	17	(6,625)
14. Interest from investments	19,315	200,011
15. Amortized regulatory costs and bond premium	622	6,819
16. Interest expense	(72,734)	(800,071)
17. Net Non-Operating Revenues (Expenses)	<u>(52,780)</u>	<u>(599,866)</u>
18. Income before capital contributions	175,890	1,528,760
19. Capital contributions	-	-
20. Change in net position	<u>175,890</u>	<u>1,528,760</u>
21. Net Position, beginning of year	16,880,391	15,527,521
22. Net Position, end of year	<u>\$ 17,056,281</u>	<u>\$ 17,056,281</u>



Fiscal Year 2019
Summary by Account

RUN DATE: 12-SEPT-2019

ACCOUNT	FY 2019 APPROVED BUDGET	YTD BUDGET	YTD ACTUALS	DIFF	AUGUST BUDGET	AUGUST ACTUAL	BUDGET BALANCE
Personnel Services							
6160 Overhead Labor	640,058	586,720	544,286	42,434	53,338	48,479	95,772
Total Personnel Services	\$ 640,058	\$ 586,720	\$ 544,286	\$ 42,434	\$ 53,338	\$ 48,479	\$ 95,772
Materials and supplies							
7203 Sand, Caliche, Gravel, Concrete etc	-	(4,774)	5,355	(10,129)	4,774	-	(5,355)
7225 Safety supplies	8,000	7,333	3,161	4,172	667	10	4,839
7278 Chemicals - sodium chlorite	184,255	168,900	150,775	18,126	15,355	11,432	33,480
7281 Chemicals - ammonia	25,620	23,485	24,383	(898)	2,135	-	1,237
7282 Chemicals - caustic soda	281,363	257,916	74,155	183,761	23,447	-	207,208
7283 Chemicals - chlorine	73,567	67,436	47,192	20,244	6,131	5,552	26,375
7288 Chemicals - ferric chloride	22,748	20,852	21,490	(637)	1,896	-	1,258
7291 Chemicals-Microfiltration Cleaners	47,824	43,839	21,390	22,449	3,985	-	26,434
7292 Chemicals - Sodium Bisulfite	22,523	20,646	9,920	10,726	1,877	-	12,603
7293 Chemicals - other	500	458	1,013	(554)	42	-	(513)
7294 Chemicals - calcium chloride	349,071	319,982	234,411	85,571	29,089	15,866	114,660
7295 Chemicals - membrane cleaner	56,800	52,067	74,906	(22,839)	4,733	-	(18,106)
7296 Chemicals - scale inhibitor	98,314	90,121	36,250	53,871	8,193	-	62,064
7297 Chemicals - cartridge filters	50,715	46,489	15,036	31,453	4,226	-	35,679
7298 membranes	106,260	97,405	246,141	(148,736)	8,855	-	(139,881)
7299 Other materials & supplies	142,282	135,199	156,542	(21,344)	7,083	8,450	(14,260)
Total Materials and supplies	\$ 1,469,842	\$ 1,347,355	\$ 1,122,120	\$ 225,235	\$ 122,487	\$ 41,310	\$ 347,722
Repairs and maintenance							
7520 Maint. of minor equipment	900	825	-	825	75	-	900
7581 Maintenance wells	276,613	251,895	59,803	192,093	24,718	17,442	216,810
Total Repairs and maintenance	\$ 277,513	\$ 252,720	\$ 59,803	\$ 192,918	\$ 24,793	\$ 17,442	\$ 217,710
Contractual and other services							
7102 Sponsorships	3,000	2,750	-	2,750	250	-	3,000
7105 Books & periodicals	250	229	-	229	21	-	250
7110 Dues & memberships	2,500	2,292	1,793	499	208	-	707



Fiscal Year 2019
Summary by Account

RUN DATE: 12-SEPT-2019

ACCOUNT	FY 2019		YTD ACTUALS	DIFF	AUGUST	AUGUST	BUDGET
	APPROVED BUDGET	YTD BUDGET			BUDGET	ACTUAL	BALANCE
7120 Office supplies	1,500	1,375	1,954	(579)	125	-	(454)
7130 Postage/shipping charges	500	458	379	80	42	-	121
7135 Telephone expenses	28,000	25,667	16,518	9,149	2,333	1,539	11,482
7140 Training expenses	6,000	5,500	6,261	(761)	500	1,625	(261)
7145 Travel expenses	5,554	5,091	1,652	3,440	463	206	3,903
7180 Utilities - departmental	1,200,000	1,100,000	909,613	190,387	100,000	93,440	290,387
7310 Federal, state, & local fees	2,000	1,833	-	1,833	167	-	2,000
7315 Food, meals, ice, water	5,000	4,583	2,440	2,143	417	64	2,560
7325 Rental of equip/storage/land	8,000	7,333	9,492	(2,159)	667	687	(1,492)
7335 Wearing apparel & dry goods	4,100	3,758	2,322	1,437	342	-	1,779
7380 Insurance - general liability	4,400	4,033	1,885	2,149	367	171	2,515
7381 Insurance - boiler,mchnry,property	68,000	62,333	58,971	3,362	5,667	5,251	9,029
7384 Insurance - public officials liab	1,900	1,742	1,499	243	158	136	401
7385 Insurance - comprehensive auto liab	600	550	501	49	50	46	99
7415 Fuels & lubricants	3,000	2,750	2,913	(163)	250	335	87
7601 Legal Fees	25,000	22,917	16,810	6,107	2,083	700	8,190
7605 Engineering fees	50,000	45,833	39,336	6,497	4,167	9,255	10,664
7615 External auditor fees	12,000	11,000	10,000	1,000	1,000	-	2,000
7645 Maintenance services	3,000	2,750	1,046	1,704	250	91	1,954
7650 Security services	7,000	6,417	-	6,417	583	-	7,000
7660 Ground Keeping Maintenance	70,000	64,167	61,270	2,897	5,833	5,100	8,730
7699 Other services	150,000	137,500	122,135	15,365	12,500	13,538	27,865
7801 Communication equipment	3,500	3,208	3,588	(380)	292	-	(88)
7805 Computer equipment	2,000	1,833	-	1,833	167	-	2,000
7810 Laboratory equipment	15,000	13,750	11,480	2,270	1,250	-	3,520
7820 Office furniture & equipment	2,000	1,833	-	1,833	167	-	2,000
7830 Pumping equipment	35,000	33,750	24,215	9,535	1,250	-	10,785
7835 Tools, shop and garage equipment	2,000	1,833	-	1,833	167	-	2,000
7899 Other minor tools & equipment	1,500	1,375	-	1,375	125	-	1,500
Total Contractual and other services	\$ 1,722,304	\$ 1,580,445	\$ 1,308,073	\$ 272,373	\$ 141,859	\$ 132,185	\$ 414,231
GRAND TOTAL	\$ 4,109,717	\$ 3,767,241	\$ 3,034,281	\$ 732,960	\$ 342,476	\$ 239,416	\$ 1,075,436

OPERATIONAL & FINANCIAL REPORT



**For the Month Ended
August 31, 2019**





Table of Contents

- I. Financial Statements**
 - a. Financial Presentation**
 - b. Statement of Net Position**
 - c. Statement of Revenues, Expenses & Changes in Net Position**
 - d. Statement of Demand Accounts & Investments**

- II. Operations & Maintenance Expenses**
 - a. Approved FY 2019 Budget Allocation**
 - b. Summary by Type**
 - c. Summary by Account**
 - d. Check Register for the Month ending August 31, 2019**

- III. Operational Statistics**
 - a. SRWA Total Distribution**
 - b. Historical Monthly Unit Cost of Water**
 - c. Summary of Distribution for FY 2019**
 - d. Production/Distribution Costs**

- IV. Plant Issues**

- V. Capital Improvements**

- VI. SRWA Outstanding Debt**
 - a. Debt Service**
 - b. Outstanding Debt**
 - c. Outstanding Debt through Maturity**
 - d. Debt Service Requirements by Fiscal Year**
 - e. Debt Service Annual Cash Requirements**

- VII. Glossary**

- VIII. Selected Provisions from the SRWA Water Supply Contract**



September 18, 2019

Southmost Regional Water Authority

Dear Board Members:

Enclosed is the report on the financial and plant operations of the Southmost Regional Water Authority for the month ending August 31, 2019.

Sincerely,

A handwritten signature in blue ink, which appears to read "Leandro G. Garcia".

Leandro G. Garcia, CPA
Chief Financial Officer



Financial Statements



Financial Presentation



FINANCIAL PERFORMANCE REPORT

For the month ended August 31, 2019

Fiscal Year 2019 Southmost Regional Water Authority Financial Performance as of August 31, 2019



Operating Revenues / Expenses

	August 2019	FY 2019 YTD
1. Operating Revenues:		
2. Member assessments	\$ 575,627	\$ 6,331,895
3. Total Operating Revenues	<u>575,627</u>	<u>6,331,895</u>
4. Operating Expenses:		
5. Personnel services	48,479	544,286
6. Materials and supplies	41,310	1,122,120
7. Repairs and maintenance	17,442	59,803
8. Contractual and other services	132,185	1,308,073
9. Depreciation expense	<u>107,541</u>	<u>1,168,987</u>
10. Total Operating Expenses	<u>346,957</u>	<u>4,203,269</u>
11. Operating Income	228,670	2,128,626

Fiscal Year 2019 Southmost Regional Water Authority Financial Performance as of August 31, 2019



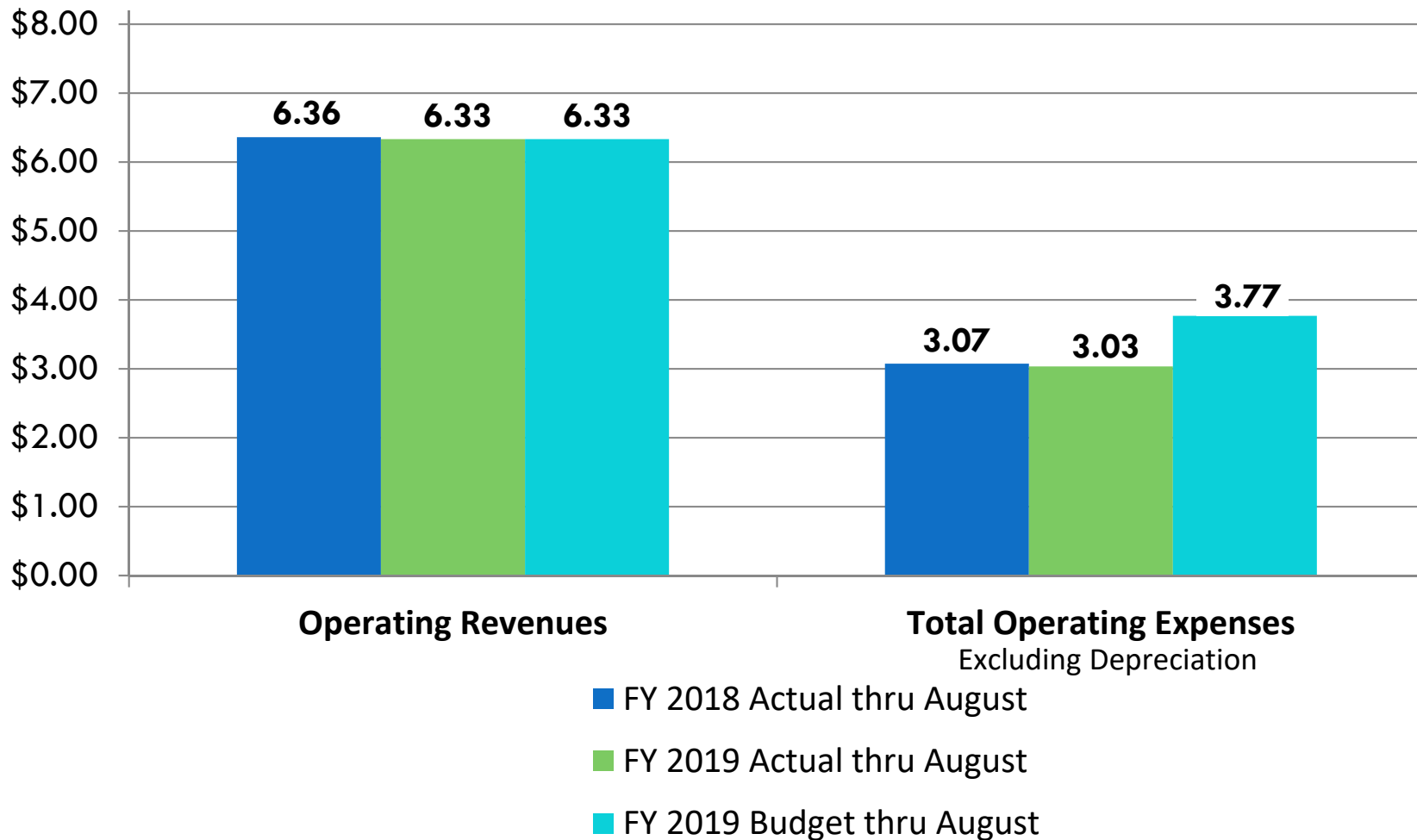
Non-Operating Revenues / Expenses

	August 2019	FY 2019 YTD
12. Non-Operating Revenues (Expenses):		
13. Non-operating revenues (expenses)	17	(6,625)
14. Interest from investments	19,315	200,011
15. Amortized regulatory costs and bond premium	622	6,819
16. Interest expense	(72,734)	(800,071)
17. Net Non-Operating Revenues (Expenses)	<u>(52,780)</u>	<u>(599,866)</u>
18. Income before capital contributions	175,890	1,528,760
19. Capital contributions	-	-
20. Change in net position	<u>175,890</u>	<u>1,528,760</u>
21. Net Position, beginning of year	16,880,391	15,527,521
22. Net Position, end of year	<u>\$ 17,056,281</u>	<u>\$ 17,056,281</u>

Fiscal Year 2019 Southmost Regional Water Authority Financial Performance as of August 31, 2019



Millions

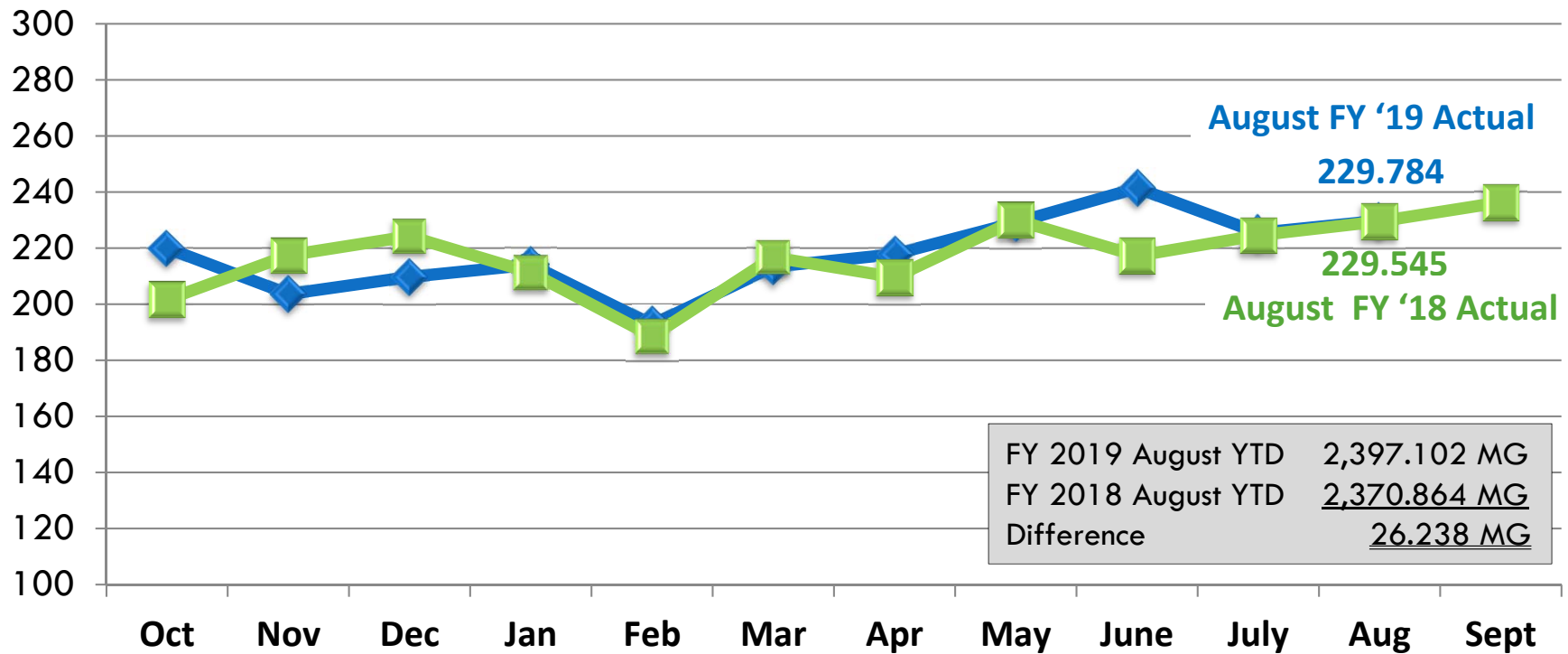


Fiscal Year 2019 Southmost Regional Water Authority Financial Performance as of August 31, 2019



Million Gallons

Water Production



FY 2019 August YTD	2,397.102 MG
FY 2018 August YTD	<u>2,370.864 MG</u>
Difference	<u>26.238 MG</u>

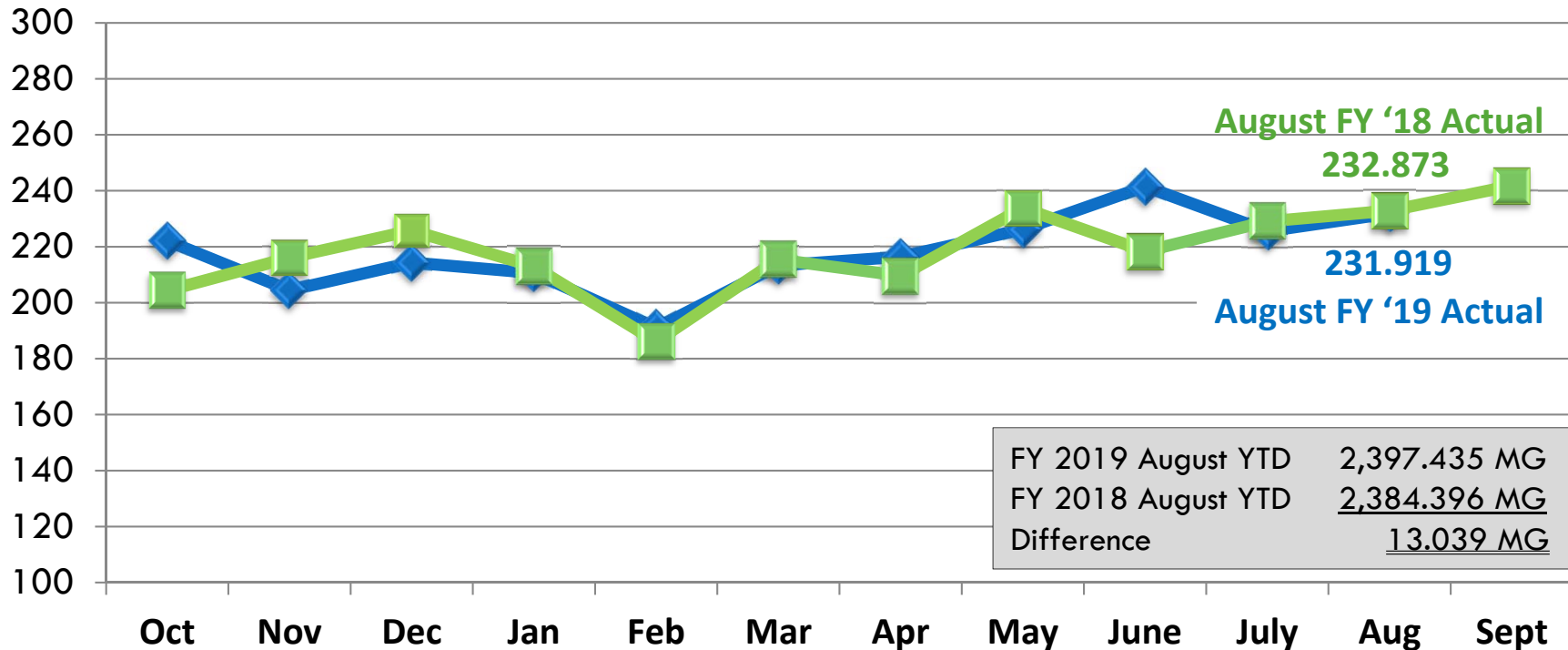
- ◆ FY 2019 Actual Production thru August
- FY 2018 Actual Production thru August

Fiscal Year 2019 Southmost Regional Water Authority Financial Performance as of August 31, 2019



Million Gallons

Water Distribution



FY 2019 August YTD	2,397.435 MG
FY 2018 August YTD	<u>2,384.396 MG</u>
Difference	<u>13.039 MG</u>

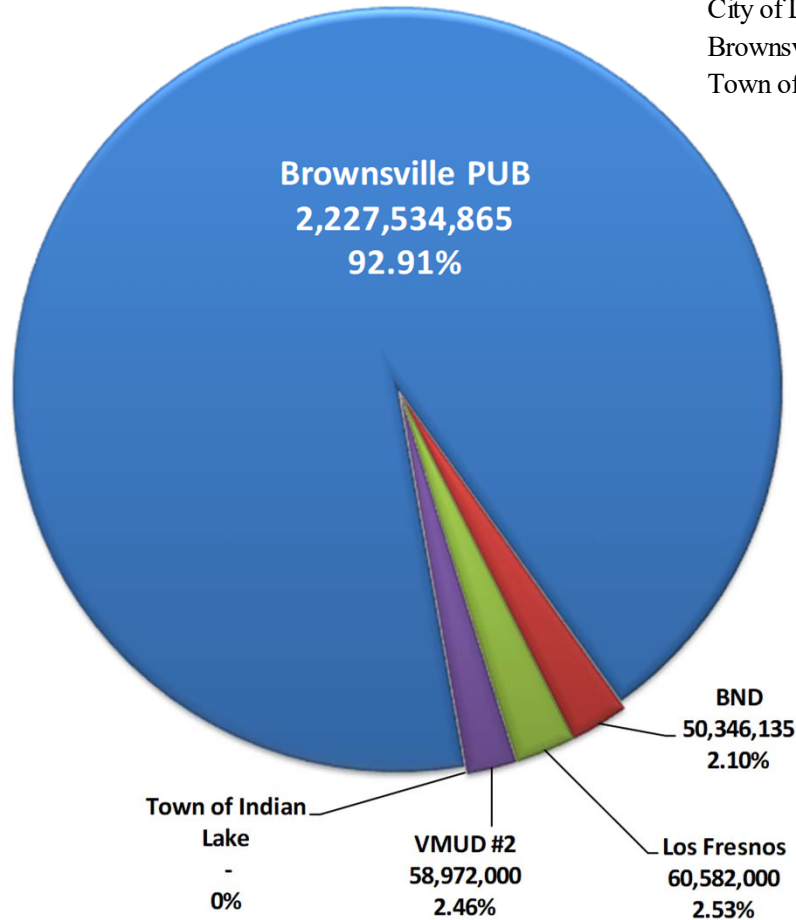
- ◆ FY 2019 Actual Distribution thru August
- FY 2018 Actual Distribution thru August

Fiscal Year 2019 Southmost Regional Water Authority Financial Performance as of August 31, 2019



SRWA Distribution to participating entities.

Total SRWA Distribution: 2,397,435,000 Gallons



Participant	Percent Allocation	Allocable Distribution	Actual Distribution	Over (Under) Distributed
Brownsville Public Utilities Board	92.91%	2,227,456,859	2,227,534,865	78,007
Valley Municipal Utility District #2	2.51%	60,175,619	58,972,000	(1,203,618)
City of Los Fresnos	2.28%	54,661,518	60,582,000	5,920,482
Brownsville Navigation District	2.10%	50,346,135	50,346,135 ²	-
Town of Indian Lake	0.20%	4,794,870	- ¹	(4,794,870)
	100.00%	2,397,435,000	2,397,435,000	-

Comments:

1. As of January 1, 2009, Los Fresnos is purchasing Indian Lake's water allocation.
2. PUB is providing credit to the BND for their SRWA share on their monthly bill.
3. Unit Cost of Water combines O&M and Debt Service.

	SRWA Unit Cost of Water (1,000 gallons) ³		
	O&M	DS	Combined
FY Ending 2017	\$ 1.48	\$ 0.90	\$ 2.38
FY Ending 2018	\$ 1.49	\$ 0.86	\$ 2.35



Statements of Net Position
August 31, 2019 and September 30, 2018

	Unaudited August 2019	Audited September 2018
ASSETS		
Current Assets:		
Cash - unrestricted	\$ 6,676	\$ 34,444
Cash - restricted	13,340	36,324
Investments - unrestricted	3,207,072	2,559,473
Investments - restricted	7,017,367	5,051,394
Due from other governments	8,058	50,160
Interest receivable	31,906	21,259
Prepaid expense	37,109	33,758
Total Current Assets	10,321,528	7,786,812
Capital Assets:		
Capital assets, net of accumulated depreciation	34,938,292	35,753,655
Other Assets:		
Unamortized regulatory assets	411,607	443,480
Total Assets	45,671,427	43,983,947
DEFERRED OUTFLOWS OF RESOURCES		
Deferred charge on refunding	843,949	925,038
Total Deferred Outflows of Resources	843,949	925,038
Total Assets plus Deferred Outflows of Resources	\$ 46,515,376	\$ 44,908,985
LIABILITIES AND NET POSITION		
Current Liabilities:		
Accounts payable	\$ 51,584	\$ 283,790
Accrued interest	436,403	72,734
Bonds payable - current redemption	1,425,000	1,425,000
Unearned revenues	257,432	191,484
Total Current Liabilities	2,170,419	1,973,008
Non-Current Liabilities:		
Bonds payable	25,680,000	25,680,000
Reoffering premium	1,895,998	2,034,796
Bond issue discount	(287,322)	(306,340)
Total Non-Current liabilities	27,288,676	27,408,456
Total Liabilities	29,459,095	29,381,464
Net Position:		
Net investment in capital assets	6,224,616	6,920,199
Restricted for debt service	2,790,280	1,395,861
Restricted for capital projects	3,804,024	3,619,124
Unrestricted	4,237,361	3,592,337
Total Net Position	17,056,281	15,527,521
Total Liabilities and Net Position	\$ 46,515,376	\$ 44,908,985



Statements of Revenues, Expenses, and Changes in Net Position
For the Eleven Months ended August 31, 2019 and Fiscal Year ended September 30, 2018

	Unaudited August 2019	Audited September 2018
Operating Revenues:		
Member assessments	\$ 6,331,895	\$ 6,936,183
Total Operating Revenues	6,331,895	6,936,183
Operating Expenses:		
Personnel services	544,286	603,668
Materials and supplies	1,122,120	1,371,376
Repairs and maintenance	59,803	118,267
Contractual and other services	1,308,073	1,479,678
Depreciation expense	1,168,987	1,250,362
Total Operating Expenses	4,203,269	4,823,351
Operating Income	2,128,626	2,112,832
Non-Operating Revenues (Expenses):		
Non-operating revenues (expenses)	(6,625)	(8,514)
Interest from investments	200,011	134,535
Amortized regulatory costs	6,819	7,437
Interest expense	(800,071)	(916,580)
Net Non-Operating Revenues (Expenses)	(599,866)	(783,122)
Income before capital contributions	1,528,760	1,329,710
Capital contributions	-	123,831
Change in net position	1,528,760	1,453,541
Net position at beginning of year	15,527,521	14,073,980
Net position at end of year	\$ 17,056,281	\$ 15,527,521



Statement of Demand Accounts & Investments
August 31, 2019

Current:	<u>Demand</u>	<u>Investments</u>	<u>Totals</u>
Operating Cash	\$ 3,676	\$ 1,905,218	\$ 1,908,894
Operating Fund - Membrane Replacement	-	548,864	548,864
Operation & Maintenance Reserve	3,000	752,990	755,990
Capital Improvement	13,340	3,790,684	3,804,024
Debt Service Fund	-	2,587,194	2,587,194
Debt Service Reserve Fund 2009	-	639,489	639,489
Total	<u>\$ 20,016</u>	<u>\$ 10,224,439</u>	<u>\$ 10,244,455</u>



Operations & Maintenance Expenses



Approved FY 2019 Budget Allocation



**FISCAL YEAR 2019
APPROVED BUDGET ALLOCATION
BY PARTICIPANT**

Line Ref	[A]	[B]	[C]	[D]	[E]	[F]	[G]	[H]	[I]
	PARTICIPANT	PERCENT ALLOCATION	2019 TOTAL DEBT SERVICE	2019 APPROVED O&M BUDGET	2019 O&M RESERVE ALLOCATION	2019 APPROVED CAPITAL BUDGET	TOTAL APPROVED 2019 ALLOCATION	TOTAL APPROVED 2018 ALLOCATION	VARIANCE: FISCAL YEAR 2019 VS 2018
1	Brownsville Public Utilities Board	92.91%	\$ 2,134,891	\$ 3,818,338	\$ -	\$ 464,550	\$ 6,417,779	\$ 6,445,791	\$ (28,012)
2	Valley Municipal Utility District #2	2.51%	57,675	103,154	-	12,550	173,379	174,136	(757)
3	City of Los Fresnos	2.28%	52,390	93,702	-	11,400	157,492	158,179	(687)
4	Brownsville Navigation District	2.10%	48,254	86,304	-	10,500	145,058	145,691	(633)
5	Town of Indian Lake	0.20%	4,595	8,219	-	1,000	13,814	13,875	(61)
6		100.00%	\$ 2,297,805	\$ 4,109,717	\$ -	\$ 500,000	\$ 6,907,522	\$ 6,937,672	\$ (30,150)
7	FISCAL YEAR 2018 APPROVED BUDGET:		\$ 2,249,558	\$ 4,137,954	\$ -	\$ 550,160	\$ 6,937,672		
8	Dollar Increases - FY 2019 VS. 2018 APPROVED		\$ 48,247	\$ (28,237)	\$ -	\$ (50,160)	\$ (30,150)		
9	% INCREASE - FY 2019 VS. 2018 APPROVED		2.14%	-0.68%	0.00%	-9.12%	-0.43%		



Summary by Type



Fiscal Year 2019
Summary by Type

RUN DATE: 12-SEPT-2019

TYPE	FY 2019				AUGUST BUDGET	AUGUST ACTUAL	BUDGET BALANCE
	APPROVED BUDGET	YTD BUDGET	YTD ACTUALS	DIFF			
61 Personnel Salaries & Wages	\$ 640,058	\$ 586,720	\$ 544,286	\$ 42,434	\$ 53,338	\$ 48,479	\$ 95,772
71 Operating Office Expenses	1,247,304	1,143,362	938,170	205,192	103,942	96,811	309,134
72 Operating Materials & Supplies	1,469,842	1,347,355	1,122,120	225,235	122,487	41,310	347,722
73 Operating Miscellaneous General Exp	94,000	86,167	77,110	9,057	7,833	6,355	16,890
74 Operating Transportation Expense	3,000	2,750	2,913	(163)	250	335	87
75 Operating Maint. of General Plant	277,513	252,720	59,803	192,918	24,793	17,442	217,710
76 Operating Consultants/Outside Svc	317,000	290,583	250,596	39,987	26,417	28,684	66,404
78 Operating Purch/Minor Tools & Equip	61,000	57,583	39,284	18,299	3,417	-	21,716
Grand Total	\$ 4,109,717	\$ 3,767,241	\$ 3,034,281	\$ 732,960	\$ 342,476	\$ 239,416	\$ 1,075,436



Summary by Account



Fiscal Year 2019
Summary by Account

RUN DATE: 12-SEPT-2019

ACCOUNT	FY 2019 APPROVED BUDGET	YTD BUDGET	YTD ACTUALS	DIFF	AUGUST BUDGET	AUGUST ACTUAL	BUDGET BALANCE
Personnel Services							
6160 Overhead Labor	640,058	586,720	544,286	42,434	53,338	48,479	95,772
Total Personnel Services	\$ 640,058	\$ 586,720	\$ 544,286	\$ 42,434	\$ 53,338	\$ 48,479	\$ 95,772
Materials and supplies							
7203 Sand, Caliche, Gravel, Concrete etc	-	(4,774)	5,355	(10,129)	4,774	-	(5,355)
7225 Safety supplies	8,000	7,333	3,161	4,172	667	10	4,839
7278 Chemicals - sodium chlorite	184,255	168,900	150,775	18,126	15,355	11,432	33,480
7281 Chemicals - ammonia	25,620	23,485	24,383	(898)	2,135	-	1,237
7282 Chemicals - caustic soda	281,363	257,916	74,155	183,761	23,447	-	207,208
7283 Chemicals - chlorine	73,567	67,436	47,192	20,244	6,131	5,552	26,375
7288 Chemicals - ferric chloride	22,748	20,852	21,490	(637)	1,896	-	1,258
7291 Chemicals-Microfiltration Cleaners	47,824	43,839	21,390	22,449	3,985	-	26,434
7292 Chemicals - Sodium Bisulfite	22,523	20,646	9,920	10,726	1,877	-	12,603
7293 Chemicals - other	500	458	1,013	(554)	42	-	(513)
7294 Chemicals - calcium chloride	349,071	319,982	234,411	85,571	29,089	15,866	114,660
7295 Chemicals - membrane cleaner	56,800	52,067	74,906	(22,839)	4,733	-	(18,106)
7296 Chemicals - scale inhibitor	98,314	90,121	36,250	53,871	8,193	-	62,064
7297 Chemicals - cartridge filters	50,715	46,489	15,036	31,453	4,226	-	35,679
7298 membranes	106,260	97,405	246,141	(148,736)	8,855	-	(139,881)
7299 Other materials & supplies	142,282	135,199	156,542	(21,344)	7,083	8,450	(14,260)
Total Materials and supplies	\$ 1,469,842	\$ 1,347,355	\$ 1,122,120	\$ 225,235	\$ 122,487	\$ 41,310	\$ 347,722
Repairs and maintenance							
7520 Maint. of minor equipment	900	825	-	825	75	-	900
7581 Maintenance wells	276,613	251,895	59,803	192,093	24,718	17,442	216,810
Total Repairs and maintenance	\$ 277,513	\$ 252,720	\$ 59,803	\$ 192,918	\$ 24,793	\$ 17,442	\$ 217,710
Contractual and other services							
7102 Sponsorships	3,000	2,750	-	2,750	250	-	3,000
7105 Books & periodicals	250	229	-	229	21	-	250
7110 Dues & memberships	2,500	2,292	1,793	499	208	-	707



Fiscal Year 2019
Summary by Account

RUN DATE: 12-SEPT-2019

ACCOUNT	FY 2019		YTD ACTUALS	DIFF	AUGUST	AUGUST	BUDGET
	APPROVED BUDGET	YTD BUDGET			BUDGET	ACTUAL	BALANCE
7120 Office supplies	1,500	1,375	1,954	(579)	125	-	(454)
7130 Postage/shipping charges	500	458	379	80	42	-	121
7135 Telephone expenses	28,000	25,667	16,518	9,149	2,333	1,539	11,482
7140 Training expenses	6,000	5,500	6,261	(761)	500	1,625	(261)
7145 Travel expenses	5,554	5,091	1,652	3,440	463	206	3,903
7180 Utilities - departmental	1,200,000	1,100,000	909,613	190,387	100,000	93,440	290,387
7310 Federal, state, & local fees	2,000	1,833	-	1,833	167	-	2,000
7315 Food, meals, ice, water	5,000	4,583	2,440	2,143	417	64	2,560
7325 Rental of equip/storage/land	8,000	7,333	9,492	(2,159)	667	687	(1,492)
7335 Wearing apparel & dry goods	4,100	3,758	2,322	1,437	342	-	1,779
7380 Insurance - general liability	4,400	4,033	1,885	2,149	367	171	2,515
7381 Insurance - boiler,mchnry,property	68,000	62,333	58,971	3,362	5,667	5,251	9,029
7384 Insurance - public officials liab	1,900	1,742	1,499	243	158	136	401
7385 Insurance - comprehensive auto liab	600	550	501	49	50	46	99
7415 Fuels & lubricants	3,000	2,750	2,913	(163)	250	335	87
7601 Legal Fees	25,000	22,917	16,810	6,107	2,083	700	8,190
7605 Engineering fees	50,000	45,833	39,336	6,497	4,167	9,255	10,664
7615 External auditor fees	12,000	11,000	10,000	1,000	1,000	-	2,000
7645 Maintenance services	3,000	2,750	1,046	1,704	250	91	1,954
7650 Security services	7,000	6,417	-	6,417	583	-	7,000
7660 Ground Keeping Maintenance	70,000	64,167	61,270	2,897	5,833	5,100	8,730
7699 Other services	150,000	137,500	122,135	15,365	12,500	13,538	27,865
7801 Communication equipment	3,500	3,208	3,588	(380)	292	-	(88)
7805 Computer equipment	2,000	1,833	-	1,833	167	-	2,000
7810 Laboratory equipment	15,000	13,750	11,480	2,270	1,250	-	3,520
7820 Office furniture & equipment	2,000	1,833	-	1,833	167	-	2,000
7830 Pumping equipment	35,000	33,750	24,215	9,535	1,250	-	10,785
7835 Tools, shop and garage equipment	2,000	1,833	-	1,833	167	-	2,000
7899 Other minor tools & equipment	1,500	1,375	-	1,375	125	-	1,500
Total Contractual and other services	\$ 1,722,304	\$ 1,580,445	\$ 1,308,073	\$ 272,373	\$ 141,859	\$ 132,185	\$ 414,231
GRAND TOTAL	\$ 4,109,717	\$ 3,767,241	\$ 3,034,281	\$ 732,960	\$ 342,476	\$ 239,416	\$ 1,075,436



Check Register for the Month ending August 31, 2019

CHECK REGISTER FOR THE MONTH OF AUGUST 2019

<u>CHECK #</u>	<u>COAS</u>	<u>BANK CODE</u>	<u>CHECK AMT</u>	<u>CHECK DATE</u>	<u>VENDOR NAME</u>	<u>COMM DESC</u>
!0057876	P	SM	25,026.40	8/1/19	AMERICAN WATER CHEMICALS	SRWA: ANNUAL SUPPLY OF SCALE INHIBI
!0057877	P	SM	4,986.85	8/1/19	CHEMTRADE CHEMICALS CORP	SRWA: ANNUAL SUPPLY OF LIQUID AMMON
!0057878	P	SM	5,552.00	8/1/19	DPC INDUSTRIES, INC.	SRWA: ANNUAL SUPPLY OF CHLORINE
!0057879	P	SM	30.37	8/1/19	MODEL LAUNDRY LLC	LAUNDRY AND CLEANING SERVICES
!0057880	P	SM	1,701.87	8/1/19	PALL CORPORATION	VALVE MANIFOLD,ENET G3,M12,NUMATICS
!0057881	P	SM	7,166.00	8/1/19	R.W. HARDEN & ASSOCIATES, INC.	SRWA WELL REHABILITATION PROJECT
!0057882	P	SM	15,865.50	8/1/19	SKYHAWK CHEMICALS, INC	SRWA: ANNUAL SUPPLY OF CALCIUM CHLO
!0058008	P	SM	2,710.00	8/8/19	ANA-LAB CORPORATION	SRWA - WATER SAMPLING FEES FOR ONE
!0058009	P	SM	11,432.38	8/8/19	EWT HOLDINGS III CORP	SRWA: ANNUAL SUPPLY OF CHLORINE DIO
!0058010	P	SM	20,612.08	8/8/19	KOMAX SYSTEMS, INC	FREIGHT CHARGES FOR INV 00038469
!0058011	P	SM	30.37	8/8/19	MODEL LAUNDRY LLC	LAUNDRY AND CLEANING SERVICES
!0058012	P	SM	5,200.00	8/8/19	PALL CORPORATION	SRWA: MICROFILTRATION CONSULTING &
!0058013	P	SM	1,312.67	8/8/19	SMARTCOM TELEPHONE, LLC	SRWA: YEARLY PRI PHONE SERVICES
!0058125	P	SD	191,483.74	8/15/19	U.S. BANK N.A.	SRWA-WTR SUPPLY SERIES CTR 2009A/B-
!0058129	P	SM	4,328.60	8/15/19	HACH COMPANY	ITEM# 8791900 AMMONIA, FREE & TOTAL
!0058130	P	SM	733.54	8/15/19	JOHNSON CONTROLS, INC.	SRWA - A/C REPAIRS: INSTALLED NEW O
!0058131	P	SM	5,100.00	8/15/19	VALLEYWIDE TREE TRIMMING, LLC	SRWA ANNUAL GROUNDS KEEPING MAINTEN
!0058132	P	SM	381.57	8/15/19	XEROX CORPORATION	SRWA: OPEN PO XEROX MODEL# C8055H R
!0058240	P	SM	2,888.00	8/22/19	BELL JR. WELDON	TURNKEY JOB
!0058241	P	SM	206.00	8/22/19	LEYVA ARTURO	TRVL ADVC TRNG @ EDINBURGH TX -- T
!0058244	P	SM	876.00	8/22/19	ANA-LAB CORPORATION	SRWA - WATER SAMPLING FEES FOR ONE
!0058245	P	SM	700.00	8/22/19	DAVIDSON & TROILO REAM & GARZA	LEGAL SERVICES REGARDING: SRWA GENE
!0058246	P	SM	2,776.00	8/22/19	DPC INDUSTRIES, INC.	SRWA: ANNUAL SUPPLY OF CHLORINE
!0058247	P	SM	2,182.72	8/22/19	JOHNSON CONTROLS, INC.	SRWA: PREVENTATIVE MAINTENANCE FOR
!0058248	P	SM	1,004.00	8/22/19	MACAULAY CONTROLS COMPANY	NOSHOK ELECTRONIC INDICATING PRESSU
!0058249	P	SM	8,973.18	8/22/19	R.W. HARDEN & ASSOCIATES, INC.	SRWA WELL REHABILITATION PROJECT
!0058250	P	SM	33,356.30	8/22/19	VISTRA ENERGY CORP.	SRWA: ELECTRIC ENERGY FOR WATER WEL
!0058372	P	SM	738.00	8/29/19	ANA-LAB CORPORATION	SRWA - WATER SAMPLING FEES FOR ONE
!0058373	P	SM	3.45	8/29/19	CITY OF BROWNSVILLE	LANDFILLE FEES FOR JULY'19
!0058374	P	SM	1,076.40	8/29/19	HACH COMPANY	ITEM# 2556900 CL17 FREE CHLORINE RE
!0058375	P	SM	30.37	8/29/19	MODEL LAUNDRY LLC	LAUNDRY AND CLEANING SERVICES
!0058376	P	SM	14,552.55	8/29/19	PUMPS OF HOUSTON, INC.	FRANKLIN MOTOR/50HP/316SS/460V/3PH/

CHECK REGISTER FOR THE MONTH OF AUGUST 2019

<u>CHECK #</u>	<u>COAS</u>	<u>BANK CODE</u>	<u>CHECK AMT</u>	<u>CHECK DATE</u>	<u>VENDOR NAME</u>	<u>COMM DESC</u>
!0058377	P	SM	250.00	8/29/19	TERRABELLA ENVIRONMENTAL	SRWA: DISPOSAL OF MANGANESE WASTE B
00145194	P	SM	194.31	8/1/19	AT&T CORP	SRWA MONTHLY SERVICE CHARGE FOR FAX
00145283	P	SM	687.48	8/15/19	BROWNSVILLE - G.M.S., LTD.	RENTAL OF GARBAGE BINS - JUNE 2019
00145312	P	SM	1,625.00	8/22/19	SOUTH CENTRAL MEMBRANE ASSOCIATION	SCMA MOC-I: MEMBER REGISTRATION FEE
00145357	P	SM	225.79	8/29/19	AT&T CORP	SRWA MONTHLY SERVICE CHARGE FOR FAX
00145358	P	SM	11.00	8/29/19	CAMERON COUNTY	AGENDA POSTING FEES FOR SEPT'2019
W0014192	P	SM	0.00	8/19/19	TEST PATTERN	TEST PATTERN
W0014193	P	SM	2,201.48	8/19/19	CITIBANK, N.A.	PROCUREMENT CARD PURCHASES

TOTAL CHECK REGISTER FOR THE MONTH OF AUGUST	378,211.97
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<u>CHECK #</u>	<u>COAS</u>	<u>BANK CODE</u>	<u>CHECK AMT</u>	<u>CHECK DATE</u>	<u>VENDOR NAME</u>	<u>COMM DESC</u>
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TOTAL CANCEL CHECKS FOR THE MONTH OF AUGUST	-
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TOTAL FOR THE MONTH OF AUGUST	378,211.97
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Operational Statistics

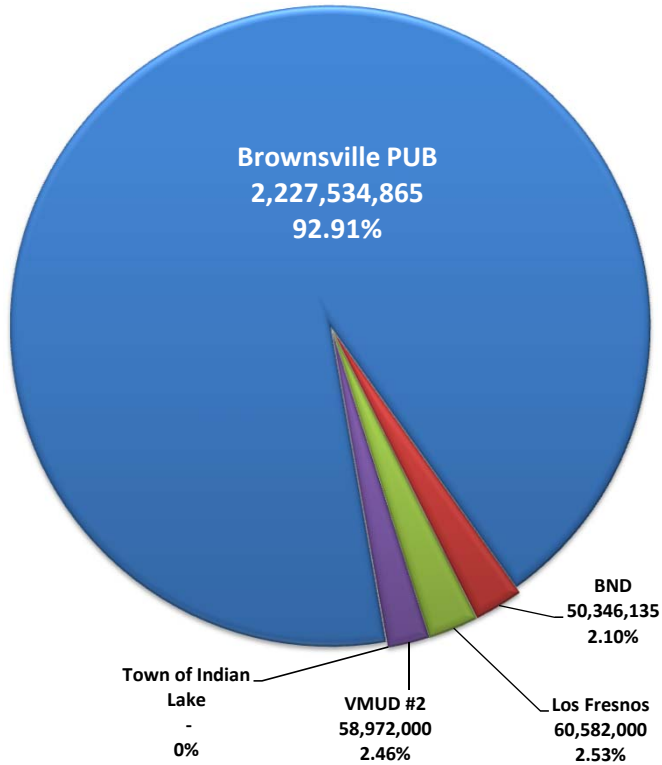


SRWA Total Distribution

SRWA Total Distribution

SRWA Distribution to participating entities.

Total SRWA Distribution: 2,397,435,000 Gallons



Participant	Percent Allocation	Allocable Distribution	Actual Distribution	Over (Under) Distributed
Brownsville Public Utilities Board	92.91%	2,227,456,859	2,227,534,865	78,007
Valley Municipal Utility District #2	2.51%	60,175,619	58,972,000	(1,203,618)
City of Los Fresnos	2.28%	54,661,518	60,582,000	5,920,482
Brownsville Navigation District	2.10%	50,346,135	50,346,135	-
Town of Indian Lake	0.20%	4,794,870	-	(4,794,870)
Total	100.00%	2,397,435,000	2,397,435,000	-

Comments:

1. As of January 1, 2009, Los Fresnos is purchasing Indian Lake's water allocation.
2. PUB is providing credit to the BND for their SRWA share on their monthly bill.
3. Unit Cost of Water combines O&M and Debt Service.

	O&M	DS	Combined
FY Ending 2017	\$ 1.48	\$ 0.90	\$ 2.38
FY Ending 2018	\$ 1.49	\$ 0.86	\$ 2.35



Historical Monthly Unit Cost of Water

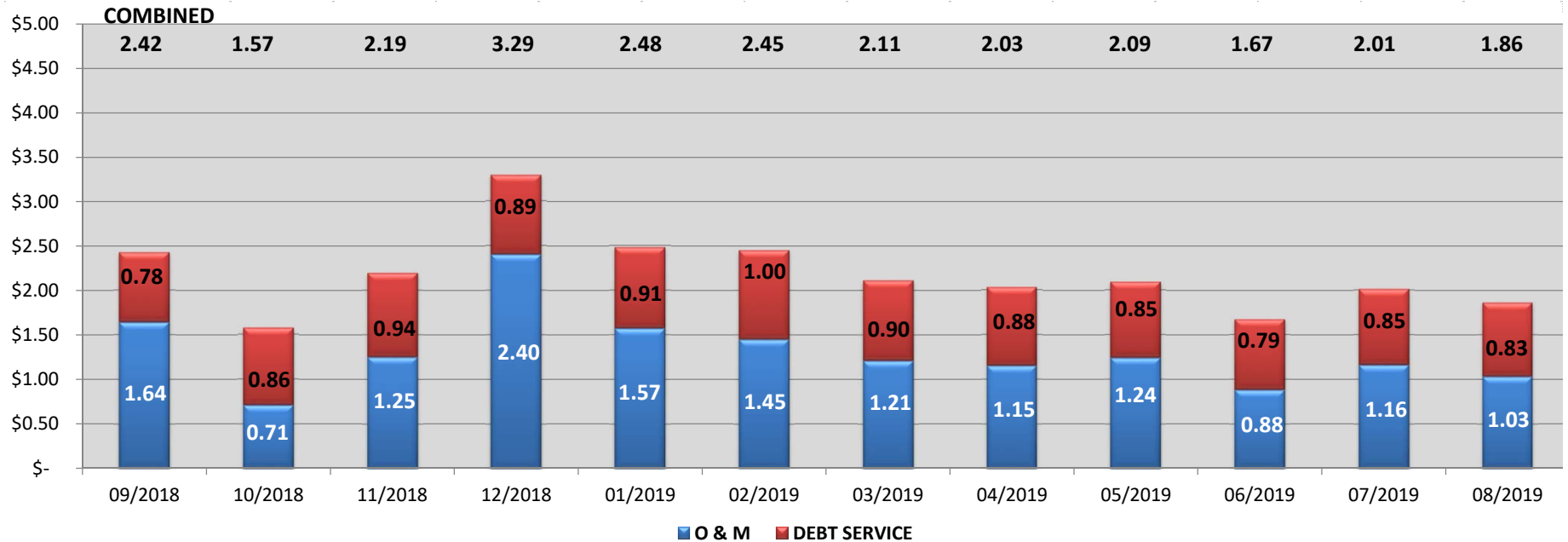


**SOUTHMOST REGIONAL WATER AUTHORITY
UNIT COST OF WATER (THOUSAND GALLONS)
SEPTEMBER 2018 - AUGUST 2019**

Previous
12-Month

09/2018 10/2018 11/2018 12/2018 01/2019 02/2019 03/2019 04/2019 05/2019 06/2019 07/2019 08/2019 Average

	09/2018	10/2018	11/2018	12/2018	01/2019	02/2019	03/2019	04/2019	05/2019	06/2019	07/2019	08/2019	Average
O & M	1.64	0.71	1.25	2.40	1.57	1.45	1.21	1.15	1.24	0.88	1.16	1.03	1.31
DEBT SERVICE	0.78	0.86	0.94	0.89	0.91	1.00	0.90	0.88	0.85	0.79	0.85	0.83	0.87
COMBINED RATE	2.42	1.57	2.19	3.29	2.48	2.45	2.11	2.03	2.09	1.67	2.01	1.86	2.18





Summary of Distribution for FY 2019

[A]	[B]	[C]	[D]	[E]	[F]	[G]	[H]	[I]	[J]	[K]
SRWA 2018-2019 FY Water Distribution Summary and True-Up Estimate										
		SRWA Total Distribution			BPUB ¹	Valley MUD#2	Los Fresnos ²	BND ¹	Indian Lake ²	Total
Allocation	Percent (%)	Million Gals	Dist. Per sum of		92.91%	2.51%	2.28%	2.10%	0.20%	100.00%
			column f-j	Difference	Million Gals	Million Gals	Million Gals			
	Oct-18	222.138	222.138	0.000	195.436	12.229	9.364	4.665	0.444	222.138
	Nov-18	204.442	204.442	0.000	189.880	7.471	2.389	4.293	0.409	204.442
	Dec-18	214.374	214.374	0.000	200.970	5.132	3.341	4.502	0.429	214.374
	Jan-19	210.629	210.629	0.000	199.394	3.850	2.541	4.423	0.421	210.629
	Feb-19	190.938	190.938	0.000	181.905	2.512	2.129	4.010	0.382	190.938
	Mar-19	213.295	213.295	0.000	201.771	4.462	2.156	4.479	0.427	213.295
	Apr-19	216.368	216.368	0.000	202.096	4.239	5.057	4.544	0.433	216.368
	May-19	226.240	226.240	0.000	213.108	3.257	4.672	4.751	0.452	226.240
	Jun-19	241.527	241.527	0.000	229.541	2.093	4.338	5.072	0.483	241.527
	Jul-19	225.565	225.565	0.000	206.975	5.018	8.384	4.737	0.451	225.565
	Aug-19	231.919	231.919	0.000	206.460	8.709	11.416	4.870	0.464	231.919
	Sep-19		0.000	0.000						-
Actual Distribution	YTD MG	2,397.435	2,397.435	0.000	2,227.536	58.972	55.787	50.346	4.795	2,397.435
	Daily Average (MGD)	7.157			6.649	0.176	0.167	0.150	0.014	7.157

True up Estimate: This is not a bill.

Allocable Distribution Based on % Participation	2,227.457	60.176	54.662	50.346	4.795	2,397.435
Consolidation of Distribution per Agreements	2,277.803	60.176	59.456	-	-	2,397.435
Over (Under) Distributed	0.08	(1.204)	1.13	-	-	(0.000)
FY2019 Estimated O&M Cost Per Thousand Gallons	\$ 1.49	\$ 1.49	\$ 1.49			
Total Cost of Over (Under) Distributed	<u>\$ 116.99</u>	<u>\$ (1,793.41)</u>	<u>\$ 1,676.42</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ (0.00)</u>

¹ BPUB is providing credit to the BND for their SRWA share on their monthly BPUB water bill.

² As of Jan 1, 2009, City of Los Fresnos is purchasing Indian Lake's water allocation (as per Interlocal Agreement dated 10/14/2008)



Production/Distribution Costs

SOUTHMOST REGIONAL WATER AUTHORITY

PRODUCTION / DISTRIBUTION COSTS

2019

MONTH: **August-19**

	R.O. Water Produced MGD	Blend Water Produced MGD	Total Water Produced	DISTRIBUTION (MGD)			TOTAL WATER DISTRIBUTED
				TO BROWNSVILLE	TO LOS FRESNOS	TO VMUD #2	
1	6.356	1.263	7.619	8.790	0.377	0.173	9.340
2	6.286	1.238	7.524	4.656	0.336	0.249	5.241
3	6.101	1.222	7.323	6.622	0.341	0.299	7.262
4	6.150	1.217	7.367	6.852	0.378	0.250	7.480
5	6.282	1.246	7.528	7.095	0.347	0.305	7.747
6	5.429	1.087	6.516	6.458	0.366	0.277	7.101
7	6.244	1.242	7.486	6.778	0.328	0.265	7.371
8	6.256	1.238	7.494	6.920	0.392	0.284	7.596
9	5.050	0.988	6.038	6.955	0.352	0.274	7.581
10	6.358	1.256	7.614	6.646	0.364	0.296	7.306
11	6.043	1.270	7.313	6.394	0.351	0.306	7.051
12	6.219	1.184	7.403	7.199	0.374	0.334	7.907
13	6.243	1.249	7.492	6.617	0.389	0.305	7.311
14	6.304	1.251	7.555	7.006	0.369	0.271	7.646
15	6.502	1.288	7.790	6.746	0.426	0.229	7.401
16	6.001	1.193	7.194	4.883	0.422	0.288	5.593
17	6.592	1.315	7.907	7.223	0.428	0.320	7.971
18	7.289	1.457	8.746	7.913	0.390	0.250	8.553
19	6.646	1.320	7.966	7.775	0.369	0.354	8.498
20	6.650	1.337	7.987	8.306	0.414	0.224	8.944
21	7.074	1.398	8.472	7.576	0.379	0.247	8.202
22	7.030	1.388	8.418	7.420	0.394	0.292	8.106
23	7.255	1.421	8.676	7.657	0.436	0.281	8.374
24	6.547	1.316	7.863	7.437	0.428	0.314	8.179
25	6.507	1.281	7.788	7.036	0.415	0.278	7.729
26	6.375	1.261	7.636	7.257	0.334	0.303	7.894
27	2.625	0.458	3.083	5.586	0.385	0.354	6.325
28	5.889	1.153	7.042	5.653	0.412	0.217	6.282
29	5.013	0.954	5.967	6.185	0.406	0.306	6.897
30	6.311	1.241	7.552	6.294	0.364	0.296	6.954
31	6.194	1.231	7.425	5.395	0.414	0.268	6.077
TOTALS	191.821	37.963	229.784	211.330	11.880	8.709	231.919
AVERAGE	6.188	1.225	7.412	6.817	0.383	0.281	7.481

CHEMICAL CONSUMPTION

	TYPE	QUANTITY	COST/UNIT	TOTALS
Scale Inhibitor	275-Gal Tote	1.26	\$4,681.60	\$5,898.82
Calcium Chloride	lbs.	65,661.29	\$0.1750	\$11,490.73
Caustic Soda	lbs.	16,096.93	\$0.1740	\$2,800.87
Liquid Ammonium Sulfate	lbs.	19,315.35	\$0.1014	\$1,958.58
Chlorine	Ton Containers	6.70	\$694.00	\$4,649.80
Ferric Chloride	lbs.	9,063.99	\$0.2420	\$2,193.49
Sodium Bisulfite	lbs.	8,222.95	\$0.1050	\$863.41
High pH Membrane Cleaner (237)	55-Gal Drum	0.00	\$1,550.00	\$0.00
Low pH Membrane Cleaner (234)	55-Gal Drum	0.00	\$1,600.00	\$0.00
Low pH Membrane Cleaner (232)	55-Gal Drum	0.00	\$1,600.00	\$0.00
Citric Acid	275-Gal Totes	2.00	\$1,734.34	\$3,468.68
Sodium Chlorite	lbs.	21,066.21	\$0.882	\$18,580.40
<i>Chemical cost per thousand gals:</i>		\$0.226		\$51,904.76

ELECTRIC CONSUMPTION

	kwh	COST/kwh	TOTALS
Well Field	547,800	\$0.05560	\$30,457.68
MF Processing Plant	270,000	\$0.0700	\$18,900.00
RO Processing Plant	354,600	\$0.0700	\$24,822.00
High Service Pumps	184,400	\$0.0700	\$12,908.00
<i>Power costs per thousand gals:</i>		\$0.379	\$87,087.68

SOUTHMOST REGIONAL WATER AUTHORITY
2019

MONTH: **August-19**

	TOTAL MGD PRODUCED	DESCRIPTION	DOWN TIME HOURS
1	7.619		
2	7.524		
3	7.323		
4	7.367		
5	7.528		
6	6.516		
7	7.486		
8	7.494		
9	6.038		
10	7.614		
11	7.313		
12	7.403		
13	7.492		
14	7.555		
15	7.790		
16	7.194		
17	7.907		
18	8.746		
19	7.966		
20	7.987		
21	8.472		
22	8.418		
23	8.676		
24	7.863		
25	7.788		
26	7.636		
27	3.083	SRWA had a scheduled shutdown to install a grounding ring on a magnetic flow meter at the microfiltration booster pump station.	12
28	7.042		
29	5.967	Microfiltration processing issues with air scrubs (backwashing).	3
30	7.552		
31	7.425		
TOTALS	229.784		15
AVERAGE	7.412		

SOUTHMOST REGIONAL WATER AUTHORITY

PRODUCTION / DISTRIBUTION COSTS

2019

MONTH: **July-19**

	R.O. Water Produced MGD	Blend Water Produced MGD	Total Water Produced	DISTRIBUTION (MGD)			TOTAL WATER DISTRIBUTED
				TO BROWNSVILLE	TO LOS FRESNOS	TO VMUD #2	
1	6.251	1.232	7.483	7.636	0.196	0.061	7.893
2	6.227	1.237	7.464	6.775	0.188	0.063	7.026
3	6.308	1.244	7.552	7.113	0.191	0.167	7.471
4	6.164	1.250	7.414	6.682	0.189	0.162	7.033
5	6.529	1.056	7.585	7.426	0.180	0.185	7.791
6	6.252	1.459	7.711	7.453	0.191	0.172	7.816
7	6.380	1.262	7.642	7.136	0.199	0.168	7.503
8	5.940	1.186	7.126	7.043	0.192	0.195	7.430
9	5.440	1.201	6.641	7.416	0.208	0.161	7.785
10	6.826	1.213	8.039	6.245	0.196	0.205	6.646
11	5.737	1.247	6.984	7.785	0.200	0.122	8.107
12	6.801	1.257	8.058	7.543	0.226	0.174	7.943
13	6.364	1.252	7.616	7.111	0.233	0.164	7.508
14	6.433	1.267	7.700	6.590	0.223	0.211	7.024
15	6.366	1.259	7.625	7.260	0.298	0.149	7.707
16	5.875	1.183	7.058	6.782	0.670	0.222	7.674
17	6.279	1.243	7.522	6.790	0.426	0.128	7.344
18	6.823	1.245	8.068	7.313	0.368	0.167	7.848
19	5.966	1.277	7.243	7.023	0.324	0.149	7.496
20	6.141	1.229	7.370	6.338	0.360	0.173	6.871
21	6.302	1.243	7.545	6.838	0.359	0.178	7.375
22	5.043	1.182	6.225	6.951	0.308	0.149	7.408
23	6.200	1.005	7.205	5.875	0.304	0.175	6.354
24	4.214	0.833	5.047	5.675	0.290	0.169	6.134
25	6.363	1.266	7.629	5.503	0.298	0.176	5.977
26	6.209	1.243	7.452	7.068	0.276	0.163	7.507
27	5.494	1.123	6.617	6.296	0.301	0.166	6.763
28	6.363	1.237	7.600	6.284	0.375	0.162	6.821
29	5.935	1.207	7.142	7.153	0.330	0.152	7.635
30	5.618	1.096	6.714	6.304	0.358	0.159	6.821
31	5.330	1.058	6.388	6.304	0.379	0.171	6.854
TOTALS	188.174	37.292	225.466	211.711	8.836	5.018	225.565
AVERAGE	6.070	1.203	7.273	6.829	0.285	0.162	7.276

CHEMICAL CONSUMPTION

	TYPE	QUANTITY	COST/UNIT	TOTALS
Scale Inhibitor	275-Gal Tote	1.24	\$4,681.60	\$5,805.18
Calcium Chloride	lbs.	64,624.28	\$0.1750	\$11,309.25
Caustic Soda	lbs.	15,849.57	\$0.1740	\$2,757.83
Liquid Ammonium Sulfate	lbs.	19,399.75	\$0.1014	\$1,967.13
Chlorine	Ton Containers	6.62	\$694.00	\$4,594.28
Ferric Chloride	lbs.	9,054.01	\$0.2420	\$2,191.07
Sodium Bisulfite	lbs.	7,375.13	\$0.1050	\$774.39
High pH Membrane Cleaner (237)	55-Gal Drum	0.00	\$1,550.00	\$0.00
Low pH Membrane Cleaner (234)	55-Gal Drum	0.00	\$1,600.00	\$0.00
Low pH Membrane Cleaner (232)	55-Gal Drum	0.00	\$1,600.00	\$0.00
Citric Acid	275-Gal Totes	2.00	\$1,734.34	\$3,468.68
Sodium Chlorite	lbs.	21,346.37	\$0.857	\$18,293.84
<i>Chemical cost per thousand gals:</i>		<i>\$0.227</i>		\$51,161.65

ELECTRIC CONSUMPTION

	kwh	COST/kwh	TOTALS
Well Field	522,600	\$0.05560	\$29,056.56
MF Processing Plant	255,300	\$0.0700	\$17,871.00
RO Processing Plant	352,500	\$0.0700	\$24,675.00
High Service Pumps	169,600	\$0.0700	\$11,872.00
<i>Power costs per thousand gals:</i>	<i>\$0.370</i>		\$83,474.56

SOUTHMOST REGIONAL WATER AUTHORITY
2019

MONTH: **July-19**

	TOTAL MGD PRODUCED	DESCRIPTION	DOWN TIME HOURS
1	7.483		
2	7.464		
3	7.552		
4	7.414		
5	7.585		
6	7.711		
7	7.642		
8	7.126		
9	6.641		
10	8.039		
11	6.984		
12	8.058		
13	7.616		
14	7.700		
15	7.625		
16	7.058		
17	7.522		
18	8.068		
19	7.243		
20	7.370		
21	7.545		
22	6.225		
23	7.205		
24	5.047	Communication issues with SCADA at microfiltration process.	6
25	7.629		
26	7.452		
27	6.617		
28	7.600		
29	7.142		
30	6.714		
31	6.388		
TOTALS	225.466		6
AVERAGE	7.273		

SOUTHMOST REGIONAL WATER AUTHORITY

PRODUCTION / DISTRIBUTION COSTS

2019

MONTH: **June-19**

	R.O. Water Produced MGD	Blend Water Produced MGD	Total Water Produced	DISTRIBUTION (MGD)			TOTAL WATER DISTRIBUTED
				TO BROWNSVILLE	TO LOS FRESNOS	TO VMUD #2	
1	7.045	1.390	8.435	8.405	0.173	0.104	8.683
2	6.981	1.396	8.377	8.074	0.183	0.096	8.352
3	7.039	1.395	8.434	8.532	0.188	0.113	8.832
4	5.897	1.139	7.036	6.264	0.161	0.091	6.516
5	7.323	1.446	8.769	7.981	0.133	0.089	8.203
6	7.024	1.385	8.409	8.650	0.166	0.105	8.921
7	7.398	1.460	8.858	8.242	0.162	0.095	8.499
8	7.328	1.446	8.774	8.793	0.164	0.100	9.058
9	7.357	1.452	8.809	8.782	0.193	0.106	9.081
10	7.285	1.437	8.722	8.746	0.157	0.071	8.974
11	7.411	1.429	8.840	7.820	0.169	0.053	8.042
12	7.222	1.457	8.679	8.721	0.150	0.060	8.932
13	6.580	1.297	7.877	8.880	0.143	0.004	9.027
14	7.067	1.388	8.455	7.225	0.138	0.099	7.462
15	7.310	1.436	8.746	8.420	0.189	0.056	8.665
16	7.411	1.456	8.867	8.853	0.156	0.061	9.070
17	6.149	1.194	7.343	8.066	0.157	0.053	8.275
18	6.004	1.153	7.157	6.917	0.166	0.061	7.143
19	6.327	1.245	7.572	6.837	0.174	0.058	7.069
20	6.518	1.252	7.770	7.152	0.108	0.058	7.318
21	6.571	1.250	7.821	7.607	0.158	0.058	7.822
22	6.556	1.250	7.806	7.296	0.157	0.056	7.509
23	6.398	1.223	7.621	6.974	0.175	0.061	7.210
24	6.442	1.263	7.705	7.600	0.148	0.057	7.806
25	5.651	1.109	6.760	6.440	0.136	0.051	6.627
26	6.332	1.249	7.581	7.204	0.133	0.053	7.390
27	6.192	1.236	7.428	7.373	0.171	0.049	7.593
28	6.583	1.285	7.868	7.438	0.200	0.060	7.698
29	6.162	1.237	7.399	7.751	0.154	0.057	7.962
30	6.275	1.233	7.508	7.569	0.159	0.060	7.788
31							
TOTALS	201.835	39.588	241.423	234.613	4.821	2.093	241.527
AVERAGE	6.728	1.320	8.047	7.820	0.161	0.070	8.051

CHEMICAL CONSUMPTION

	TYPE	QUANTITY	COST/UNIT	TOTALS
Scale Inhibitor	275-Gal Tote	2.00	\$4,681.60	\$9,363.20
Calcium Chloride	lbs.	68,989.67	\$0.1750	\$12,073.19
Caustic Soda	lbs.	16,919.52	\$0.1740	\$2,944.00
Liquid Ammonium Sulfate	lbs.	20,696.97	\$0.1014	\$2,098.67
Chlorine	Ton Containers	7.06	\$694.00	\$4,899.64
Ferric Chloride	lbs.	9,761.14	\$0.2420	\$2,362.20
Sodium Bisulfite	lbs.	9,477.44	\$0.1050	\$995.13
High pH Membrane Cleaner (237)	55-Gal Drum	1.00	\$1,550.00	\$1,550.00
Low pH Membrane Cleaner (234)	55-Gal Drum	1.00	\$1,600.00	\$1,600.00
Low pH Membrane Cleaner (232)	55-Gal Drum	0.00	\$1,600.00	\$0.00
Citric Acid	275-Gal Totes	1.00	\$1,734.34	\$1,734.34
Sodium Chlorite	lbs.	22,715.23	\$0.857	\$19,466.95
<i>Chemical cost per thousand gals:</i>		<i>\$0.245</i>		\$59,087.32

ELECTRIC CONSUMPTION

	kwh	COST/kwh	TOTALS
Well Field	565,800	\$0.05560	\$31,458.48
MF Processing Plant	265,800	\$0.0700	\$18,606.00
RO Processing Plant	392,100	\$0.0700	\$27,447.00
High Service Pumps	195,600	\$0.0700	\$13,692.00
<i>Power costs per thousand gals:</i>	<i>\$0.378</i>		\$91,203.48

SOUTHMOST REGIONAL WATER AUTHORITY
2019

MONTH: **June-19**

	TOTAL MGD PRODUCED	DESCRIPTION	DOWN TIME HOURS
1	8.435		
2	8.377		
3	8.434		
4	7.036		
5	8.769		
6	8.409		
7	8.858		
8	8.774		
9	8.809		
10	8.722		
11	8.840		
12	8.679		
13	7.877		
14	8.455		
15	8.746		
16	8.867		
17	7.343		
18	7.157		
19	7.572		
20	7.770		
21	7.821		
22	7.806		
23	7.621		
24	7.705		
25	6.760		
26	7.581		
27	7.428		
28	7.868		
29	7.399		
30	7.508		
31			
TOTALS	241.423		0
AVERAGE	8.047		

SOUTHMOST REGIONAL WATER AUTHORITY

PRODUCTION / DISTRIBUTION COSTS

2019

MONTH: **May-19**

	R.O. Water Produced MGD	Blend Water Produced MGD	Total Water Produced	DISTRIBUTION (MGD)			TOTAL WATER DISTRIBUTED
				TO BROWNSVILLE	TO LOS FRESNOS	TO VMUD #2	
1	5.759	1.125	6.884	7.609	0.170	0.103	7.882
2	6.237	1.252	7.489	6.284	0.181	0.105	6.570
3	6.231	1.249	7.480	6.747	0.170	0.088	7.005
4	5.289	1.229	6.518	7.655	0.178	0.099	7.932
5	7.176	1.207	8.383	7.684	0.191	0.108	7.983
6	6.334	1.252	7.586	6.983	0.190	0.104	7.277
7	6.224	1.231	7.455	6.199	0.209	0.095	6.503
8	6.174	1.207	7.381	7.310	0.184	0.095	7.589
9	6.044	1.242	7.286	7.730	0.201	0.092	8.023
10	6.674	1.261	7.935	6.655	0.158	0.096	6.909
11	6.278	1.236	7.514	6.920	0.156	0.103	7.179
12	6.280	1.249	7.529	7.265	0.164	0.101	7.530
13	6.215	1.243	7.458	7.045	0.140	0.118	7.303
14	6.216	1.235	7.451	7.262	0.167	0.077	7.506
15	6.527	1.218	7.745	7.222	0.147	0.103	7.472
16	6.187	1.216	7.403	6.928	0.206	0.086	7.220
17	6.207	1.214	7.421	7.054	0.176	0.093	7.323
18	4.024	0.780	4.804	5.657	0.161	0.092	5.910
19	6.107	1.201	7.308	5.774	0.187	0.095	6.056
20	6.213	1.224	7.437	7.907	0.179	0.120	8.206
21	6.245	1.234	7.479	6.138	0.208	0.289	6.635
22	5.071	0.983	6.054	6.537	0.171	0.082	6.790
23	5.963	1.187	7.150	7.287	0.169	0.106	7.562
24	6.408	1.263	7.671	7.420	0.122	0.100	7.642
25	6.356	1.241	7.597	6.943	0.090	0.102	7.135
26	6.193	1.229	7.422	6.417	0.018	0.103	6.538
27	6.306	1.249	7.555	7.487	0.136	0.096	7.719
28	6.225	1.246	7.471	7.470	0.136	0.097	7.703
29	6.127	1.239	7.366	7.197	0.162	0.101	7.460
30	6.908	1.350	8.258	7.493	0.182	0.112	7.787
31	7.235	1.427	8.662	7.580	0.215	0.096	7.891
TOTALS	191.433	37.719	229.152	217.859	5.124	3.257	226.240
AVERAGE	6.175	1.217	7.392	7.028	0.165	0.105	7.298

CHEMICAL CONSUMPTION

	TYPE	QUANTITY	COST/UNIT	TOTALS
Scale Inhibitor	275-Gal Tote	1.26	\$4,681.60	\$5,898.82
Calcium Chloride	lbs.	67,875.00	\$0.1750	\$11,878.13
Caustic Soda	lbs.	16,033.50	\$0.1740	\$2,789.83
Liquid Ammonium Sulfate	lbs.	19,625.15	\$0.1014	\$1,989.99
Chlorine	Ton Containers	6.67	\$694.00	\$4,628.98
Ferric Chloride	lbs.	8,093.29	\$0.2420	\$1,958.58
Sodium Bisulfite	lbs.	7,947.82	\$0.1050	\$834.52
High pH Membrane Cleaner (237)	55-Gal Drum	0.00	\$1,550.00	\$0.00
Low pH Membrane Cleaner (234)	55-Gal Drum	0.00	\$1,600.00	\$0.00
Low pH Membrane Cleaner (232)	55-Gal Drum	0.00	\$1,600.00	\$0.00
Citric Acid	275-Gal Totes	1.00	\$1,734.34	\$1,734.34
Sodium Chlorite	lbs.	21,644.32	\$0.857	\$18,549.18
<i>Chemical cost per thousand gals:</i>		<i>\$0.219</i>		\$50,262.36

ELECTRIC CONSUMPTION

	kwh	COST/kwh	TOTALS
Well Field	520,200	\$0.05560	\$28,923.12
MF Processing Plant	246,900	\$0.0700	\$17,283.00
RO Processing Plant	377,100	\$0.0700	\$26,397.00
High Service Pumps	175,200	\$0.0700	\$12,264.00
<i>Power costs per thousand gals:</i>	<i>\$0.370</i>		\$84,867.12

SOUTHMOST REGIONAL WATER AUTHORITY
2019

MONTH: **May-19**

	TOTAL MGD PRODUCED	DESCRIPTION	DOWN TIME HOURS
1	6.884		
2	7.489		
3	7.480		
4	6.518		
5	8.383		
6	7.586		
7	7.455		
8	7.381		
9	7.286		
10	7.935		
11	7.514		
12	7.529		
13	7.458		
14	7.451		
15	7.745		
16	7.403		
17	7.421		
18	4.804	Electrical issues at microfiltration's central processing unit.	9
19	7.308		
20	7.437		
21	7.479		
22	6.054		
23	7.150		
24	7.671		
25	7.597		
26	7.422		
27	7.555		
28	7.471		
29	7.366		
30	8.258		
31	8.662		
TOTALS	229.152		9
AVERAGE	7.392		

SOUTHMOST REGIONAL WATER AUTHORITY

PRODUCTION / DISTRIBUTION COSTS

2019

MONTH: **April-19**

	R.O. Water Produced MGD	Blend Water Produced MGD	Total Water Produced	DISTRIBUTION (MGD)			TOTAL WATER DISTRIBUTED
				TO BROWNSVILLE	TO LOS FRESNOS	TO VMUD #2	
1	6.205	0.931	7.136	7.125	0.081	0.132	7.338
2	6.197	0.921	7.118	7.028	0.080	0.137	7.245
3	6.341	0.931	7.272	6.756	0.082	0.144	6.982
4	6.197	0.914	7.111	6.909	0.095	0.128	7.132
5	6.268	0.927	7.195	7.075	0.078	0.139	7.292
6	6.236	0.921	7.157	6.904	0.093	0.137	7.134
7	6.200	0.915	7.115	6.921	0.091	0.151	7.163
8	6.206	0.917	7.123	6.503	0.089	0.161	6.753
9	6.244	0.922	7.166	6.821	0.088	0.136	7.045
10	6.390	0.915	7.305	6.835	0.090	0.148	7.073
11	6.503	0.919	7.422	6.435	0.098	0.183	6.716
12	5.700	0.806	6.506	6.618	0.089	0.173	6.880
13	6.286	0.929	7.215	6.019	0.111	0.170	6.300
14	6.327	0.685	7.012	7.845	0.271	0.185	8.301
15	6.551	0.578	7.129	6.242	0.250	0.122	6.614
16	6.155	1.108	7.263	6.630	0.264	0.107	7.001
17	6.175	1.092	7.267	6.932	0.248	0.117	7.297
18	6.287	1.113	7.400	6.864	0.206	0.122	7.192
19	6.325	1.121	7.446	7.741	0.243	0.123	8.107
20	6.246	1.113	7.359	6.480	0.263	0.134	6.877
21	6.219	1.120	7.339	6.522	0.252	0.161	6.935
22	6.245	1.113	7.358	7.773	0.255	0.258	8.286
23	6.194	1.101	7.295	6.177	0.269	0.280	6.726
24	6.241	1.179	7.420	6.877	0.244	0.121	7.242
25	6.221	1.226	7.447	6.828	0.269	0.066	7.163
26	6.247	1.232	7.479	7.857	0.249	0.072	8.178
27	6.238	1.233	7.471	6.685	0.273	0.114	7.072
28	6.271	1.231	7.502	6.736	0.285	0.113	7.134
29	6.250	1.242	7.492	7.414	0.276	0.130	7.820
30	6.086	1.218	7.304	7.087	0.208	0.075	7.370
31							
TOTALS	187.250	30.573	217.823	206.639	5.490	4.239	216.368
AVERAGE	6.242	1.019	7.261	6.888	0.183	0.141	7.212

CHEMICAL CONSUMPTION

	TYPE	QUANTITY	COST/UNIT	TOTALS
Scale Inhibitor	275-Gal Tote	1.24	\$4,681.60	\$5,805.18
Calcium Chloride	lbs.	137,506.39	\$0.1750	\$24,063.62
Caustic Soda	lbs.	15,725.69	\$0.1740	\$2,736.27
Liquid Ammonium Sulfate	lbs.	18,663.31	\$0.1014	\$1,892.46
Chlorine	Ton Containers	6.37	\$694.00	\$4,420.78
Ferric Chloride	lbs.	7,960.63	\$0.2420	\$1,926.47
Sodium Bisulfite	lbs.	7,855.51	\$0.1050	\$824.83
High pH Membrane Cleaner (237)	55-Gal Drum	2.00	\$1,550.00	\$3,100.00
Low pH Membrane Cleaner (234)	55-Gal Drum	2.00	\$1,600.00	\$3,200.00
Low pH Membrane Cleaner (232)	55-Gal Drum	0.00	\$1,600.00	\$0.00
Citric Acid	275-Gal Totes	1.00	\$1,734.34	\$1,734.34
Sodium Chlorite	lbs.	19,951.97	\$0.857	\$17,098.84
<i>Chemical cost per thousand gals:</i>		<i>\$0.307</i>		\$66,802.79

ELECTRIC CONSUMPTION

	kwh	COST/kwh	TOTALS
Well Field	498,000	\$0.05560	\$27,688.80
MF Processing Plant	232,800	\$0.0700	\$16,296.00
RO Processing Plant	377,100	\$0.0700	\$26,397.00
High Service Pumps	164,400	\$0.0700	\$11,508.00
<i>Power costs per thousand gals:</i>	<i>\$0.376</i>		\$81,889.80

SOUTHMOST REGIONAL WATER AUTHORITY
2019

MONTH: **April-19**

	TOTAL MGD PRODUCED	DESCRIPTION	DOWN TIME HOURS
1	7.136		
2	7.118		
3	7.272		
4	7.111		
5	7.195		
6	7.157		
7	7.115		
8	7.123		
9	7.166		
10	7.305		
11	7.422		
12	6.506		
13	7.215		
14	7.012		
15	7.129		
16	7.263		
17	7.267		
18	7.400		
19	7.446		
20	7.359		
21	7.339		
22	7.358		
23	7.295		
24	7.420		
25	7.447		
26	7.479		
27	7.471		
28	7.502		
29	7.492		
30	7.304		
31			
TOTALS	217.823		0
AVERAGE	7.261		

SOUTHMOST REGIONAL WATER AUTHORITY

PRODUCTION / DISTRIBUTION COSTS

2019

MONTH: **March-19**

	R.O. Water Produced MGD	Blend Water Produced MGD	Total Water Produced	DISTRIBUTION (MGD)			TOTAL WATER DISTRIBUTED
				TO BROWNSVILLE	TO LOS FRESNOS	TO VMUD #2	
1	6.727	0.816	7.543	6.804	0.068	0.101	6.973
2	5.865	0.758	6.623	6.402	0.087	0.120	6.609
3	6.195	0.804	6.999	6.121	0.093	0.136	6.350
4	6.258	0.802	7.060	6.862	0.079	0.103	7.044
5	5.955	0.747	6.702	6.822	0.089	0.077	6.988
6	5.974	0.766	6.740	6.863	0.080	0.103	7.046
7	6.154	0.797	6.951	6.799	0.095	0.108	7.002
8	5.627	0.737	6.364	5.953	0.071	0.102	6.126
9	6.099	0.792	6.891	6.543	0.088	0.101	6.732
10	5.740	0.746	6.486	6.126	0.095	0.116	6.337
11	6.142	0.798	6.940	7.303	0.078	0.135	7.516
12	6.129	0.797	6.926	6.648	0.083	0.078	6.809
13	6.125	0.795	6.920	6.939	0.089	0.095	7.123
14	5.697	0.741	6.438	6.565	0.080	0.017	6.662
15	5.823	0.756	6.579	5.739	0.058	0.267	6.064
16	6.262	0.747	7.009	5.968	0.067	0.215	6.250
17	5.717	0.809	6.526	7.453	0.082	0.237	7.772
18	5.641	0.799	6.440	6.611	0.080	0.183	6.874
19	6.733	0.805	7.538	6.826	0.081	0.205	7.112
20	5.463	0.682	6.145	5.332	0.078	0.155	5.565
21	6.243	0.870	7.113	6.900	0.089	0.151	7.140
22	5.720	0.849	6.569	7.197	0.065	0.146	7.408
23	6.141	0.920	7.061	6.507	0.084	0.148	6.739
24	6.110	0.917	7.027	7.712	0.088	0.178	7.978
25	6.174	0.927	7.101	7.648	0.095	0.129	7.872
26	6.489	0.916	7.405	6.284	0.083	0.137	6.504
27	5.650	0.850	6.500	5.825	0.087	0.159	6.071
28	6.244	0.923	7.167	7.075	0.102	0.156	7.333
29	6.264	0.926	7.190	6.876	0.095	0.156	7.127
30	6.253	0.923	7.176	6.585	0.092	0.295	6.972
31	6.308	0.944	7.252	6.962	0.082	0.153	7.197
TOTALS	187.922	25.459	213.381	206.250	2.583	4.462	213.295
AVERAGE	6.062	0.821	6.883	6.653	0.083	0.144	6.880

CHEMICAL CONSUMPTION

	TYPE	QUANTITY	COST/UNIT	TOTALS
Scale Inhibitor	275-Gal Tote	1.25	\$4,681.60	\$5,852.00
Calcium Chloride	lbs.	171,012.15	\$0.1750	\$29,927.13
Caustic Soda	lbs.	16,799.02	\$0.1740	\$2,923.03
Liquid Ammonium Sulfate	lbs.	17,679.56	\$0.1014	\$1,792.71
Chlorine	Ton Containers	6.30	\$694.00	\$4,372.20
Ferric Chloride	lbs.	8,016.00	\$0.2420	\$1,939.87
Sodium Bisulfite	lbs.	8,687.27	\$0.1050	\$912.16
High pH Membrane Cleaner (237)	55-Gal Drum	0.00	\$1,550.00	\$0.00
Low pH Membrane Cleaner (234)	55-Gal Drum	0.00	\$1,600.00	\$0.00
Low pH Membrane Cleaner (232)	55-Gal Drum	0.00	\$1,600.00	\$0.00
Citric Acid	275-Gal Totes	1.00	\$1,734.34	\$1,734.34
Sodium Chlorite	lbs.	20,666.25	\$0.627	\$12,957.74
<i>Chemical cost per thousand gals:</i>		<i>\$0.292</i>		\$62,411.18

ELECTRIC CONSUMPTION

	kwh	COST/kwh	TOTALS
Well Field	496,200	\$0.05560	\$27,588.72
MF Processing Plant	230,100	\$0.0700	\$16,107.00
RO Processing Plant	384,000	\$0.0700	\$26,880.00
High Service Pumps	180,400	\$0.0700	\$12,628.00
<i>Power costs per thousand gals:</i>	<i>\$0.390</i>		\$83,203.72

SOUTHMOST REGIONAL WATER AUTHORITY
2019

MONTH: **March-19**

	TOTAL MGD PRODUCED	DESCRIPTION	DOWN TIME HOURS
1	7.543		
2	6.623		
3	6.999		
4	7.060		
5	6.702		
6	6.740		
7	6.951		
8	6.364		
9	6.891		
10	6.486		
11	6.940		
12	6.926		
13	6.920		
14	6.438		
15	6.579		
16	7.009		
17	6.526		
18	6.440		
19	7.538		
20	6.145		
21	7.113		
22	6.569		
23	7.061		
24	7.027		
25	7.101		
26	7.405		
27	6.500		
28	7.167		
29	7.190		
30	7.176		
31	7.252		
TOTALS	213.381		0
AVERAGE	6.883		

SOUTHMOST REGIONAL WATER AUTHORITY

PRODUCTION / DISTRIBUTION COSTS

2019

MONTH: **February-19**

	R.O. Water Produced MGD	Blend Water Produced MGD	Total Water Produced	DISTRIBUTION (MGD)			TOTAL WATER DISTRIBUTED
				TO BROWNSVILLE	TO LOS FRESNOS	TO VMUD #2	
1	6.293	0.796	7.089	6.940	0.096	0.111	7.147
2	6.280	0.809	7.089	7.248	0.083	0.109	7.440
3	6.112	0.810	6.922	6.540	0.101	0.153	6.795
4	6.655	0.810	7.465	6.753	0.102	0.096	6.951
5	6.334	0.807	7.141	6.661	0.083	0.086	6.830
6	6.329	0.806	7.135	7.150	0.097	0.130	7.377
7	5.667	0.707	6.374	6.787	0.099	0.068	6.954
8	5.623	0.725	6.348	4.956	0.075	0.047	5.078
9	6.234	0.806	7.040	7.625	0.077	0.065	7.767
10	6.196	0.798	6.994	6.479	0.102	0.018	6.599
11	6.340	0.825	7.165	6.737	0.099	0.000	6.836
12	5.130	0.630	5.760	5.413	0.080	0.011	5.503
13	6.289	0.805	7.094	7.243	0.102	0.004	7.349
14	6.305	0.814	7.119	6.470	0.105	0.121	6.695
15	5.522	0.703	6.225	6.822	0.084	0.076	6.982
16	6.288	0.804	7.092	6.390	0.106	0.110	6.605
17	6.305	0.809	7.114	6.547	0.097	0.126	6.770
18	6.278	0.806	7.084	6.551	0.086	0.146	6.783
19	6.272	0.818	7.090	7.126	0.079	0.075	7.280
20	6.272	0.810	7.082	7.052	0.071	0.116	7.239
21	6.367	0.808	7.175	6.622	0.072	0.110	6.804
22	5.960	0.754	6.714	6.778	0.088	0.100	6.965
23	6.272	0.797	7.069	6.357	0.091	0.011	6.459
24	6.260	0.800	7.060	6.899	0.073	0.233	7.205
25	5.742	0.703	6.445	6.333	0.089	0.100	6.522
26	5.827	0.817	6.644	6.779	0.084	0.087	6.951
27	6.123	0.716	6.839	6.148	0.095	0.101	6.344
28	5.616	0.716	6.332	6.511	0.093	0.104	6.708
29							
30							
31							
TOTALS	170.892	21.809	192.701	185.916	2.511	2.512	190.938
AVERAGE	6.103	0.779	6.882	6.640	0.090	0.090	6.819

CHEMICAL CONSUMPTION

	TYPE	QUANTITY	COST/UNIT	TOTALS
Scale Inhibitor	275-Gal Tote	1.12	\$4,681.60	\$5,243.39
Calcium Chloride	lbs.	160,776.90	\$0.1750	\$28,135.96
Caustic Soda	lbs.	32,613.00	\$0.1740	\$5,674.66
Liquid Ammonium Sulfate	lbs.	15,936.67	\$0.1014	\$1,615.98
Chlorine	Ton Containers	5.74	\$694.00	\$3,983.56
Ferric Chloride	lbs.	7,294.00	\$0.2420	\$1,765.15
Sodium Bisulfite	lbs.	8,118.41	\$0.1050	\$852.43
High pH Membrane Cleaner (237)	55-Gal Drum	0.00	\$1,550.00	\$0.00
Low pH Membrane Cleaner (234)	55-Gal Drum	0.00	\$1,600.00	\$0.00
Low pH Membrane Cleaner (232)	55-Gal Drum	0.00	\$1,600.00	\$0.00
Citric Acid	275-Gal Totes	1.00	\$1,734.34	\$1,734.34
Sodium Chlorite	lbs.	18,060.03	\$0.627	\$11,323.64
<i>Chemical cost per thousand gals:</i>		<i>\$0.313</i>		\$60,329.11

ELECTRIC CONSUMPTION

	kwh	COST/kwh	TOTALS
Well Field	441,600	\$0.05560	\$24,552.96
MF Processing Plant	197,400	\$0.0700	\$13,818.00
RO Processing Plant	333,300	\$0.0700	\$23,331.00
High Service Pumps	153,200	\$0.0700	\$10,724.00
<i>Power costs per thousand gals:</i>	<i>\$0.376</i>		\$72,425.96

SOUTHMOST REGIONAL WATER AUTHORITY
2019

MONTH: **February-19**

	TOTAL MGD PRODUCED	DESCRIPTION	DOWN TIME HOURS
1	7.089		
2	7.089		
3	6.922		
4	7.465		
5	7.141		
6	7.135		
7	6.374		
8	6.348		
9	7.040		
10	6.994		
11	7.165		
12	5.760	Repairs to the pneumatic system at the microfiltration process	4
13	7.094		
14	7.119		
15	6.225		
16	7.092		
17	7.114		
18	7.084		
19	7.090		
20	7.082		
21	7.175		
22	6.714		
23	7.069		
24	7.060		
25	6.445		
26	6.644		
27	6.839		
28	6.332		
29			
30			
31			
TOTALS	192.701		4
AVERAGE	6.882		

SOUTHMOST REGIONAL WATER AUTHORITY

PRODUCTION / DISTRIBUTION COSTS

2019

MONTH: **January-19**

	R.O. Water Produced MGD	Blend Water Produced MGD	Total Water Produced	DISTRIBUTION (MGD)			TOTAL WATER DISTRIBUTED
				TO BROWNSVILLE	TO LOS FRESNOS	TO VMUD #2	
1	5.156	0.669	5.825	5.225	0.080	0.162	5.467
2	5.170	0.671	5.841	5.752	0.089	0.165	6.006
3	5.111	0.666	5.777	5.878	0.097	0.134	6.109
4	5.713	0.726	6.439	4.955	0.091	0.115	5.161
5	6.333	0.779	7.112	6.528	0.098	0.138	6.764
6	6.241	0.841	7.082	7.138	0.089	0.159	7.386
7	6.174	0.808	6.982	7.174	0.105	0.132	7.411
8	6.305	0.810	7.115	7.169	0.108	0.144	7.421
9	7.322	0.809	8.131	6.488	0.086	0.140	6.714
10	6.414	0.813	7.227	6.004	0.100	0.135	6.239
11	6.238	0.787	7.025	7.132	0.101	0.135	7.368
12	6.094	0.789	6.883	7.322	0.088	0.044	7.454
13	6.299	0.819	7.118	6.797	0.102	0.262	7.161
14	6.181	0.803	6.984	6.720	0.078	0.089	6.887
15	5.930	0.753	6.683	6.504	0.078	0.113	6.695
16	6.483	0.810	7.293	7.009	0.099	0.097	7.205
17	6.136	0.815	6.951	6.504	0.110	0.109	6.723
18	6.307	0.804	7.111	6.943	0.097	0.108	7.148
19	6.416	0.808	7.224	7.195	0.090	0.101	7.386
20	6.393	0.810	7.203	7.174	0.099	0.127	7.400
21	6.453	0.813	7.266	6.979	0.102	0.081	7.162
22	6.130	0.772	6.902	6.084	0.086	0.114	6.284
23	4.922	0.621	5.543	5.734	0.092	0.111	5.937
24	6.362	0.806	7.168	6.750	0.095	0.106	6.951
25	6.343	0.811	7.154	6.348	0.094	0.109	6.551
26	6.422	0.806	7.228	6.859	0.088	0.100	7.047
27	5.832	0.733	6.565	6.601	0.097	0.101	6.799
28	6.331	0.812	7.143	6.614	0.130	0.112	6.856
29	6.269	0.804	7.073	7.219	0.100	0.112	7.431
30	5.957	1.014	6.971	6.468	0.091	0.212	6.771
31	6.495	0.546	7.041	6.550	0.102	0.083	6.735
TOTALS	189.935	24.128	214.062	203.817	2.962	3.850	210.629
AVERAGE	6.127	0.778	6.905	6.575	0.096	0.124	6.794

CHEMICAL CONSUMPTION

	TYPE	QUANTITY	COST/UNIT	TOTALS
Scale Inhibitor	275-Gal Tote	1.24	\$4,681.60	\$5,805.18
Calcium Chloride	lbs.	177,044.13	\$0.1750	\$30,982.72
Caustic Soda	lbs.	18,643.44	\$0.1740	\$3,243.96
Liquid Ammonium Sulfate	lbs.	16,463.23	\$0.1014	\$1,669.37
Chlorine	Ton Containers	6.25	\$694.00	\$4,337.50
Ferric Chloride	lbs.	7,994.28	\$0.2420	\$1,934.62
Sodium Bisulfite	lbs.	12,599.97	\$0.1050	\$1,323.00
High pH Membrane Cleaner (237)	55-Gal Drum	4.00	\$1,550.00	\$6,200.00
Low pH Membrane Cleaner (234)	55-Gal Drum	5.00	\$1,600.00	\$8,000.00
Low pH Membrane Cleaner (232)	55-Gal Drum	1.00	\$1,600.00	\$1,600.00
Citric Acid	275-Gal Totes	2.00	\$1,734.34	\$3,468.68
Sodium Chlorite	lbs.	19,780.87	\$0.627	\$12,402.61
<i>Chemical cost per thousand gals:</i>		\$0.378		\$80,967.63

ELECTRIC CONSUMPTION

	kwh	COST/kwh	TOTALS
Well Field	504,600	\$0.05560	\$28,055.76
MF Processing Plant	204,600	\$0.0700	\$14,322.00
RO Processing Plant	374,100	\$0.0700	\$26,187.00
High Service Pumps	167,600	\$0.0700	\$11,732.00
<i>Power costs per thousand gals:</i>		\$0.375	\$80,296.76

SOUTHMOST REGIONAL WATER AUTHORITY
2019

MONTH: **January-19**

	TOTAL MGD PRODUCED	DESCRIPTION	DOWN TIME HOURS
1	5.825	Three reverse osmosis units off for clean in place procedures.	No Down Time
2	5.841	Three reverse osmosis units off for clean in place procedures.	No Down Time
3	5.777	Three reverse osmosis units off for clean in place procedures.	No Down Time
4	6.439		
5	7.112		
6	7.082		
7	6.982		
8	7.115		
9	8.131		
10	7.227		
11	7.025		
12	6.883		
13	7.118		
14	6.984		
15	6.683		
16	7.293		
17	6.951		
18	7.111		
19	7.224		
20	7.203		
21	7.266		
22	6.902		
23	5.543	Power issues at the well field caused by high winds	4
24	7.168		
25	7.154		
26	7.228		
27	6.565		
28	7.143		
29	7.073		
30	6.971		
31	7.041		
TOTALS	214.062		4
AVERAGE	6.905		

SOUTHMOST REGIONAL WATER AUTHORITY

PRODUCTION / DISTRIBUTION COSTS

2018

MONTH: **December-18**

	R.O. Water Produced MGD	Blend Water Produced MGD	Total Water Produced	DISTRIBUTION (MGD)			TOTAL WATER DISTRIBUTED
				TO BROWNSVILLE	TO LOS FRESNOS	TO VMUD #2	
1	6.250	0.798	7.048	6.424	0.100	0.160	6.684
2	6.347	0.806	7.153	8.129	0.094	0.136	8.359
3	6.289	0.798	7.087	6.130	0.103	0.135	6.368
4	6.275	0.798	7.073	4.779	0.950	0.151	5.880
5	6.298	0.806	7.104	8.009	0.095	0.206	8.310
6	5.330	0.811	6.141	10.617	0.111	0.206	10.934
7	6.273	0.800	7.073	6.682	0.088	0.260	7.030
8	6.474	0.820	7.294	6.632	0.094	0.282	7.008
9	6.375	0.806	7.181	7.786	0.087	0.274	8.147
10	6.367	0.810	7.177	6.327	0.098	0.202	6.627
11	6.339	0.809	7.148	6.720	0.091	0.133	6.944
12	6.300	0.807	7.107	7.724	0.086	0.166	7.976
13	6.097	0.781	6.878	6.593	0.091	0.146	6.830
14	6.771	0.864	7.635	6.978	0.093	0.157	7.228
15	6.160	0.781	6.941	6.239	0.092	0.142	6.473
16	6.085	0.788	6.873	8.055	0.097	0.149	8.301
17	6.235	0.800	7.035	6.787	0.091	0.146	7.024
18	5.117	0.646	5.763	5.976	0.104	0.129	6.209
19	6.148	0.790	6.938	5.576	0.078	0.139	5.793
20	5.895	0.757	6.652	6.059	0.099	0.124	6.282
21	5.341	0.684	6.025	6.364	0.109	0.149	6.622
22	5.545	0.670	6.215	6.053	0.082	0.148	6.283
23	6.136	0.787	6.923	6.027	0.106	0.136	6.269
24	5.906	0.741	6.647	7.405	0.091	0.140	7.636
25	6.168	0.792	6.960	5.748	0.087	0.154	5.989
26	6.324	0.808	7.132	7.193	0.105	0.133	7.431
27	5.469	0.677	6.146	7.026	0.086	0.127	7.239
28	5.719	0.666	6.385	5.834	0.098	0.103	6.035
29	6.408	0.720	7.128	4.300	0.086	0.152	4.538
30	4.622	0.538	5.160	6.275	0.095	0.292	6.662
31	5.090	0.625	5.715	5.025	0.083	0.155	5.263
TOTALS	186.153	23.584	209.737	205.472	3.770	5.132	214.374
AVERAGE	6.005	0.761	6.766	6.628	0.122	0.166	6.915

CHEMICAL CONSUMPTION

	TYPE	QUANTITY	COST/UNIT	TOTALS
Scale Inhibitor	275-Gal Tote	1.22	\$4,681.60	\$5,711.55
Calcium Chloride	lbs.	173,688.14	\$0.1750	\$30,395.42
Caustic Soda	lbs.	16,718.69	\$0.1740	\$2,909.05
Liquid Ammonium Sulfate	lbs.	15,947.70	\$0.1014	\$1,617.10
Chlorine	Ton Containers	6.07	\$694.00	\$4,212.58
Ferric Chloride	lbs.	7,120.84	\$0.2420	\$1,723.24
Sodium Bisulfite	lbs.	10,972.02	\$0.1050	\$1,152.06
High pH Membrane Cleaner (237)	55-Gal Drum	0.00	\$1,550.00	\$0.00
Low pH Membrane Cleaner (234)	55-Gal Drum	0.00	\$1,600.00	\$0.00
Low pH Membrane Cleaner (232)	55-Gal Drum	0.00	\$1,600.00	\$0.00
Citric Acid	275-Gal Totes	1.00	\$1,734.34	\$1,734.34
Sodium Chlorite	lbs.	19,287.43	\$0.627	\$12,093.22
<i>Chemical cost per thousand gals:</i>		<i>\$0.293</i>		\$61,548.57

ELECTRIC CONSUMPTION

	kwh	COST/kwh	TOTALS
Well Field	495,000	\$0.05560	\$27,522.00
MF Processing Plant	195,000	\$0.0700	\$13,650.00
RO Processing Plant	375,600	\$0.0700	\$26,292.00
High Service Pumps	168,800	\$0.0700	\$11,816.00
<i>Power costs per thousand gals:</i>	<i>\$0.378</i>		\$79,280.00

SOUTHMOST REGIONAL WATER AUTHORITY
2018

MONTH: **December-18**

	TOTAL MGD PRODUCED	DESCRIPTION	DOWN TIME HOURS
1	7.048		
2	7.153		
3	7.087		
4	7.073		
5	7.104		
6	6.141		
7	7.073		
8	7.294		
9	7.181		
10	7.177		
11	7.148		
12	7.107		
13	6.878		
14	7.635		
15	6.941		
16	6.873		
17	7.035		
18	5.763	Production was temporarily shut down to allow the plant maintenance department to repair a water leak on the microfiltration feed line.	4
19	6.938		
20	6.652		
21	6.025		
22	6.215		
23	6.923		
24	6.647		
25	6.960		
26	7.132		
27	6.146		
28	6.385		
29	7.128		
30	5.160	Three reverse osmosis units off for clean in place procedures.	No Down Time
31	5.715	Three reverse osmosis units off for clean in place procedures.	No Down Time
TOTALS	209.737		4
AVERAGE	6.766		

SOUTHMOST REGIONAL WATER AUTHORITY

PRODUCTION / DISTRIBUTION COSTS

2018

MONTH: **November-18**

	R.O. Water Produced MGD	Blend Water Produced MGD	Total Water Produced	DISTRIBUTION (MGD)			TOTAL WATER DISTRIBUTED
				TO BROWNSVILLE	TO LOS FRESNOS	TO VMUD #2	
1	4.290	0.420	4.710	4.905	0.087	0.432	5.423
2	4.292	0.419	4.711	4.998	0.097	0.450	5.546
3	4.924	0.489	5.413	4.866	0.133	0.454	5.452
4	6.479	0.642	7.121	4.941	0.107	0.500	5.548
5	5.776	0.543	6.319	6.000	0.088	0.402	6.490
6	6.323	0.723	7.046	6.177	0.103	0.380	6.660
7	6.296	0.808	7.104	7.141	0.102	0.364	7.608
8	6.264	0.806	7.070	6.304	0.093	0.361	6.758
9	6.218	0.799	7.017	6.570	0.071	0.357	6.998
10	6.240	0.802	7.042	6.534	0.086	0.372	6.992
11	6.249	0.802	7.051	6.710	0.104	0.407	7.221
12	6.349	0.816	7.165	6.429	0.117	0.458	7.004
13	5.371	0.688	6.059	6.037	0.094	0.135	6.265
14	6.120	0.807	6.927	6.816	0.081	0.142	7.039
15	6.587	0.804	7.391	7.436	0.086	0.133	7.655
16	6.414	0.812	7.226	7.433	0.077	0.140	7.649
17	6.147	0.786	6.933	5.778	0.091	0.145	6.014
18	6.299	0.806	7.105	7.131	0.088	0.158	7.377
19	5.863	0.769	6.632	7.414	0.074	0.121	7.609
20	6.268	0.801	7.069	5.817	0.083	0.121	6.021
21	6.240	0.802	7.042	6.755	0.100	0.159	7.014
22	6.288	0.805	7.093	7.422	0.083	0.141	7.646
23	6.238	0.797	7.035	6.585	0.084	0.150	6.819
24	6.292	0.803	7.095	7.030	0.089	0.153	7.272
25	6.220	0.793	7.013	7.496	0.109	0.178	7.783
26	6.231	0.799	7.030	6.959	0.102	0.111	7.172
27	6.262	0.799	7.061	6.067	0.081	0.145	6.293
28	6.226	0.793	7.019	6.584	0.103	0.172	6.859
29	6.227	0.800	7.027	7.204	0.094	0.102	7.400
30	6.292	0.808	7.100	6.632	0.093	0.131	6.855
31							
TOTALS	181.285	22.341	203.626	194.173	2.798	7.471	204.442
AVERAGE	6.043	0.745	6.788	6.472	0.093	0.249	6.815

CHEMICAL CONSUMPTION

	TYPE	QUANTITY	COST/UNIT	TOTALS
Scale Inhibitor	275-Gal Tote	1.19	\$4,681.60	\$5,571.10
Calcium Chloride	lbs.	168,704.22	\$0.1750	\$29,523.24
Caustic Soda	lbs.	73,379.95	\$0.1740	\$12,768.11
Liquid Ammonium Sulfate	lbs.	16,121.62	\$0.1014	\$1,634.73
Chlorine	Ton Containers	5.52	\$694.00	\$3,830.88
Ferric Chloride	lbs.	6,981.03	\$0.2420	\$1,689.41
Sodium Bisulfite	lbs.	10,479.06	\$0.1050	\$1,100.30
High pH Membrane Cleaner (237)	55-Gal Drum	0.00	\$1,550.00	\$0.00
Low pH Membrane Cleaner (234)	55-Gal Drum	0.00	\$1,600.00	\$0.00
Low pH Membrane Cleaner (232)	55-Gal Drum	0.00	\$1,600.00	\$0.00
Citric Acid	275-Gal Totes	2.00	\$1,734.34	\$3,468.68
Sodium Chlorite	lbs.	19,459.12	\$0.627	\$12,200.87
<i>Chemical cost per thousand gals:</i>		<i>\$0.353</i>		\$71,787.32

ELECTRIC CONSUMPTION

	kwh	COST/kwh	TOTALS
Well Field	494,400	\$0.05560	\$27,488.64
MF Processing Plant	225,600	\$0.0700	\$15,792.00
RO Processing Plant	366,900	\$0.0700	\$25,683.00
High Service Pumps	160,400	\$0.0700	\$11,228.00
<i>Power costs per thousand gals:</i>	<i>\$0.394</i>		\$80,191.64

SOUTHMOST REGIONAL WATER AUTHORITY
2018

MONTH: **November-18**

	TOTAL MGD PRODUCED	DESCRIPTION	DOWN TIME HOURS
1	4.710	Production was reduced to allow the Plant Maintenance Department to replace the spheres in decarbonators.	No Down Time
2	4.711	Continuation of the spheres replacement in decarbonators.	No Down Time
3	5.413	Continuation of the spheres replacement in decarbonators.	No Down Time
4	7.121		
5	6.319		
6	7.046		
7	7.104		
8	7.070		
9	7.017		
10	7.042		
11	7.051		
12	7.165		
13	6.059		
14	6.927		
15	7.391		
16	7.226		
17	6.933		
18	7.105		
19	6.632		
20	7.069		
21	7.042		
22	7.093		
23	7.035		
24	7.095		
25	7.013		
26	7.030		
27	7.061		
28	7.019		
29	7.027		
30	7.100		
31			
TOTALS	203.626		0
AVERAGE	6.788		

SOUTHMOST REGIONAL WATER AUTHORITY

PRODUCTION / DISTRIBUTION COSTS

2018

MONTH: **October-18**

	R.O. Water Produced MGD	Blend Water Produced MGD	Total Water Produced	DISTRIBUTION (MGD)			TOTAL WATER DISTRIBUTED
				TO BROWNSVILLE	TO LOS FRESNOS	TO VMUD #2	
1	7.258	0.000	7.258	7.154	0.421	0.280	7.855
2	7.276	0.000	7.276	5.660	0.469	0.275	6.404
3	7.310	0.000	7.310	6.609	0.621	0.532	7.762
4	7.298	0.000	7.298	6.365	0.545	0.384	7.294
5	7.272	0.000	7.272	6.634	0.521	0.364	7.519
6	7.793	0.000	7.793	6.671	0.509	0.398	7.578
7	6.589	0.000	6.589	5.708	0.524	0.456	6.688
8	7.304	0.000	7.304	6.743	0.496	0.436	7.675
9	7.269	0.000	7.269	6.103	0.585	0.416	7.104
10	7.337	0.000	7.337	7.262	0.561	0.426	8.249
11	7.358	0.164	7.522	6.503	0.713	0.316	7.532
12	7.267	0.360	7.627	5.617	0.499	0.312	6.428
13	7.299	0.362	7.661	6.844	0.489	0.393	7.726
14	7.357	0.324	7.681	6.920	0.535	0.399	7.854
15	7.001	0.182	7.183	6.182	0.464	0.391	7.037
16	2.515	0.121	2.636	5.001	0.299	0.400	5.700
17	5.480	0.257	5.737	4.753	0.177	0.355	5.285
18	7.347	0.364	7.711	5.912	0.114	0.351	6.377
19	7.330	0.371	7.701	6.662	0.082	0.333	7.077
20	7.355	0.351	7.706	6.750	0.090	0.338	7.178
21	7.272	0.364	7.636	7.997	0.102	0.323	8.422
22	7.217	0.532	7.749	6.860	0.093	0.318	7.271
23	7.307	0.507	7.814	8.051	0.085	0.376	8.512
24	7.332	0.578	7.910	7.721	0.115	0.238	8.074
25	7.219	0.574	7.793	6.973	0.090	0.405	7.468
26	5.987	0.484	6.471	6.028	0.095	0.419	6.542
27	6.365	0.477	6.842	6.582	0.096	0.419	7.097
28	6.279	0.494	6.773	6.658	0.123	0.418	7.199
29	6.144	0.489	6.633	6.896	0.094	0.450	7.440
30	6.326	0.546	6.872	5.940	0.112	0.876	6.928
31	5.089	0.494	5.583	4.342	0.089	0.432	4.863
TOTALS	211.552	8.395	219.947	200.101	9.808	12.229	222.138
AVERAGE	6.824	0.271	7.095	6.455	0.316	0.394	7.166

CHEMICAL CONSUMPTION

	TYPE	QUANTITY	COST/UNIT	TOTALS
Scale Inhibitor	275-Gal Tote	2.00	\$4,681.60	\$9,363.20
Calcium Chloride	lbs.	219,753.64	\$0.1750	\$38,456.89
Caustic Soda	lbs.	163,741.65	\$0.1740	\$28,491.05
Liquid Ammonium Sulfate	lbs.	18,451.18	\$0.1014	\$1,870.95
Chlorine	Ton Containers	5.73	\$694.00	\$3,973.97
Ferric Chloride	lbs.	8,043.40	\$0.2420	\$1,946.50
Sodium Bisulfite	lbs.	8,784.33	\$0.1050	\$922.35
High pH Membrane Cleaner (237)	55-Gal Drum	1.00	\$1,550.00	\$1,550.00
Low pH Membrane Cleaner (234)	55-Gal Drum	1.00	\$1,600.00	\$1,600.00
Low pH Membrane Cleaner (232)	55-Gal Drum	0.00	\$1,600.00	\$0.00
Citric Acid	275-Gal Totes	2.00	\$1,734.34	\$3,468.68
Sodium Chlorite	lbs.	19,165.09	\$0.627	\$12,016.51
<i>Chemical cost per thousand gals:</i>		<i>\$0.471</i>		\$103,660.10

ELECTRIC CONSUMPTION

	kwh	COST/kwh	TOTALS
Well Field	546,000	\$0.05560	\$30,357.60
MF Processing Plant	208,500	\$0.0700	\$14,595.00
RO Processing Plant	412,200	\$0.0700	\$28,854.00
High Service Pumps	173,200	\$0.0700	\$12,124.00
<i>Power costs per thousand gals:</i>		<i>\$0.391</i>	\$85,930.60

SOUTHMOST REGIONAL WATER AUTHORITY
2018

MONTH: **October-18**

	TOTAL MGD PRODUCED	DESCRIPTION	DOWN TIME HOURS
1	7.258		
2	7.276		
3	7.310		
4	7.298		
5	7.272		
6	7.793		
7	6.589		
8	7.304		
9	7.269		
10	7.337		
11	7.522		
12	7.627		
13	7.661		
14	7.681		
15	7.183		
16	2.636	Production was shut down to allow contractor make repairs on the main reverse osmosis permeate line.	16
17	5.737	Continuation of repairs on the reverse osmosis permeate line.	6
18	7.711		
19	7.701		
20	7.706		
21	7.636		
22	7.749		
23	7.814		
24	7.910		
25	7.793		
26	6.471		
27	6.842		
28	6.773		
29	6.633		
30	6.872		
31	5.583	Production was reduced to allow the Plant Maintenance Department replace the spheres on decarbonator #3.	No Down Time
TOTALS	219.947		22
AVERAGE	7.095		



Plant Issues



INTER-OFFICE CORRESPONDENCE

Date: September 13, 2019

To: John S. Bruciak, P.E., General Manager & CEO

From: Joe Saldivar Jr., W/WW Operator Chief 

Subject: Southmost Regional Water Authority— August 2019 Operations Report

During August 2019, the Southmost Regional Water Authority Brackish Groundwater Treatment Facility (SRWA) produced and distributed the following amount of water:

- Production: 229.784 MG (Daily average: 7.412 MGD)
- Distribution: 231.919 MG (Daily average: 7.481 MGD)

SRWA experienced temporary or partial shutdowns caused by the following:

- 1) Scheduled shutdown for installation of a grounding ring.
- 2) Air scrub (backwashing) issues at the microfiltration treatment process.

The year-to-date (YTD) distribution of water flow to Brownsville and Los Fresnos was over the targeted value. VMUD #2 were under the targeted value corresponding to the percent allocations of ownership. Staff is adjusting the flow rates to correct the flow discrepancies between the partners.

If you have any questions or need additional information, please let me know.

C: Fernando Sáenz, P.E.
Jaime Estrada



Capital Improvements



**FISCAL YEAR 2019
CAPITAL EXPENDITURES REPORT**

RUN DATE: 09-SEP-2019

	FY 2019 BEGINNING BALANCE	Y-T-D EXPENSES AS OF 08/31/19	OUTSTANDING ENCUMBRANCES	CURRENT ENDING BALANCE	DEFERRED FY 2020+ BUDGET
WATER PROJECT	\$ 567,120.45	\$ 286,800.90	\$ 93,339.67	\$ 186,979.88	\$ -
CAPITALIZED EQUIPMENT UNENCUMBERED BUDGET	96,615.00	66,822.61	-	29,792.39	-
IMPROVEMENT FUND BUDGET TOTAL	<u>1,673,477.55</u>	<u>-</u>	<u>-</u>	<u>1,673,477.55</u>	<u>-</u>
	<u>\$ 2,337,213.00</u>	<u>\$ 353,623.51</u>	<u>\$ 93,339.67</u>	<u>\$ 1,890,249.82</u>	<u>\$ -</u>
WATER PROJECT UNENCUMBERED BUDGET - GRANT	-	-	12,799.22	(12,799.22)	-
GRANTS FUND BUDGET TOTAL	<u>-</u>	<u>-</u>	<u>12,799.22</u>	<u>(12,799.22)</u>	<u>-</u>
	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 12,799.22</u>	<u>\$ (12,799.22)</u>	<u>\$ -</u>
OVERALL CAPITAL BUDGET TOTAL	<u><u>\$ 2,337,213.00</u></u>	<u><u>\$ 353,623.51</u></u>	<u><u>\$ 106,138.89</u></u>	<u><u>\$ 1,877,450.60</u></u>	<u><u>\$ -</u></u>



FISCAL YEAR 2019
CAPITAL PROJECT LISTING
YEAR-TO-DATE EXPENDITURE REPORT
IMPROVEMENT FUND

RUN DATE: 09-SEP-2019

PROJECT ORIGINATOR	DATE OPENED	WORK ORDER #	ACTIVITY	DESCRIPTION	FY 2019 BEGINNING BALANCE	Y-T-D EXPENSES AS OF 08/31/19	OUTSTANDING ENCUMBRANCES	CURRENT ENDING BALANCE	DEFERRED FY 2020+ BUDGET	DATE COMPLETED
Juan Bujanos	06/23/17	76659	WS1004	WELL FIELD MONITORING PROJECT amended	\$ -	\$ -	\$ 42,630.00	\$ (42,630.00)	\$ -	
Gerardo Saldivar	01/26/17	86558	WA1043	SRWA NEW ROADS CONSTRUCTION	24,003.70	1,958.77	-	22,044.93	-	
Karla Ruiz	07/12/18	100741	WD1077	MAG METER ON 24" DISTRIBUTION LINE DESIGN PHASE amended	11,558.47	4,704.50	-	6,853.97	-	
Karla Ruiz	01/03/19	100784	WD1078	HIGH SERVICE PUMP NO. 7 WITH VARIABLE FREQUENCY DRIVE - DESIGN PHASE amended	48,009.83	21,157.20	13,345.00	13,507.63	-	
Alfredo Resendez / Juan Bujanos	07/10/18	104662	WT1087	CHLORINE DIOXIDE FEED SYSTEM DESIGN AND IMPLEMENTATION amended	60,052.14	119,043.72	-	(58,991.58)	-	
Gerardo Saldivar / Karla Ruiz	03/24/17	89963	WS1095	NEW TRANSFER PUMP FOR SRWA - INSTALLATION OF PUMP, MOTOR AND VARIABLE FREQUENCY DRIVE	34,241.60	18,616.71	3,232.20	12,392.69	-	
Joe Saldivar / Judy Adams	02/14/18	108051	WS1097	CAUSTIC SODA BULK TANK	49,267.00	51,023.00	-	(1,756.00)	-	
Gerardo Saldivar	03/26/18	110515	WS1113	VARIABLE FREQUENCY DRIVE REPLACEMENT AT WELL NO. 11	66,519.13	49,995.00	-	16,524.13	-	
FY 2018 CARRYOVER PROJECT TOTAL					\$ 293,651.87	\$ 266,498.90	\$ 59,207.20	\$ (32,054.23)	\$ -	
Joe Saldivar	02/22/19	129853	WA1195	REPLACEMENT OF TWO AIR CONDITION UNITS AND TWO AIR DUCTS FOR SRWA	89,501.27	-	-	89,501.27	-	
Joe Saldivar	02/22/19	129864	WT1196	REPLACEMENT OF TWO ENERGY RECOVERY TURBINES FOR TWO OF THE REVERSE OSMOSIS UNITS	114,609.29	-	-	114,609.29	-	
Karla Ruiz / Joe Saldivar	06/13/19	134794	WS1211	STATIC MIXER REPLACEMENT amended	38,656.86	20,302.00	13,500.00	4,854.86	-	
David Ramirez	07/12/19	138211	WS1218	SRWA CAUSTIC SODA TANK ELECTRICAL INSTALLA	30,701.16	-	20,632.47	10,068.69	-	
FY 2019 PROJECT TOTAL					\$ 273,468.58	\$ 20,302.00	\$ 34,132.47	\$ 219,034.11	\$ -	
OVERALL IMPROVEMENT FUND PROJECT TOTAL					\$ 567,120.45	\$ 286,800.90	\$ 93,339.67	\$ 186,979.88	\$ -	
CAPITAL EQUIPMENT LISTING:										
TURBO CHARGER REPLACEMENT OF ONE OF THE ORIGINAL R.O. UNITS					\$ 56,615.00	\$ -	\$ -	\$ 56,615.00	\$ -	
PICK UP TO REPLACE UNIT 802					40,000.00	26,735.11	-	13,264.89	-	
VIDEO MONITOR FOR SRWA BOARD ROOM					-	-	-	-	-	
10" SPLITCASE PUMP FOR REPLACEMENT OF HIGH SERVICE PUMP NO. 6					-	40,087.50	-	(40,087.50)	-	
OVERALL CAPITALIZED EQUIPMENT TOTAL					\$ 96,615.00	\$ 66,822.61	\$ -	\$ 29,792.39	\$ -	
UNENCUMBERED BUDGET TOTAL					\$ 1,673,477.55	\$ -	\$ -	\$ 1,673,477.55	\$ -	
OVERALL IMPROVEMENT FUND BUDGET TOTAL					\$ 2,337,213.00	\$ 353,623.51	\$ 93,339.67	\$ 1,890,249.82	\$ -	



FISCAL YEAR 2019
 CAPITAL PROJECT LISTING
 YEAR-TO-DATE EXPENDITURE REPORT
 GRANTS FUND

RUN DATE: 09-SEP-2019

PROJECT ORIGINATOR	DATE OPENED	WORK ORDER #	ACTIVITY	DESCRIPTION	FY 2019 BEGINNING BALANCE	Y-T-D EXPENSES AS OF 08/31/19	OUTSTANDING ENCUMBRANCES	CURRENT ENDING BALANCE	DEFERRED FY 2020+ BUDGET	DATE COMPLETED
Juan Bujanos	06/23/17	76659	WS1004	WELL FIELD MONITORING PROJECT amended	\$ -	\$ -	\$ 12,799.22	\$ (12,799.22)	\$ -	
FY 2018 CARRYOVER PROJECT TOTAL					\$ -	\$ -	\$ 12,799.22	\$ (12,799.22)	\$ -	
There are no projects in this category.										
FY 2019 PROJECT TOTAL					\$ -	\$ -	\$ -	\$ -	\$ -	
OVERALL GRANTS FUND PROJECT TOTAL					\$ -	\$ -	\$ 12,799.22	\$ (12,799.22)	\$ -	



SRWA Outstanding Debt

DEBT SERVICE

The Southmost Regional Water Authority (SRWA) Reverse Osmosis Plant Project was complete and operational during 2005. The SRWA successfully issued \$30,975,000 in Water Supply Contract Revenue Bonds, Series 2002 during FY 2003 and has expended approximately 100% of bond proceeds in the construction of the desalination plant. The Series 2002 bonds were issued with insured ratings of “Aaa” and “AAA” by Moody’s Investor Services and Fitch Ratings, respectively. The underlying ratings on the bonds are “A2” and “A” by Moody’s and Fitch, respectively.

The SRWA issued \$9,950,000 in aggregate principal amount of Water Supply Contract Revenue Refunding Bonds, Series 2006. The refunding bonds provided proceeds to defease \$9,360,000 of the Series 2002 Revenue Bonds for the years 2019 and from 2028 through 2032.

On December 7, 2009, the SRWA issued \$9,295,000 in Water Supply Contract Revenue Bonds, Series 2009A and \$3,795,000 in Water Supply Contract Revenue Bonds, Series 2009B through the Texas Water Development Board Drinking Water State Revolving Fund for the construction of a full scale Micro Filtration Pretreatment System. The objective of this project is to achieve compliance with both existing and future maximum contaminant levels for arsenic in public drinking water by constructing a full scale Micro Filtration Pretreatment System prior to entering the existing reverse osmosis treatment process. An additional need is to control and reduce iron levels to eliminate complaints of colored water. Project objectives also include an additional 1.0 million gallons per day of capacity through upgrading certain pumps within the existing well field and adding one additional reverse osmosis train.

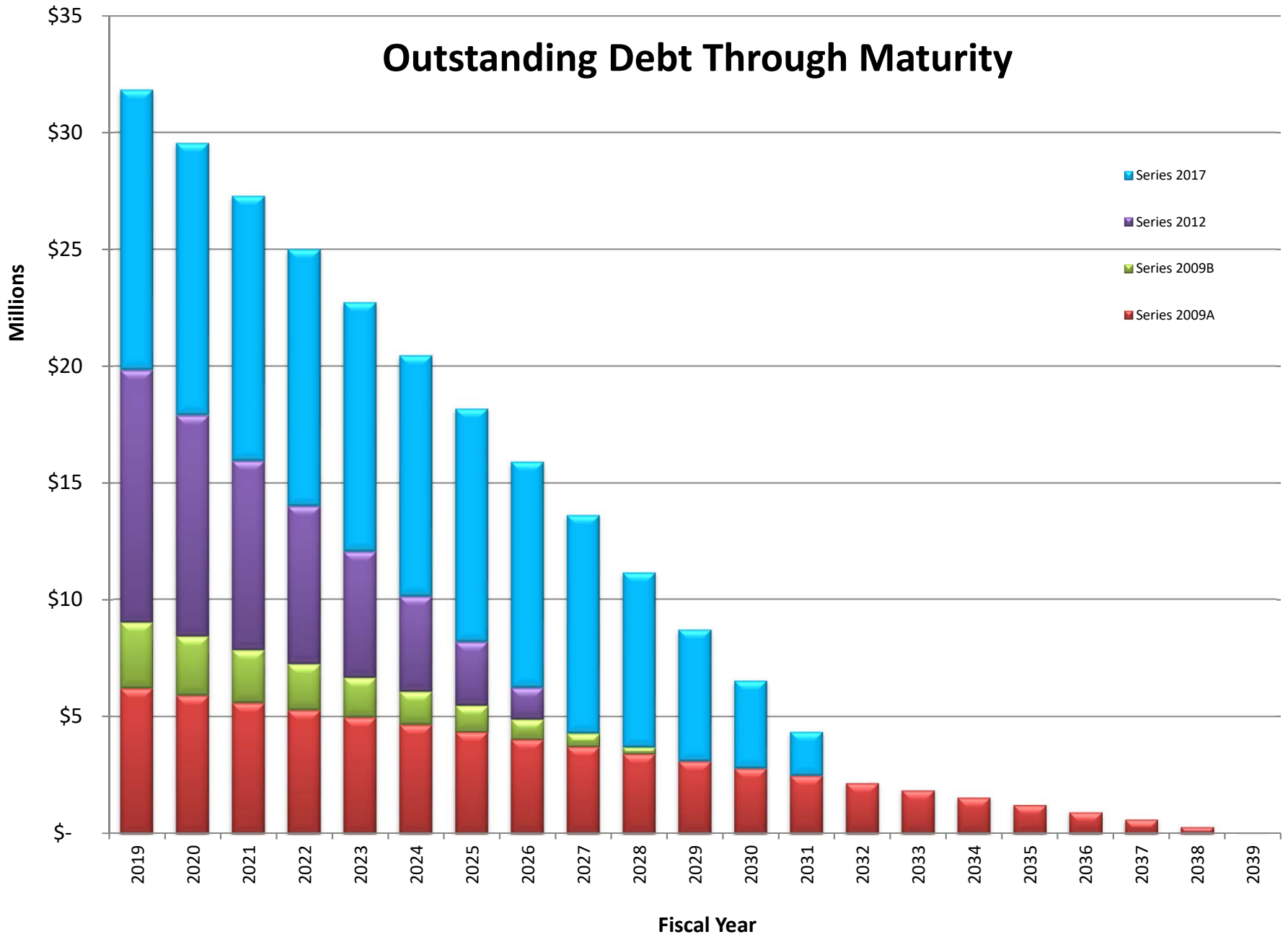
On September 26, 2012, the SRWA issued \$13,530,000 in Water Supply Contract Revenue Refunding Bonds, Series 2012. The refunding bonds provided proceeds to defease \$14,990,000 of the Series 2002 Revenue Bonds for the years 2013 through 2027.

On April 1, 2017, the SRWA issued \$9,255,000 in Water Supply Contract Revenue Refunding Bonds, Series 2017. The refunding bonds had a closing date of April 18, 2017 and the proceeds plus the bond premium were used to defease \$9,715,000 of the Series 2006 Water Supply Contract Revenue Refunding Bonds for the years 2019 through 2032.

OUTSTANDING DEBT

- \$9,295,000 Revenue Bonds, Series 2009A; due in remaining annual installments ranging from \$305,000 to \$310,000 through 2039 with interest rate at 0.0%
- \$3,795,000 Revenue Bonds, Series 2009B; due in remaining annual installments ranging from \$125,000 to \$270,000 through 2029 with interest rate ranging from 0.10% to 4.25%
- \$13,530,000 Water Supply Contract Revenue Refunding Bonds, Series 2012; due in remaining annual installments ranging from \$700,000 to \$1,285,000 through 2027 with interest rate ranging from 2.0% to 5.0%
- \$9,255,000 Water Supply Contract Revenue Refunding Bonds, Series 2017; due in remaining annual installments ranging from \$935,000 to \$1,795,000 through 2032 with interest rate ranging from 3.0% to 4.0%.

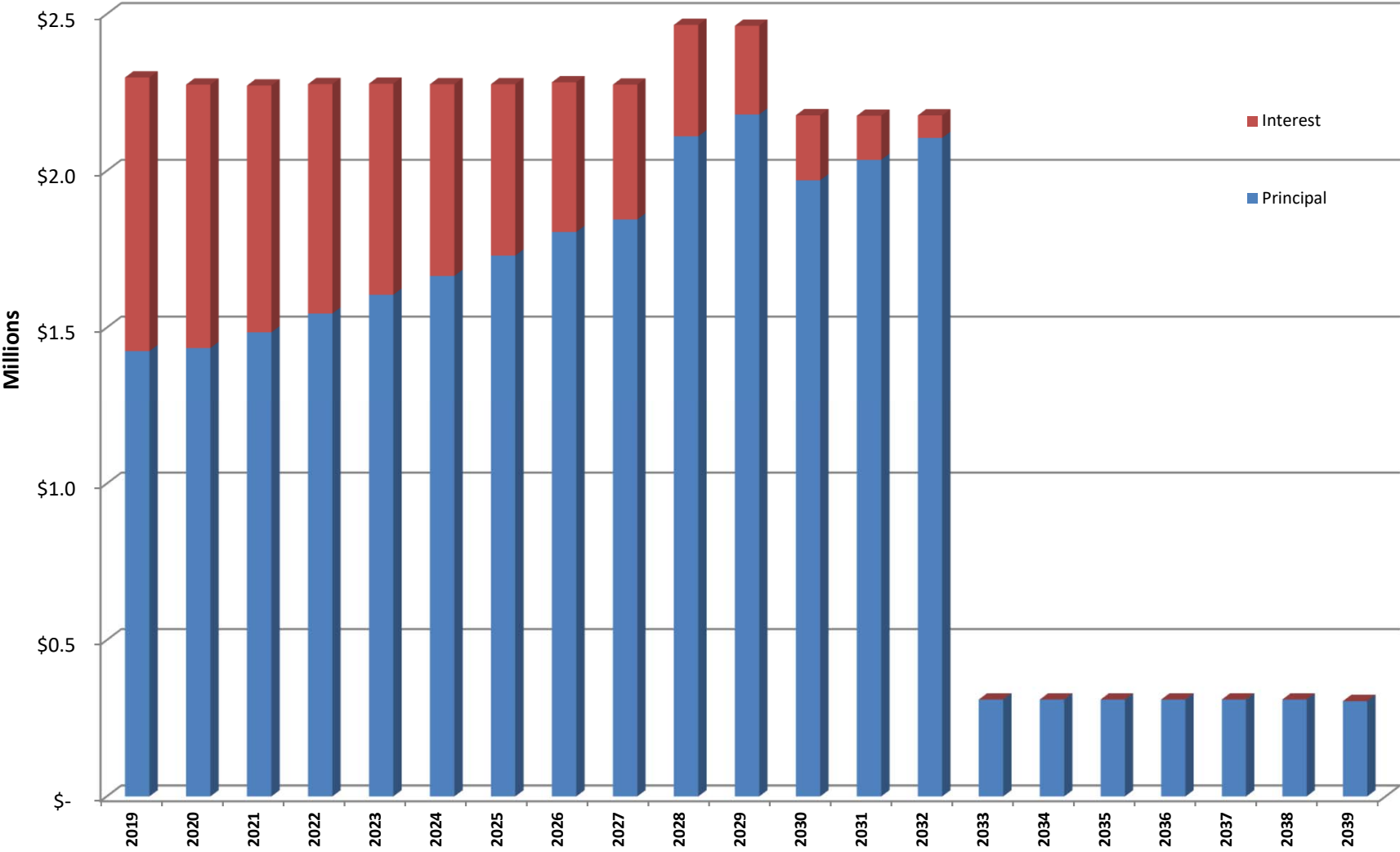
Outstanding Debt Through Maturity



DEBT SERVICE REQUIREMENTS BY FISCAL YEAR

Year Ending Sept. 1	Years	Principal	Interest	Total Debt Svc. Requirements	Declining Debt Svc. Balance
2019	21	\$ 1,425,000	\$ 872,805	\$ 2,297,805	\$ 31,834,238
2020	20	1,435,000	839,805	2,274,805	29,559,433
2021	19	1,485,000	787,070	2,272,070	27,287,363
2022	18	1,545,000	731,538	2,276,538	25,010,825
2023	17	1,605,000	672,965	2,277,965	22,732,860
2024	16	1,665,000	611,155	2,276,155	20,456,705
2025	15	1,730,000	546,265	2,276,265	18,180,440
2026	14	1,805,000	477,565	2,282,565	15,897,875
2027	13	1,845,000	430,075	2,275,075	13,622,800
2028	12	2,110,000	355,325	2,465,325	11,157,475
2029	11	2,180,000	282,675	2,462,675	8,694,800
2030	10	1,970,000	207,200	2,177,200	6,517,600
2031	9	2,035,000	140,800	2,175,800	4,341,800
2032	8	2,105,000	71,800	2,176,800	2,165,000
2033	7	310,000	-	310,000	1,855,000
2034	6	310,000	-	310,000	1,545,000
2035	5	310,000	-	310,000	1,235,000
2036	4	310,000	-	310,000	925,000
2037	3	310,000	-	310,000	615,000
2038	2	310,000	-	310,000	305,000
2039	1	305,000	-	305,000	-
		<u>\$ 27,105,000</u>	<u>\$ 7,027,043</u>	<u>\$ 34,132,043</u>	

DEBT SERVICE ANNUAL CASH REQUIREMENTS





Glossary

GLOSSARY

Acceptable Pressure – means the pressure at the Delivery Point not less than the minimum pressure of 60 psia.

Accountant – shall mean a firm of independent, certified public accountants retained by the Authority which is experienced in auditing political subdivisions of the state.

A/P – Accounts Payable

A/R – Accounts Receivable

Account – A basis for distinguishing types of expenses or expenditures.

Accrual – The method of accounting that recognizes income when earned and expenses when incurred regardless of when cash is received or disbursed.

ACH – Automated Clearing House; name of the network used for electronic financial transactions.

Asset – A property that has value.

AST – Above-ground storage tank.

Authority – Shall mean the Southmost Regional Water Authority, or its Board of Directors as the context may indicate, and any legal successor which succeeds to the function and authority thereof. The Authority is the largest such facility in Texas, the regional reverse osmosis plant uses state-of-the-art reverse osmosis (RO) technology to treat previously untapped and unusable brackish groundwater resources as an alternative water supply.

Average Daily Rate – Rate of delivery of water from the System delivered to the Participating Customer at the Delivery Point calculated as the average amount of water delivered on a daily basis over a 30 day period.

Balanced Budget – a budget in which forward expenditures for a set period are matched by expected revenues for the same period.

BANNER 8.6 – name of program used as the Financial Management Information System.

Bonds – Shall mean the initial Project Bonds, as well as any other notes, bonds, refunding bonds and lease obligations, or other revenue obligations issued from time to time by the Authority the proceeds of which are used for financing or refinancing allocable or attributable cost, expense or liability incurred or paid by the Authority for the financing, or refinancing, construction, reconstruction, acquisition, operation or maintenance of the System or otherwise paid or incurred by the Authority in order to perform its obligations under the Water Supply Contracts.

GLOSSARY

Bond Covenants – The issuer’s pledge, in the financing documents, to do or to avoid performing certain practices and actions.

Bond Ratings – A measure of the quality and safety of a bond, based on the issuer’s financial condition; more specifically, an evaluation from a rating service indicating the likelihood that a debt issuer will be able to meet scheduled interest and principal repayments. Typically, AAA is the highest (best), and D is the lowest (worst). The SRWA is maintaining an “A2” as rated by Moody’s, and an “A” as rated by Fitch Ratings.

BPUB (Brownsville Public Utilities Board; Brownsville PUB; the Public Utilities Board; PUB; the System; the Board) – See “Participating Customer”

Brownsville Navigation District (BND) - See “Participating Customer”

Budget – A financial plan, generally for one fiscal year, presenting proposed expenditures and an estimate of the necessary sources of funds; the Budget Document, as prepared and presented, to the governing body.

Capital Asset – An asset with an initial, individual cost of more than \$5,000 and an estimated useful life in excess of eighteen (18) months.

Capital Expenditure – Capital Expenditures are those investments in property, plant, and equipment that have a useful life that is greater than one year (depreciable assets).

Capital Project – the construction, reconstruction, acquisition, and structural maintenance of buildings or real property that adds value to the utility’s system.

CFO – Chief Financial Officer; in charge of managing the finances of the company.

CIP – Capital Improvement Plan; strategy of planning and prioritizing capital projects based on projected availability of resources.

City of Los Fresnos – See “Participating Customer”

Construction Bond Fund – Funding source of SRWA capital project(s)

COO – Chief Operating Officer; in charge of managing the operations of the company.

CPA – Certified Public Accountant; certification given to individual who has passed the Uniform Certified Public Accountant Examination and has met the required state education and experience requirements.

CPR – Continuing Property Records System; information system used to record and keep track of the capital assets of the company.

GLOSSARY

Debt Service – The principal repayment, interest expense, and issue costs associated with the retirement of outstanding debt.

Defeasance – Termination of the rights and interests of the trustee and bondholders under a trust agreement or indenture on final payment or provision for payment of all debt service and premiums and other costs, as specifically provided for in the trust instrument.

Depreciation – Depreciation represents the use of capital asset over its useful life. Eventually all physical assets wear out or become obsolete. Depreciation recognizes this fact, but does not represent either an actual cash outflow or cash inflow.

Distribution – Usable portion of the delivery system coming from the substation or water plant/tank to the customer's meter.

EPA – Environmental Protection Agency; federal government agency charged with protecting and safeguarding human health and the natural environment (www.epa.gov).

Expense – A use of financial resources to acquire goods or services consumed in a single year's current operations.

Federal Deposit Insurance Corporation (FDIC) – An independent agency created by Congress that maintains the stability and public confidence in the nation's financial system by insuring deposits, examining and supervising financial institutions, and managing receiverships (www.fdic.gov).

Fiscal Year (FY) – A consecutive 12-month period marking the beginning and ending dates for recording financial transactions. The SRWA's fiscal year begins October 1 and ends September 30 of the following calendar year. This is also referred to as the budget year.

FS – Financial Statements

FTE – Full Time Employee working 40 hours per week.

GASB - The Governmental Accounting Standards Board; Governmental Board organized in 1984 as an operating entity of the Financial Accounting Foundation (FAF) to establish standards of financial accounting and reporting for state and local governmental entities (www.gasb.org).

GAAP - Generally Accepted Accounting Principles; the conventions, rules, and procedures necessary to define an accepted accounting practice at a particular time. The principles have been developed on the basis of experience, custom, usage, and to a significant extent, practical necessity.

GM & CEO – General Manager & Chief Executive Officer; in charge of managing the company and reports to the Board of Directors

GLOSSARY

Grant – A legal transaction giving money or property for a specific purpose.

Interest Expense – Interest expense is the cost of borrowing funds. It is shown as a financial expense item within the income statement.

Interest From Investments or Investment Income –Interest and dividends from short-term and overnight investments. The Brownsville PUB invests certain cash assets in order to receive interest earnings until that cash is needed. All interest earned is recorded as investment income.

Junior lien – See “lien obligations”.

Kilowatt hour (kWh) - measures a unit of energy, equal to 3,600,000 joules (3.6 MJ). It can also be described as the amount of energy that would be transferred at a constant rate of one kilowatt for one hour. This is the unit that is used by power companies to determine the amount of energy used by a home or business for billing purposes.

Liabilities - a liability is a debt or obligation that a company must pay. Liabilities are recorded on a company's balance sheet and can include accounts payable, taxes, wages, accrued expenses, and deferred revenues.

Lien Obligations – Security protection claim for repayment of a debt. Legal priority rights are placed on the repayment of debt. If legal remedies for repayment occur, first emphasis for repayment is Priority Obligations, then Second Lien Obligations, then Junior Lien Obligations, and then Subordinate Lien Obligations. While bonds with second or third liens are generally rated significantly lower than those with first liens, the issuer may determine that the senior-lien credit is so strong that a well-structured junior-lien bond will be rated relatively close to senior bond.

MG – Million gallons.

MGD – Million gallons per day.

Mg/l – Million gallons per load.

MSRB – Municipal Securities Rulemaking Board and any successors to its duties

Net Assets - Total assets minus total liabilities of an individual or company

NRMSIR – Each person whom the SEC or its staff has determined to be a nationally recognized municipal securities information repository within the meaning of the Rule from time to time.

O&M – Operations & Maintenance

GLOSSARY

Operating Revenues – Gross Revenues with respect to any period, after deducting the O&M expenses.

Operations and Maintenance Budget (O&M Budget) – Plan of current expenditures and proposed means of financing them. The annual operating budget is the primary means by which most of the financing, acquisition, spending, and service delivery activities of the utility are controlled.

Operations and Maintenance Expense (O&M Non-personnel) – Also known as operating costs, these are the expenses of the day-to-day operations assigned to the current operating period.

Operations and Maintenance Personnel (O&M Personnel) – Cost related to compensating employees, including salaries, wages, insurance, payroll taxes, and retirement contributions.

Other Non-Operating Expenses – Miscellaneous expenses, debt discounts/expenses and other interest expenses.

Participating Customer – A Texas municipal utility district created under the authority of Article XVI, Section 59 of the Texas Constitution and operating pursuant to Chapter 49 and 54, Texas Water Code. Each Participating Customer or any Participating Customer shall mean, subject to the proviso in the definition of the Water Supply Contract, one or more of the Participating Customers entered in the Water Supply Contract, its legal successors or permitted assigns so long as such entity is a party to the Water Supply Contract, and shall also include any purchaser of treated water from the Authority which becomes a Participating Customer.

Participant's System – Water system or combined utility system of each Participating Customer, as applicable.

P.E. – Professional Engineer; registered or licensed engineer.

Operating Fund - This fund group is used to account for the maintenance and operations of the Systems physical plant and assets.

Policy – A program of actions adopted by a person, group, or government, or the set of principles on which they are based.

Polychlorinated biphenyl (PCB) – Several compounds that are produced by replacing hydrogen atoms in biphenyl with chlorine, have various industrial applications, and are toxic environmental pollutants which tend to accumulate in animal tissues.

Prudent Utility Practice – shall mean any of the practices, methods and acts engaged in or approved by a significant portion of the water utility industry during the relevant time period, or any of the practices, methods and acts that, in the exercise of reasonable judgment in light of the

GLOSSARY

facts known at the time the decision was made, could have been expected to accomplish the desired result at lowest reasonable cost consistent with good business practices, reliability, safety, and expedition. Prudent Utility Practice is not intended to be limited to the optimum practice, method, or act, to the exclusion of all others, but rather to include a spectrum of possible practices, methods, or acts generally acceptable in the water utility industry in light of the circumstances.

Public Utility Commission of Texas (PUC) – agency that regulates the rates and services of electric, water and wastewater utilities, as defined by state and Federal laws and regulations (www.puc.state.tx.us).

QA – Quality assurance

QC – Quality control

Ratings – See “Bond Ratings.” Alpha and/or numeric symbols used to give indications of relative credit quality. In the municipal market these designations are published by the investors’ rating services. Internal ratings are also used by other market participants to indicate relative credit quality.

Revenue Bonds – Securities for which debt service payments are generated from a specific revenue source.

Reverse Osmosis – A process by which a solvent such as water is purified of solutes by being forced through a semi-permeable membrane through which the solvent, but not the solutes, may pass.

Sale and Offering Documents – Any resolution, indenture, preliminary official statement, or other preliminary offering document for the Bonds.

SEC – The United States Securities and Exchange Commission and any successor to its duties.

SID – Any entity designated by the State or an authorized department, officer, or agency thereof as, and determined by the SEC or its staff to be, a state information depository within the meaning of the Rule from time to time.

State – Shall mean the State of Texas.

Senior Lien – See “lien obligations”.

Southmost Regional Water Authority (SRWA) – See “Authority.”

Statement of Net Assets - Presents information on all of the Authority’s assets and liabilities, with the difference reported as net assets.

GLOSSARY

Statement of Revenues, Expense & Changes in Net Assets - Presents the results of the business activities over the course of the fiscal year.

Statement of Demand Accounts & Investments - Presents the Authority's restricted and unrestricted cash and investment account balances at a given period.

Subordinate Lien – See “lien obligations”.

System – shall mean the Initial Project, any additional Projects, and all other properties and assets, real, personal, tangible and intangible, of the Authority, now or hereafter existing and used to supply water, or any other utility service that the Authority may lawfully provide, to a Participating Customer hereunder and shall include on site general plant and administrative facilities of the Authority and all interest of the Authority in the water treatment, storage, conveyance and distribution facilities and administrative facilities of the Authority, together with all lands, easements and rights-of-way of the Authority and all other works, property or structures of the Authority and contract rights, water rights permits and other tangible and intangible assets of the Authority through which water is diverted from the Authority's water supply system or any other supplier of raw water, raw water storage capacity, or raw water pumping and conveyancing.

System Capacity – Shall mean the actual total capacity as reasonably determined and verified by the Authority from time to time of the System to produce and deliver treated water.

System Costs – Shall mean the Operating Costs plus the Capital Costs of the System.

TCEQ – Texas Commission for Environmental Quality is the environmental agency for the State of Texas (www.tceq.state.tx.us).

TPDES – Texas Pollutant Discharge Elimination System; refer to the following web address: http://www.tceq.state.tx.us/permitting/water_quality/wastewater/pretreatment/tpdes_definition.html

TSS – Total Suspended Solids

TWDB – Texas Water Development Board; state agency providing leadership, planning, financial assistance, information, and education for the conservation and responsible development of water resources for the State of Texas (www.twdb.state.tx.us)

TXDOT – Texas Department of Transportation; state agency providing safe, effective, and efficient movement of goods within the State of Texas (www.dot.state.tx.us)

Town of Indian Lake - See “Participating Customer”

UST – Underground Storage Tank.

GLOSSARY

Valley Municipal Utility District 2 (VMUD) - See “Participating Customer”

Water Supply Contracts – Shall mean the Contract and the contracts with any other Participating Customers and the Authority, in substantially the same form as the Contract, as amended from time to time; provided, however, that if a Participating Customer is added that was not a Participating Customer on the Effective Date, the Authority reserves the right to charge this new Participating Customer greater (but in no event less than) Capital Costs and/or Operating Costs, or a greater percentage thereof allocated to such new participating Customer as recognized by the provisions of Section 3.4(b) and Section 3.5(g) of the Water Supply Contract. Otherwise, any such contract between the new Participating Customer and the Authority shall be substantially in the form as the Contract.



Selected Provisions from the SRWA Water Supply Contract

SELECTED PROVISIONS FROM THE SRWA WATER SUPPLY CONTRACT

Section 2.4 Design Capacity. The Initial Project shall be designed so that the water treatment plant will produce treated water complying with the quality standards for potable water as provided in the contract at a minimum rated capacity of 7.5 MGD, on a consistent basis throughout a calendar year in compliance with regulatory requirements. After the Commencement Date of the Initial Project, the Authority shall make appropriate tests to determine the actual rated capacity of the water treatment plant as provided in Section 3.11.

Section 3.1 Allocated Portion. Subject to the other provisions of the contract, the Authority agrees to sell and deliver to the Participating customer, and the participating customer design of the system capacity, participating customer shall be entitled to receive treated water at a daily rate of delivery equivalent to its Allocated Portion during each day of the year (subject to planned outages for maintenance and repairs or Force Majeure). The Participating Customer's initial "Allocated Portion of System Capacity" (averaged over each calendar year) is designated of System Capacity during the term of this Contract, except as otherwise permitted herein.

Section 3.2 Increases or Decreases In System Capacity. If the System Capacity is increased or decreased at any time pursuant to Section 3.12 that is not due to construction of an additional Project or a Special Project Facility, each Participating Customer shall be entitled to its Allocated Portion of the increased or decreased System Capacity, except to the extent another mutually acceptable arrangement is agreed to by the Participating Customers.

Section 3.3 Additional Projects or New Projects. Each Participating customer will have the first right to participate in future phases of the Project based upon the initial "Allocated Portion of System Capacity" designated on Exhibit "B". Any additional System Capacity due to the construction of an additional Project shall not be offered to a party that is not a Participating Customer as of the Effective Date until all such Participating Customer have been offered such additional System Capacity.

Section 3.5.(e) Price of Water. The amount of the Operating Costs to be paid by the Participating Customer shall be established on a monthly basis by the Annual System Budget as described in Sections 4.2 and 4.3 and adjusted from time to time as the Authority deems necessary to cover its Operating Costs. The Annual System Budget, as amended, shall provide for payment by the Participating Customer on a monthly basis which corresponds to the Authority's Operating Costs, but the payments shall be trued up at the end of each Fiscal Year so that each Participating Customer pays the same rate for Operating Costs per 1,000 gallons of water delivered to the Participating Customers.

Section 3.10. Sale of Water by Participating Customer. The Participating Customer shall have the right to maintain existing contracts or to enter into contracts for the resale of water delivered to the Participating Customer by the Authority. The consideration as between or among the participating Customer and its customers shall be determined by the contracting parties, but no such contract shall relieve the participating Customer of its primary obligation to the Authority under the terms of this Contract. Before a participating Customer may resell to a

third party any water that was originally delivered to it by the Authority, the Participating Customer must first offer that water for sale to other participating Customers. Water sold to more than one Participating Customer will be allocated based on the original Allocated Portion of the system Capacity, except to the extent another mutually accepted arrangement is agreed to by the Participating Customer.

Section 3.11. Rated Water Treatment Capacity of System. The Authority shall, from time to time, determine if the rated water treatment capacity should be changed (increased or decreased) to reflect the actual capacity of the System to supply treated water complying with water quality standards for potable water as provided in this Contract on a consistent basis if operated throughout the year in accordance with regulatory requirements. Any such determination shall be based upon a written report by the Consulting Engineer. The Authority shall give the Participating Customer prior notice of any test to predetermine the rated water treatment capacity of the System and attain the Participating Customer and its Consulting Engineer or other representations the opportunity to be present during any test period and to review and comment on a draft of the report of the Consulting Engineer. Any change in the rated water treatment capacity shall not affect the obligations of the Participating Customer or its Allocated Portion of the System Capacity.

Section 5.10. Monthly Operations Report. The Authority covenants and agrees to provide the Participating Customer with a monthly operations report. The monthly operations report shall contain all information required by the rules and regulations established by the Authority. The monthly operations reports shall at a minimum include unaudited financial statements, the quantity of water delivered from the System, the current System Capacity and any material maintenance or repairs performed or required.

Exhibit “B” of Water Supply Contract

Allocated Portion of the System Capacity

<u>Participating Customer</u>	<u>Allocated Portion</u>
Brownsville Public Utilities Board	92.91%
Valley Municipal Utility District #2	2.51%
City of Los Fresnos	2.28%
Brownsville Navigation District	2.10%
Town of Indian Lake	0.20%

November 2019

October '19							December '19						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
		1	2	3	4	5	1	2	3	4	5	6	7
6	7	8	9	10	11	12	8	9	10	11	12	13	14
13	14	15	16	17	18	19	15	16	17	18	19	20	21
20	21	22	23	24	25	26	22	23	24	25	26	27	28
27	28	29	30	31			29	30	31				

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
27	28	29	30	31	1	2
3	4	5	6	7	8	9
10	11 Veteran's Holiday	12 BPUB Board Meeting	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
1	2	Notes				

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