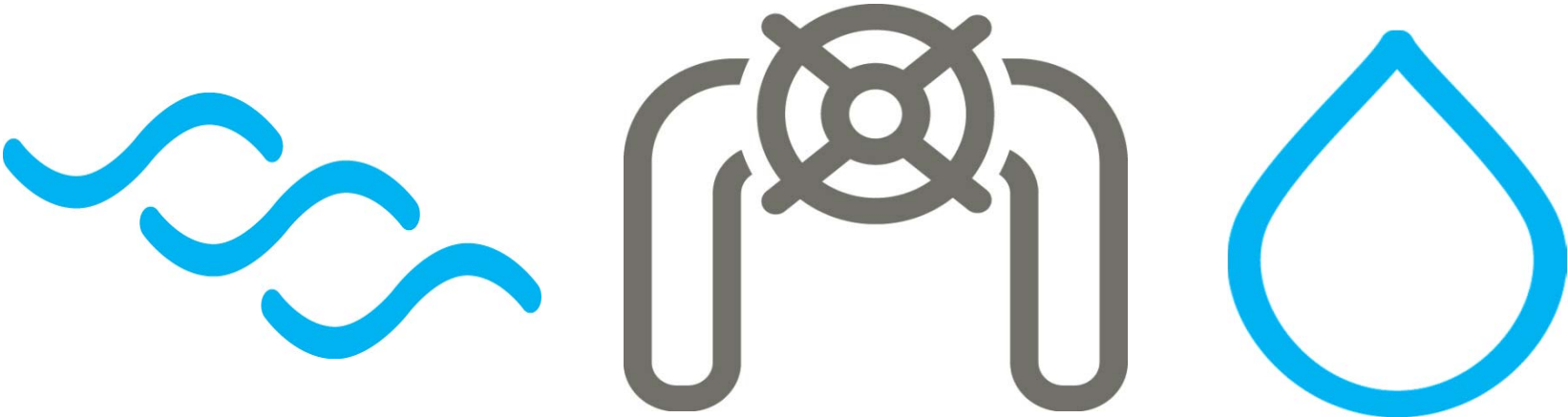


Pagosa Area Water and Sanitation District- Water Fund FAMS

Assumptions & Preliminary Results Workbook



Beginning Balances as of Dec 31, 2017

Schedule 2

	TOTAL	Revenue Fund	CIF (Capital Investment Fee)	RWAf (Raw Water Acquisition Fee)
<u>CURRENT UNRESTRICTED ASSETS</u>				
Cash and Cash Equivalents	\$ 4,324,286	\$ 2,859,400	\$ 598,451	\$ 866,435
Investments - Current	-	-	-	-
Due from other governments	-	-	-	-
Due from other funds	-	-	-	-
TOTAL CURRENT UNRESTRICTED ASSETS	\$ 4,324,286	\$ 2,859,400	\$ 598,451	\$ 866,435
Less: Accounts Payable	-	-	-	-
Less: Accrued Liabilities	-	-	-	-
Less: Due to Other Governments	-	-	-	-
Less: Compensated Absences Payable	-	-	-	-
Less: Revenue Bonds Payable	-	-	-	-
Less: Connection Fees Collected in Advance	-	-	-	-
Less: Other Post Employment Benefits	-	-	-	-
Less: Unclaimed Funds	-	-	-	-
UNRESTRICTED WORKING CAPITAL	\$ 4,324,286	\$ 2,859,400	\$ 598,451	\$ 866,435
NET UNRESTRICTED WORKING CAPITAL AVAILABLE	\$ 4,324,286	\$ 2,859,400	\$ 598,451	\$ 866,435

Capital Improvement Program

	<u>Funding Source</u>	<u>Project Description</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>TOTAL</u>
1	OPT	<u>Raw</u>												
2	OPT	Four Mile Diversion	\$ -	-	-	-	-	-	-	-	-	-	-	\$ -
3	OPT	West Fork Diversion	-	61,050	60,750	61,050	60,750	61,050	60,750	61,050	60,750	61,050	60,750	609,000
4	OPT	San Juan Diversion	-	-	-	-	-	-	-	-	-	-	30,000	30,000
5	OPT	Lake Forest Pump Station	-	-	100,000	-	-	-	-	-	-	-	-	100,000
6	OPT	Augmentation Plan	-	-	-	-	-	-	-	-	-	-	-	-
7	OPT	Convert ditches to pipelines	-	10,000	-	10,000	-	10,000	-	-	-	-	-	30,000
8	OPT	Hatcher Reservoir	-	-	-	300,000	-	-	-	-	-	-	-	300,000
9	OPT	<u>Distribution</u>												
10	OPT	Lines	-	250,000	250,000	250,000	250,000	250,000	250,000	500,000	500,000	500,000	500,000	3,500,000
11	OPT	Valves	-	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	240,000
12	OPT	Hydrants	-	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	250,000
13	OPT	Meters/Firefly's	-	-	-	-	-	-	-	8,000	10,000	12,000	14,000	44,000
14	OPT	Pump Stations	-	-	-	125,000	-	150,000	-	-	-	-	-	275,000
15	OPT	PRV	-	2,400	-	2,400	-	2,400	-	2,400	-	2,400	-	12,000
16	OPT	Fill station	-	-	-	-	-	-	-	-	-	-	-	-
17	OPT	Storage Tanks	-	200,000	750,000	96,000	-	120,000	130,000	110,000	-	85,000	-	1,491,000
18	OPT	Ace Motorola BPS	-	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	30,000	30,000	180,000
19	OPT	900 MHz Radios	-	-	-	5,000	-	-	-	5,000	-	-	5,000	15,000
20	OPT	<u>Hatcher</u>	-	39,000	57,000	37,000	58,000	67,000	55,000	35,000	85,000	36,000	57,000	526,000
21	OPT	<u>San Juan</u>	-	530,800	252,000	-	1,000	2,000	5,000	-	32,000	1,000	-	823,800
22	OPT	<u>Snowball</u>	-	-	200,000	1,600,000	3,890,000	120,000	-	300,000	-	-	-	6,110,000
23	OPT	<u>Vehicle</u>	-	35,360	135,867	285,600	67,733	40,533	91,800	20,400	29,600	9,600	159,800	876,293
24														
25	OPT	Total 2018 budget- Inspection	74,595	74,595	74,595	74,595	74,595	74,595	74,595	74,595	74,595	74,595	74,595	820,545
26	OPT	Total 2018 budget- Work in Progress	160,070	-	-	-	-	-	-	-	-	-	-	160,070
27	OPT	Total 2018 budget- CIF Projects	47,475	-	-	-	-	-	-	-	-	-	-	47,475
Total CIP Budget (Current \$)			\$ 282,140	1,267,205	1,944,212	2,910,645	4,466,078	961,578	731,145	1,180,445	855,945	860,645	980,145	\$ 16,440,183
Annual Adjustment for Compounded Cost Escalator			1.00	1.03	1.06	1.09	1.13	1.16	1.19	1.23	1.27	1.30	1.34	
Annual Capital Spending Execution %			100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	
Final CIP Funding Level (Future \$)			\$ 282,140	1,305,221	2,062,614	3,180,540	5,026,610	1,114,733	873,025	1,451,798	1,084,286	1,122,947	1,317,233	\$ 18,821,148

Projection of Cash Inflows

Schedule 4

	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
1 Rate Revenue Growth Assumptions:											
2 Growth in Water Accounts	N/A	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%
3 Growth in Water Usage	N/A	1.96%	1.96%	-2.98%	1.96%	1.96%	1.96%	-2.99%	1.96%	1.96%	1.96%
4 Assumed Rate Revenue Increases:											
5 Assumed Water Rate Increase	0.00%	6.00%	6.00%	6.00%	6.00%	6.00%	0.00%	0.00%	0.00%	0.00%	0.00%
6 Rate Revenue:											
7 Water Rate Revenue	\$ 3,400,000	3,690,365	4,004,856	4,141,037	4,494,517	4,877,371	5,017,799	4,927,463	5,068,838	5,213,041	5,360,127
8 Total Rate Revenue	\$ 3,400,000	3,690,365	4,004,856	4,141,037	4,494,517	4,877,371	5,017,799	4,927,463	5,068,838	5,213,041	5,360,127
		9%	9%	3%	9%	9%	3%	-2%	3%	3%	3%
9 Other Operating Revenue:											
10 Capital Investment Fee ⁽¹⁾	\$ 402,820	423,203	444,617	467,114	490,750	515,582	541,671	569,079	597,875	628,127	659,910
11 Raw Water Acquisition Fee ⁽²⁾	296,886	311,909	327,691	344,273	361,693	379,995	399,222	419,423	440,646	462,942	486,367
12 Other Water Sales	110,000	92,337	92,337	92,337	92,337	92,337	92,337	92,337	92,337	92,337	92,337
13 Irrigation Water Sales	50,000	50,501	50,501	50,501	50,501	50,501	50,501	50,501	50,501	50,501	50,501
14 Availability Charges ⁽³⁾	400,000	489,292	461,600	433,353	404,542	375,154	345,179	314,604	283,417	251,607	219,161
15 Inclusion Fee	6,600	7,074	7,074	7,074	7,074	7,074	7,074	7,074	7,074	7,074	7,074
16 Customer Hookups	259,999	265,199	270,503	275,913	281,431	287,059	292,801	298,657	304,630	310,722	316,937
17 Penalty & Interest Delin Accts	14,000	13,185	13,185	13,185	13,185	13,185	13,185	13,185	13,185	13,185	13,185
18 Current Tax Interest	4,000	4,261	4,261	4,261	4,261	4,261	4,261	4,261	4,261	4,261	4,261
19 Other Revenue/Grants	50,000	57,105	57,105	57,105	57,105	57,105	57,105	57,105	57,105	57,105	57,105
20 Transfer From General Fund	340,000	340,000	340,000	340,000	340,000	340,000	340,000	340,000	340,000	340,000	340,000
21 Total Other Operating Revenue	\$ 1,934,305	2,054,065	2,068,873	2,085,116	2,102,879	2,122,253	2,143,335	2,166,226	2,191,031	2,217,862	2,246,838
22 Transfers In:											
23 Annual debt service payment - CIF	\$ -	-	-	-	-	36,564	36,564	36,564	36,564	36,564	36,564
24 Annual debt service payment - RWAF	-	-	-	-	-	36,564	36,564	36,564	36,564	36,564	36,564
25 Total Transfers In	\$ -	-	-	-	-	73,128	73,128	73,128	73,128	73,128	73,128
26 Interest											
27 Interest Income - Other	\$ 52,036	47,762	31,226	19,330	8,341	5,615	9,819	15,672	22,460	26,092	23,989
28 Interest Income - WRF	19,283	20,120	14,324	9,900	2,735	2,567	8,254	13,757	19,329	26,134	33,551
29 Interest Income - CIF	15,197	22,081	20,106	19,027	10,271	6,072	12,997	19,611	26,968	35,717	44,865
30 Interest on Delinquent Taxes	250	250	250	255	260	265	271	276	282	287	293
31 Interest from Cert. - Treas	-	-	-	-	-	-	-	-	-	-	-
32 Total Interest Income	\$ 86,766	90,214	65,907	48,512	21,607	14,520	31,340	49,317	69,038	88,230	102,698
33 TOTAL CASH INFLOWS	\$ 5,421,071	5,834,644	6,139,636	6,274,664	6,619,003	7,087,272	7,265,601	7,216,133	7,402,034	7,592,260	7,782,791

(1) Based on existing fee of \$2,658 per ERU in 2018 then escalate at 3% each year.

(2) Based on existing fee of \$1,959 per ERU in 2018 then escalate at 3% each year.

(3) Based on new availability charge of \$14.30 beginning in FY 2019.

Projection of Cash Outflows

Schedule 5

	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
1 Work in Progress											
2 Connections	\$ 220,999	225,419	229,927	234,526	239,216	244,001	248,881	253,858	258,935	264,114	269,396
3 Source of Supply											
4 Ditches	\$ 1,000	840	865	891	918	946	974	1,003	1,033	1,064	1,096
5 Reservoirs & Watershed	55,000	76,307	78,597	80,954	83,383	85,885	88,461	91,115	93,848	96,664	99,564
6 Raw Water Line - Jackson Mt	-	3,788	3,902	4,019	4,140	4,264	4,392	4,524	4,659	4,799	4,943
7 Raw Water Line - San Juan	-	-	-	-	-	-	-	-	-	-	-
8 Power Trujillo Booster	78,100	78,100	80,443	82,856	85,342	87,902	90,539	93,255	96,053	98,935	101,903
9 Power SJ River Booster	56,140	56,140	57,824	59,559	61,346	63,186	65,082	67,034	69,045	71,116	73,250
10 Power Lake Forest	6,000	5,101	5,254	5,411	5,574	5,741	5,913	6,091	6,273	6,462	6,655
11 Power Dutton Ditch	600	598	616	635	654	673	694	714	736	758	781
12 Water Treatment											
13 Health Insurance	\$ 32,250	30,570	31,487	32,432	33,404	34,407	35,439	36,502	37,597	38,725	39,887
14 Retirement	8,335	8,395	8,647	8,906	9,173	9,449	9,732	10,024	10,325	10,634	10,953
15 Insurance - General	8,025	8,280	8,529	8,785	9,048	9,320	9,599	9,887	10,184	10,489	10,804
16 Operator Salaries	204,130	208,213	214,459	220,893	227,520	234,345	241,375	248,617	256,075	263,757	271,670
17 Training	3,000	4,728	4,870	5,016	5,167	5,322	5,482	5,646	5,815	5,990	6,170
18 Vehicle Maintenance	2,815	4,188	4,314	4,444	4,577	4,714	4,856	5,001	5,151	5,306	5,465
19 Hatcher WTP Fuel & Power	145,000	150,707	155,228	159,885	164,682	169,622	174,711	179,952	185,351	190,911	196,639
20 Hatcher Wtr Plant Chemicals/Lab	102,000	135,000	139,050	143,222	147,518	151,944	156,502	161,197	166,033	171,014	176,144
21 Hatcher WTP Maintenance	96,000	75,000	77,250	79,568	81,955	84,413	86,946	89,554	92,241	95,008	97,858
22 Payroll Exp - FICA/Unemployment	16,445	13,481	13,885	14,302	14,731	15,173	15,628	16,097	16,580	17,077	17,589
23 Stevens WTP Fuel & Power	-	-	-	-	-	-	-	-	-	-	-
24 Snowball WTP Fuel & Power	19,000	19,330	19,909	20,507	21,122	21,756	22,408	23,081	23,773	24,486	25,221
25 Snowball WTP Chemicals/Lab	55,000	42,365	43,636	44,945	46,293	47,682	49,113	50,586	52,104	53,667	55,277
26 Snowball WTP Maintenance	85,000	44,984	43,674	44,984	46,334	47,724	49,156	50,630	52,149	53,714	55,325
27 San Juan WTP Fuel & Power	30,000	28,259	29,107	29,980	30,880	31,806	32,760	33,743	34,755	35,798	36,872
28 San Juan WTP Chemicals/Lab	129,000	132,870	136,856	140,962	145,191	149,546	154,033	158,654	163,413	168,316	173,365
29 San Juan WTP Maintenance	80,800	50,000	51,500	53,045	54,636	56,275	57,964	59,703	61,494	63,339	65,239
30 Water Distribution											
31 Health Insurance	\$ 69,350	64,140	66,064	68,046	70,087	72,190	74,356	76,586	78,884	81,250	83,688
32 Uniforms	10,540	11,079	11,411	11,754	12,106	12,469	12,844	13,229	13,626	14,035	14,456
33 Retirement	17,675	16,993	17,503	18,028	18,569	19,126	19,700	20,291	20,900	21,527	22,173
34 Fuel & Power Mission Booster	700	644	663	683	704	725	747	769	792	816	840
35 Fuel & Power Pump Stations	32,000	31,220	32,157	33,121	34,115	35,139	36,193	37,279	38,397	39,549	40,735
36 Town Fill Station - Fuel & P	1,600	1,435	1,478	1,523	1,568	1,616	1,664	1,714	1,765	1,818	1,873
37 Town Fill Station - Maint	700	272	280	288	297	306	315	324	334	344	354
38 Insurance - General	17,020	16,466	16,960	17,469	17,993	18,533	19,089	19,662	20,251	20,859	21,485
39 Lease Expense	-	-	-	-	-	-	-	-	-	-	-
40 Trails Fill Station - Fuel & P	1,600	1,201	1,237	1,274	1,312	1,352	1,392	1,434	1,477	1,521	1,567
41 Trails & Lyn Fill Stations - Maint	500	655	674	694	715	737	759	782	805	829	854
42 Water Tank Maintenance	170,000	137,671	141,801	146,055	150,437	154,950	159,598	164,386	169,318	174,397	179,629
43 Water Line Maintenance	367,000	400,000	412,000	424,360	437,091	450,204	463,710	477,621	491,950	506,708	521,909
44 Fire Hydrant Maintenance	10,000	10,000	10,300	10,609	10,927	11,255	11,593	11,941	12,299	12,668	13,048
45 Distribution Salaries	320,585	326,997	336,807	346,911	357,318	368,038	379,079	390,451	402,165	414,230	426,657
46 Payroll Exp - FICA/Unemployment	24,815	24,485	25,219	25,976	26,755	27,558	28,384	29,236	30,113	31,016	31,947
47 Vehicle Maintenance	9,935	8,941	9,210	9,486	9,770	10,063	10,365	10,676	10,997	11,327	11,666
48 Training	4,600	2,462	2,536	2,612	2,691	2,771	2,855	2,940	3,028	3,119	3,213
49 Maintenance											
50 Health Insurance	\$ 6,120	6,203	6,389	6,581	6,778	6,982	7,191	7,407	7,629	7,858	8,094
51 Retirement	2,010	2,097	2,160	2,225	2,292	2,361	2,431	2,504	2,580	2,657	2,737
52 Insurance - General	1,940	1,739	1,791	1,845	1,900	1,957	2,016	2,076	2,139	2,203	2,269

Projection of Cash Outflows

Schedule 5

	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
53 Operating Supplies	15,000	15,775	16,248	16,735	17,237	17,754	18,287	18,836	19,401	19,983	20,582
54 Building Maintenance	2,000	2,782	2,865	2,951	3,040	3,131	3,225	3,321	3,421	3,524	3,629
55 Maintenance Salaries	33,500	34,170	35,195	36,251	37,338	38,459	39,612	40,801	42,025	43,286	44,584
56 Payroll Exp - FICA/Unemployment	2,665	2,862	2,948	3,037	3,128	3,222	3,318	3,418	3,520	3,626	3,735
57 Utilities - Maintenance Bldg	4,100	4,951	5,100	5,253	5,410	5,573	5,740	5,912	6,089	6,272	6,460
58 Vehicle Maintenance	715	759	781	805	829	854	879	906	933	961	990
59 Equipment Maintenance	15,040	15,645	16,114	16,598	17,096	17,609	18,137	18,681	19,241	19,819	20,413
60 Gasoline & Oil	45,000	33,650	34,659	35,699	36,770	37,873	39,009	40,179	41,385	42,626	43,905
61 Tools and Small Equipment	7,310	4,821	4,965	5,114	5,268	5,426	5,589	5,756	5,929	6,107	6,290
62 Administration											
63 Compilation and Audit	\$ 2,860	3,030	3,121	3,214	3,311	3,410	3,513	3,618	3,726	3,838	3,953
64 Employee Miscellaneous	2,700	2,864	2,950	3,039	3,130	3,224	3,321	3,420	3,523	3,629	3,737
65 Health Insurance	28,050	29,135	30,010	30,910	31,837	32,792	33,776	34,789	35,833	36,908	38,015
66 Retirement	8,360	9,221	9,498	9,783	10,076	10,379	10,690	11,011	11,341	11,681	12,032
67 Insurance - General	80,350	82,502	84,977	87,526	90,152	92,857	95,642	98,512	101,467	104,511	107,646
68 Legal Services	2,720	819	844	869	895	922	949	978	1,007	1,038	1,069
69 Office Supplies	21,000	21,377	22,018	22,679	23,359	24,060	24,782	25,525	26,291	27,080	27,892
70 Outside Services	8,500	-	-	-	-	-	-	-	-	-	-
71 Publications	1,900	948	977	1,006	1,036	1,067	1,100	1,132	1,166	1,201	1,238
72 Maintenance of Office Building	9,700	3,894	4,010	4,131	4,255	4,382	4,514	4,649	4,789	4,932	5,080
73 Landscaping	2,380	1,715	1,767	1,820	1,875	1,931	1,989	2,048	2,110	2,173	2,238
74 Administrative Salaries	140,475	143,285	147,583	152,011	156,571	161,268	166,106	171,089	176,222	181,509	186,954
75 Payroll Tax /Vac/Sick Leave	10,475	23,503	24,208	24,935	25,683	26,453	27,247	28,064	28,906	29,773	30,666
76 Telephone	12,670	10,213	10,520	10,835	11,160	11,495	11,840	12,195	12,561	12,938	13,326
77 Utilities	3,300	1,916	1,973	2,033	2,094	2,156	2,221	2,288	2,356	2,427	2,500
78 Trash Removal	2,100	1,787	1,840	1,895	1,952	2,011	2,071	2,133	2,197	2,263	2,331
79 Vehicle Maintenance	700	882	908	935	963	992	1,022	1,053	1,084	1,117	1,150
80 Dues and Permits	7,500	6,361	6,552	6,749	6,951	7,160	7,374	7,596	7,823	8,058	8,300
81 Training	3,305	2,402	2,474	2,548	2,625	2,703	2,784	2,868	2,954	3,043	3,134
82 Inclusion Expense	680	1,082	1,115	1,148	1,182	1,218	1,254	1,292	1,331	1,371	1,412
83 Computer Support & Upgrades	32,580	28,162	29,006	29,877	30,773	31,696	32,647	33,626	34,635	35,674	36,744

Projection of Cash Outflows

Schedule 5

	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>
84 <u>Billing and Personnel</u>											
85 Bad Debts	\$ 50,000	30,000	30,900	31,827	32,782	33,765	34,778	35,822	36,896	38,003	39,143
86 Health Insurance	35,225	33,329	34,329	35,359	36,420	37,512	38,638	39,797	40,991	42,220	43,487
87 Retirement	5,440	4,689	4,830	4,975	5,124	5,278	5,436	5,599	5,767	5,940	6,118
88 Insurance - General	245	193	199	205	211	217	224	231	237	245	252
89 Data Processing	35,000	33,705	34,716	35,757	36,830	37,935	39,073	40,245	41,453	42,696	43,977
90 Data Processing Salaries	95,190	97,094	100,007	103,007	106,097	109,280	112,558	115,935	119,413	122,996	126,685
91 Payroll Exp - FICA/Unemployment	6,645	5,987	6,166	6,351	6,542	6,738	6,940	7,148	7,363	7,584	7,811
92 Training	2,325	-	-	-	-	-	-	-	-	-	-
93 Postage	17,000	17,871	18,407	18,959	19,528	20,114	20,717	21,339	21,979	22,638	23,317
94 Additional Personnel	17,000	17,340	-	-	-	-	-	-	-	-	-
95 Sub-Total Operations & Maintenance Expenses	\$ 3,275,034	3,195,503	3,271,253	3,367,092	3,465,759	3,567,340	3,671,920	3,779,589	3,890,438	4,004,561	4,122,057
96 O&M Execution Percentage	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
97 Total Operations & Maintenance Expenses	\$ 3,275,034	3,195,503	3,271,253	3,367,092	3,465,759	3,567,340	3,671,920	3,779,589	3,890,438	4,004,561	4,122,057
98 <u>Long-Term Debt Service Payments:</u>											
99 Existing Debt Service	\$ 1,405,485	1,429,425	1,425,909	1,426,916	1,427,250	1,426,215	1,384,605	851,428	858,735	1,402,028	1,404,780
100 Cumulative New Debt Service	-	-	-	-	109,691	109,691	109,691	109,691	109,691	109,691	109,691
101 Total Long-Term Debt Service Payments	\$ 1,405,485	1,429,425	1,425,909	1,426,916	1,536,942	1,535,907	1,494,296	961,119	968,426	1,511,719	1,514,471
102 TOTAL CASH OUTFLOWS	\$ 4,680,519	4,624,928	4,697,163	4,794,007	5,002,701	5,103,246	5,166,216	4,740,708	4,858,864	5,516,280	5,636,528

Operating Cost Escalation Factors

Schedule 6

		<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>
59	Equipment Maintenance	Default Inflation Factor	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
60	Gasoline & Oil	Default Inflation Factor	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
61	Tools and Small Equipment	Default Inflation Factor	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
62	Administration										
63	Compilation and Audit	Default Inflation Factor	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
64	Employee Miscellaneous	Default Inflation Factor	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
65	Health Insurance	Default Inflation Factor	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
66	Retirement	Default Inflation Factor	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
67	Insurance - General	Default Inflation Factor	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
68	Legal Services	Default Inflation Factor	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
69	Office Supplies	Default Inflation Factor	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
70	Outside Services	Default Inflation Factor	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
71	Publications	Default Inflation Factor	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
72	Maintenance of Office Building	Default Inflation Factor	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
73	Landscaping	Default Inflation Factor	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
74	Administrative Salaries	Personal Services	2.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
75	Payroll Tax /Vac/Sick Leave	Default Inflation Factor	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
76	Telephone	Default Inflation Factor	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
77	Utilities	Default Inflation Factor	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
78	Trash Removal	Default Inflation Factor	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
79	Vehicle Maintenance	Default Inflation Factor	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
80	Dues and Permits	Default Inflation Factor	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
81	Training	Default Inflation Factor	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
82	Inclusion Expense	Default Inflation Factor	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
83	Computer Support & Upgrades	Default Inflation Factor	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
84	Billing and Personnel										
85	Bad Debts	Default Inflation Factor	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
86	Health Insurance	Default Inflation Factor	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
87	Retirement	Default Inflation Factor	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
88	Insurance - General	Default Inflation Factor	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
89	Data Processing	Default Inflation Factor	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
90	Data Processing Salaries	Personal Services	2.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
91	Payroll Exp - FICA/Unemployment	Default Inflation Factor	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
92	Training	Default Inflation Factor	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
93	Postage	Default Inflation Factor	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
94	Additional Personnel	Personal Services	2.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%

(1) Customer growth includes 2% annual growth + annual escalation of 3% each year.

FINANCIAL ANALYSIS AND MANAGEMENT SYSTEM (FAMS) SUMMARY



ROLL CALC SAVE

PAWSD - Water Fund

	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Cumulative Change	
												FY 2023	FY 2028
Override	0.00%	6.00%	6.00%	6.00%	6.00%	6.00%							
Water Rate Plan	0.00%	6.00%	6.00%	6.00%	6.00%	6.00%	0.00%	0.00%	0.00%	0.00%	0.00%	33.74%	33.74%
	0.00%	6.00%	6.00%	6.00%	6.00%	6.00%	0.00%	0.00%	0.00%	0.00%	0.00%	33.74%	33.74%
Senior DSC	1.53	1.85	2.01	2.04	2.21	2.42	2.54	3.95	4.00	2.51	2.56		
	1.63	1.85	2.01	2.04	2.21	2.42	2.54	3.95	4.00	2.51	2.56		2,658
All DSC	0.00	0.00	0.00	0.00	2.05	2.24	2.36	3.60	3.55	2.32	2.37		
Last Plan	0.00	0.00	0.00	0.00	2.05	2.24	2.36	3.60	3.55	2.32	2.37		1,959

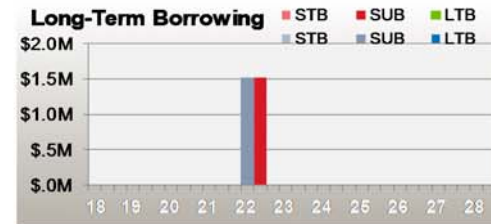
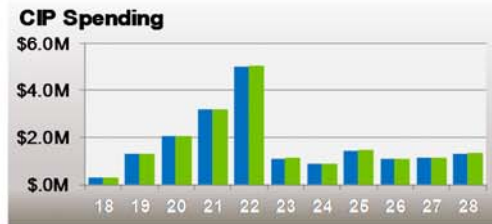
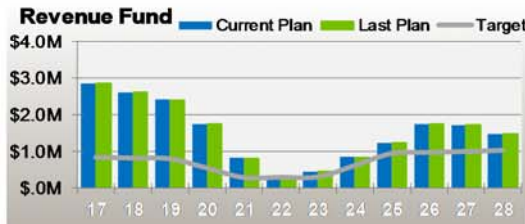
Scenario Management

CIP \$ Redistrib	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
CIP Execution %	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Oper Reserve Mos	3	3	2	1	1	1	2	3	3	3	3	3	3
CIP Lines R&R (\$500k Annually)	100%	50%	50%	50%	50%	50%	50%	100%	100%	100%	100%	100%	100%
CIF Escalation		3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%
RWAF Escalation		3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%

↑ Insert New Panel Controls Above this Row ↑

Water	\$36.16	\$38.32	\$40.62	\$43.04	\$45.62	\$48.36	\$48.36	\$48.36	\$48.36	\$48.36	\$48.36	\$48.36	\$48.36
	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Avg Bill (5,000 gal)	\$36.16	\$38.32	\$40.62	\$43.04	\$45.62	\$48.36	\$48.36	\$48.36	\$48.36	\$48.36	\$48.36	\$48.36	\$48.36
	\$36.16	\$38.32	\$40.62	\$43.04	\$45.62	\$48.36	\$48.36	\$48.36	\$48.36	\$48.36	\$48.36	\$48.36	\$48.36

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Forecast of Net Revenues and Debt Service Coverage

Schedule 8

	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Rate Revenue Subject to Growth & Rate Adjustments											
1 Water Base Rate Revenue	\$ 3,400,000	3,400,000	3,690,365	4,004,856	4,141,037	4,494,517	4,877,371	5,017,799	4,927,463	5,068,838	5,213,041
2 Additional Rate Revenue From Growth	-	102,276	110,147	(75,374)	123,614	133,140	140,428	(90,336)	141,375	144,203	147,087
3 Water Rate Adjustments	0.00%	6.00%	6.00%	6.00%	6.00%	6.00%	0.00%	0.00%	0.00%	0.00%	0.00%
4 Additional Rate Revenue From Rate Adjustment	-	210,137	228,031	235,769	255,879	277,659	-	-	-	-	-
5 Price Elasticity Adjustment	-	(22,048)	(23,687)	(24,213)	(26,012)	(27,945)	-	-	-	-	-
6 Total Rate Revenue Subject to Growth & Rate Adjustments	\$ 3,400,000	3,690,365	4,004,856	4,141,037	4,494,517	4,877,371	5,017,799	4,927,463	5,068,838	5,213,041	5,360,127
Plus: Other Operating Revenues											
7 Other Operating Revenues	\$ 1,234,599	1,318,954	1,296,565	1,273,729	1,250,436	1,226,677	1,202,442	1,177,724	1,152,510	1,126,793	1,100,561
9 Equals: Total Operating Revenue	\$ 4,634,599	5,009,319	5,301,421	5,414,766	5,744,953	6,104,048	6,220,241	6,105,186	6,221,348	6,339,833	6,460,688
Less: Operating Expenses											
10 Personal Services	\$ (810,880)	(827,098)	(834,050)	(859,072)	(884,844)	(911,389)	(938,731)	(966,893)	(995,900)	(1,025,777)	(1,056,550)
12 Fixed O&M Expenses	(2,464,154)	(2,368,405)	(2,437,203)	(2,508,020)	(2,580,915)	(2,655,950)	(2,733,189)	(2,812,696)	(2,894,538)	(2,978,785)	(3,065,507)
12 Equals: Net Operating Income	\$ 1,359,565	1,813,816	2,030,168	2,047,674	2,279,194	2,536,708	2,548,321	2,325,598	2,330,910	2,335,272	2,338,631
Plus: Non-Operating Income/(Expense)											
13 Interest Income	\$ 86,766	90,214	65,907	48,512	21,607	14,520	31,340	49,317	69,038	88,230	102,698
15 CIF (CAPITAL INVESTMENT FEE)	402,820	423,203	444,617	467,114	490,750	515,582	541,671	569,079	597,875	628,127	659,910
16 RWAF (RAW WATER ACQUISITION FEE)	296,886	311,909	327,691	344,273	361,693	379,995	399,222	419,423	440,646	462,942	486,367
17 Transfers In	-	-	-	-	-	73,128	73,128	73,128	73,128	73,128	73,128
18 Equals: Net Income	\$ 2,146,037	2,639,142	2,868,383	2,907,573	3,153,244	3,519,932	3,593,681	3,436,544	3,511,596	3,587,699	3,660,734
Less: Revenues Excluded From Coverage Test											
20 Transfers In	\$ -	-	-	-	-	(73,128)	(73,128)	(73,128)	(73,128)	(73,128)	(73,128)
21 Equals: Net Income Available For Debt Service	\$ 2,146,037	2,639,142	2,868,383	2,907,573	3,153,244	3,446,805	3,520,554	3,363,417	3,438,469	3,514,571	3,587,607
Senior-Lien Debt Service Coverage Test											
22 Existing Debt Service	\$ 1,405,485	1,429,425	1,425,909	1,426,916	1,427,250	1,426,215	1,384,605	851,428	858,735	1,402,028	1,404,780
24 Cumulative New Debt Service	-	-	-	-	-	-	-	-	-	-	-
25 Total Senior-Lien Debt Service	\$ 1,405,485	1,429,425	1,425,909	1,426,916	1,427,250	1,426,215	1,384,605	851,428	858,735	1,402,028	1,404,780
26 Calculated Debt Service Coverage	1.25 Req. 1.53	1.85	2.01	2.04	2.21	2.42	2.54	3.95	4.00	2.51	2.55
27 Net Income Available For Debt Service	\$ 2,146,037	2,639,142	2,868,383	2,907,573	3,153,244	3,446,805	3,520,554	3,363,417	3,438,469	3,514,571	3,587,607
28 Less: Total Conventional Debt Service & Coverage	(1,405,485)	(1,429,425)	(1,425,909)	(1,426,916)	(1,427,250)	(1,426,215)	(1,384,605)	(851,428)	(858,735)	(1,402,028)	(1,404,780)
29 Equals: Net Income Available For Subordinate Debt Service	\$ 740,552	1,209,716	1,442,473	1,480,657	1,725,994	2,020,589	2,135,949	2,511,989	2,579,734	2,112,544	2,182,827
30 Total Subordinate Debt Service	\$ -	-	-	-	109,691	109,691	109,691	109,691	109,691	109,691	109,691
31 Calculated Subordinate Debt Coverage	1.00 Req. -	-	-	-	2.05	2.24	2.36	3.50	3.55	2.32	2.37
Cash Flow Test											
32 Net Income Available For Debt Service	\$ 2,146,037	\$ 2,639,142	\$ 2,868,383	\$ 2,907,573	\$ 3,153,244	\$ 3,446,805	\$ 3,520,554	\$ 3,363,417	\$ 3,438,469	\$ 3,514,571	\$ 3,587,607
34 Additional Revenue Needed for Coverage/Fund Balance	-	-	-	-	-	-	-	-	-	-	-
35 Transfers In	-	-	-	-	-	73,128	73,128	73,128	73,128	73,128	73,128
36 Total Senior-Lien Debt Service	(1,405,485)	(1,429,425)	(1,425,909)	(1,426,916)	(1,427,250)	(1,426,215)	(1,384,605)	(851,428)	(858,735)	(1,402,028)	(1,404,780)
37 Total Subordinate Debt Service	-	-	-	-	(109,691)	(109,691)	(109,691)	(109,691)	(109,691)	(109,691)	(109,691)
38 CIF & RWAF	(699,706)	(735,111)	(772,308)	(811,387)	(852,443)	(895,577)	(940,893)	(988,502)	(1,038,520)	(1,091,069)	(1,146,278)
39 Net Cash Flow	\$ 40,846	474,605	670,165	669,270	763,859	1,088,449	1,158,492	1,486,923	1,504,650	984,910	999,985
Unrestricted Working Capital Reserve Fund Test											
40 Balance At Beginning Of Fiscal Year	\$ 2,859,400	2,618,106	2,409,498	1,754,023	823,337	288,813	459,920	849,228	1,240,432	1,754,200	1,724,689
42 Reserve Fund Balance Used For Cash Flow Deficit	-	-	-	-	-	-	-	-	-	-	-
43 Cash Flow Surplus/(Deficit)	40,846	474,605	670,165	669,270	763,859	1,088,449	1,158,492	1,486,923	1,504,650	984,910	999,985
44 Projects Designated to be Paid with Cash	-	-	-	-	(160,192)	-	-	-	-	-	-
45 Projects Paid with Reserve Funds	(282,140)	(683,213)	(1,325,640)	(1,599,956)	(1,138,191)	(917,343)	(769,183)	(1,095,719)	(990,882)	(1,014,421)	(1,250,843)
46 Balance At End Of Fiscal Year	\$ 2,618,106	2,409,498	1,754,023	823,337	288,813	459,920	849,228	1,240,432	1,754,200	1,724,689	1,473,831
47 Minimum Working Capital Reserve Target	818,758	798,876	545,209	280,591	288,813	297,278	611,987	944,897	972,609	1,001,140	1,030,514
48 Excess Working Capital Above Target	\$ 1,799,347	\$ 1,610,622	\$ 1,208,814	\$ 542,746	\$ 0	\$ 162,641	\$ 237,241	\$ 295,535	\$ 781,590	\$ 723,549	\$ 443,317

Long-Term Borrowing Projections

Schedule 10

	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>
Term (Years)	20	20	20	20	20	20	20	20	20	20	20
Interest Rate	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%
Sources of Funds											
Par Amount	\$ -	-	-	-	1,631,930	-	-	-	-	-	-
Uses of Funds											
Proceeds	\$ -	-	-	-	1,522,239	-	-	-	-	-	-
Cost of Issuance	-	-	-	-	-	-	-	-	-	-	-
Debt Service Reserve	-	-	-	-	-	-	-	-	-	-	-
2.00% of Par											
1 of Debt Service											
Total Uses	\$ -	-	-	-	-	-	-	-	-	-	-
1 Year Interest	\$ -	-	-	-	48,958	-	-	-	-	-	-
Annual Debt Service	\$ -	-	-	-	109,691	-	-	-	-	-	-
Total Debt Service	\$ -	-	-	-	2,193,826	-	-	-	-	-	-
Cumulative Annual New Debt Service (1)	\$ -	-	-	-	109,691	109,691	109,691	109,691	109,691	109,691	109,691

(1) Interest-only payment required in first year of issuance.

Funding Summary by Fund

Schedule 11

	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>
<u>CIF (CAPITAL INVESTMENT FEE)</u>											
Balance at the Beginning of the Fiscal Year	\$ 598,451	1,001,271	1,323,087	1,357,743	1,179,149	190,286	619,271	1,113,607	1,501,174	2,094,506	2,667,790
Additional Annual Revenues	402,820	423,203	444,617	467,114	490,750	552,146	578,234	605,643	634,438	664,691	696,474
Less: Payment of Debt Service	-	-	-	-	-	-	-	-	-	-	-
Subtotal	\$ 1,001,271	1,424,473	1,767,704	1,824,857	1,669,899	742,432	1,197,506	1,719,250	2,135,612	2,759,197	3,364,264
Less: Restricted Funds	-	-	-	-	-	-	-	-	-	-	-
Total Amount Available for Projects	\$ 1,001,271	1,424,473	1,767,704	1,824,857	1,669,899	742,432	1,197,506	1,719,250	2,135,612	2,759,197	3,364,264
Amount Paid for Projects	-	(101,386)	(409,961)	(645,709)	(1,479,612)	(123,161)	(83,899)	(218,076)	(41,107)	(91,406)	(50,061)
Subtotal	\$ 1,001,271	1,323,087	1,357,743	1,179,149	190,286	619,271	1,113,607	1,501,174	2,094,506	2,667,790	3,314,203
Add Back: Restricted Funds	-	-	-	-	-	-	-	-	-	-	-
Plus: Interest Earnings	15,197	22,081	20,106	19,027	10,271	6,072	12,997	19,611	26,968	35,717	44,865
Less: Interest Allocated to Cash Flow	(15,197)	(22,081)	(20,106)	(19,027)	(10,271)	(6,072)	(12,997)	(19,611)	(26,968)	(35,717)	(44,865)
Balance at End of Fiscal Year	\$ 1,001,271	1,323,087	1,357,743	1,179,149	190,286	619,271	1,113,607	1,501,174	2,094,506	2,667,790	3,314,203
<u>RWAF (RAW WATER ACQUISITION FEE)</u>											
Balance at the Beginning of the Fiscal Year	\$ 866,435	1,163,322	954,608	955,287	364,684	-	342,329	758,172	1,076,154	1,501,068	1,983,455
Additional Annual Revenues	296,886	311,909	327,691	344,273	361,693	416,558	435,786	455,987	477,209	499,506	522,931
Less: Payment of Debt Service	-	-	-	-	-	-	-	-	-	-	-
Subtotal	\$ 1,163,322	1,475,231	1,282,300	1,299,559	726,377	416,558	778,115	1,214,159	1,553,364	2,000,574	2,506,386
Less: Restricted Funds	-	-	-	-	-	-	-	-	-	-	-
Total Amount Available for Projects	\$ 1,163,322	1,475,231	1,282,300	1,299,559	726,377	416,558	778,115	1,214,159	1,553,364	2,000,574	2,506,386
Amount Paid for Projects	-	(520,622)	(327,013)	(934,875)	(726,377)	(74,229)	(19,943)	(138,004)	(52,296)	(17,119)	(16,329)
Subtotal	\$ 1,163,322	954,608	955,287	364,684	-	342,329	758,172	1,076,154	1,501,068	1,983,455	2,490,057
Add Back: Restricted Funds	-	-	-	-	-	-	-	-	-	-	-
Plus: Interest Earnings	19,283	20,120	14,324	9,900	2,735	2,567	8,254	13,757	19,329	26,134	33,551
Less: Interest Allocated to Cash Flow	(19,283)	(20,120)	(14,324)	(9,900)	(2,735)	(2,567)	(8,254)	(13,757)	(19,329)	(26,134)	(33,551)
Balance at End of Fiscal Year	\$ 1,163,322	954,608	955,287	364,684	-	342,329	758,172	1,076,154	1,501,068	1,983,455	2,490,057
<u>REVENUE FUND</u>											
Balance at the Beginning of the Fiscal Year	\$ 2,859,400	2,618,106	2,409,498	1,754,023	823,337	288,813	459,920	849,228	1,240,432	1,754,200	1,724,689
Additional Annual Revenues	40,846	474,605	670,165	669,270	763,859	1,088,449	1,158,492	1,486,923	1,504,650	984,910	999,985
Less: Payment of Debt Service	-	-	-	-	(160,192)	-	-	-	-	-	-
Subtotal	\$ 2,900,246	3,092,711	3,079,663	2,423,293	1,427,004	1,377,262	1,618,411	2,336,151	2,745,082	2,739,110	2,724,674
Less: Restricted Funds	(818,758)	(798,876)	(545,209)	(280,591)	(288,813)	(297,278)	(611,987)	(944,897)	(972,609)	(1,001,140)	(1,030,514)
Total Amount Available for Projects	\$ 2,081,487	2,293,835	2,534,454	2,142,702	1,138,191	1,079,984	1,006,425	1,391,254	1,772,473	1,737,970	1,694,160
Amount Paid for Projects	(282,140)	(683,213)	(1,325,640)	(1,599,956)	(1,138,191)	(917,343)	(769,183)	(1,095,719)	(990,882)	(1,014,421)	(1,250,843)
Subtotal	\$ 1,799,347	1,610,622	1,208,814	542,746	0	162,641	237,241	295,535	781,590	723,549	443,317
Add Back: Restricted Funds	818,758	798,876	545,209	280,591	288,813	297,278	611,987	944,897	972,609	1,001,140	1,030,514
Plus: Interest Earnings	52,036	47,762	31,226	19,330	8,341	5,615	9,819	15,672	22,460	26,092	23,989
Less: Interest Allocated to Cash Flow	(52,036)	(47,762)	(31,226)	(19,330)	(8,341)	(5,615)	(9,819)	(15,672)	(22,460)	(26,092)	(23,989)
Balance at End of Fiscal Year	\$ 2,618,106	2,409,498	1,754,023	823,337	288,813	459,920	849,228	1,240,432	1,754,200	1,724,689	1,473,831