



City of
PATTERSON
California

Draft Solid Waste Rate Study

March 5, 2019



BARTLE WELLS ASSOCIATES
INDEPENDENT PUBLIC FINANCE ADVISORS



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March 4, 2019

Mike Willet, Director of Public Works
City of Patterson | Public Works Department
1 Plaza, 2nd Floor | Patterson, CA 95363

Re: Solid Waste Rate Study

Bartle Wells Associates is pleased to submit to the City of Patterson the attached draft Solid Waste Rate Study. The study presents BWA's analysis of the operating and non-operating expenses of solid waste services and provides a ten-year cash flow projection.

BWA finds that the rates and charges proposed in our report to be based on the cost of service, follow generally accepted rate design criteria, and adhere to the substantive requirements of Proposition 218. BWA believes that the proposed rates are fair and reasonable to the City's customers.

We enjoyed working with you on the rate study and appreciate the assistance of Shari Strain and other City staff throughout the project. Please contact us if you ever have any future questions about this study and the rate recommendations.

Yours truly,

Doug Dove, CIPFA
Principal

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1 INTRODUCTION

1.1 Background

The City of Patterson (the City) is a general law City located in western Stanislaus County with a population of approximately 22,730. The City provides solid waste collection and disposal services to 6,300 customers. The solid waste service is accounted for as a self-supporting enterprise fund; revenues are derived primarily from utility service charges and must be adequate to fund operating and capital needs.

The City retained Bartle Wells Associates to develop a long-term financial plan and 5-year rate recommendations for the solid waste enterprise (Enterprise). The most recent rate study was completed in 2014 and the City last increased the solid waste rates this year. The major objectives of this study include:

- Ensuring the continued financial health and stability of the City's Enterprise;
- Developing a projection of revenue requirements for the Enterprise;
- Recommending rates which meet these revenue requirements;
- Have gradual, predictable rate increases to the extent possible, to minimize the annual impact on ratepayers.
- Maintaining equity among all users of the system and ensure compliance with all legal requirements such as Proposition 218.

1.2 Solid Waste System Overview

1.2.1 Solid Waste Customers

The City operates and maintains a solid waste enterprise that serves 6,300 permanent and part-time customers, 96% of which are residential. In addition to residential curbside services, the City offers commercial can and dumpster services.

1.2.2 Solid Waste System

The City contracts with Bertolotti to collect and dispose of its customer's solid waste. The City has a contract with Stanislaus County to use its solid waste disposal sites.

2 METHODOLOGY

2.1 Use of Generally Accepted Rate-Making Principles

The rates developed in this study use a straightforward methodology to establish an equitable system of fixed and variable charges that recover the cost of providing service and fairly apportion costs to each rate component. The rates were developed using generally accepted cost-based principles and methodologies.

In reviewing the City's rates and finances, BWA used the following criteria in developing our recommendations:

- 1) *Revenue Sufficiency*: Rates should recover the annual cost of service and provide revenue stability.
- 2) *Rate Impact*: While rates are calculated to generate sufficient revenue to cover operating and capital costs, they should be designed to minimize, as much as possible, the impacts on ratepayers.
- 3) *Equitable*: Rates should be fairly allocated among all customer classes based on their estimated demand characteristics. Each user class only pays its proportionate share.
- 4) *Practical*: Rates should be simple in form and, therefore, adaptable to changing conditions, easy to administer and easy to understand.

2.2 Proposition 218

Utility rates are subject to the procedural and substantive requirements as set forth in Proposition 218. Proposition 218 was adopted by California voters in 1996 and added Articles 13C and 13D to the California Constitution. Article 13D, Section 6 governs property-related charges, which the California Supreme Court subsequently ruled includes ongoing utility service charges such as water, sewer, and garbage rates. Article 13D, Section 6 establishes a) procedural requirements for imposing or increasing property-related charges, and b) substantive requirements for those charges. Article 13D also requires voter approval for new or increased property-related charges but exempts from this voting requirement rates for water, sewer, and garbage service. The substantive requirements of Article 13D, Section 6 require the City's utility rates to meet the following conditions:

- Revenues derived from the fee or charge shall not exceed the funds required to provide the property related service.
- Revenues derived from the fee or charge shall not be used for any purpose other than that for which the fee or charge was imposed.

- The amount of a fee or charge imposed upon any parcel or person as an incident of property ownership shall not exceed the proportional cost of the service attributable to the parcel.
- No fee or charge may be imposed for a service unless that service is actually used by, or immediately available to, the owner of the property in question.
- No fee or charge may be imposed for general governmental services, such as police or fire services, where the service is available to the public at large in substantially the same manner as it is to property owners.

The procedural requirements of Proposition 218 for all utility rate increases are as follows:

- **Noticing Requirement:** The City must mail a notice of proposed rate increases to all affected property owners. The notice must specify the basis of the fee, the reason for the fee, and the date/time/location of a public rate hearing at which the proposed rates will be considered/adopted.
- **Public Hearing:** The City must hold a public hearing prior to adopting the proposed rate increases. The public hearing must be held not less than 45 days after the required notices are mailed.
- **Rate Increases Subject to Majority Protest:** At the public hearing, the proposed rate increases are subject to majority protest. If more than 50% of affected property owners submit written protests against the proposed rate increases, the increases cannot be adopted.

3 SOLID WASTE FINANCES & RATES

3.1 Solid Waste Financial Overview

Bartle Wells Associates conducted an independent evaluation of the City’s solid waste enterprise finances. Key observations include:

- Solid waste rates have continued to gradually increase since 2014 based on the previous rate study. This has helped the City maintain a strong financial position.
- Total solid waste reserves at the beginning of FY 2018/19 were \$1.0 million and are projected to remain at \$1.0 million at the end of the fiscal year. However, beginning in FY 2019/20 the City will begin operating at a deficit without rate increases.
- Solid waste rates are determined based on revenue requirements that are developed by taking into account projected expenses as well as minimum reserve targets for each year.

3.2 Current Annual Solid Waste Rates

The following table shows the City’s current annual solid waste rates. Charges are collected annually on the property tax roll.

Table 1 - Current Rates

City of Patterson Current Refuse Rates		
Class	Description	Current Rates
GA21	2 YD BIN P/U 1X	\$114.49
GA22	2 YD BIN P/U 2X	228.96
GA31	3 YD BIN P/U 1X	171.74
GA32	3 YD BIN P/U 2X	343.45
GA41	4 YD BIN P/U 1X	228.96
GA42	4 YD BIN P/U 2X	457.94
GA61	6 YD BIN P/U 1X	343.45
GA62	6 YD BIN P/U 2X	686.90
GA82	7 TOTE IN GATE P/U	32.94
GAC1	COMMERCIAL TOTE 1-90	32.94
GAC2	COMMERCIAL TOTE 2-90	65.90
GAR1	RESIDENTIAL TOTE 1-90	32.94
GAR3	SENIOR RATE TOTE 1-90	22.94
GREE	EXTRA GREEN TOTE ONLY	5.34

3.3 Current Solid Waste Accounts

The following table shows the current number of solid waste accounts. The number of customers is expected to increase by 1% annually.

Table 2 – Patterson Customers

Class	Size	Frequency	FY 2018/19
GA21	2 Yd Bin	Pickup 1x	54
GA22	2 Yd Bin	Pickup 2x	4
GA31	3 Yd Bin	Pickup 1x	14
GA32	3 Yd Bin	Pickup 2x	11
GA41	4 Yd Bin	Pickup 1x	24
GA42	4 Yd Bin	Pickup 2x	25
GA61	6 Yd Bin	Pickup 1x	7
GA62	6 Yd Bin	Pickup 2x	13
GA67	3 Yd Bin & 4 Yd Bin	Pickup 1x	
GA69	<u>3 Yd Bin & 4 Yd Bin</u>	<u>Pickup 2x</u>	
	Total		152
GA21R	2 Yd Bin Recycling	Pickup 1x	1
GA22R	2 Yd Bin Recycling	Pickup 2x	1
GA31R	3 Yd Bin Recycling	Pickup 1x	2
GA32R	3 Yd Bin Recycling	Pickup 2x	2
GA41R	4 Yd Bin Recycling	Pickup 1x	6
GA42R	4 Yd Bin Recycling	Pickup 2x	5
GA61R	6 Yd Bin Recycling	Pickup 1x	2
GA62R	6 Yd Bin Recycling	Pickup 2x	0
GA67R	3 Yd Bin & 4 Yd Bin Recycling	Pickup 1x	0
GA69R	<u>3 Yd Bin & 4 Yd Bin Recycling</u>	<u>Pickup 2x</u>	<u>0</u>
	Total		19
GA82	Commercial Additional Ser.	7 - 90 Gal	
GAC1	Commercial	1 - 90 Gal	85
GAC2	<u>Commercial</u>	<u>2 - 90 Gal</u>	<u>4</u>
	Total		89
GA82R	Commercial Additional Ser. Recycling	7 - 90 Gal	0
GAC1R	Commercial Recycling	1 - 90 Gal	5
GAC2R	<u>Commercial Recycling</u>	<u>2 - 90 Gal</u>	<u>2</u>
	Total		7
GAR1	Residential	1 - 90 Gal	5,960
GAR3	<u>Senior Residential</u>	<u>1 - 90 Gal</u>	<u>58</u>
	Total		6,018
GAG1	<u>Extra Green Waste</u>		<u>15</u>
	Total		15
	Total Customers		6,300

3.4 Financial Challenges / Key Drivers of Rate Increases

Going forward, the City's solid waste enterprise is facing a number of financial challenges that will require the City to raise rates over the next decade. Key drivers of future solid waste rate increases are summarized below.

3.4.1 Additional Staff

The solid waste enterprise is projected to need more staff over the period of the rate study. The City provided the estimated costs for additional staff. BWA inflated the costs based on the projected hiring year. These additional expenses are reflected in Table 1 in the Appendix.

3.4.2 Additional Equipment

The solid waste enterprise is projected to need additional equipment. The City provided estimates of the cost and purchase timing of new equipment. BWA inflated the cost of the equipment based on the projected purchase year. These additional expenses are reflected in Table 1 in the Appendix.

3.4.3 Waste Collection Contractor (Bertolotti) and Disposal Expense

The city pays Bertolotti to collect and dispose of solid waste. The amount paid to Bertolotti consists of two components. The first component is the cost of solid waste disposal. The City has a contract with Stanislaus County for disposal at two sites. Prices for disposal are contractually set through FY 2024/25. Twenty percent of the fee paid to Bertolotti covers the disposal costs. The second component is Bertolotti's cost of collection and tipping. This component increases based on the Consumer Price Index. The average increase of both components is calculated in Table 4 of Appendix A. The total amount paid to Bertolotti is calculated in Table 5 of Appendix A.

3.4.4 Ongoing Operating Cost Inflation

The City faces ongoing operating cost inflation due to the annual cost increases for materials, equipment, salaries, benefits, etc. Estimated cost inflation for each expense line item was based on input from City staff. These escalation factors are shown in Table 1 of the Appendix.

3.4.5 Solid Waste Reserve Funds

Maintaining a prudent minimal level of fund reserves provides a financial cushion for dealing with unanticipated expenses, revenue shortfalls, and non-catastrophic emergency capital repairs. BWA recommends fund reserves be able to cover at least three months of operating expenses. The fund reserve targets will escalate over time as the solid waste utility's revenues and expenses gradually increase in future years.

3.4.6 Solid Waste Expense Projections

Table 1 in Appendix A shows a 10-year breakdown of projected solid waste enterprise expenses. The expense projections support the need for annual rate adjustments to keep revenues in line with projected expenditures. Rate adjustments will support balanced budgets and maintaining prudent minimum levels of fund reserves.

3.5 Financial Plan Assumptions

The financial plan includes a number of reasonable and slightly conservative (revenues on low side, expenses on high side) assumptions. Key cash flow assumptions include:

- Revenue Assumptions
 - The number of customers will grow at 1% annually.
 - Non-rate revenue will remain at current levels.
 - Interest on reserves will be .2%.
- Expenses Assumptions
 - General inflation will be 4.0%.
 - Street repair costs will be \$100,000 per year.
 - The low income, senior discount rate will continue to be \$10 less than residential rates.
 - After the planned vehicle purchases are completed in FY 2023/24, average annual spending on vehicles is projected to be \$46,000 in today's dollar (not inflated). This assumption is based on input from city staff.
 - The Enterprise transfers an amount equal to its share of the City's overhead costs to the City's general fund.

3.6 Solid Waste Revenue Requirements: Cash Flow Projections

BWA developed long-term solid waste enterprise cash flow projections to evaluate financial alternatives and estimate future solid waste rate increases. The revenue increase recommendations were developed to meet projected expenses as well as maintain reserves and the long-term health of the solid waste utility.

The solid waste cashflow is shown on the following table.

Table 3 – Cashflow

Cashflow		FY 2018/19	FY 2019/20	FY 2020/21	FY 2021/22	FY 2022/23	FY 2023/24
BEGINING BALANCE		\$1,002,847	\$1,034,545	\$1,030,847	\$986,567	\$1,035,404	\$898,278
Patterson Rate increase %			4.5%	4.5%	4.5%	4.9%	4.9%
	Rate:	\$32.94	\$34.42	\$35.97	\$37.59	\$39.43	\$41.36
REVENUE							
Service Charges		\$2,951,000	\$3,107,000	\$3,275,000	\$3,450,000	\$3,657,000	\$3,871,000
Other Revenue		115,882	115,882	115,882	115,882	115,882	115,882
Interest		10,000	10,000	10,000	10,000	10,000	9,000
Total Revenue		\$3,076,882	\$3,232,882	\$3,400,882	\$3,575,882	\$3,782,882	\$3,995,882
EXPENSES							
<u>Operating & Maintenance</u>							
Bertolotti		\$1,458,900	\$1,515,900	\$1,576,400	\$1,636,900	\$1,703,800	\$1,771,000
Street Repair Costs		100,000	100,000	100,000	100,000	100,000	100,000
Low-Income, Senior Discount Program		6,960	7,080	7,080	7,200	7,200	7,200
All other O&M		\$1,031,120	\$1,147,601	\$1,211,785	\$1,278,946	\$1,403,679	\$1,459,725
Total O&M		\$2,596,980	\$2,770,581	\$2,895,265	\$3,023,046	\$3,214,679	\$3,337,925
<u>Non-Operating</u>							
Equipment		\$0	\$0	\$64,896	\$0	\$181,328	\$164,248
Improvements		0	0	0	0	0	0
Transfers Out		448,204	466,000	485,000	504,000	524,000	545,000
Total Capital Outlay		\$448,204	\$466,000	\$549,896	\$504,000	\$705,328	\$709,248
TOTAL EXPENSES		\$3,045,184	\$3,236,581	\$3,445,161	\$3,527,046	\$3,920,008	\$4,047,173
NET REVENUES		\$31,698	(\$3,699)	(\$44,279)	\$48,836	(\$137,126)	(\$51,291)
ENDING BALANCE		\$1,034,545	\$1,030,847	\$986,567	\$1,035,404	\$898,278	\$846,987
Reserve Targets		\$649,000	\$693,000	\$724,000	\$756,000	\$804,000	\$834,000
Target Met?		Yes	Yes	Yes	Yes	Yes	Yes

3.7 Solid Waste Rate Structure Recommendations

BWA conducted an independent analysis of the City’s current solid waste rate structure. Based on an evaluation of rate alternatives and input from City staff, the only modification BWA recommends is including proportional rates for required organics/recycling categories.

3.8 Proposed Solid Waste Rates

Recommended rates are as follows.

Table 4 – Recommended Rates

Proposed Rates			FY 2018/19	FY 2019/20	FY 2020/21	FY 2021/22	FY 2022/23	FY 2023/24
Residential								
GAR1	Residential	1 - 90 Gal	\$32.94	\$34.42	\$35.97	\$37.59	\$39.43	\$41.36
GAR2	Low-Income, Senior Residential	1 - 90 Gal	22.94	24.42	25.97	27.59	29.43	31.36
Commercial								
GA21	2 Yd Bin	Pickup 1x	\$114.49	\$119.65	\$125.04	\$130.67	\$137.08	\$143.80
GA22	2 Yd Bin	Pickup 2x	228.96	239.27	250.04	261.30	274.11	287.55
GA31	3 Yd Bin	Pickup 1x	171.74	179.47	187.55	195.99	205.60	215.68
GA32	3 Yd Bin	Pickup 2x	343.45	358.91	375.07	391.95	411.16	431.31
GA41	4 Yd Bin	Pickup 1x	228.96	239.27	250.04	261.30	274.11	287.55
GA42	4 Yd Bin	Pickup 2x	457.94	478.55	500.09	522.60	548.21	575.08
GA61	6 Yd Bin	Pickup 1x	343.45	358.91	375.07	391.95	411.16	431.31
GA62	6 Yd Bin	Pickup 2x	686.90	717.82	750.13	783.89	822.31	862.61
GA67	3 Yd Bin & 4 Yd Bin	Pickup 1x	400.70	418.74	437.59	457.29	479.70	503.21
GA69	3 Yd Bin & 4 Yd Bin	Pickup 2x	801.39	837.46	875.15	914.54	959.36	1,006.37
Commercial Recycling								
GA21R	2 Yd Bin Recycling	Pickup 1x	\$57.25	\$59.83	\$62.53	\$65.35	\$68.56	\$71.92
GA22R	2 Yd Bin Recycling	Pickup 2x	114.49	119.65	125.04	130.67	137.08	143.80
GA31R	3 Yd Bin Recycling	Pickup 1x	85.87	89.74	93.78	98.01	102.82	107.86
GA32R	3 Yd Bin Recycling	Pickup 2x	171.74	179.47	187.55	195.99	205.60	215.68
GA41R	4 Yd Bin Recycling	Pickup 1x	114.49	119.65	125.04	130.67	137.08	143.80
GA42R	4 Yd Bin Recycling	Pickup 2x	228.96	239.27	250.04	261.30	274.11	287.55
GA61R	6 Yd Bin Recycling	Pickup 1x	171.74	179.47	187.55	195.99	205.60	215.68
GA62R	6 Yd Bin Recycling	Pickup 2x	343.45	358.91	375.07	391.95	411.16	431.31
GA67R	3 Yd Bin & 4 Yd Bin Recycling	Pickup 1x	200.36	209.38	218.81	228.66	239.87	251.63
GA69R	3 Yd Bin & 4 Yd Bin Recycling	Pickup 2x	400.70	418.74	437.59	457.29	479.70	503.21
Commercial Additional Service								
GA82	Commerical Additional Ser.	7 - 90 Gal	\$32.94	\$34.43	\$35.98	\$37.60	\$39.45	\$41.39
GAC1	Commerical	1 - 90 Gal	32.94	34.43	35.98	37.60	39.45	41.39
GAC2	Commerical	2 - 90 Gal	65.90	68.87	71.97	75.21	78.90	82.77
Commercial Additional Recycling								
GA82R	Commerical Additional Ser. Recycling	7 - 90 Gal	\$16.48	\$17.23	\$18.01	\$18.83	\$19.76	\$20.73
GAC1R	Commerical Recycling	1 - 90 Gal	16.48	17.23	18.01	18.83	19.76	20.73
GAC2R	Commerical Recycling	2 - 90 Gal	32.94	34.43	35.98	37.60	39.45	41.39
Extra Green Waste								
GAG1	Extra Green Waste	1 - 90 Gal	\$5.34	\$5.59	\$5.85	\$6.12	\$6.42	\$6.74
Commercial Organics/Recycling Rates								
ORG1	90-Gallon Toter for Organics/Recycling	Pickup 1x	N/A	\$11.47	\$11.99	\$12.53	\$13.14	\$13.79
ORG2	2 Yd Bin for Organics/Recycling	Pickup 1x	N/A	119.65	125.04	130.67	137.08	143.80
ORG3	2 Yd Bin for Organics/Recycling	Pickup 2x	N/A	239.27	250.04	261.30	274.11	287.55
ORG4	3 Yd Bin for Organics/Recycling	Pickup 1x	N/A	179.47	187.55	195.99	205.60	215.68
ORG5	3 Yd Bin for Organics/Recycling	Pickup 2x	N/A	358.91	375.07	391.95	411.16	431.31
ORG6	4 Yd Bin for Organics/Recycling	Pickup 1x	N/A	239.27	250.04	261.30	274.11	287.55
ORG7	4 Yd Bin for Organics/Recycling	Pickup 2x	N/A	478.55	500.09	522.60	548.21	575.08
ORG8	6 Yd Bin for Organics/Recycling	Pickup 1x	N/A	358.91	375.07	391.95	411.16	431.31
ORG9	6 Yd Bin for Organics/Recycling	Pickup 2x	N/A	717.82	750.13	783.89	822.31	862.61

APPENDIX A

Solid Waste Rate Study Table

Table 1 – Solid Waste Revenues and Expenses

Account Number	Description	Escalation	FY 2018/19 Projected	FY 2019/20 Projected	FY 2020/21 Projected	FY 2021/22 Projected	FY 2022/23 Projected	FY 2023/24 Projected	FY 2024/25 Projected	FY 2025/26 Projected	FY 2026/27 Projected	FY 2027/28 Projected	FY 2028/29 Projected
Revenues													
600-000-5332	Garbage Services	0.0%	3,076,240	3,106,712	3,274,857	3,450,283	3,657,066	3,871,317	4,102,521	4,346,885	4,624,384	4,908,512	4,948,954
600-000-5030	Franchise Fees	0.0%	\$31,542	\$31,542	\$31,542	\$31,542	\$31,542	\$31,542	\$31,542	\$31,542	\$31,542	\$31,542	\$31,542
600-000-5210	AB939 Recycling	0.0%	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
600-000-5235	Highway Maintenance (SWEEP)	0.0%	4,320	4,320	4,320	4,320	4,320	4,320	4,320	4,320	4,320	4,320	4,320
600-000-5333	Garbage Services Bertolotti	0.0%	20	20	20	20	20	20	20	21	22	23	24
600-000-5700	Late Fee	0.0%	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000
	Total Revenue		\$115,882	\$115,882	\$115,882	\$115,882	\$115,882	\$115,882	\$115,882	\$115,883	\$115,884	\$115,885	\$115,886
Operating													
600-790-6001	Salaries & Wages, Full-Time	4.0%	\$253,595	\$263,739	\$274,288	\$285,260	\$296,670	\$308,537	\$320,879	\$333,714	\$347,062	\$360,945	\$375,383
600-790-6002	Salaries & Wages, Part-Time	4.0%	77,706	\$80,814	\$84,047	\$87,409	\$90,905	\$94,541	\$98,323	\$102,256	\$106,346	\$110,600	\$115,024
600-790-6005	Overtime	4.0%	5,200	\$5,408	\$5,624	\$5,849	\$6,083	\$6,327	\$6,580	\$6,843	\$7,117	\$7,401	\$7,697
600-790-6010	Certificate Pay	0.0%	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
600-790-6100	FICA/Medicare - Employer	4.0%	9,697	\$10,085	\$10,488	\$10,908	\$11,344	\$11,798	\$12,270	\$12,761	\$13,271	\$13,802	\$14,354
600-790-6105	Retirement	4.0%	30,154	\$31,360	\$32,615	\$33,919	\$35,276	\$36,687	\$38,154	\$39,681	\$41,268	\$42,919	\$44,635
600-790-6106	HRA	0.0%	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
600-790-6110	Worker's Compensation	4.0%	11,183	\$11,630	\$12,096	\$12,579	\$13,083	\$13,606	\$14,150	\$14,716	\$15,305	\$15,917	\$16,554
600-790-6114	Vacation Benefits	0.0%	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
600-790-6115	Unemployment Insurance	0.0%	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
600-790-6120	Medical Insurance	4.0%	84,435	\$87,812	\$91,325	\$94,978	\$98,777	\$102,728	\$106,837	\$111,111	\$115,555	\$120,177	\$124,984
600-790-6123	Post Retirement Medical Insurance	4.0%	4,138	\$4,304	\$4,476	\$4,655	\$4,841	\$5,035	\$5,236	\$5,445	\$5,663	\$5,890	\$6,125
600-790-6125	Dental Insurance	4.0%	8,646	\$8,992	\$9,352	\$9,726	\$10,115	\$10,519	\$10,940	\$11,378	\$11,833	\$12,306	\$12,798
600-790-6130	Vision Insurance	4.0%	1,293	\$1,345	\$1,399	\$1,454	\$1,513	\$1,573	\$1,636	\$1,701	\$1,770	\$1,840	\$1,914
600-790-6135	Life Insurance	4.0%	1,521	\$1,582	\$1,645	\$1,711	\$1,779	\$1,851	\$1,925	\$2,002	\$2,082	\$2,165	\$2,251
600-790-6140	Disability Insurance	0.0%	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
600-790-6145	Tuition Reimbursement	0.0%	1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500
600-790-6160	Compensated Absences	0.0%	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
600-790-6200	Fiscal Service	4.0%	5,000	\$5,200	\$5,408	\$5,624	\$5,849	\$6,083	\$6,327	\$6,580	\$6,843	\$7,117	\$7,401
600-790-6205	Legal Services	0.0%	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
600-790-6215	Engineering Services	0.0%	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
600-790-6220	Technical Services	4.0%	3,400	\$3,536	\$3,677	\$3,825	\$3,978	\$4,137	\$4,302	\$4,474	\$4,653	\$4,839	\$5,033
600-790-6221	Consulting Services	4.0%	18,500	\$19,240	\$20,010	\$20,810	\$21,642	\$22,508	\$23,408	\$24,345	\$25,319	\$26,331	\$27,385
600-790-6222	IT Services	4.0%	23,445	\$24,383	\$25,358	\$26,372	\$27,427	\$28,524	\$29,665	\$30,852	\$32,086	\$33,370	\$34,704
600-790-6240	General Contract Services	4.0%	104,049	\$108,211	\$112,539	\$117,040	\$121,722	\$126,591	\$131,655	\$136,921	\$142,398	\$148,094	\$154,017
600-790-6241	Contract Service - St Sweeping	4.0%	176,800	\$183,872	\$191,227	\$198,876	\$206,831	\$215,104	\$223,708	\$232,657	\$241,963	\$251,642	\$261,707
600-790-6250	Insurance	4.0%	112,061	\$116,543	\$121,205	\$126,053	\$131,096	\$136,339	\$141,793	\$147,465	\$153,363	\$159,498	\$165,878
600-790-6300	Equipment Maintenance	4.0%	400	\$416	\$433	\$450	\$468	\$487	\$506	\$526	\$547	\$569	\$592
600-790-6305	Building Maintenance	0.0%	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
600-790-6310	Alley/Sidewalk Maint	4.0%	5,000	\$5,200	\$5,408	\$5,624	\$5,849	\$6,083	\$6,327	\$6,580	\$6,843	\$7,117	\$7,401
600-790-6315	Vehicle Maintenance	4.0%	8,250	\$8,580	\$8,923	\$9,280	\$9,651	\$10,037	\$10,439	\$10,856	\$11,291	\$11,742	\$12,212
600-790-6400	Office Supplies	4.0%	3,500	\$3,640	\$3,786	\$3,937	\$4,095	\$4,258	\$4,429	\$4,606	\$4,790	\$4,982	\$5,181
600-790-6405	Postage	4.0%	10,000	\$10,400	\$10,816	\$11,249	\$11,699	\$12,167	\$12,653	\$13,159	\$13,686	\$14,233	\$14,802
600-790-6410	Departmental Supplies	4.0%	5,700	\$5,928	\$6,165	\$6,412	\$6,668	\$6,935	\$7,212	\$7,501	\$7,801	\$8,113	\$8,437
600-790-6415	Small Tools/Shop Supplies	4.0%	2,000	\$2,080	\$2,163	\$2,250	\$2,340	\$2,433	\$2,531	\$2,632	\$2,737	\$2,847	\$2,960
600-790-6420	Janitorial Supplies	0.0%	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
600-790-6425	Fuel	4.0%	3,000	\$3,120	\$3,245	\$3,375	\$3,510	\$3,650	\$3,796	\$3,948	\$4,106	\$4,270	\$4,441
600-790-6430	Chemicals	0.0%	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
600-790-6435	Safety Supplies	4.0%	1,250	\$1,300	\$1,352	\$1,406	\$1,462	\$1,521	\$1,582	\$1,645	\$1,711	\$1,779	\$1,850
600-790-6440	Uniforms	4.0%	3,350	\$3,484	\$3,623	\$3,768	\$3,919	\$4,076	\$4,239	\$4,408	\$4,585	\$4,768	\$4,959
600-790-6500	Rents & Leases, Equipment	4.0%	12,000	\$12,480	\$12,979	\$13,498	\$14,038	\$14,600	\$15,184	\$15,791	\$16,423	\$17,080	\$17,763
600-790-6505	Rents & Leases - Bldgs/Prop	0.0%	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
600-790-6600	Printing	0.0%	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
600-790-6605	Advertising	4.0%	8,600	\$8,944	\$9,302	\$9,674	\$10,061	\$10,463	\$10,882	\$11,317	\$11,770	\$12,240	\$12,730
600-790-6610	Training & Travel	4.0%	1,560	\$1,622	\$1,687	\$1,755	\$1,825	\$1,898	\$1,974	\$2,053	\$2,135	\$2,220	\$2,309
600-790-6615	Travel & Meetings	0.0%	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
600-790-6620	Due & Publications	0.0%	1,300	\$1,300	\$1,300	\$1,300	\$1,300	\$1,300	\$1,300	\$1,300	\$1,300	\$1,300	\$1,300
600-790-6625	Medical Services	4.0%	500	\$520	\$541	\$562	\$585	\$608	\$633	\$658	\$684	\$712	\$740
600-790-6700	Telephone	4.0%	4,250	\$4,420	\$4,597	\$4,781	\$4,972	\$5,171	\$5,378	\$5,593	\$5,816	\$6,049	\$6,291
600-790-6710	Utilities - Buildings	0.0%	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
600-790-6760	Permits & Fees	4.0%	100	\$104	\$108	\$112	\$117	\$122	\$127	\$132	\$137	\$142	\$148
600-790-6765	*** Grant Dist - Beverage Cont	0.0%	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
600-790-6895	Depreciation Expense	0.0%	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
600-790-6896	Utility Service Write-off	4.0%	28,000	\$29,120	\$30,285	\$31,496	\$32,756	\$34,066	\$35,429	\$36,846	\$38,320	\$39,853	\$41,447
Table 5	Bertolotti Expense		\$1,458,937	\$1,515,862	\$1,576,386	\$1,636,939	\$1,703,754	\$1,770,962	\$1,839,857	\$1,912,022	\$1,994,973	\$2,076,808	\$2,156,722
City Provided	Additional Staff (incl \$20k GW diversion person)			\$75,425	\$96,809	\$119,428	\$197,980	\$205,900	\$214,136	\$222,701	\$231,609	\$240,873	\$250,508
Non-Operating													
City Provided	Vehicle & Equipment			\$0	\$64,896	\$0	\$181,328	\$164,248	\$58,205	\$59,951	\$61,749	\$63,602	\$65,510
600-790-7501	Computer Equipment	0.0%	3,300	\$3,300	\$3,300	\$3,300	\$3,300	\$3,300	\$3,300	\$3,300	\$3,300	\$3,300	\$3,300
600-790-7573	Recycling Program	0.0%	11,000	\$11,000	\$11,000	\$11,000	\$11,000	\$11,000	\$11,000	\$11,000	\$11,000	\$11,000	\$11,000
			\$2,490,020	\$2,663,501	\$2,853,081	\$2,915,846	\$3,288,808	\$3,394,973	\$3,416,103	\$3,550,623	\$3,698,407	\$3,847,650	\$3,997,650

Table 2 – Solid Waste Revenues and Expenses

City of Patterson Current Refuse Rates		
Class	Description	Current Rates
GA21	2 YD BIN P/U 1X	\$114.49
GA22	2 YD BIN P/U 2X	228.96
GA31	3 YD BIN P/U 1X	171.74
GA32	3 YD BIN P/U 2X	343.45
GA41	4 YD BIN P/U 1X	228.96
GA42	4 YD BIN P/U 2X	457.94
GA61	6 YD BIN P/U 1X	343.45
GA62	6 YD BIN P/U 2X	686.90
GA82	7 TOTE INGATE P/U	32.94
GAC1	COMMERCIAL TOTE 1-90	32.94
GAC2	COMMERCIAL TOTE 2-90	65.90
GAR1	RESIDENTIAL TOTE 1-90	32.94
GAR3	SENIOR RATE TOTE 1-90	22.94
GREE	EXTRA GREEN TOTE ONLY	5.34

Table 3 – Projected Customer Growth

Class	Size	Frequency	FY 2018/19	FY 2019/20	FY 2020/21	FY 2021/22	FY 2022/23	FY 2023/24	FY 2024/25	FY 2025/26	FY 2026/27	FY 2027/28	FY 2028/29
GA21	2 Yd Bin	Pickup 1x	54	54	55	55	56	56	57	57	58	59	59
GA22	2 Yd Bin	Pickup 2x	4	4	4	4	4	4	4	4	4	4	4
GA31	3 Yd Bin	Pickup 1x	14	14	14	14	14	14	14	15	15	15	15
GA32	3 Yd Bin	Pickup 2x	11	11	11	11	11	11	11	11	11	12	12
GA41	4 Yd Bin	Pickup 1x	24	24	24	24	24	25	25	25	25	26	26
GA42	4 Yd Bin	Pickup 2x	25	25	25	25	26	26	26	26	27	27	27
GA61	6 Yd Bin	Pickup 1x	7	7	7	7	7	7	7	7	7	7	7
GA62	6 Yd Bin	Pickup 2x	13	13	13	13	13	13	13	13	14	14	14
GA67	3 Yd Bin & 4 Yd Bin	Pickup 1x	0	0	0	0	0	0	0	0	0	0	0
GA69	3 Yd Bin & 4 Yd Bin	Pickup 2x	0	0	0	0	0	0	0	0	0	0	0
	Total		152	152	153	153	155	156	157	158	161	164	164
GA21R	2 Yd Bin Recycling	Pickup 1x	1	1	1	1	1	1	1	1	1	1	1
GA22R	2 Yd Bin Recycling	Pickup 2x	1	1	1	1	1	1	1	1	1	1	1
GA31R	3 Yd Bin Recycling	Pickup 1x	2	2	2	2	2	2	2	2	2	2	2
GA32R	3 Yd Bin Recycling	Pickup 2x	2	2	2	2	2	2	2	2	2	2	2
GA41R	4 Yd Bin Recycling	Pickup 1x	6	6	6	6	6	6	6	6	6	6	6
GA42R	4 Yd Bin Recycling	Pickup 2x	5	5	5	5	5	5	5	5	5	5	5
GA61R	6 Yd Bin Recycling	Pickup 1x	2	2	2	2	2	2	2	2	2	2	2
GA62R	6 Yd Bin Recycling	Pickup 2x	0	0	0	0	0	0	0	0	0	0	0
GA67R	3 Yd Bin & 4 Yd Bin Recycling	Pickup 1x	0	0	0	0	0	0	0	0	0	0	0
GA69R	3 Yd Bin & 4 Yd Bin Recycling	Pickup 2x	0	0	0	0	0	0	0	0	0	0	0
	Total		19	19	19	19	19	19	19	19	19	19	19
GA82	Commercial Additional Ser.	7 - 90 Gal	0	0	0	0	0	0	0	0	0	0	0
GAC1	Commercial	1 - 90 Gal	85	85	86	87	88	89	90	91	92	92	93
GAC2	Commercial	2 - 90 Gal	4	4	4	4	4	4	4	4	4	4	4
	Total		89	89	90	91	92	93	94	95	96	96	97
GA82R	Commercial Additional Ser. Recycling	7 - 90 Gal	0	0	0	0	0	0	0	0	0	0	0
GAC1R	Commercial Recycling	1 - 90 Gal	5	5	5	5	5	5	5	5	5	5	5
GAC2R	Commercial Recycling	2 - 90 Gal	2	2	2	2	2	2	2	2	2	2	2
	Total		7	7	7	7	7	7	7	7	7	7	7
GAR1	Residential	1 - 90 Gal	5,960	6019	6079	6140	6201	6264	6326	6389	6453	6518	6583
GAR3	Senior Residential	1 - 90 Gal	58	58	59	59	60	60	61	62	62	63	64
	Total		6,018	6,077	6,138	6,199	6,261	6,324	6,387	6,451	6,515	6,581	6,647
GAG1	Extra Green Waste		15	15	15	15	15	15	15	16	16	16	16
	Total		15	15	15	15	15	15	15	16	16	16	16
	Total Customers		6,300	6,359	6,422	6,484	6,549	6,614	6,679	6,746	6,814	6,883	6,950

Table 4 – Projected Customer Growth

Year	Waste to Energy Rate	Projected Utilization	Fink Road Landfill Rate	Projected Utilization	Average Weighted Tipping Price	Average Tipping Rate Increase	Tipping Component of Total Charge	Collection Increase (CPI)	Collection Component of Total Charge	Weighted Average Increase
		62%		38%			20%	4.0%	80%	
	<i>Weighted Rate</i>		<i>Weighted Rate</i>				<i>Weighted Increase</i>			
FY 2017/18	\$35.78	22.18	\$26.00	9.88	32.06					
FY 2018/19	\$37.00	22.94	\$27.00	10.26	33.20	3.54%	0.71	4.0%	3.20	3.9%
FY 2019/20	\$38.00	23.56	\$27.00	10.26	33.82	1.87%	0.37	4.0%	3.20	3.6%
FY 2020/21	\$39.00	24.18	\$27.00	10.26	34.44	1.83%	0.37	4.0%	3.20	3.6%
FY 2021/22	\$40.00	24.80	\$28.00	10.64	35.44	2.90%	0.58	4.0%	3.20	3.8%
FY 2022/23	\$41.00	25.42	\$28.00	10.64	36.06	1.75%	0.35	4.0%	3.20	3.5%
FY 2023/24	\$42.00	26.04	\$29.00	11.02	37.06	2.77%	0.55	4.0%	3.20	3.8%
FY 2024/25	\$43.00	26.66	\$29.00	11.02	37.68	1.67%	0.33	4.0%	3.20	3.5%

Table 5 – Bertolotti Charge Projections

Year		Rate	FY 2018/19	FY 2019/20	FY 2020/21	FY 2021/22	FY 2022/23	FY 2023/24	FY 2024/25	FY 2025/26	FY 2026/27	FY 2027/28	FY 2028/29
Annual Increase (%)			3.91%	3.57%	3.57%	3.78%	3.55%	3.75%	3.53%	4.00%	4.00%	4.00%	4.00%
Commercial		\$28.04	\$28.04	\$29.04	\$30.08	\$30.98	\$31.91	\$32.87	\$33.86	\$34.87	\$35.92	\$36.99	\$38.10
GA21 2 Yd Bin	Pickup 1x	\$56.08	\$3,028.32	\$3,136.54	\$3,308.78	\$3,408.04	\$3,574.11	\$3,681.33	\$3,859.48	\$3,975.27	\$4,166.36	\$4,365.34	\$4,496.30
GA22 2 Yd Bin	Pickup 2x	112.16	448.64	464.67	481.28	495.72	510.59	525.90	541.68	557.93	574.67	591.91	609.67
GA31 3 Yd Bin	Pickup 1x	84.12	1,177.68	1,219.76	1,263.35	1,301.25	1,340.29	1,380.50	1,421.91	1,569.18	1,616.26	1,664.75	1,714.69
GA32 3 Yd Bin	Pickup 2x	168.24	1,850.64	1,916.77	1,985.27	2,044.83	2,106.17	2,169.36	2,234.44	2,301.47	2,370.51	2,443.60	2,514.50
GA41 4 Yd Bin	Pickup 1x	112.16	2,691.84	2,788.03	2,887.66	2,974.29	3,063.52	3,286.90	3,385.51	3,487.08	3,591.69	3,847.42	3,962.84
GA42 4 Yd Bin	Pickup 2x	224.32	5,608.00	5,808.40	6,015.96	6,196.44	6,637.63	6,836.76	7,041.86	7,253.12	7,758.05	7,990.79	8,230.51
GA61 6 Yd Bin	Pickup 1x	168.24	1,177.68	1,219.76	1,263.35	1,301.25	1,340.29	1,380.50	1,421.91	1,464.57	1,508.51	1,553.76	1,600.38
GA62 6 Yd Bin	Pickup 2x	336.48	4,374.24	4,539.55	4,692.45	4,833.23	4,978.22	5,127.57	5,281.40	5,439.84	6,034.04	6,215.06	6,401.51
GA67 3 Yd Bin & 4 Yd Bin	Pickup 1x	196.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GA69 3 Yd Bin & 4 Yd Bin	Pickup 2x	392.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total			\$20,357.04	\$21,084.50	\$21,898.11	\$22,555.05	\$23,550.82	\$24,388.82	\$25,188.20	\$26,048.46	\$27,620.08	\$28,892.62	\$29,759.39
Commercial Recycling		\$14.02	\$14.02	\$14.44	\$14.87	\$15.32	\$15.78	\$16.25	\$16.74	\$17.24	\$17.76	\$18.29	\$18.84
GA21F 2 Yd Bin Recycling	Pickup 1x	\$28.04	\$28.04	\$28.88	\$29.75	\$30.64	\$31.56	\$32.51	\$33.48	\$34.49	\$35.52	\$36.59	\$37.68
GA22F 2 Yd Bin Recycling	Pickup 2x	56.08	56.08	57.76	59.50	61.29	63.12	65.01	66.96	68.97	71.04	73.17	75.37
GA31F 3 Yd Bin Recycling	Pickup 1x	42.06	84.12	86.64	89.24	91.92	94.68	97.52	100.44	103.46	106.56	109.76	113.05
GA32F 3 Yd Bin Recycling	Pickup 2x	84.12	168.24	173.29	178.49	183.84	189.36	195.04	200.89	206.91	213.12	219.52	226.10
GA41F 4 Yd Bin Recycling	Pickup 1x	56.08	336.48	346.57	356.97	367.68	378.71	390.07	401.77	413.83	426.24	439.03	452.20
GA42F 4 Yd Bin Recycling	Pickup 2x	112.16	560.80	577.62	594.95	612.80	631.19	650.12	669.62	689.71	710.40	731.72	753.67
GA61F 6 Yd Bin Recycling	Pickup 1x	84.12	168.24	173.29	178.49	183.84	189.36	195.04	200.89	206.91	213.12	219.52	226.10
GA62F 6 Yd Bin Recycling	Pickup 2x	168.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GA67F 3 Yd Bin & 4 Yd Bin Recycling	Pickup 1x	98.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GA69F 3 Yd Bin & 4 Yd Bin Recycling	Pickup 2x	196.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total			\$1,402.00	\$1,444.06	\$1,487.38	\$1,532.00	\$1,577.96	\$1,625.30	\$1,674.06	\$1,724.28	\$1,776.01	\$1,829.29	\$1,884.17
Commercial Additional Service		\$28.04	\$28.04	\$28.88	\$29.75	\$30.64	\$31.56	\$32.51	\$33.48	\$34.49	\$35.52	\$36.59	\$37.68
GA82 Commercial Additional Ser.	7 - 90 Gal	\$28.04	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
GAC1 Commercial	1 - 90 Gal	28.04	2,383.40	2,454.90	2,558.30	2,665.69	2,777.22	2,893.04	3,013.31	3,138.20	3,267.86	3,365.90	3,504.56
GAC2 Commercial	2 - 90 Gal	56.08	224.32	231.05	237.98	245.12	252.47	260.05	267.85	275.89	284.16	292.69	301.47
Total			\$2,607.72	\$2,685.95	\$2,796.28	\$2,910.81	\$3,029.69	\$3,153.09	\$3,281.16	\$3,414.08	\$3,552.02	\$3,658.58	\$3,806.02
Commercial Additional Recycling		\$14.02	\$14.02	\$14.44	\$14.87	\$15.32	\$15.78	\$16.25	\$16.74	\$17.24	\$17.76	\$18.29	\$18.84
GA82F Commercial Additional Ser. Rec	7 - 90 Gal	\$14.02	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
GAC1F Commercial Recycling	1 - 90 Gal	14.02	70.10	72.20	74.37	76.60	78.90	81.27	83.70	86.21	88.80	91.46	94.21
GAC2F Commercial Recycling	2 - 90 Gal	28.04	56.08	57.76	59.50	61.28	63.12	65.01	66.96	68.97	71.04	73.17	75.37
Total			\$126.18	\$129.97	\$133.86	\$137.88	\$142.02	\$146.28	\$150.67	\$155.19	\$159.84	\$164.64	\$169.58
Residential		\$16.12	\$16.12	\$16.60	\$17.10	\$17.61	\$18.14	\$18.69	\$19.25	\$19.83	\$20.42	\$21.03	\$21.66
GAR1 Residential	1 - 90 Gal	\$28.04	\$96,075.20	\$99,937.07	\$103,961.28	\$108,154.62	\$112,506.00	\$117,058.49	\$121,763.63	\$126,665.55	\$131,772.41	\$137,092.73	\$142,613.66
GAR3 Low-Income, Senior Residential	1 - 90 Gal	28.04	934.96	963.01	1,009.00	1,039.27	1,088.59	1,121.25	1,174.14	1,229.19	1,266.06	1,325.08	1,386.49
Total			\$97,010.16	\$100,900.08	\$104,970.28	\$109,193.89	\$113,594.59	\$118,179.74	\$122,937.76	\$127,894.73	\$133,038.47	\$138,417.80	\$144,000.16
Extra Green Waste		\$5.00	\$5.00	\$5.15	\$5.30	\$5.46	\$5.63	\$5.80	\$5.97	\$6.15	\$6.33	\$6.52	\$6.72
GAG1 Extra Green Waste		\$5.00	\$75.00	\$77.25	\$79.57	\$81.95	\$84.41	\$86.95	\$89.55	\$98.39	\$101.34	\$104.38	\$107.51
Total			\$75.00	\$77.25	\$79.57	\$81.95	\$84.41	\$86.95	\$89.55	\$98.39	\$101.34	\$104.38	\$107.51
TOTAL MONTHLY CHARGE			\$121,578	\$126,322	\$131,365	\$136,412	\$141,979	\$147,580	\$153,321	\$159,335	\$166,248	\$173,067	\$179,727
TOTAL ANNUAL CHARGE			\$1,458,937	\$1,515,862	\$1,576,386	\$1,636,939	\$1,703,754	\$1,770,962	\$1,839,857	\$1,912,022	\$1,994,973	\$2,076,808	\$2,156,722

Table 6 – City Revenue Projections

			FY 2018/19	FY 2019/20	FY 2020/21	FY 2021/22	FY 2022/23	FY 2023/24	FY 2024/25	FY 2025/26	FY 2026/27	FY 2027/28	FY 2027/28
Commercial			\$57.25	\$59.82	\$62.51	\$65.32	\$68.52	\$71.88	\$75.48	\$79.26	\$83.23	\$87.40	\$87.40
GA21	2 Yd Bin	Pickup 1x	\$6,182.46	\$6,461.10	\$6,877.20	\$7,186.85	\$7,676.48	\$8,052.80	\$8,604.72	\$9,035.64	\$9,654.68	\$10,313.20	\$10,313.20
GA22	2 Yd Bin	Pickup 2x	915.84	957.08	1,000.16	1,045.20	1,096.44	1,150.20	1,207.68	1,268.16	1,331.68	1,398.40	1,398.40
GA31	3 Yd Bin	Pickup 1x	2,404.36	2,512.58	2,625.70	2,743.86	2,878.40	3,019.52	3,170.16	3,566.70	3,745.35	3,933.00	3,933.00
GA32	3 Yd Bin	Pickup 2x	3,777.95	3,948.01	4,125.77	4,311.45	4,522.76	4,744.41	4,981.68	5,231.16	5,493.18	6,292.80	6,292.80
GA41	4 Yd Bin	Pickup 1x	5,495.04	5,742.48	6,000.96	6,271.20	6,578.64	7,188.75	7,548.00	7,926.00	8,323.00	9,089.60	9,089.60
GA42	4 Yd Bin	Pickup 2x	11,448.50	11,963.75	12,502.25	13,065.00	14,253.46	14,952.08	15,699.84	16,486.08	17,977.68	18,878.40	18,878.40
GA61	6 Yd Bin	Pickup 1x	2,404.15	2,512.37	2,625.49	2,743.65	2,878.12	3,019.17	3,170.16	3,328.92	3,495.66	3,670.80	3,670.80
GA62	6 Yd Bin	Pickup 2x	8,929.70	9,331.66	9,751.69	10,190.57	10,690.03	11,213.93	11,774.88	12,364.56	13,982.64	14,683.20	14,683.20
GA67	3 Yd Bin & 4 Yd Bin	Pickup 1x	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GA69	3 Yd Bin & 4 Yd Bin	Pickup 2x	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total			\$41,558.00	\$43,429.03	\$45,509.22	\$47,557.78	\$50,574.33	\$53,340.86	\$56,157.12	\$59,207.22	\$64,003.87	\$68,259.40	\$68,259.40
Commercial Recycling			\$28.62	\$29.91	\$31.26	\$32.67	\$34.27	\$35.95	\$37.75	\$39.64	\$41.63	\$43.72	\$43.72
GA21R	2 Yd Bin Recycling	Pickup 1x	\$57.25	\$59.83	\$62.53	\$65.35	\$68.56	\$71.92	\$75.50	\$79.28	\$83.26	\$87.44	\$87.44
GA22R	2 Yd Bin Recycling	Pickup 2x	114.49	119.65	125.04	130.67	137.08	143.80	151.00	158.56	166.52	174.88	174.88
GA31R	3 Yd Bin Recycling	Pickup 1x	171.74	179.48	187.56	196.02	205.64	215.72	226.50	237.84	249.78	262.32	262.32
GA32R	3 Yd Bin Recycling	Pickup 2x	343.48	358.94	375.10	391.98	411.20	431.36	453.00	475.68	499.56	524.64	524.64
GA41R	4 Yd Bin Recycling	Pickup 1x	686.94	717.90	750.24	784.02	822.48	862.80	906.00	951.36	999.12	1,049.28	1,049.28
GA42R	4 Yd Bin Recycling	Pickup 2x	1,144.80	1,196.35	1,250.20	1,306.50	1,370.55	1,437.75	1,510.00	1,585.60	1,665.20	1,748.80	1,748.80
GA61R	6 Yd Bin Recycling	Pickup 1x	343.48	358.94	375.10	391.98	411.20	431.36	453.00	475.68	499.56	524.64	524.64
GA62R	6 Yd Bin Recycling	Pickup 2x	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GA67R	3 Yd Bin & 4 Yd Bin Re	Pickup 1x	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
GA69R	3 Yd Bin & 4 Yd Bin Re	Pickup 2x	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total			\$2,862.18	\$2,991.09	\$3,125.77	\$3,266.52	\$3,426.71	\$3,594.71	\$3,775.00	\$3,964.00	\$4,163.00	\$4,372.00	\$4,372.00
Commercial Additional Service			\$32.94	\$34.42	\$35.97	\$37.59	\$39.43	\$41.36	\$43.43	\$45.61	\$47.90	\$50.30	\$50.30
GA82	Commercial Additional	7 - 90 Gal	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
GAC1	Commercial	1 - 90 Gal	2,799.90	2,799.90	2,960.98	3,130.26	3,308.80	3,511.05	3,908.70	4,150.51	4,406.80	4,627.60	4,677.90
GAC2	Commercial	2 - 90 Gal	263.52	263.60	275.48	287.88	300.84	315.60	347.44	364.88	383.20	402.40	402.40
Total			\$3,063.42	\$3,063.50	\$3,236.46	\$3,418.14	\$3,609.64	\$3,826.65	\$4,256.14	\$4,515.39	\$4,790.00	\$5,030.00	\$5,080.30
Commercial Additional Recycling			\$16.47	\$17.21	\$17.98	\$18.79	\$19.71	\$20.68	\$21.72	\$22.81	\$23.96	\$25.16	\$25.16
GA82R	Commercial Additional	7 - 90 Gal	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
GAC1R	Commercial Recycling	1 - 90 Gal	82.40	86.15	90.05	94.15	98.80	103.65	108.60	114.05	119.80	125.80	125.80
GAC2R	Commercial Recycling	2 - 90 Gal	65.88	68.86	71.96	75.20	78.90	82.78	86.88	91.24	95.84	100.64	100.64
Total			\$148.28	\$155.01	\$162.01	\$169.35	\$177.70	\$186.43	\$195.48	\$205.29	\$215.64	\$226.44	\$226.44
Residential			\$32.94	\$34.42	\$35.97	\$37.59	\$39.43	\$41.36	\$43.43	\$45.61	\$47.90	\$50.30	\$50.30
GAR1	Residential	1 - 90 Gal	\$196,322.40	\$207,173.98	\$218,661.63	\$230,802.60	\$244,505.43	\$259,079.04	\$274,738.18	\$291,402.29	\$309,098.70	\$327,855.40	\$331,124.90
GAR3	Low-Income, Senior Re	1 - 90 Gal	1,910.52	1,996.36	2,122.23	2,217.81	2,365.80	2,481.60	2,649.23	2,827.82	2,969.80	3,168.90	3,219.20
Total			\$198,232.92	\$209,170.34	\$220,783.86	\$233,020.41	\$246,871.23	\$261,560.64	\$277,387.41	\$294,230.11	\$312,068.50	\$331,024.30	\$334,344.10
Extra Green Waste			\$5.34	\$5.58	\$5.83	\$6.09	\$6.39	\$6.70	\$7.04	\$7.40	\$7.77	\$8.16	\$8.16
GAG1	Extra Green Waste		\$80.10	\$83.70	\$87.45	\$91.35	\$95.85	\$100.50	\$105.60	\$118.40	\$124.32	\$130.56	\$130.56
Total			\$80.10	\$83.70	\$87.45	\$91.35	\$95.85	\$100.50	\$105.60	\$118.40	\$124.32	\$130.56	\$130.56
TOTAL MONTHLY CHARGE			\$245,945	\$258,893	\$272,905	\$287,524	\$304,755	\$322,610	\$341,877	\$362,240	\$385,365	\$409,043	\$412,413
CALCULATED ANNUAL CHARGE			\$2,951,339	\$3,106,712	\$3,274,857	\$3,450,283	\$3,657,065.52	\$3,871,317	\$4,102,521.00	\$4,346,885	\$4,624,384	\$4,908,512	\$4,948,954
ESTIMATED ANNUAL REVENUE			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	

Table 7 – Cash Flow

Cashflow		FY 2018/19	FY 2019/20	FY 2020/21	FY 2021/22	FY 2022/23	FY 2023/24
BEGINING BALANCE		\$1,002,847	\$1,034,545	\$1,030,847	\$986,567	\$1,035,404	\$898,278
Patterson Rate increase %			4.5%	4.5%	4.5%	4.9%	4.9%
	Rate:	\$32.94	\$34.42	\$35.97	\$37.59	\$39.43	\$41.36
REVENUE							
Service Charges		\$2,951,000	\$3,107,000	\$3,275,000	\$3,450,000	\$3,657,000	\$3,871,000
Other Revenue		115,882	115,882	115,882	115,882	115,882	115,882
Interest		10,000	10,000	10,000	10,000	10,000	9,000
Total Revenue		\$3,076,882	\$3,232,882	\$3,400,882	\$3,575,882	\$3,782,882	\$3,995,882
EXPENSES							
<u>Operating & Maintenance</u>							
Bertolotti		\$1,458,900	\$1,515,900	\$1,576,400	\$1,636,900	\$1,703,800	\$1,771,000
Street Repair Costs		100,000	100,000	100,000	100,000	100,000	100,000
Low-Income, Senior Discount Program		6,960	7,080	7,080	7,200	7,200	7,200
All other O&M		\$1,031,120	\$1,147,601	\$1,211,785	\$1,278,946	\$1,403,679	\$1,459,725
Total O&M		\$2,596,980	\$2,770,581	\$2,895,265	\$3,023,046	\$3,214,679	\$3,337,925
<u>Non-Operating</u>							
Equipment		\$0	\$0	\$64,896	\$0	\$181,328	\$164,248
Improvements		0	0	0	0	0	0
Transfers Out		448,204	466,000	485,000	504,000	524,000	545,000
Total Capital Outlay		\$448,204	\$466,000	\$549,896	\$504,000	\$705,328	\$709,248
TOTAL EXPENSES		\$3,045,184	\$3,236,581	\$3,445,161	\$3,527,046	\$3,920,008	\$4,047,173
NET REVENUES		\$31,698	(\$3,699)	(\$44,279)	\$48,836	(\$137,126)	(\$51,291)
ENDING BALANCE		\$1,034,545	\$1,030,847	\$986,567	\$1,035,404	\$898,278	\$846,987
Reserve Targets		\$649,000	\$693,000	\$724,000	\$756,000	\$804,000	\$834,000
Target Met?		Yes	Yes	Yes	Yes	Yes	Yes

Table 8 – Rate Projections

Proposed Rates			FY 2018/19	FY 2019/20	FY 2020/21	FY 2021/22	FY 2022/23	FY 2023/24
Residential								
GAR1	Residential	1 - 90 Gal	\$32.94	\$34.42	\$35.97	\$37.59	\$39.43	\$41.36
GAR2	Low-Income, Senior Residential	1 - 90 Gal	22.94	24.42	25.97	27.59	29.43	31.36
Commercial								
GA21	2 Yd Bin	Pickup 1x	\$114.49	\$119.65	\$125.04	\$130.67	\$137.08	\$143.80
GA22	2 Yd Bin	Pickup 2x	228.96	239.27	250.04	261.30	274.11	287.55
GA31	3 Yd Bin	Pickup 1x	171.74	179.47	187.55	195.99	205.60	215.68
GA32	3 Yd Bin	Pickup 2x	343.45	358.91	375.07	391.95	411.16	431.31
GA41	4 Yd Bin	Pickup 1x	228.96	239.27	250.04	261.30	274.11	287.55
GA42	4 Yd Bin	Pickup 2x	457.94	478.55	500.09	522.60	548.21	575.08
GA61	6 Yd Bin	Pickup 1x	343.45	358.91	375.07	391.95	411.16	431.31
GA62	6 Yd Bin	Pickup 2x	686.90	717.82	750.13	783.89	822.31	862.61
GA67	3 Yd Bin & 4 Yd Bin	Pickup 1x	400.70	418.74	437.59	457.29	479.70	503.21
GA69	3 Yd Bin & 4 Yd Bin	Pickup 2x	801.39	837.46	875.15	914.54	959.36	1,006.37
Commercial Recycling								
GA21R	2 Yd Bin Recycling	Pickup 1x	\$57.25	\$59.83	\$62.53	\$65.35	\$68.56	\$71.92
GA22R	2 Yd Bin Recycling	Pickup 2x	114.49	119.65	125.04	130.67	137.08	143.80
GA31R	3 Yd Bin Recycling	Pickup 1x	85.87	89.74	93.78	98.01	102.82	107.86
GA32R	3 Yd Bin Recycling	Pickup 2x	171.74	179.47	187.55	195.99	205.60	215.68
GA41R	4 Yd Bin Recycling	Pickup 1x	114.49	119.65	125.04	130.67	137.08	143.80
GA42R	4 Yd Bin Recycling	Pickup 2x	228.96	239.27	250.04	261.30	274.11	287.55
GA61R	6 Yd Bin Recycling	Pickup 1x	171.74	179.47	187.55	195.99	205.60	215.68
GA62R	6 Yd Bin Recycling	Pickup 2x	343.45	358.91	375.07	391.95	411.16	431.31
GA67R	3 Yd Bin & 4 Yd Bin Recycling	Pickup 1x	200.36	209.38	218.81	228.66	239.87	251.63
GA69R	3 Yd Bin & 4 Yd Bin Recycling	Pickup 2x	400.70	418.74	437.59	457.29	479.70	503.21
Commercial Additional Service								
GA82	Commerical Additional Ser.	7 - 90 Gal	\$32.94	\$34.43	\$35.98	\$37.60	\$39.45	\$41.39
GAC1	Commerical	1 - 90 Gal	32.94	34.43	35.98	37.60	39.45	41.39
GAC2	Commerical	2 - 90 Gal	65.90	68.87	71.97	75.21	78.90	82.77
Commercial Additional Recycling								
GA82R	Commerical Additional Ser. Recycling	7 - 90 Gal	\$16.48	\$17.23	\$18.01	\$18.83	\$19.76	\$20.73
GAC1R	Commerical Recycling	1 - 90 Gal	16.48	17.23	18.01	18.83	19.76	20.73
GAC2R	Commerical Recycling	2 - 90 Gal	32.94	34.43	35.98	37.60	39.45	41.39
Extra Green Waste								
GAG1	Extra Green Waste	1 - 90 Gal	\$5.34	\$5.59	\$5.85	\$6.12	\$6.42	\$6.74
Commercial Organics/Recycling Rates								
ORG1	90-Gallon Toter for Organics/Recycling	Pickup 1x	N/A	\$11.47	\$11.99	\$12.53	\$13.14	\$13.79
ORG2	2 Yd Bin for Organics/Recycling	Pickup 1x	N/A	119.65	125.04	130.67	137.08	143.80
ORG3	2 Yd Bin for Organics/Recycling	Pickup 2x	N/A	239.27	250.04	261.30	274.11	287.55
ORG4	3 Yd Bin for Organics/Recycling	Pickup 1x	N/A	179.47	187.55	195.99	205.60	215.68
ORG5	3 Yd Bin for Organics/Recycling	Pickup 2x	N/A	358.91	375.07	391.95	411.16	431.31
ORG6	4 Yd Bin for Organics/Recycling	Pickup 1x	N/A	239.27	250.04	261.30	274.11	287.55
ORG7	4 Yd Bin for Organics/Recycling	Pickup 2x	N/A	478.55	500.09	522.60	548.21	575.08
ORG8	6 Yd Bin for Organics/Recycling	Pickup 1x	N/A	358.91	375.07	391.95	411.16	431.31
ORG9	6 Yd Bin for Organics/Recycling	Pickup 2x	N/A	717.82	750.13	783.89	822.31	862.61