



CITY COUNCIL

December 17, 2018

- 1. Call to Order 7:00 P.M. City Hall Council Chambers
- 2. <u>Recitation</u> Pledge of Allegiance to the Flag of the United States of America
- 3. Roll Call
- 4. <u>Consent Agenda</u> Adoption of a proposed resolution that would confirm approval of the following:
 - (a) December 3, 2018 regular session City Council meeting minutes
 - (b) Acknowledge receipt of a report concerning certain administrative transactions since December 3, 2018
- 5. <u>Miscellaneous Public Comments</u>
- 6. <u>City Manager Updates</u>
- 7. Appointments Consideration of appointments to the Downtown Management Board
- 8. Old Business
- (a) Adoption of a proposed resolution approving changes to Downtown parking fees, fines and enforcement hours as recommended by the Downtown Management Board
- (b) Adoption of a proposed resolution establishing electric utility rates for the years of 2019 through 2021
- 9. New Business
- (a) Hear presentation from a representative of Tetra Tech, Ann Arbor, concerning the water and sewer rate study and consider adoption of a proposed resolution that would adjust water and sewer rates for each of the five years beginning in 2019 through 2023
- (b) First reading of a proposed ordinance that would amend the zoning district map to rezone 200 East Lake Street property to B2 Central Business District
- (c) Adoption of a proposed resolution that would authorize the Mayor and City Clerk to execute a contract with the Michigan Department of Transportation for construction of work associated with the 2019 US-31 Reconstruct Project
- (d) Adoption of a proposed resolution that would authorize final amendments to the City's 2018 Annual Budget
- 10. <u>City Council Comments</u>
- 11. Adjournment



City of Petoskey

BOARD:	City Council			
MEETING DATE:	December 17, 2018	PREPARED: December 13, 2018		
AGENDA SUBJECT:	Consent Agenda Resoluti	Consent Agenda Resolution		
RECOMMENDATION :	That the City Council approve this proposed resolution			

The City Council will be asked to adopt a resolution that would approve the following consent agenda items:

- (1) Draft minutes of the December 3, 2018 regular session City Council meetings; and
- (2) Acknowledge receipt of a report from the City Manager concerning all checks that have been issued since December 3, 2018 for contract and vendor claims at \$975,682.15, intergovernmental claims at \$178,728.52, and the December 13 payroll at \$300,372.99 for a total of \$1,454,783.66.

sb Enclosures



City of Petoskey

CITY COUNCIL

December 3, 2018

A regular meeting of the City of Petoskey City Council was held in the City Hall Council Chambers, Petoskey, Michigan, on Monday, December 3, 2018. This meeting was called to order at 7:00 P.M.; then, after a recitation of the Pledge of Allegiance to the Flag of the United States of America, a roll call then determined that the following were

Present: John Murphy, Mayor Kate Marshall, City Councilmember Grant Dittmar, City Councilmember Jeremy Wills, City Councilmember

Absent: Izzy Lyman, City Councilmember

Also in attendance were City Manager Robert Straebel, Clerk-Treasurer Alan Terry and Downtown Director Becky Goodman.

Hear Electric Rate Study Presentation

Dawn Lund of Utility Financial Solutions, LLC, Holland, Michigan, gave a brief presentation regarding the Electric Cost of Service Study and Financial Projection and the methodology used in determining electric service rates based on annual revenue requirements and the costs involved in providing those services to the various customer classes. Ms. Lund also reviewed that the report provides the City with a long-term financial plan, electric cost of service and unbundling rate study that would determine the City's electric-utility revenue requirements for 2019 and beyond; identify cross-subsidies that may exist between rate classes; recommend rate adjustments needed to meet targeted revenue requirements; unbundled electric rates; and identify the appropriate monthly Ready-to-Service Charge for each customer class.

Mayor Murphy asked for public comments and heard an inquiry on rate shock. Ms. Lund reviewed rate amounts.

The Finance Director reported that the Rate Design, which includes rate recommendations, will be presented to City Council at the next regular Council meeting.

Consent Agenda - Resolution No. 19240

Following introduction of the consent agenda for this meeting of December 3, 2018, City Councilmember Marshall moved that, seconded by City Councilmember Wills adoption of the following resolution:

BE IT RESOLVED that the City Council does and hereby confirms that the draft minutes of the November 19, 2018 regular session City Council meeting be and are hereby approved; and

BE IT RESOLVED that receipt by the City Council of a report concerning all checks that had been issued since November 19, for contract and vendor claims at \$735,952.51 intergovernmental claims at \$29,698.32, and the November 29 payroll at \$202,106.01, for a total of \$967,756.84 be and is hereby acknowledged.

Said resolution was adopted by the following vote:

AYES: Marshall, Dittmar, Wills, Murphy (4) NAYS: None (0)

Hear Public Comment

Mayor Murphy asked for public comments and Jim Ehrnst, 702 Elizabeth Street, commented on recreational marijuana and that Charlevoix and Traverse City have taken action; that over 50% of Petoskey voters were in favor of recreational marijuana; that East Jordan and Harbor Springs opted out; and that allowing businesses is an opportunity for the City to receive revenues.

Hear City Manager Updates

The City Manager reviewed that a legal brief was developed by the City Attorney regarding recreational marijuana for Council's review and that there is no rush to opt in or out on commercial operations at this time as the State has one year to promulgate regulations regarding retail shops, growing facilities and other licensing provisions; that winter street parking regulations began December 1 and are in effect until April 1; that the Michigan Recreation and Park Association (mParks) recently selected Phase II of the Greenway Corridor for a "Park Design" award; that City staff was trained last week in the use of Energy Star Portfolio Manager as well as incorporating energy efficiency projects into the annual CIP review process and that the City benchmarked energy usage in Portfolio Manager for both the DPW building and City Hall; that the Planning Commission will hold two public hearings on December 13 concerning rezoning 200 East Lake Street and fence regulations; reviewed downtown bathroom progress and that the new structure should be enclosed by December 24, weather permitting; and that City staff is working on a \$15,000 Healthy Greenspace grant through the Health Department of Northwest Michigan to go towards construction of three pickle ball courts at Riverbend Park.

Councilmembers discussed pedestrian access to stairs, sidewalks and City facilities during the winter.

Discuss Changes to Downtown Parking Fees, Fines and Enforcement Hours

The Downtown Director reviewed that the DMB voted 6-2 to support the Parking Committee's recommendations to City Council and City Manager concerning revisions to the parking fees, fines and enforcement hours. The Downtown Director further reviewed use of past and current parking revenues for various projects and how proposed increase in revenues would be used; that the purpose of additional revenues has always been to aid in funding a future parking structure; that the reserves are increasing, but not fast enough to fund a structure; reviewed proposed fee increases including raising meter fees, raising ticket fines since a \$5 ticket is no incentive to feed the meter, increasing hours of enforcement by an hour until 6:00 P.M., raising meter bag fees and increase monthly tiered permit fees; that there is free parking outside the downtown area; that the DMB discussed accelerated late fees and recommended reduction on those fees; and that the DMB is looking at purchasing new meters that would accept credit cards.

City Councilmembers inquired on how parking lot permits work; commented that changing fees now would aid in funding a ramp as well as parking space turnover; discussed the importance of using revenues for past, current and future projects; and appreciated efforts of the DMB for moving forward on the proposed parking changes.

Mayor Murphy asked for public comments and heard comments to be cautious about raising rates and who they will affect; that proposed changes should be tabled if City staff is not serious about building a parking structure; heard from those opposed to increases; that talk about a parking structure has been ongoing for years and seems greedy; that there is only a real problem about a month out of the year; that meters are important and that the DMB has been funding projects as urged to do so by City Council; and heard that various parking spaces are \$0.25 to park and other areas that are free.

Approve 2019 Meeting Schedule – Resolution No. 19241

The City Manager next reviewed the proposed City Council meeting schedule for 2019 and noted two cancellations due to the same timing as Petoskey School's spring break and Labor Day holiday. The City Manager also noted that dates were flexible if any Councilmembers had concerns.

City Councilmember Marshall moved that, seconded by City Councilmember Dittmar adoption of the following resolution:

WHEREAS, Section 4.4 of the City Charter governing City Council meetings requires the City Council to meet regularly, preferably in the City Council Chambers in the City Hall, on the first and third Mondays of each month; and

WHEREAS, due to the holidays certain scheduling conflicts preclude the City Council from holding meetings on the first and third Mondays of each month; and

WHEREAS, the City Council desires to establish a regular meeting schedule in accordance with the requirements of Section 4.4 of the City Charter for the 2019 calendar year:

NOW, THEREFORE, BE IT RESOLVED that the City Council shall hold its regular meetings in the City Council Chambers in the City Hall on the following dates in 2019:

Monday, January 7 Monday, January 21 Monday, February 4 Monday, February 18 Monday, March 4 Monday, March 18 Monday, April 1 (No Meeting) Monday, April 15 Monday, May 6 Monday, May 20 Monday, June 3 Monday, June 17 Monday, July 1 Monday, July 15 Monday, August 5 Monday, August 19 Monday, September 2 (No Meeting) Monday, September 16 Monday, October 7 Monday, October 21 Monday, November 4 Monday, November 18 Monday, December 2 Monday, December 16

Said resolution was adopted by the following vote:

AYES: Marshall, Dittmar, Wills, Murphy (5) NAYS: None (0)

Council Comments

Mayor Murphy asked for Council comments and there were no comments.

There being no further business to come before the City Council, this December 3, 2018, meeting of the City Council adjourned at 9:00 P.M.

John Murphy, Mayor

Alan Terry, Clerk-Treasurer

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GL Period	Check Issue Date	Check Number	Payee	Invoice GL Account	Check Amount	
12/18	12/12/2018	78341	C. C. UNLIMITED LLC	582-586-775.000	348.96-	V
12/18	12/12/2018	81339	Biskup, Sarah	271-790-958.100	225.00-	
11/18	11/28/2018	82679	24/7 Sewer & Drain Cleaning	101-265-802.000	285.00	v
11/18	11/28/2018		ACCESS LOCKSMITHING INC.	271-790-752.000	35.00	
11/18	11/28/2018	82681	ACH-CHILD SUPPORT	701-000-230.160	160.23	
11/18	11/28/2018		ACH-EFTPS	701-000-230.100	20,163.51	
11/18	11/28/2018		ACH-EFTPS	701-000-230.200	12,200.62	
11/18	11/28/2018		ACH-EFTPS	701-000-230.200	12,200.62	
11/18	11/28/2018		ACH-EFTPS	701-000-230.200	2,853.38	
11/18	11/28/2018		ACH-EFTPS	701-000-230.200	2,853.38	
11/18	11/28/2018	82683	ACH-ICMA 457	701-000-230.700	1,872.07	
11/18	11/28/2018	82683	ACH-ICMA 457	701-000-230.700	5,667.00	
11/18	11/28/2018	82684	Adams, Mary	271-790-958.100	150.00	
11/18	11/28/2018	82685	Alliance Entertainment	271-790-761.100	43.73	
11/18	11/28/2018	82685	Alliance Entertainment	271-790-761.000	246.35	
11/18	11/28/2018	82686	AMAZON CREDIT PLAN	271-790-761.100	38.21	
11/18	11/28/2018	82686	AMAZON CREDIT PLAN	271-790-761.200	192.85	
11/18	11/28/2018		AMAZON CREDIT PLAN	271-790-986.000	297.30	
11/18	11/28/2018		AMAZON CREDIT PLAN	271-790-760.000	46.53	
11/18	11/28/2018		AMAZON CREDIT PLAN	271-790-761.000	11.21	
11/18	11/28/2018		AMAZON CREDIT PLAN	271-790-751.000	12.14	
11/18	11/28/2018		AMERICAN WASTE	582-593-802.000	150.00	
11/18	11/28/2018	82687	-	592-554-802.000	125.00	
11/18	11/28/2018	82687	-	582-586-802.000	125.00	
11/18	11/28/2018	82687	AMERICAN WASTE	582-594-775.000	125.00	
11/18	11/28/2018		AMERICAN WASTE	582-593-802.000	128.50	
11/18	11/28/2018	82688		592-538-850.000	162.29	
11/18	11/28/2018	82689	BEAR RIVER ELECTRIC	271-790-930.000	308.33	
11/18	11/28/2018	82690	BILL'S FARM MARKET	248-540-792.000	1,911.00	
11/18	11/28/2018	82691	Central Lake Armor Express Inc.	101-345-782.000	1,680.00	
11/18	11/28/2018		CHAR-EM UNITED WAY	701-000-230.800	77.00 21.20	
11/18	11/28/2018	82693		101-756-808.010		
11/18 11/18	11/28/2018 11/28/2018	82694 82694	DECKA DIGITAL LLC DECKA DIGITAL LLC	592-551-775.000 101-441-751.000	459.77 204.99	
11/18	11/28/2018	82695	DELTA DENTAL	101-172-724.000	43.05	
11/18	11/28/2018		DELTA DENTAL	101-201-724.000	209.69	
11/18	11/28/2018		DELTA DENTAL	101-208-724.000	33.89	
11/18	11/28/2018		DELTA DENTAL	101-215-724.000	45.75-	
11/18	11/28/2018		DELTA DENTAL	101-265-724.000	21.00	
11/18	11/28/2018			101-268-724.000	39.34	
11/18	11/28/2018		DELTA DENTAL	101-345-724.000	743.17	
11/18	11/28/2018		DELTA DENTAL	101-400-724.000	14.06	
11/18	11/28/2018		DELTA DENTAL	101-441-724.000	97.94	
11/18	11/28/2018	82695	DELTA DENTAL	101-754-724.000	23.47	
11/18	11/28/2018	82695	DELTA DENTAL	101-756-724.000	69.15	
11/18	11/28/2018	82695	DELTA DENTAL	101-770-724.000	92.08	
11/18	11/28/2018	82695	DELTA DENTAL	101-773-724.000	7.92	
11/18	11/28/2018	82695	DELTA DENTAL	101-789-724.000	18.47	
11/18	11/28/2018	82695	DELTA DENTAL	204-481-724.000	150.70	
11/18	11/28/2018	82695	DELTA DENTAL	271-790-724.000	202.58	
11/18	11/28/2018		DELTA DENTAL	514-587-724.000	16.66	
11/18	11/28/2018	82695	DELTA DENTAL	582-588-724.000	222.74	

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11/18	11/28/2018	82695	DELTA DENTAL		202.59
11/18	11/28/2018	82695	DELTA DENTAL	592-560-724.000	66.48
11/18	11/28/2018	82695	DELTA DENTAL	701-000-230.110	1,835.76
11/18	11/28/2018	82695	DERRER OIL CO.	661-598-759.000	2,139.36
11/18	11/28/2018		DTE ENERGY	592-538-920.000	2,139.30 56.61
11/18	11/28/2018	82697		101-265-924.000	611.47
11/18	11/28/2018	82697	DTE ENERGY	582-593-924.000	1,453.28
11/18	11/28/2018	82697	DTE ENERGY	101-773-924.000	50.70
11/18	11/28/2018		DTE ENERGY	101-265-924.000	212.24
11/18	11/28/2018		DTE ENERGY	592-538-920.000	134.10
11/18	11/28/2018		DTE ENERGY	271-790-924.000	164.31
11/18	11/28/2018		DTE ENERGY	101-268-924.000	1,185.37
11/18	11/28/2018	82697		101-770-924.000	193.84
11/18	11/28/2018		DTE ENERGY	514-587-802.100	113.09
11/18	11/28/2018	82697		592-538-920.000	162.99
11/18	11/28/2018		DTE ENERGY	592-551-920.000	103.23
11/18	11/28/2018		DTE ENERGY	592-551-920.000	3,173.68
11/18	11/28/2018	82697	DTE ENERGY	271-790-924.000	389.53
11/18	11/28/2018	82697	DTE ENERGY	592-555-920.000	50.92
11/18	11/28/2018	82697	DTE ENERGY	101-345-920.000	671.23
11/18	11/28/2018	82697	DTE ENERGY	592-558-920.000	31.00
11/18	11/28/2018	82697	DTE ENERGY	592-538-920.000	46.10
11/18	11/28/2018	82697	DTE ENERGY	101-345-920.100	431.55
11/18	11/28/2018	82698	DUNN'S BUSINESS SOLUTIONS	204-481-751.000	19.08
11/18	11/28/2018	82698	DUNN'S BUSINESS SOLUTIONS	582-593-751.000	19.08
11/18	11/28/2018	82698	DUNN'S BUSINESS SOLUTIONS	582-588-751.000	19.08
11/18	11/28/2018	82698	DUNN'S BUSINESS SOLUTIONS	592-549-751.000	19.08
11/18	11/28/2018	82698	DUNN'S BUSINESS SOLUTIONS	592-560-751.000	19.09
11/18	11/28/2018	82698	DUNN'S BUSINESS SOLUTIONS	661-598-751.000	19.09
11/18	11/28/2018	82698	DUNN'S BUSINESS SOLUTIONS	204-481-751.000	20.37
11/18	11/28/2018	82698	DUNN'S BUSINESS SOLUTIONS	582-593-751.000	20.37
11/18	11/28/2018	82698	DUNN'S BUSINESS SOLUTIONS	582-588-751.000	20.38
11/18	11/28/2018	82698	DUNN'S BUSINESS SOLUTIONS	592-549-751.000	20.38
11/18	11/28/2018	82698	DUNN'S BUSINESS SOLUTIONS	592-560-751.000	20.38
11/18	11/28/2018	82698	DUNN'S BUSINESS SOLUTIONS	661-598-751.000	20.38
11/18	11/28/2018		FASTENAL COMPANY	592-549-767.000	44.97
11/18	11/28/2018		GALE/CENGAGE LEARNING	271-790-761.000	52.98
11/18	11/28/2018		GALE/CENGAGE LEARNING	271-790-761.000	20.99
11/18	11/28/2018	82701	· •	514-587-912.000	469.11
11/18	11/28/2018	82701	Goodman, Becky	248-739-886.000	25.44
11/18	11/28/2018		Great Lakes Pipe & Supply	592-551-775.000	59.46
11/18	11/28/2018		GRP ENGINEERING INC.	582-588-802.000	1,280.79
11/18	11/28/2018	82703		582-588-802.000	410.42
11/18	11/28/2018	82704	•	271-790-802.000	360.00
11/18	11/28/2018	82705		701-000-230.900	350.00
11/18	11/28/2018		-	271-790-802.000	330.00
11/18	11/28/2018		K & J SEPTIC SERVICE LLC	101-265-970.000	435.00
11/18	11/28/2018		Klingelsmith, Kendall	101-756-880.000	8.00
11/18	11/28/2018			661-598-932.000	49.35
11/18 11/18	11/28/2018			661-598-932.000	49.35 36.75
11/18 11/18	11/28/2018 11/28/2018		KRING CHEVROLET CADILLAC, DAVE KRING CHEVROLET CADILLAC, DAVE	661-598-932.000 661-598-932.000	36.75 49.35

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11/18	11/28/2018	82709	KRING CHEVROLET CADILLAC, DAVE	661-598-932.000	204.48
11/18	11/28/2018	82709	KRING CHEVROLET CADILLAC, DAVE	661-598-932.000	623.01
11/18	11/28/2018	82710	KSS Enterprises	101-268-775.000	120.99
11/18	11/28/2018	82711	LEXISNEXIS RISK DATA MGT	101-208-802.000	50.00
11/18	11/28/2018	82712	MANAGEMENT & BEHAVIOR	101-345-784.000	1,100.00
11/18	11/28/2018	82713	MICHIGAN OFFICEWAYS INC.	271-790-751.000	19.15
11/18	11/28/2018	82714	MIKULSKI, MATTHEW	101-345-912.000	33.28
11/18	11/28/2018	82715	National Association of	101-345-915.000	155.00
11/18	11/28/2018	82716	NORTHERN A-1 SERVICES KALKASKA	592-556-802.000	1,039.50
11/18	11/28/2018	82716	NORTHERN A-1 SERVICES KALKASKA	592-556-802.000	891.00
11/18	11/28/2018	82717	Oelke, Linda	271-790-802.000	120.00
11/18	11/28/2018	82718	Oil Paintings	248-739-880.900	400.00
11/18	11/28/2018	82719	PAC2	271-790-802.000	7,001.00
11/18	11/28/2018	82720	PARKER, MICHAEL	101-345-912.000	474.60
11/18	11/28/2018	82721	Penguin Random House	271-790-761.100	22.50
11/18	11/28/2018	82721	Penguin Random House	271-790-761.100	37.50
11/18	11/28/2018	82721	Penguin Random House	271-790-761.100	33.75
11/18	11/28/2018	82721	Penguin Random House	271-790-761.100	45.00
11/18	11/28/2018	82721	Penguin Random House	271-790-761.100	24.00
11/18	11/28/2018	82721	Penguin Random House	271-790-761.100	15.00
11/18	11/28/2018	82722	Petoskey Machining & Hydraulic	592-545-775.000	105.00
11/18	11/28/2018	82723	PETOSKEY REGIONAL CHAMBER	101-172-860.000	30.00
11/18	11/28/2018	82723	PETOSKEY REGIONAL CHAMBER	101-770-912.000	30.00
11/18	11/28/2018	82723	PETOSKEY REGIONAL CHAMBER	248-739-774.000	30.00
11/18	11/28/2018	82723	PETOSKEY REGIONAL CHAMBER	101-101-860.000	30.00
11/18	11/28/2018	82723	PETOSKEY REGIONAL CHAMBER	271-790-880.000	240.00
11/18	11/28/2018	82724	POWER LINE SUPPLY	582-586-775.000	1,264.00
11/18	11/28/2018	82724	POWER LINE SUPPLY	582-586-775.000	53.00
11/18	11/28/2018	82724	POWER LINE SUPPLY	582-592-775.000	109.60
11/18	11/28/2018	82724	POWER LINE SUPPLY	582-593-785.000	17.28
11/18	11/28/2018	82724	POWER LINE SUPPLY	582-586-775.000	43.00
11/18	11/28/2018	82724		582-593-785.000	13.81
11/18	11/28/2018	82725	PRANTERA, MARY SUE	271-790-912.000	132.44
11/18	11/28/2018	82726	Priority Health	101-172-724.000	1,312.09
11/18	11/28/2018	82726	Priority Health	101-201-724.000	4,197.99
11/18	11/28/2018	82726	Priority Health	101-208-724.000	770.45
11/18	11/28/2018	82726	Priority Health	101-215-724.000	385.23
11/18	11/28/2018	82726	Priority Health	101-265-724.000	531.62
11/18	11/28/2018	82726	Priority Health	101-268-724.000	1,144.14
11/18	11/28/2018	82726	Priority Health	101-345-724.000	17,225.49
11/18	11/28/2018	82726	Priority Health	101-400-724.000	385.23
11/18	11/28/2018	82726	Priority Health	101-441-724.000	2,544.83
11/18	11/28/2018 11/28/2018	82726	Priority Health	101-754-724.000	520.06
11/18 11/18		82726 82726	Priority Health Priority Health	101-756-724.000 101-770-724.000	1,752.78 1,906.89
11/18	11/28/2018 11/28/2018	82726	Priority Health	101-773-724.000	277.36
11/18		82726	-		647.19
11/18	11/28/2018 11/28/2018	82726	Priority Health Priority Health	101-789-724.000 204-481-724.000	3,279.34
11/18	11/28/2018	82726	Priority Health	204-461-724.000	5,040.35
11/18	11/28/2018	82726	Priority Health	514-587-724.000	5,040.35 385.23
11/18	11/28/2018	82726	Priority Health	582-588-724.000	4,776.85
11/18	11/28/2018	82726	Priority Health	592-549-724.000	4,625.65
	11/20/2010	52720		002 010-124.000	1,020.00

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11/18	11/28/2018	82726	•	592-560-724.000	1,541.88
11/18	11/28/2018		PROCLEAN NORTH	592-554-802.000	786.50
11/18	11/28/2018	82727	PROCLEAN NORTH	582-593-930.000	1,463.00
11/18	11/28/2018	82728	-	101-756-767.000	27.82
11/18	11/28/2018	82729	SOLUTIONS ELECTRIC INC.	204-481-802.000	947.12
11/18	11/28/2018	82729	SOLUTIONS ELECTRIC INC.	101-345-802.000	208.20
11/18	11/28/2018	82730	Spok	204-481-850.000	2.78
11/18	11/28/2018	82730	•	582-588-850.000	2.78
11/18	11/28/2018	82730		592-549-850.000	2.78
11/18	11/28/2018	82730		592-560-850.000	2.78
11/18	11/28/2018	82730	•	661-598-850.000	2.78
11/18	11/28/2018	82731		582-586-775.000	313.85
11/18	11/28/2018	82731	STANDARD ELECTRIC COMPANY	582-010-111.000	1,226.92
11/18	11/28/2018	82731	STANDARD ELECTRIC COMPANY	582-592-775.000	34.56
11/18	11/28/2018		Starr Garter dba Techplex	271-790-802.000	116.66
11/18	11/28/2018	82733		592-551-775.000	223.42
11/18	11/28/2018	82734		101-268-775.000	784.80
11/18	11/28/2018	82734		101-345-751.000	1,029.00
11/18	11/28/2018		SYSCO GRAND RAPIDS	101-268-775.000	205.80
11/18	11/28/2018		Trace Analytical Laboratories LLC	592-553-802.000	280.00
11/18	11/28/2018		TRUCK & TRAILER SPECIALTIES	661-598-931.000	7,083.80
11/18	11/28/2018		Valley City Linen	271-790-752.000	25.00
11/18	11/28/2018		Valley City Linen	271-790-752.000	25.00
11/18	11/28/2018	82737		271-790-752.000	25.00
11/18	11/28/2018	82737		271-790-752.000	25.00
11/18	11/28/2018	82737	5 5	271-790-752.000	25.00
11/18	11/28/2018	82738		101-172-724.000	27.11
11/18	11/28/2018	82738		101-201-724.000	109.54
11/18	11/28/2018	82738		101-208-724.000	20.05
11/18	11/28/2018	82738		101-215-724.000	40.09
11/18	11/28/2018	82738		101-265-724.000	12.09
11/18	11/28/2018		VSP	101-268-724.000	26.45
11/18	11/28/2018	82738		101-345-724.000	422.92
11/18	11/28/2018		VSP	101-400-724.000	10.73
11/18	11/28/2018	82738		101-441-724.000	57.49
11/18	11/28/2018	82738		101-754-724.000	10.42
11/18	11/28/2018	82738		101-756-724.000	44.98
11/18	11/28/2018	82738		101-770-724.000	49.59
11/18	11/28/2018	82738		101-773-724.000	4.92
11/18	11/28/2018	82738		101-789-724.000	11.46
11/18	11/28/2018	82738		204-481-724.000	67.20
11/18	11/28/2018	82738		271-790-724.000	123.67
11/18	11/28/2018	82738		514-587-724.000	10.73
11/18	11/28/2018	82738		582-588-724.000	115.19
11/18	11/28/2018	82738		592-549-724.000	118.85
11/18	11/28/2018	82738		592-560-724.000	40.09
11/18	11/28/2018		WINDEMULLER	592-558-802.000	218.18
11/18	11/28/2018	82740		701-000-230.190	1,899.56
11/18	11/28/2018	82740		101-172-724.000	19.16
11/18	11/28/2018	82740		101-201-724.000	44.89
11/18	11/28/2018	82740		101-208-724.000	21.35
11/18	11/28/2018	82740	Dearborn National Life Insurance Co	101-215-724.000	21.35

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11/18	11/28/2018	82740	Dearborn National Life Insurance Co	101-265-724.000	4.79
11/18	11/28/2018	82740	Dearborn National Life Insurance Co	101-268-724.000	11.98
11/18	11/28/2018	82740	Dearborn National Life Insurance Co	101-345-724.000	504.19
11/18	11/28/2018	82740	Dearborn National Life Insurance Co	101-400-724.000	9.58
11/18	11/28/2018	82740	Dearborn National Life Insurance Co	101-441-724.000	29.22
11/18	11/28/2018	82740	Dearborn National Life Insurance Co	101-754-724.000	5.27
11/18	11/28/2018	82740	Dearborn National Life Insurance Co	101-756-724.000	18.20
11/18	11/28/2018	82740	Dearborn National Life Insurance Co	101-770-724.000	32.57
11/18	11/28/2018	82740	Dearborn National Life Insurance Co	101-773-724.000	2.87
11/18	11/28/2018	82740	Dearborn National Life Insurance Co	101-789-724.000	6.71
11/18	11/28/2018	82740	Dearborn National Life Insurance Co	204-481-724.000	68.43
11/18	11/28/2018	82740	Dearborn National Life Insurance Co	271-790-724.000	69.25
11/18	11/28/2018	82740	Dearborn National Life Insurance Co	514-587-724.000	15.81
11/18	11/28/2018	82740		582-588-724.000	73.29
11/18	11/28/2018	82740	Dearborn National Life Insurance Co	592-549-724.000	59.67
11/18	11/28/2018	82740	Dearborn National Life Insurance Co	592-560-724.000	19.16
12/18	12/05/2018	82749	5H Irrigation & Maintenance	101-770-802.000	2,002.50
12/18	12/05/2018	82750	ALL-PHASE ELECTRIC SUPPLY	101-265-775.000	16.32-
12/18	12/05/2018	82750	ALL-PHASE ELECTRIC SUPPLY	582-586-775.000	126.00
12/18	12/05/2018	82751	Alro Steel Corporation	203-475-775.000	119.45
12/18	12/05/2018	82751	Alro Steel Corporation	202-475-775.000	119.00
12/18	12/05/2018	82751	Alro Steel Corporation	202-475-775.000	62.12
12/18	12/05/2018	82751	Alro Steel Corporation	203-475-775.000	62.12
12/18	12/05/2018	82752	ALTEC INDUSTRIES INC.	661-598-932.000	18.13
12/18	12/05/2018	82753	AMERICAN WATER WORKS ASSOC.	592-549-915.000	218.00
12/18	12/05/2018	82753	AMERICAN WATER WORKS ASSOC.	592-549-915.000	218.00
12/18	12/05/2018	82753	AMERICAN WATER WORKS ASSOC.	592-549-915.000	218.00
12/18	12/05/2018	82753	AMERICAN WATER WORKS ASSOC.	592-549-915.000	218.00
12/18	12/05/2018	82754	Applied Pavement Markings	202-477-802.000	10,822.60
12/18	12/05/2018	82754	Applied Pavement Markings	203-477-802.000	4,129.00
12/18	12/05/2018	82754	Applied Pavement Markings	101-770-802.000	1,572.40
12/18	12/05/2018	82754	Applied Pavement Markings	101-789-802.000	412.60
12/18	12/05/2018	82754	Applied Pavement Markings	514-587-802.000	1,653.00
12/18	12/05/2018	82754	Applied Pavement Markings	582-593-930.000	114.00
12/18	12/05/2018	82754	Applied Pavement Markings	202-477-802.000	663.75
12/18	12/05/2018	82754	Applied Pavement Markings	203-477-802.000	663.75
12/18	12/05/2018	82755	AT&T	101-172-850.000	336.05
12/18	12/05/2018	82755	AT&T	101-201-850.000	179.23
12/18	12/05/2018	82755	AT&T	101-208-850.000	112.02
12/18	12/05/2018	82755	AT&T	101-257-850.000	112.02
12/18	12/05/2018	82755	AT&T	101-215-850.000	89.61
12/18	12/05/2018	82755		101-345-850.000	246.45
12/18	12/05/2018	82755	AT&T	101-400-850.000	112.02
12/18	12/05/2018	82755	AT&T	101-756-850.000	134.42
12/18	12/05/2018	82755		101-441-850.000	201.63
12/18	12/05/2018	82755		204-481-850.000	67.21
12/18	12/05/2018	82755		204-481-850.000	67.21
12/18	12/05/2018	82755		582-588-850.000	224.04
12/18	12/05/2018	82755		582-593-850.000	89.61
12/18	12/05/2018	82755		592-549-850.000	134.42
12/18	12/05/2018	82755		592-560-850.000	134.42
12/18	12/05/2018	82755	AT&T	592-560-850.000	321.72

M = Manual Check, V = Void Check

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12/18	12/05/2018	82755	ΔΤ&Τ	592-560-850.000	138.48
12/18	12/05/2018	82755		592-558-920.000	156.86
12/18	12/05/2018	82755		592-538-850.000	153.34
12/18	12/05/2018	82755		592-538-850.000	153.34
12/18	12/05/2018	82756	BECKETT & RAEDER INC.	247-751-802.000	840.00
12/18	12/05/2018	82757		204-481-802.000	1,856.00
12/18	12/05/2018	82757	U	592-020-342.000	4,488.80
12/18	12/05/2018	82758	C2AE	204-481-802.000	35,581.68
12/18	12/05/2018	82758	C2AE	204-481-802.000	3,616.86
12/18	12/05/2018	82759	CCP INDUSTRIES INC.	204-481-767.000	64.80
12/18	12/05/2018	82759	CCP INDUSTRIES INC.	661-598-767.000	32.41
12/18	12/05/2018	82759	CCP INDUSTRIES INC.	592-560-767.000	32.41
12/18	12/05/2018	82760	CENTER POINT LARGE PRINT	271-790-760.000	27.27
12/18	12/05/2018	82761	Cintas Corp #729	204-481-767.000	55.77
12/18	12/05/2018	82761	Cintas Corp #729	582-588-767.000	64.79
12/18	12/05/2018	82761	Cintas Corp #729	592-560-767.000	28.71
12/18	12/05/2018	82761	•	592-549-767.000	28.71
12/18	12/05/2018	82761	•	582-593-802.000	29.77
12/18	12/05/2018	82761	•	204-481-767.000	55.77
12/18	12/05/2018	82761	•	582-588-767.000	64.79
12/18	12/05/2018	82761	Cintas Corp #729	592-560-767.000	28.71
12/18	12/05/2018	82761	Cintas Corp #729	592-549-767.000	28.71
12/18	12/05/2018	82761	Cintas Corp #729	101-268-802.000	14.79
12/18	12/05/2018	82761	Cintas Corp #729	592-544-802.000	43.28
12/18	12/05/2018	82761	Cintas Corp #729	592-549-767.000	28.71
12/18	12/05/2018	82761	Cintas Corp #729	592-560-767.000	28.71
12/18	12/05/2018	82761	Cintas Corp #729	582-588-767.000	64.79
12/18	12/05/2018	82761	Cintas Corp #729	204-481-767.000	55.77
12/18	12/05/2018	82761	Cintas Corp #729	582-593-802.000	29.77
12/18	12/05/2018	82761	Cintas Corp #729	204-481-767.000	46.34
12/18	12/05/2018	82761	•	582-588-767.000	37.77
12/18	12/05/2018	82761	•	592-560-767.000	19.60
12/18 12/18	12/05/2018	82761 82761	Cintas Corp #729	592-549-767.000	19.60
12/18	12/05/2018	82761	Cintas Corp #729 Cintas Corp #729	101-268-802.000 592-544-802.000	14.79 43.28
12/18	12/05/2018 12/05/2018		Cintas Corp #729 CINTAS CORPORATION	582-593-930.000	26.26
12/18	12/05/2018		CINTAS CORPORATION	661-598-767.000	26.27
12/18	12/05/2018		CINTAS CORPORATION	592-551-775.000	15.72
12/18	12/05/2018		CINTAS CORPORATION	582-588-912.000	533.80
12/18	12/05/2018		CINTAS CORPORATION	592-549-915.000	533.80
12/18	12/05/2018		CINTAS CORPORATION	204-481-912.000	533.80
12/18	12/05/2018		CITY TREAS. FOR UTILITY BILLS	101-265-920.000	1,021.00
12/18	12/05/2018		CITY TREAS. FOR UTILITY BILLS	101-268-920.000	1,246.18
12/18	12/05/2018		CITY TREAS. FOR UTILITY BILLS	101-345-920.000	3,224.15
12/18	12/05/2018		CITY TREAS. FOR UTILITY BILLS	101-345-920.100	395.82
12/18	12/05/2018		CITY TREAS. FOR UTILITY BILLS	101-754-920.000	24.54
12/18	12/05/2018		CITY TREAS. FOR UTILITY BILLS	101-770-920.000	1,624.88
12/18	12/05/2018		CITY TREAS. FOR UTILITY BILLS	101-773-920.000	1,406.78
12/18	12/05/2018		CITY TREAS. FOR UTILITY BILLS	101-789-920.000	1,265.75
12/18	12/05/2018	82763	CITY TREAS. FOR UTILITY BILLS	202-475-920.000	162.50
12/18	12/05/2018	82763	CITY TREAS. FOR UTILITY BILLS	204-448-920.000	2,600.00
12/18	12/05/2018	82763	CITY TREAS. FOR UTILITY BILLS	271-790-920.000	2,746.32

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12/18	12/05/2018	82763	CITY TREAS. FOR UTILITY BILLS	514-587-802.100	61.54
12/18	12/05/2018		CITY TREAS. FOR UTILITY BILLS	514-587-920.000	69.64
12/18	12/05/2018	82763		582-586-920.000	90.09
12/18	12/05/2018		CITY TREAS. FOR UTILITY BILLS	582-593-920.000	1,107.56
12/18	12/05/2018		CITY TREAS. FOR UTILITY BILLS	592-538-920.000	8,797.28
12/18	12/05/2018		CITY TREAS. FOR UTILITY BILLS	592-542-920.000	90.11
12/18	12/05/2018	82763	CITY TREAS. FOR UTILITY BILLS	592-551-920.000	18,138.12
12/18	12/05/2018	82763	CITY TREAS. FOR UTILITY BILLS	592-555-920.000	1,169.03
12/18	12/05/2018	82764	Collias-Glaser, Hellene Kay	271-790-802.000	795.00
12/18	12/05/2018	82765	Costume Specialists	271-790-958.100	280.00
12/18	12/05/2018		Cowell, Don	248-540-882.200	250.00
12/18	12/05/2018	82767	CUMMINS BRIDGEWAY LLC	101-345-802.100	188.97
12/18	12/05/2018	82768	DTE ENERGY	101-268-970.000	524.00
12/18	12/05/2018	82769	ELMER'S CRANE AND DOZER INC.	592-556-802.000	3,376.50
12/18	12/05/2018	82770		703-040-222.218	4,536.20
12/18	12/05/2018	82770		703-040-228.218	6,401.53
12/18	12/05/2018	82770		703-040-229.218	3,644.08
12/18	12/05/2018	82770		703-040-230.218	7,533.58
12/18	12/05/2018		EMMET COUNTY TREASURER	703-040-231.218	1,673.04
12/18	12/05/2018		EMMET COUNTY TREASURER	703-040-232.218	697.42
12/18	12/05/2018		EMMET COUNTY TREASURER	703-040-236.218	7,370.46
12/18	12/05/2018		EMMET COUNTY TREASURER	703-040-237.218	1,529.19
12/18	12/05/2018	82771	•	101-228-802.000	8,654.00
12/18	12/05/2018		Englebrecht, Robert	101-257-802.100	3,750.00
12/18	12/05/2018	82773		204-010-111.000	91.00
12/18	12/05/2018	82773		592-010-111.000	1,865.60
12/18	12/05/2018	82774		248-540-882.200	299.70
12/18	12/05/2018		FASTENAL COMPANY	582-586-775.000	91.50
12/18 12/18	12/05/2018 12/05/2018	82775	FASTENAL COMPANY FASTENAL COMPANY	661-598-785.000	6.00 154.79
12/18	12/05/2018		FOCHTMAN'S AUTO & TRUCK PARTS	661-598-931.000 661-598-931.000	3.52
12/18	12/05/2018		FOCHTMAN'S AUTO & TRUCK PARTS	661-598-932.000	20.29
12/18	12/05/2018		FOCHTMAN'S AUTO & TRUCK PARTS	661-010-111.000	29.44
12/18	12/05/2018		FOCHTMAN'S AUTO & TRUCK PARTS	661-598-932.000	104.90
12/18	12/05/2018		FOCHTMAN'S AUTO & TRUCK PARTS	661-010-111.000	74.63
12/18	12/05/2018		FOCHTMAN'S AUTO & TRUCK PARTS	661-598-785.000	75.50
12/18	12/05/2018		FOCHTMAN'S AUTO & TRUCK PARTS	661-010-111.000	29.44-
12/18	12/05/2018		FOCHTMAN'S AUTO & TRUCK PARTS	661-010-111.000	29.44
12/18	12/05/2018		FOCHTMAN'S AUTO & TRUCK PARTS	661-010-111.000	5.16
12/18	12/05/2018		FOCHTMAN'S AUTO & TRUCK PARTS	592-556-775.000	17.98
12/18	12/05/2018		FOCHTMAN'S AUTO & TRUCK PARTS	592-547-775.000	716.00
12/18	12/05/2018		FOCHTMAN'S AUTO & TRUCK PARTS	101-345-775.000	93.84
12/18	12/05/2018	82776	FOCHTMAN'S AUTO & TRUCK PARTS	101-268-775.000	8.07
12/18	12/05/2018	82776	FOCHTMAN'S AUTO & TRUCK PARTS	661-010-111.000	4.81
12/18	12/05/2018	82776	FOCHTMAN'S AUTO & TRUCK PARTS	661-598-785.000	20.40
12/18	12/05/2018	82776	FOCHTMAN'S AUTO & TRUCK PARTS	661-598-932.000	11.09
12/18	12/05/2018	82776	FOCHTMAN'S AUTO & TRUCK PARTS	661-598-932.000	22.92
12/18	12/05/2018	82776	FOCHTMAN'S AUTO & TRUCK PARTS	661-010-111.000	6.65
12/18	12/05/2018	82776	FOCHTMAN'S AUTO & TRUCK PARTS	661-598-759.000	60.41
12/18	12/05/2018		FOCHTMAN'S AUTO & TRUCK PARTS	661-598-785.000	10.98
12/18	12/05/2018		FOCHTMAN'S AUTO & TRUCK PARTS	661-010-111.000	8.97
12/18	12/05/2018	82776	FOCHTMAN'S AUTO & TRUCK PARTS	661-598-931.000	23.38

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12/18	12/05/2018	82776	FOCHTMAN'S AUTO & TRUCK PARTS	661-598-785.000	74.24
12/18	12/05/2018	82776	FOCHTMAN'S AUTO & TRUCK PARTS	661-010-111.000	8.97
12/18	12/05/2018	82776	FOCHTMAN'S AUTO & TRUCK PARTS	101-268-775.000	38.20
12/18	12/05/2018	82776	FOCHTMAN'S AUTO & TRUCK PARTS	101-770-775.000	4.18
12/18	12/05/2018	82776	FOCHTMAN'S AUTO & TRUCK PARTS	661-598-931.000	4.18
12/18	12/05/2018	82776	FOCHTMAN'S AUTO & TRUCK PARTS	661-598-932.000	124.49
12/18	12/05/2018	82777	Freshwater Charch	101-265-970.000	39,650.40
12/18	12/05/2018	82778	GALE/CENGAGE LEARNING	271-790-760.000	21.00
12/18	12/05/2018	82778	GALE/CENGAGE LEARNING	271-790-760.000	21.00
12/18	12/05/2018	82779	Gibby's Garage	514-587-708.000	34.00
12/18	12/05/2018	82779	Gibby's Garage	582-593-930.000	68.00
12/18	12/05/2018	82779	Gibby's Garage	514-587-931.000	238.00
12/18	12/05/2018	82779	Gibby's Garage	661-598-931.000	136.00
12/18	12/05/2018	82779	Gibby's Garage	661-598-932.000	816.00
12/18	12/05/2018	82779	Gibby's Garage	582-593-930.000	102.00
12/18	12/05/2018	82779	Gibby's Garage	661-598-931.000	816.00
12/18	12/05/2018	82779	Gibby's Garage	661-598-932.000	170.00
12/18	12/05/2018	82779		202-475-802.000	68.00
12/18	12/05/2018	82779	Gibby's Garage Gibby's Garage	202-475-802.000	68.00
12/18	12/05/2018	82779		592-547-802.000	34.00
12/18		82779	Gibby's Garage Gibby's Garage		34.00
12/18	12/05/2018	82779		582-586-802.000	
	12/05/2018	82779	Gibby's Garage	661-598-931.000	340.00 476.00
12/18	12/05/2018	82779	Gibby's Garage	661-598-932.000	136.00
12/18	12/05/2018	82780	Gibby's Garage	582-593-930.000	
12/18	12/05/2018		Gibson Excavating LLC GINOP SALES INC.	101-770-802.000	1,735.00
12/18	12/05/2018	82781 82781	GINOP SALES INC.	661-598-931.000	111.30
12/18 12/18	12/05/2018			661-598-931.000	349.37
12/18	12/05/2018	82782	Greenwell Machine Shop	592-542-775.000	95.20
12/18	12/05/2018	82783 82784	Haviland Products Company	592-540-783.000	2,743.92
	12/05/2018 12/05/2018	82785	Himebauch, Kelly L	271-790-802.000	150.00
12/18	12/05/2018		Jakeway, Patricia	271-790-802.000	240.00
12/18		82786		248-540-882.800 101-345-802.000	200.00
12/18	12/05/2018	82787			15.00
12/18	12/05/2018	82788		271-790-958.100	9.54
12/18	12/05/2018	82788	MEYERSON, VALERIE MEYERSON, VALERIE	271-790-751.000 271-790-912.000	32.89
12/18	12/05/2018				8.00
12/18	12/05/2018			271-790-958.200	27.00
12/18	12/05/2018			271-790-912.000	70.85
12/18	12/05/2018		MEYERSON, VALERIE	271-790-880.000	41.04
12/18	12/05/2018	82789		661-598-931.000	7.22
12/18	12/05/2018		Midwest Tape	271-790-761.000	284.90
12/18	12/05/2018	82791		248-739-880.200	5,592.43
12/18	12/05/2018		mParks	101-756-912.000	10.00
12/18	12/05/2018		Music Makers of Petoskey, The	101-754-775.000	52.88
12/18	12/05/2018		NORTHERN A-1 SERVICES KALKASKA	592-554-802.000	6,170.00
12/18	12/05/2018		OMNIPARK INC.	514-587-775.000	178.00
12/18	12/05/2018	82796		101-345-775.000	1,175.81
12/18	12/05/2018	82796		101-345-775.000	181.90
12/18	12/05/2018	82796		101-345-775.000	182.87
12/18	12/05/2018	82797		248-540-882.800	100.00
12/18	12/05/2018		PETOSKEY PUBLIC SCHOOLS	703-040-236.218	9,969.96
12/18	12/05/2018	82798	PETOSKEY PUBLIC SCHOOLS	703-040-237.218	1,447.76

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12/18	12/05/2018		PETOSKEY PUBLIC SCHOOLS	703-040-237.218	1,013.00
12/18	12/05/2018		PETOSKEY PUBLIC SCHOOLS	703-040-237.218	430.40
12/18	12/05/2018		PETOSKEY PUBLIC SCHOOLS	703-040-233.000	205.47
12/18	12/05/2018		PETOSKEY PUBLIC SCHOOLS	703-040-233.000	35.27
12/18	12/05/2018	82798	PETOSKEY PUBLIC SCHOOLS	703-040-233.000	24.74
12/18	12/05/2018	82798	PETOSKEY PUBLIC SCHOOLS	703-040-233.000	10.47
12/18	12/05/2018	82799	Petoskey Towing Inc.	661-598-932.000	89.00
12/18	12/05/2018		Petoskey Urgent Care	204-481-802.000	442.00
12/18	12/05/2018		RECORD-EAGLE, THE	271-790-760.400	352.83
12/18	12/05/2018		Rowland, Kimberly	271-790-802.000	270.00
12/18	12/05/2018	82803	Scientific Brake & Equipment	661-598-932.000	454.14
12/18	12/05/2018	82803	Scientific Brake & Equipment	661-598-932.000	22.58
12/18	12/05/2018	82804	Sign & Design	514-587-884.000	480.00
12/18	12/05/2018	82805	Spectrum Business	592-560-850.000	35.07
12/18	12/05/2018		STANDARD ELECTRIC COMPANY	582-584-775.000	122.08
12/18	12/05/2018	82807	5	202-451-802.000	1,345.39
12/18	12/05/2018	82807	State of Michigan - MDOT	202-451-802.000	19,499.58
12/18	12/05/2018	82808	State of Michigan-Department of LARA	582-081-642.300	3,727.44
12/18	12/05/2018	82808	State of Michigan-Department of LARA	582-081-642.400	731.91
12/18	12/05/2018	82808	State of Michigan-Department of LARA	582-081-642.500	18.60
12/18	12/05/2018		State of Michigan-Department of LARA	582-081-642.200	167.40
12/18	12/05/2018	82809	TAYLOR RENTAL CENTER	101-770-985.000	134.75
12/18	12/05/2018	82809	TAYLOR RENTAL CENTER	248-540-882.200	125.00
12/18	12/05/2018	82809	TAYLOR RENTAL CENTER	101-770-985.000	38.50
12/18	12/05/2018	82810	T-Mobile	271-790-850.000	188.40
12/18	12/05/2018	82811	Trafficalm Systems	101-345-985.000	4,223.24
12/18	12/05/2018	82811	Trafficalm Systems	202-475-775.000	2,111.61
12/18	12/05/2018		TROPHY CASE, THE	514-587-775.000	10.00
12/18	12/05/2018	82813	Up North Services	514-587-802.000	1,592.00
12/18	12/05/2018	82814	VAN'S BUSINESS MACHINES	101-345-751.000	98.38
12/18	12/05/2018	82815	Verdin Company, The	101-265-802.000	630.00
12/18	12/05/2018	82816	West Marine Pro	101-208-751.000	251.92
12/18	12/05/2018	82817	•	703-040-222.218	3,786.66
12/18	12/05/2018	82817	Emmet County Treasurer	703-040-228.218	4,684.55
12/18	12/05/2018	82817	5	703-040-233.000	92.48
12/18	12/05/2018		Emmet County Treasurer	703-040-233.000	114.39
12/18	12/12/2018		5H Irrigation & Maintenance	101-770-802.000	120.00
12/18	12/12/2018		Alliance Entertainment	271-790-761.000	335.83
12/18	12/12/2018		Alliance Entertainment	271-790-761.000	511.44
12/18	12/12/2018		Alliance Entertainment	271-790-761.000	209.40
12/18	12/12/2018		AMERIGAS	592-547-775.000	17.67
12/18	12/12/2018	82821		582-593-850.000	126.64
12/18	12/12/2018		AT&T LONG DISTANCE	582-588-850.000	44.77
12/18	12/12/2018		Biskup, Sarah	271-790-958.100	33.41
12/18	12/12/2018		BRADFORD MASTER DRY CLEANERS	101-345-775.000	314.70
12/18	12/12/2018		CHAR-EM UNITED WAY	701-000-230.800	77.00
12/18	12/12/2018		COMPLETE PAINT & SUPPLIES	101-770-775.000	178.94
12/18	12/12/2018		DERRER OIL CO.	661-598-759.000	1,525.73
12/18	12/12/2018		Dinges Fire Company	101-345-985.000	2,741.97
12/18	12/12/2018		Dinges Fire Company	101-345-985.000	2,269.97
12/18	12/12/2018		Dinon Law PLLC	101-266-802.000	647.50
12/18	12/12/2018	82830	EMMET CO. DEPT OF PUBLIC WORKS	101-529-802.000	6,241.30

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12/18	12/12/2018	82831	EMMET COUNTY CLERK	101-262-802.000	1,738.09
12/18	12/12/2018	82832	ENVIRONMENTAL RESOURCE ASSOC.	592-553-802.000	196.35
12/18	12/12/2018	82833	ENVISIONWARE INC.	271-790-986.000	14,806.45
12/18	12/12/2018	82833	ENVISIONWARE INC.	271-790-986.000	5,470.00
12/18	12/12/2018	82833	ENVISIONWARE INC.	271-790-986.000	516.00
12/18	12/12/2018		FIRST NATIONAL BANK OMAHA	248-739-880.200	280.52
12/18	12/12/2018		FIRST NATIONAL BANK OMAHA	248-540-882.190	14.80
12/18	12/12/2018	82834		248-540-882.200	31.77
12/18	12/12/2018	82834		101-262-751.000	63.68
12/18	12/12/2018	82834		592-560-915.000	164.65
12/18	12/12/2018	82834		101-268-775.000	84.33
12/18	12/12/2018	82834		101-756-880.000	40.46
12/18	12/12/2018	82834	FIRST NATIONAL BANK OMAHA	582-586-775.000	4.49
12/18	12/12/2018	82834	FIRST NATIONAL BANK OMAHA	582-593-785.000	27.53
12/18	12/12/2018	82834	FIRST NATIONAL BANK OMAHA	271-790-958.100	20.74
12/18	12/12/2018	82834	FIRST NATIONAL BANK OMAHA	271-790-880.000	26.83
12/18	12/12/2018	82834	FIRST NATIONAL BANK OMAHA	271-790-761.000	199.85
12/18	12/12/2018	82834	FIRST NATIONAL BANK OMAHA	271-790-905.000	9.95
12/18	12/12/2018	82834	FIRST NATIONAL BANK OMAHA	271-790-958.200	80.86
12/18	12/12/2018	82834	FIRST NATIONAL BANK OMAHA	271-790-850.000	50.00
12/18	12/12/2018	82834	FIRST NATIONAL BANK OMAHA	271-790-964.000	2.95
12/18	12/12/2018	82834	FIRST NATIONAL BANK OMAHA	271-790-958.000	19.44-
12/18	12/12/2018	82834	FIRST NATIONAL BANK OMAHA	101-345-775.000	198.39
12/18	12/12/2018	82834	FIRST NATIONAL BANK OMAHA	101-345-912.000	122.75
12/18	12/12/2018	82834	FIRST NATIONAL BANK OMAHA	248-540-792.000	271.20
12/18	12/12/2018	82834	FIRST NATIONAL BANK OMAHA	582-594-775.000	35.55
12/18	12/12/2018	82835	Fraternal Order of Police	701-000-230.400	881.00
12/18	12/12/2018	82836	GALE/CENGAGE LEARNING	271-790-760.000	21.99
12/18	12/12/2018	82837	GORDON FOOD SERVICE	101-756-880.000	63.93
12/18	12/12/2018	82838	Gulig, Anthony	101-266-802.000	47.25
12/18	12/12/2018	82838	Gulig, Anthony	204-481-802.000	47.25
12/18	12/12/2018	82838	Gulig, Anthony	582-588-802.000	47.25
12/18	12/12/2018	82838	Gulig, Anthony	592-549-802.000	47.25
12/18	12/12/2018	82838	Gulig, Anthony	592-560-802.000	47.25
12/18	12/12/2018	82838	Gulig, Anthony	101-266-802.000	513.75
12/18	12/12/2018	82839	HEALTH DEPARTMENT OF	101-773-931.000	180.00
12/18	12/12/2018	82840	5	248-540-882.190	1,200.00
12/18	12/12/2018	82841		101-754-775.000	1,590.00
12/18	12/12/2018	82842 82842		514-587-802.100	91.77
12/18 12/18	12/12/2018 12/12/2018	82842	5 5	101-208-751.000 101-208-751.000	5.09 11.29-
12/18	12/12/2018		JAKEWAY, JOHN	203-479-802.000	42.00
12/18	12/12/2018		JOHNSTONE SUPPLY #234	592-551-775.000	262.18
12/18	12/12/2018		JOHNSTONE SUPPLY #234	101-268-775.000	202.18
12/18	12/12/2018		K & L PLUMBING AND HEATING LLC	592-554-802.000	507.88
12/18	12/12/2018		KEEL, STEPHEN	592-560-915.000	218.55
12/18	12/12/2018		KENDALL ELECTRIC INC.	592-558-775.000	23.18
12/18	12/12/2018		Kevin's Meter Testing LLC	582-592-802.000	493.70
12/18	12/12/2018		KRING CHEVROLET CADILLAC, DAVE	661-598-932.000	329.97
12/18	12/12/2018		LOWERY UNDERGROUND SERVICE	582-586-802.000	5,336.00
12/18	12/12/2018		MARSHALL CONCRETE INC.	582-020-360.000	1,113.00
12/18	12/12/2018		MARSHALL CONCRETE INC.	592-547-802.000	1,714.00
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12/18	12/12/2018	82851	MARSHALL CONCRETE INC.	204-470-802.000	1,800.00
12/18	12/12/2018	82852	MCCARDEL CULLIGAN	514-587-802.100	8.00
12/18	12/12/2018	82852	MCCARDEL CULLIGAN	101-770-802.000	26.00
12/18	12/12/2018	82853	MEAD & HUNT	592-542-802.000	750.00
12/18	12/12/2018	82853	MEAD & HUNT	592-556-802.000	1,500.00
12/18	12/12/2018	82854	Meyer Ace Hardware	514-587-802.000	27.64
12/18	12/12/2018	82855	MICHIGAN PIPE & VALVE	592-010-111.000	542.00
12/18	12/12/2018	82856	MICHIGAN PUBLIC POWER AGENCY	582-576-920.000	308,503.59
12/18	12/12/2018	82857	MICHIGAN SECTION A.W.W.A.	592-560-915.000	85.00
12/18	12/12/2018	82858	MICHIGAN STATE FIREMEN'S ASSOC.	101-345-915.000	75.00
12/18	12/12/2018	82859	NORTH CENTRAL LABORATORIES	592-553-775.000	161.61
12/18	12/12/2018	82860	NORTH COUNTRY PUBLISHING CORP.	248-540-882.190	100.00
12/18	12/12/2018	82860	NORTH COUNTRY PUBLISHING CORP.	248-540-882.190	100.00
12/18	12/12/2018	82860	NORTH COUNTRY PUBLISHING CORP.	248-739-880.200	100.00
12/18	12/12/2018	82861	Northern Michigan Review Inc.	248-739-802.000	71.33
12/18	12/12/2018	82861	Northern Michigan Review Inc.	101-215-751.000	338.40
12/18	12/12/2018	82861	Northern Michigan Review Inc.	582-593-802.000	602.42
12/18	12/12/2018	82861	Northern Michigan Review Inc.	204-444-802.000	245.68
12/18	12/12/2018	82861	Northern Michigan Review Inc.	204-444-802.000	245.68
12/18	12/12/2018	82861	Northern Michigan Review Inc.	101-400-802.000	63.40
12/18	12/12/2018	82861	Northern Michigan Review Inc.	101-400-802.000	317.00
12/18	12/12/2018	82862	Northland Self Storage LLC	592-544-802.000	147.00
12/18	12/12/2018	82863	Nub Games, Inc.	271-790-802.000	315.00
12/18	12/12/2018	82864	Penguin Random House	271-790-761.000	67.50
12/18	12/12/2018	82864	Penguin Random House	271-790-761.000	33.75-
12/18	12/12/2018	82865	Peninsula Fiber Network LLC	101-228-850.000	500.00
12/18	12/12/2018	82866	Petoskey Print Studio	101-101-751.000	33.77
12/18	12/12/2018	82867	Plunkett Cooney	101-266-802.000	1,155.00
12/18	12/12/2018	82867	Plunkett Cooney	101-266-802.000	2,537.50
12/18	12/12/2018	82867	Plunkett Cooney	101-266-802.000	400.00
12/18	12/12/2018	82867	Plunkett Cooney	101-257-802.000	1,470.00
12/18	12/12/2018	82867	Plunkett Cooney	101-266-802.000	3,150.00
12/18	12/12/2018	82867	Plunkett Cooney	101-266-802.000	537.25
12/18	12/12/2018	82867	Plunkett Cooney	204-481-802.000	537.25
12/18	12/12/2018	82867	Plunkett Cooney	582-588-802.000	537.25
12/18	12/12/2018	82867	Plunkett Cooney	592-549-802.000	537.25
12/18	12/12/2018	82867	Plunkett Cooney	592-560-802.000	537.25
12/18	12/12/2018	82867	Plunkett Cooney	101-266-802.000	5,841.56
12/18	12/12/2018	82868	POLICE AND FIREMEN'S INSURANCE	701-000-230.185	307.79
12/18	12/12/2018	82869	POWER LINE SUPPLY	582-588-767.000	315.00
12/18	12/12/2018	82869	POWER LINE SUPPLY	582-010-111.000	4,283.48
12/18	12/12/2018	82869	POWER LINE SUPPLY	582-010-111.000	3,390.00
12/18	12/12/2018	82869	POWER LINE SUPPLY	582-586-775.000	270.00
12/18	12/12/2018	82869	POWER LINE SUPPLY	582-588-767.000	120.00
12/18	12/12/2018	82870	PRESTON FEATHER	101-770-775.000	76.89
12/18	12/12/2018	82870	PRESTON FEATHER	101-754-775.000	3.98
12/18	12/12/2018	82870	PRESTON FEATHER	101-268-775.000	31.67
12/18	12/12/2018	82870	PRESTON FEATHER	101-268-775.000	20.57
12/18	12/12/2018	82870	PRESTON FEATHER	101-754-775.000	32.28
12/18	12/12/2018	82870	PRESTON FEATHER	582-586-775.000	10.83
12/18	12/12/2018	82870	PRESTON FEATHER	101-268-775.000	2.06-
12/18	12/12/2018	82870	PRESTON FEATHER	582-586-775.000	1.08-

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40/40	40/40/0040	00070		404 770 775 000	7.00
12/18	12/12/2018		PRESTON FEATHER	101-770-775.000	7.69-
12/18	12/12/2018 12/12/2018		PRESTON FEATHER PRESTON FEATHER	101-268-775.000	3.17-
12/18 12/18		82870 82870	PRESTON FEATHER	101-754-775.000 101-754-775.000	.40- 3.23-
	12/12/2018	82871			
12/18	12/12/2018		Print Shop, The	514-587-775.000	109.00
12/18 12/18	12/12/2018	82872 82873	Renkes, Tom ROYAL TIRE	248-739-880.200	150.00
12/18	12/12/2018 12/12/2018	82873	ROYAL TIRE	514-587-931.000 514-587-931.000	27.55 14.06
12/18	12/12/2018	82873	ROYAL TIRE	661-598-932.000	289.06
12/18	12/12/2018	82873	ROYAL TIRE	661-598-932.000	23.16
12/18	12/12/2018	82874	Spectrum Business	101-172-850.000	126.56
12/18	12/12/2018	82874		101-201-850.000	67.50
12/18	12/12/2018	82874	•	101-208-850.000	42.19
12/18	12/12/2018	82874	•	101-257-850.000	42.19
12/18	12/12/2018	82874	•	101-215-850.000	33.75
12/18	12/12/2018	82874	Spectrum Business	101-345-850.000	92.80
12/18	12/12/2018	82874	Spectrum Business	101-400-850.000	42.19
12/18	12/12/2018	82874	Spectrum Business	101-441-850.000	75.93
12/18	12/12/2018	82874	Spectrum Business	101-756-850.000	50.62
12/18	12/12/2018	82874	Spectrum Business	204-481-850.000	25.31
12/18	12/12/2018	82874	Spectrum Business	204-481-850.000	25.31
12/18	12/12/2018	82874	Spectrum Business	582-588-850.000	84.37
12/18	12/12/2018	82874	Spectrum Business	582-593-850.000	33.75
12/18	12/12/2018	82874	Spectrum Business	592-549-850.000	50.62
12/18	12/12/2018	82874	Spectrum Business	592-560-850.000	50.62
12/18	12/12/2018	82874	Spectrum Business	101-770-850.000	145.84
12/18	12/12/2018	82874		582-593-850.000	35.17
12/18	12/12/2018	82874	Spectrum Business	101-789-850.000	79.84
12/18	12/12/2018	82875	STAFFORD'S PERRY HOTEL	248-540-882.160	2,120.42
12/18	12/12/2018	82876	STANDARD ELECTRIC COMPANY	592-537-775.000	129.87
12/18	12/12/2018	82876	STANDARD ELECTRIC COMPANY	582-592-775.000	34.21
12/18	12/12/2018	82877	State of Michigan	592-542-802.000	2,734.29
12/18	12/12/2018	82878	T2 Systems Canada Inc.	248-739-802.000	165.00
12/18	12/12/2018	82879	TELEDYNE INSTRUMENTS INC.	592-554-802.000	1,385.38
12/18	12/12/2018	82880	TEMPERATURE CONTROL INC.	101-268-802.000	486.15
12/18	12/12/2018	82880	TEMPERATURE CONTROL INC.	592-554-802.000	666.00
12/18	12/12/2018		TETRA TECH INC	592-549-802.000	742.50
12/18	12/12/2018	82881	TETRA TECH INC	592-560-802.000	742.50
12/18	12/12/2018		TETRA TECH INC	592-560-802.000	605.00
12/18	12/12/2018		UPS STORE, THE	592-553-802.000	150.85
12/18	12/12/2018		Van Kalker Construction Inc	592-544-802.000	3,185.00
12/18	12/12/2018		VAN'S BUSINESS MACHINES	248-739-802.000	417.39
12/18	12/12/2018		VERIZON WIRELESS	101-345-850.000	56.55
12/18	12/12/2018		VERIZON WIRELESS	592-549-850.000	1.04
12/18	12/12/2018		VERIZON WIRELESS	582-588-850.000	8.73
12/18	12/12/2018		VERIZON WIRELESS	101-345-850.000	36.01
12/18	12/12/2018		VERIZON WIRELESS	101-770-850.000	36.01
12/18	12/12/2018		VERIZON WIRELESS	101-773-850.000	53.69
12/18	12/12/2018		VERIZON WIRELESS	101-789-850.000	53.69
12/18	12/12/2018		VISUAL ENTITIES INC.	101-101-751.000	70.54
12/18	12/12/2018		WESCO RECEIVABLES CORP.	582-593-785.000	51.98
12/18	12/12/2018	82887	WESCO RECEIVABLES CORP.	582-010-111.000	2,050.00

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Period	Issue Date	Number	Payee	GL Account	Amount	
12/18	12/12/2018	82888	Zonta Club of Petoskey	271-790-880.000	405.00	
12/18	12/12/2018	82894	TEAMSTERS LOCAL #214	701-000-230.400	1,055.00	
12/18	12/13/2018	82895	ACH-CHILD SUPPORT	701-000-230.160	160.23	
12/18	12/13/2018	82896	ACH-EFTPS	701-000-230.100	30,777.75	
12/18	12/13/2018	82896	ACH-EFTPS	701-000-230.200	18,480.09	
12/18	12/13/2018	82896	ACH-EFTPS	701-000-230.200	18,480.09	
12/18	12/13/2018	82896	ACH-EFTPS	701-000-230.200	4,321.96	
12/18	12/13/2018	82896	ACH-EFTPS	701-000-230.200	4,321.96	
12/18	12/13/2018	82896	ACH-EFTPS	701-000-230.200	203.35	
12/18	12/13/2018	82896	ACH-EFTPS	701-000-230.200	203.35	
12/18	12/13/2018	82896	ACH-EFTPS	701-000-230.200	47.54	
12/18	12/13/2018	82896	ACH-EFTPS	701-000-230.200	47.54	
12/18	12/13/2018	82896	ACH-EFTPS	701-000-230.100	586.68	
12/18	12/13/2018	82897	ACH-ICMA 457	701-000-230.700	2,033.06	
12/18	12/13/2018	82897	ACH-ICMA 457	701-000-230.700	5,617.00	
12/18	12/13/2018	82898	ICMA-ROTH	701-000-230.900	350.00	

Grand Totals:

969,255.61

Report Criteria:

Check.Date = 11/29/2018-12/13/2018

eck Number	Date	Name	GL Account	Amount
82741	12/05/2018	City of Petoskey Library	582588803000	4,906.43
82741	12/05/2018	City of Petoskey Library	582588803000	1,087.92
82742	12/05/2018	Holmes, Alexis	582040285000	43.34
82743	12/05/2018	Hutton, Brian	582040285000	40.31
82744	12/05/2018	Lange, Sarah	582040285000	20.72
82745	12/05/2018	McMurray, Mark	582081642300	78.36
82746	12/05/2018	Northern Credit Bureau	582081642300	20.97
82747	12/05/2018	Patterson, Dave	582081642300	6.00
82748	12/05/2018	Wregglesworth, Chelsea	582081642300	15.41
82889	12/12/2018	Demeuse, Melody	582040285000	22.02
82890	12/12/2018	Eppler, Ray	582588803000	16.00
82891	12/12/2018	Keilani, Anthony	582040285000	30.06
82892	12/12/2018	Middaugh, David	582040285000	75.00
82893	12/12/2018	Ryan, Paulina	582588803000	64.00
Grand Tota	als:			6.426.54



City of Petoskey

BOARD:	City Council		
MEETING DATE:	December 17, 2018	PREPARED: December 13, 2018	
AGENDA SUBJECT:	Appointment Recommendations		
RECOMMENDATION:	That the City Council conside	er these appointments	

The City Council will be asked to consider the following reappointments:

 DOWNTOWN MANAGEMENT BOARD – Reappointment of Doug Buck, 822 Grove Street, and Jessica Stubbs, 1234 Hazelton Street, both for four-year terms ending December 2022.

sb Enclosures







DEC 0 6 2018

101 East Lake Street, Petoskey, Michigan 49770 • 231 347-2500 • Fax 231 348-0359 TY OF PETOSKEY

CITY MANAGER

Application to Serve on a Board or Commission

Please <u>print</u>. Answer each question accurately and completely. If you require any accommodation to complete the application process, please notify a City staff member.

■ Name	Buck		D	Douglas		G	Date 1	2 5	18		
		Last			First			Initial			
Residence ■ Address	822	Grove	St		Mi		49770	Home		330	2269
	Number	Street		City	Sta	te	Zip				
Email ■ Address	doug.buc	k@icloud.com						Work	231	439	5005

Please answer the following questions using the space provided.

1. What Board or Commission interests you and why are you applying? Downtown Management Board ("DMB")

2. How do you believe your appointment would benefit the City? <u>The downown is a great asset to the City of Petoskey. As</u> a board member, I would work to preserve and enhance its economic and social impact on our community. I have a background in finance, which provides for an area of expertise that would help make for a well-balanced board.

3. Describe any involvement in the community on a Board or Commission or in another volunteer capacity. <u>I am the current</u> Vice Chairman of the DMB and serve on its Economic Development and Parking Committees. In addition, I am a member of the Petoskey Rotary Club. In the past I have served as Treasurer on the board of Char-Em United Way and the Scoutmaster of Petoskey's St. Francis Xavier's boy scout Troop 7.

4. How many continuous years have you lived in Petoskey? 15-years

5. Any other helpful information relevant to your application. I have a strong interest in understanding and improving our parking. I view parking as a challenging issue that limits our downtown's full potential.

While it is not required, a resume is helpful in the recruitment process for City Boards and Commissions.

r	YES		NO	Are you a registered voter?
	YES	V	NO	Are you currently in default of taxes or fines to the City of Petoskey?
~	YES		NO	Do you or immediate family members currently serve on a City Board or Commission? If yes, which Board or Commission? Downtown Management Board
	YES	V]ио	Have you ever been convicted of a felony? If yes, please explain.

The applicant acknowledges that the City may be required from time to time to release records in its possession. The applicant hereby gives permission to the City to release any records or materials received by the City from the applicant as it may be requested to do so as permitted by the Freedom of Information Act, MCL 15.231 et seq.

Applicant Signature:

12.5,10 Date:



DEC 0 6 2018



City of Petoskey

CITY OF PETOSKEY 101 East Lake Street, Petoskey, Michigan 49770 • 231 347-2500 • Fax 231 348-03 OTY MANAGER



Application to Serve on a Board or Commission

Please <u>print</u>. Answer each question accurately and completely. If you require any accommodation to complete the application process, please notify a City staff member.

Name	St	ubbs	Jes	Sica		H	la 03 18
		Last		First		Initial	
Residence Address	1234	Hazelton	Petoske	y MI	49770	Home Phone	231 420 3785
	Number	Street	City	State	Zip		
Email ■ Address	jessic	ahelenstubb	sehotmail.	com		Work ■ Phone	231 622 8322

Please attach a paragraph that states your interest in serving on a Board or Commission and describe any special experiences or attributes you possess that make you qualified to serve.

1.	How many continuous years have you lived in Petoskey?
2.	Are you a registered voter? USS
3.	Have you previously served on a Board or Commission or been elected to office in Petoskey?
	In another community?
	If yes, please provide where you served, the position held, and explain your experience: I have served on
	the DMB in petoskey.
4.	Are you currently in default of taxes or fines to the City of Petoskey?
5.	Have you ever been convicted of a felony?
	Please explain:
App	licant Signature: Jessica Stubbe Date: 12-03-18

Thank you for taking the time to complete this application. The people who serve on the City's Boards and Commissions perform a valuable service to the City. I will contact you if a vacancy arises on a Board or Commission in which you have an interest.

-William J. Fraser John Murphy Mayor

Please return your completed application to:

City of Petoskey Attn: City Manager's Office 101 East Lake Street Petoskey, MI 49770 Jessica Stubbs 1234 Hazelton St Petoskey, MI 49770 231-420-3785

Mayor John Murphy,

I would like to continue to serve on the Downtown Management Board.

I am a business owner and a property owner on Mitchell Street. I feel that my ability to run a small business in Petoskey help with the discussions and decisions that need to be made within the Down town. I have appreciated all of the insight from other board members and would like to continue to serve with them.

Thank you,

Jessica



City of Petoskey

BOARD:	City Council	
MEETING DATE:	December 17, 2018	PREPARED: December 13, 2018
AGENDA SUBJECT:	Second Discussion and Pos Parking Fees, Fines and Enf	sible Approval of Changes to Downtown orcement Schedule
RECOMMENDATION :	That the City Council adopt t	he enclosed proposed resolution

Background At the last City Council meeting on December 3, City Council discussed several changes to parking fees, fines and enforcement hours. Since that time, City staff has solicited input on parking fee changes through the City website and the City Facebook page and received 23 emailed comments that are enclosed. Regarding the number of Facebook users, Facebook statistics state the following:

578 Post Engagements – number of times people have engaged with the City's parking post through clicks, likes, comments, shares and reactions.

2,525 Post Reach – number of people who have had any posts from the City enter their screen. This number is an estimate.

A summary of the 23 emailed comments show the following:

1. Raise meter fees on Lake Street, Mitchell Street and Howard Street and in the Elk's Lot, Clifton Lot, and Saville Lot to \$1.00 an hour; on all other three hour meters to \$.50 an hour; and on all ten hour meters to \$.25 an hour. Proposed rates by DMB would double the current hourly rate charges.

9 comments in opposition, 1 neutral for \$1.00 per hour 1 comment in support of 10 hour \$0.25 meter rates

2. Raise \$5 ticket fine to \$10.

1 comment supporting, 2 comments in opposition

3. Increase hours of enforcement by one hour from 5:00 P.M. to 6:00 P.M., Monday through Saturday.

7 comments in opposition, 1 comment in support

4. Raise meter bag fees from \$5 to \$10 per day.

No comments

5. Increase monthly tiered permit fees (see enclosed map):

	Current	Proposed
Blue Permit (valid in blue permit areas only)	\$20	\$30
Green Permit (valid in green and blue areas only)	\$30	\$60
Yellow Permit (valid in all permit areas)	\$40	\$120

3 comments in opposition

6. De-escalate late fees accordingly:

Current	Proposed
add \$20	add \$10
add \$50	add \$30
add \$80	add \$40
add \$120	add \$60
add \$220	add \$90
	add \$20 add \$50 add \$80 add \$120

1 comment in support

Based upon comments at the December 3 City Council meeting, a draft resolution has been developed for your review and consideration. The resolution not only addresses the proposed changes to fees, fines and enforcement hours, but also states the additional revenues from increases in parking charges will largely go towards costs associated with construction and any financing of a downtown parking structure. Although resolutions are not legally binding, the resolution reiterates the importance of using the additional revenues to construct a parking structure that may assist both Boards to stay on track and not divert additional funds for other projects.

In discussions with City Treasurer Al Terry, staff believes a line item could be included in the 2020 Downtown Parking Fund-Reserve Fund for Future Parking Structure to earmark additional revenues generated by increases in fines and fees to be used for future construction and financing of a parking structure.

<u>Action</u> If City Council is supportive of the proposed changes to parking fees, fines and enforcement hours, a motion could be made to approve the enclosed resolution.

rs Enclosures



City of Petoskey

WHEREAS, the City of Petoskey's Downtown Management Board (DMB) serves as an advisory board to the Petoskey City Council on matters pertaining to the downtown business district including overseeing management of downtown parking issues; and

WHEREAS, in an advisory capacity to the DMB, the DMB Executive Parking Committee has met multiple times to discuss changes to downtown parking fees, fines and enforcement hours; and

WHEREAS, past parking studies commissioned by the DMB have shown that during the busy summer months there is a shortage of parking spaces within the downtown area and a need to increase the parking inventory through construction of a parking structure in the downtown development authority district; and

WHEREAS, if fees and fines are increased by City Council and the City Manager there will be additional revenues generated to help support the construction of a parking structure in the downtown development authority district; and

WHEREAS, the DMB strongly supports construction of a parking structure and has committed to using at least a majority of the additional revenues from increases in parking fees and fines to pay for costs associated with construction and financing a parking structure in the downtown development authority district; and

WHEREAS, at the November 27, 2018 DMB monthly meeting, board members approved a recommendation to City Council to approve revisions to parking fines, fees and enforcement hours effective in the second quarter of 2019.

WHEREAS, under City Code Chapter 21 Traffic and Motor Vehicles, Section 21-33 gives the City Council and City Manager broad authority to set parking rates for both metered and unmetered parking areas in the downtown area; and

WHEREAS, the City Council and City Manager have discussed this item at the December 3, 2018 and December 17, 2018 City Council meeting and approve changes to parking fees, fines and enforcement hours as recommended by the DMB at their November 27, 2018 meeting:

NOW THEREFORE, BE IT RESOLVED that the City of Petoskey approves the following parking fees, fines and enforcement hours:

- 1. Raise meter fees on Lake Street, Mitchell Street and Howard Street and in the Elk's Lot, Clifton Lot, and Saville Lot to \$1.00 an hour; on all other three hour meters to \$.50 an hour; and on all ten hour meters to \$.25 an hour.
- 2. Raise \$5 ticket fine to \$10.
- 3. Increase hours of enforcement by one hour from 5:00 P.M. to 6:00 P.M., Monday through Saturday.

- 4. Raise meter bag fees from \$5 to \$10 per day.
- 5. Increase monthly tiered permit fees:

Blue Permit (valid in blue permit areas only)	\$ 30
Green Permit (valid in green and blue areas only)	\$ 60
Yellow Permit (valid in all permit areas)	\$120

6. De-escalate late fees as follows:

8 days	add \$10
14 days	add \$30
30 days	add \$40
60 days	add \$60
90 days	add \$90

From: Sent: To: Subject: Benjamin Werden <benjaminkorr@gmail.com> Wednesday, December 5, 2018 3:55 PM CityManager Parking Fee Changes

RECEIVED

DEC 0 5 2018

CITY OF PETOSKEY CITY MANAGER

Hello,

I am writing in regards to the proposed changes to the fees and fines in Petoskey. I understand and appreciate the need to raise revenue to help maintain our town's upkeep. I would, however, like to voice opposition to the extension of parking meter enforcement hours from 5:00 PM to 6:00 PM.

Nobody enjoys rate hikes, but I feel this particular change will be the most unpopular by far. Firstly, because of the time it will take for everyone to become aware of the new enforcement hours. Even with solid efforts to inform the public, many folks will be caught off-guard by these new hours. Secondly, I object to the change because during the winter, lighting will be poor at these new hours of enforcement, and I suspect folks will not want to have to fumble in the darkness both checking to see how much time is remaining on the meter, and adding money to it.

I would strongly prefer to see the enforcement hours remain as they are moving forward.

Thank you for taking the time to consider my thoughts on the matter.

Yours Truly, Benjamin Werden

From: Sent: To: Subject: Katie Flood <katie.flood727@gmail.com> Thursday, December 6, 2018 9:37 AM CityManager City Parking Meter Changes

RECEIVED

DEC 0 6 2018

CITY OF PETOSKEY CITY MANAGER

To Whom It May Concern,

My name is Katie Flood. I am a former resident of Petoskey, a current resident of Harbor Springs, and a frequent user of the parking meters. I find myself in downtown Petoskey usually 2-3 times per week using the parking meters. I am an advocate of small businesses and consistent local coffee shop supporter. If parking meter prices were increased this would significantly impact the draw of going to Petoskey.

Thank you for allowing the community to voice their concerns about this matter.

Katie Flood

Director of Children, Youth, and Family Ministries at First Presbyterian Church of Harbor Springs Young Life Church Partner

From: Sent: To: Subject: Rose Fitzgerald <rosefitzgerald183@gmail.com> Thursday, December 6, 2018 4:11 PM CityManager Proposed changes to parking fees, etc.

RECEIVED

DEC 0 6 2018

CITY OF PETOSKEY CITY MANAGER

I believe that such a large increase to parking meter fees will have a significantly negative impact on the viability of downtown Petoskey. With so many free parking options in nearby cities, the proposed amounts seem excessive — and likely to anger both residents and visitors. Additionally, since we need to put cash into meters rather than "pay stations", it seems reasonable to assume that most people will not have such large amounts of change available, and either hope no "parking ambassador" catches them if they skip putting money in or drive away in disgust.

The permit parking fee increases also seem as if they will have a negative effect on downtown employees. Businesses already struggle to find employees - why put another obstacle in the way?

I can support raising ticket fees.

Thank you for the opportunity to provide input. Rise Fitzgerald 514 Elizabeth

From: Sent: To: Subject: Betty Palm <bjpetoskey@gmail.com> Thursday, December 6, 2018 5:30 PM CityManager Proposed parking rate changes - NO! RECEIVED

DEC 0 7 2018

CITY OF PETOSKEY CITY MANAGER

The rates on Petoskey meters are already outrageous. We're the only area city that does not provide FREE parking downtown. Please do not raise rates any more!

Betty Palm

From: Sent: To: Subject: Joe Palm <jrpetoskey@gmail.com> Thursday, December 6, 2018 6:47 PM CityManager Proposed parking fee revision



DEC 0 7 2018

CITY OF PETOSKEY CITY MANAGER

Parking meters in a tourist town is a turn-off. It spells "CHEAP" to any visitor, especially if they wind up getting a ticket for being a little late getting back from shopping in Petoskey.

As a nearby resident it is irritating to have to pay to do errands in town. This proposal to increasing the fees yet again is shortsighted and unwanted.

-Joe Palm 3256 Blackbird Rd Petoskey

From: Sent: To: Subject: Carrie Tebeau <crstrand@gmail.com> Thursday, December 6, 2018 8:26 PM CityManager Proposed parking fees RECEIVED

DEC 0 7 2018

CITY OF PETOSKEY CITY MANAGER

Dear City of Petoskey,

I live in Resort Township but frequent the downtown area. I am concerned that the proposed parking rate increases are too steep and will keep people from coming downtown—for instance, it's enough that I could see myself deciding to just go to Meijer instead of the farm market because parking will seem especially onerous and expensive.

The proposed change from 5 to 6 pm on meters, on the other hand, seems quite reasonable, as most towns go until 6.

I would rather pay higher late fines on tickets than more per hour.

Thank you, Carrie Tebeau 172 Vantage View Petoskey, MI 49770

From: Sent: To: Subject: Jaymeelynn Camarata <jaymee619sd@gmail.com> Friday, December 7, 2018 8:04 AM CityManager Parking changes

RECEIVED

DEC 0 7 2018

CITY OF PETOSKEY CITY MANAGER

As someone who works downtown 5 days a week raising these meters is ridiculous. I have customers who complain because they can never find parking and when they do they always seem to get ticketed. Fun fact for you, i watched a parking ambassador circle my car five times waiting for my meter to expire on wednesday dec 5th. Took him ten minutes to write me a ticket for my car that was right outside my store door. I will fight this just so you know, because i watch these men and women you employ to do this wait for people to expire instead of walking around the town like they should. You should be ashamed of yourselves for raising the meters and changing times. this is a hard working community in which you know because you work and live here. Ive been here seven years, i moved from a huge city on the west coast and they dont even do this type of petty thing. You all should be ashamed of what you are trying to do to these downtown businesses who struggle with getting people to then because there is no parking but raise these fees! Gotta pay you guys right? This city is a shame, your council is a shame and all you want is money. You dont have to worry about paying these fines and fees because you have money unlike the real working class of this community. The real working class in this damn town is poor. We are all struggling and all i see and all we see now is you wanting to fatten your pockets. Good luck with that.

From:	Seamus Norgaard <celticbodyprayers@gmail.com></celticbodyprayers@gmail.com>
Sent:	Friday, December 7, 2018 8:32 AM
То:	CityManager
Subject:	Do not raise parking meter fairs or extend the hours!!!

RECEIVED

DEC 0 7 2018

CITY OF PETOSKEY CITY MANAGER

I am shocked that the City of Petoskey would make the downtown increasingly unfriendly to folks on limited incomes such as the College students in my classes who are very upset about this prospect, folks who work downtown, and visitors and shoppers in general! Raising parking meter fees and extending the hours of these is a negative move that will skew Petoskey's downtown only towards higher income folks and more wealthy visitors with the apps for meter payment. It makes no sense to increase the hardships on college students and other low income residents, making Boyne City, Gaylord, Harbor Springs (and "home" wherever that is for my College students) more attractive destinations to play, shop, and dine out them than downtown Petoskey.

Do you really want to skew Petoskey more towards the "one percenters" and discourage all the rest of us from shopping, dining, and playing here?

"Seamus" James Norgaard Adjunct professor NCMC

From: Sent: To: Subject: Zach Sheppard <zachsheppard97@gmail.com> Friday, December 7, 2018 8:49 AM CityManager Proposed Meter Changes

RECEIVED

DEC 0 7 2018

CITY OF PETOSKEY CITY MANAGER

Why would anybody in their right mind propose doubling the current meter rates? This does not take into consideration the employees of Petoskey's downtown businesses. In some lots, currently, employees are paying up to \$4 to park for an 8 hour shift. There is no real free parking availability. This goes to show that Petoskey only cares about it's more affluent temporary residents. This town is already too expensive for normal people to live in and you are intentionally going out of your way to make this town more expensive.

From: Sent: To: Subject: Jane Denay <jane.denay@gmail.com> Friday, December 7, 2018 1:08 PM CityManager Parking

DEC 0 7 2018 CITY OF PETOSKEY CITY MANAGER

Dear Robert Straebel,

Thank you for eliciting the opinion of residents on parking fees. As a walker and biker I don't often use the meters, however I don't support an increase the rates. I think locals and visitors find the meters in general onerous. Increasing the rates may make more rapid turnover in spaces but less money left behind for that quick coffee or lunch after shopping. Myself when I drive to town I might chose to park on a residential street to avoid the meters and fines.

Respectfully, Jane Denay

From: Sent: To: Subject: richard scott <scottusmagnus1@me.com> Friday, December 7, 2018 5:50 PM CityManager Parking RECEIVED

DEC 0 7 2018

CITY OF PETOSKEY CITY MANAGER

Reviewed parking fees with friends .

We live at the upper edge of Readmond Nd come to Petoskey often. Sometimes cost of parking to dine or shop seems overwhelming, though we would rather shop locally than on the line. Seems like then we are fish being reeled in.

Sent from my iPad

Robert Straebel

From: Sent: To: Subject: noreply@petoskey.us Monday, December 10, 2018 3:03 PM Robert Straebel Citizen Request/Report [internal-from]

RECEIVED

DEC 1 0 2018

CITY OF PETOSKEY CITY MANAGER

Issue = Increase in parking meter rates Name = Jean Fought Email = jandjfought@att.net Phone = 347-3762

Issues = Merchants want shoppers to "shop small" which I try to do as I worked at the Clothes Post for over 20 years. The biggest complaint was the parking meters. Nothing has changed except for the gradual upward creep of parking costs, the reduction of spaces, and the expansion of meters onto side streets (Woodland.) Now the proposed increases in enforcement times and rates. I would encourage Counsel members to reject such an increase as it will drive even more local, tax-paying shoppers and diners away from downtown - just another "nail" in all the empty stores.

Respond Me = Email Client IP = 172.12.182.181

From: Sent: To: Subject: Esther Brill <stellamerteuil@gmail.com> Monday, December 10, 2018 3:40 PM CityManager Parking fees, fines, enforcement

RECEIVED

DEC 1 0 2018

CITY OF PETOSKEY CITY MANAGER

I am responding to the request for input on this issue I saw online. As I'm sure you know, many locals (myself included) simply avoid downtown Petoskey during certain hours because of the parking fees. Raising those fees would make that even worse. It's already terrible that people who live and work downtown have to feed meters during the day, and increasing fees would be hardest on those people.

Downtown Petoskey already has too many vacant buildings due to astronomical rents and difficult landlords. Raising the fees for simply being in downtown will give people even more reason to shop or open businesses elsewhere. My husband and I recently discussed opening a business, and parking fees were one of the "cons" in our thoughts on downtown. There's a lot of good, don't get me wrong, but the charm can only go so far. If nothing else, please consider the people who staff our many retail shops and food and drink establishments. Many of them are young and not financially secure. They're relying on tips and jobs that don't pay very much. Increasing parking fees hits them harder than the wealthy tourist who is here 3 months out of the year and earns ten times what the barista or sales clerk is making.

We are a resort town, but we can't cater only to the wealthy. There is a full time population who lives here too who earn far less than our summer guests. These people should be considered.

Thank you, Esther Brill

From: Sent: To: Subject: mariah becker <mariahraebecker@gmail.com> Wednesday, December 12, 2018 10:07 AM CityManager Parking Changes

RECEIVED

DEC 12 2018 CITY OF PETOSKEY CITY MANAGER

Hello. I am a shift leader/manager at a business downtown and I have some comments on the new proposed parking changes.

It is evident to me that the city of Petoskey cares more about our part-time tourist residents than our year round residents. It is also evident that the city cares more about our affluent citizens than the working class. As you are aware, we already cannot afford to LIVE in Petoskey. Now, you are making it hard for us to even be able to afford to WORK in Petoskey! WE are supporting your economy. WE are serving all of the tourists that visit here. And WE are miserable because of it. This is going to further contribute to our issues about not having any employees, i'm sure you saw the News Review article regarding that a few weeks ago. We need to be able to afford to live and park close to work in order to continue supporting the local economy.

Furthermore, my morning staff arrives before city employees start shoveling the sidewalks. To expect them to park farther away in a free parking lot is also expecting them to then walk down the unshoveled, not salted sidewalks to get to work. I do not want my employees, who are supporting this economy, to come into work and already be discouraged. I have also had coworkers slip and fall on the sidewalks because they parked in a free parking lot several blocks away. It is absolutely not fair to expect us to find free parking and walk the rest of the commute unless YOUR employees will be out shoveling, plowing, and salting sidewalks by 5 am. Not to mention, the streets right downtown like Lake St. it is the businesses's responsibility to take care of the sidewalk right outside... But most of the businesses are not open until 3-4 hours AFTER my staff starts working. To elaborate even further, Having parking meters at all, especially expensive ones with short limits, is such a discouragement to people trying to shop or eat in downtown Petoskey. I have heard from multiple people that they would rather go to downtown Harbor Springs or Boyne City so they could comfortably shop or eat without the stress and time limit surrounding paying a parking meter.

From: Sent: To: Subject: Anna Gasco <agasco98@gmail.com> Wednesday, December 12, 2018 10:42 AM CityManager Changes to Parking Meters

If you want the working class happy dont charge them to be at work. Lots of people use that parking while working and increasing parking meters and whatnot is going to dissuade them from working downtown. Dont charge us even more we are poor.



DEC 1 2 2018 CITY OF PETOSKEY CITY MANAGER



CITY OF PETOSKEY CITY MANAGER

 From: Derek [mailto:d.r.shiels@gmail.com]
 CITY MANAGER

 Sent: Wednesday, December 12, 2018 12:38 PM
 To: Robert Straebel <<u>rstraebel@petoskey.us</u>>; lzzy Lyman <<u>ilyman@petoskey.us</u>>; <u>suzanne.avis.shumway@gmail.com</u>

 Subject: Changes to City Parking Fees
 City Parking Fees

12/12/2018

Dear City Manager Straebel,

Thank you for taking my comments on the proposed Changes to City Parking Fees, they are as follows:

1. Raise meter fees -

- I am neutral on the meters moving to \$1.00
- Support moving all 10 hour meters to \$0.25
- I do NOT support the increase to \$0.50 on all three hour meters. I would like to see a more strategic plan for the increase of the three hour meters (i.e. not an across the board increase). There should be some lower priced parking options left for those who would choose to seek them out, AND
- I would like to see the Darling lot reduced to \$0.25 per hour (or stay there if that is already the cost). The reason for my opinion is that some parking lots often have empty spots during the day and keeping some lots lower could help alleviate some parking congestion issues.

2. Raise ticket fine to \$10 and 3. Increase hours of enforcement by one hour -

I would like to know about the consistency of enforcement. How often are the parking meters being checked? Is
everyone who is getting a ticket paying the fine or is there some unstructured leniency. Maybe more consistent
enforcement would nullify the need to raise the fine and extend the hours? For those of us getting out of work
after 5 and needing to stop in town briefly before heading home, it is nice that the parking spaces are free after
5.

4. Raise meter bag fees - no comment

5. Increase monthly tiered permit fees

• I do not support this large of an increase, it seems excessive. These permit holders are regular users of the parking spaces, and, if that is correct, the City shouldn't discourage them or make it more burdensome.

6. De-escalate late fees - Keep the initial \$20 fine (keep that initial impact higher) and I support the decrease in the later late fees.

CC: Izzy Lyman and Suzanne Shumway

Follow your joy, - Derek Shiels, 1221 Hazelton

From: Sent: To: Subject: Adam Wagenschutz <adamwagenschutz@gmail.com> Wednesday, December 12, 2018 2:40 PM CityManager Proposed parking fees

I am emailing you to give input on the proposed parking ticket increase. It is a terrible idea and a direct attack to tax working people more.



DEC 1 2 2018

CITY OF PETOSKEY CITY MANAGER

From: Sent: To: Subject: Valerie <valeriesue2u@aol.com> Wednesday, December 12, 2018 3:25 PM CityManager Parking Changes

RECEIVED

DEC 1 2 2018

CITY OF PETOSKEY CITY MANAGER

Hello Rob,

We just met at Roger & Cheryl Tallman's pre Holiday Open House bash.

I felt that I should throw my "two cents" in on the proposed parking changes. As a concerned resident, the approach to the increases seems wrong; the changes "reward" those that didn't "feed the meter" and then didn't pay the fine on time while those that plan ahead and buy a permit are being penalized for doing so. A three-fold increase for residents that work downtown and "pay up front" for a yellow sticker is prohibitive, in my opinion. To go from an annual amount of \$480 to \$1,440, really? Even doubling the monthly fee for a green permit seems way too much.

With regards to the parking lot meter rate jumping from 50 cents to \$1.00 again seems to be putting the burden on the residents that work downtown. By making the lot parking more expensive, it's defeating the goal to free up street parking for visitors and quick trips to local merchants.

It just all seems backwards to me.

I wish you and the City Council luck on finalizing any parking changes. Can't make everyone happy, but let's not put the onus on residents that work and live downtown.

Valerie Wilson

From: Sent: To: Subject: Shawn Peterson <shawn@wineguysgroup.com> Wednesday, December 12, 2018 3:56 PM CityManager Parking Changes

I wish I had known earlier that there was a public comment deadline of today so I could have protested these changes more eloquently.

As the manager of a downtown business, not only do I object to these changes but I object to the presence parking meters in general. It is the single biggest complaint I hear from people visiting our town.

I would love to discuss this further.

Sincerely, Shawn RECEIVED

DEC 1 2 2018

CITY OF PETOSKEY CITY MANAGER

General Manager Palette Bistro 231-881-0324

Shawn Peterson

Sent from my iPhone

From: Sent: To: Subject: William Henagan <william.henagan@gmail.com> Wednesday, December 12, 2018 4:11 PM CityManager Parking Meter Changes

DEC 12 2018

CITY MANAGER

Good afternoon,

I am writing you to share my comments on the proposed parking changes for Petoskey. I am a Harbor Springs resident, but work in Petoskey and frequent many of the businesses there during the day and in the evening. While I do not have all of the details on what kind of revenue the parking meters bring in or the costs associated with checking them, maintenance, and administration of the system as a whole, I do think that raising the meter fees and extending the time periods would be counter-productive to business growth downtown. From what I know, the businesses who operate downtown pay fairly high rent if they do not own their building and the increased fees may deter foot traffic to their storefronts – either because people do not want to tarry downtown because their meters are running up and/or may be less inclined to come downtown as frequently. Extending the times would also create more labor costs to check the meters during those hours and hurt downtown restaurants, which are some of the only places that are open after business hours downtown.

I also work quite a bit in Traverse City and their meter fees are quite higher. But I can tell you that when I am in downtown Traverse City, I am more concerned with my meter running out than I am with enjoying the reason why I am there or business I am conducting. It is something I do not look forward to when I have meetings in downtown Traverse City. On the other hand, I do not currently have those same feelings in Petoskey, as many times I spend hours in the coffee shops and restaurants working and conducting business without thinking about how high my meter will be.

I hope that you take pause when considering the impact of these proposed changes and I hope that you chose not to implement them. Thank you for taking the time to read and consider my comments and feel free to call me for further questions or clarification.

--Will Henagan (231) 282-0196 william.henagan@gmail.com

From:Bob <bobroaster@yahoo.com>Sent:Wednesday, December 12, 2018 4:13 PMTo:CityManager; Mary; pat@wineguysgroup.com; caffinatedwalker@gmail.com; JoeSubject:Parking

Dear Rob,

I wanted to weigh in on the parking change proposal. I am in favor of building a parking structure in the downtown. We have had many negative comments about this proposal from our local clientele. We believe at Wineguys Restaurant Group that there needs to be a cautious approach to this plan. We realize the difficulty finding funding sources for this project. A consideration for this would be to have these rates be seasonal from Memorial Day till Labor Day. The revenue impact would be the largest portion and I believe would be a much easier sell to our year round residents.

Thanks Bob Keedy RECEIVED

Sent from my iPhone

DEC 1 2 2018 CITY OF PETOSKEY CITY MANAGER

From: Sent: To: Subject: mroast@yahoo.com Wednesday, December 12, 2018 4:14 PM CityManager parking meter changes

RECEIVED

DEC 1 2 2018

CITY OF PETOSKEY

CITY MANAGER

Dear City Council and Mayor John Murphy

These are my concerns with the proposed changes based on feedback from my guests:

The increase of the meter charges on Lake, Howard and Mitchell streets to \$1/hour is too drastic an increase. Our customers at Roast & Toast explain that it adds a \$1 to the cost of a \$2 coffee. I think it is a good idea to increase all parking fees during the peak season May-September on par with Traverse City meter fees and relax fees a bit during our off season. The 30 minute free parking on 3 hour and less meters in TC is also a very nice goodwill gesture and would be a good idea here.

What has happened with repeat violators? Do the fines still increase based on the frequency of violations? That seemed to be a good penalty system for repeat offenders and I would guess a good income stream.

I know the problem has been studied but I still marvel at the number of parking structures that Traverse City has built in the past 15 years or so and wonder how they financed them? Are there any lessons to learn from them?

Thank you,

Mary Keedy Wineguys Restaurant Group

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RECEIVED

DEC 1 2 2018

CITY OF PETOCK

CITY MANAGER

Hello there,

My name is Cyndel Thompson. I am a full-time college student at North Central Michigan College, and I am currently a resident in downtown Petoskey.

Living here, I got to know many people over the past year. I also know that affordable living has been a rising issue in the downtown area.

Living on my own at 19, and being a full time college student, I am basically living off of pennies.

I previously lived in East Jordan, so moving to a city like Petoskey was a farly big change.

One big change was paying for parking. This was fine for a while, but after several months, and starting to use a card more often, I was running out of quarters, dimes, and dollars very quickly.

Another change would be the tickets. Living paycheck to paycheck does not really give someone room in their budget for a <u>\$5</u> ticket, and then a <u>\$25</u> dollar ticket if they can't pay it within a week!

After getting a fourth ticket, I refused to pay the city of Petoskey anymore money for parking. Which brings me to my next point.

My last major change was the free parking lot. In the summer time it wasn't too bad having to park several blocks away. But now that winter is here, the free parking lot is almost always full, and the sidewalks are never plowed and drifted over.

Often times my class schedule has a few breaks between classes. So I have to find a parking spot, and tread through a foot of snow several times a day.

I would much rather park downtown, where the sidewalks are shoveled regularly and much closer to my apartment. But I simply cannot aford it.

While I know there will be many benefits to raising the price and extending hours, there will be downfalls too. You will essentially be punishing the permanent resident. Pushing more on the ever-climbing cost of rent.

I believe there is an option where there could be compromise.

Instead of rising the prices and extending times all year, only change seasonally. During the summer when the partial residents visit.

Perhaps that method would be more complicated than I imagine. But reguardless, please keep your perminant residents in mind when making a decision. I know we would definitely appreciate it.

Thank you for your time, and good luck with your decision.

Sincerely,

Cyndel Thompson

The following was included in the December 3, 2018 council packet.

Over the past several months, the DMB Parking Committee has discussed several recommendations to revise certain downtown parking fees, fines and enforcement hours. At the November 27, 2018 DMB meeting, board members voted 6-2 to support the Parking Committee's recommendations to the City Council and City Manager. The DMB recommends revising parking fees, fines and hours of enforcement as follows:

- 1. Raise meter fees on Lake Street, Mitchell Street and Howard Street and in the Elk's Lot, Clifton Lot, and Saville Lot to \$1.00 an hour; on all other three hour meters to \$.50 an hour; and on all ten hour meters to \$.25 an hour. Proposed rates by DMB would double the current hourly rate charges.
- 2. Raise \$5 ticket fine to \$10.
- 3. Increase hours of enforcement by one hour from 5:00 P.M. to 6:00 P.M., Monday through Saturday.
- 4. Raise meter bag fees from \$5 to \$10 per day.
- 5. Increase monthly tiered permit fees (see enclosed map):

	Current	Proposed
Blue Permit (valid in blue permit areas only) Green Permit (valid in green and blue areas only)	\$20 \$30	\$30 \$60
Yellow Permit (valid in all permit areas)	\$40	\$120

6. De-escalate late fees accordingly:

	Current	Proposed
8 days	add \$20	add \$10
14 days	add \$50	add \$30
30 days	add \$80	add \$40
60 days	add \$120	add \$60
90 days	add \$220	add \$90

(All additional fees are added to the original ticket amount. Proposed maximum charge for a \$10 ticket after 90 days of non-payment would be \$100 verses \$225 in the current system.)

<u>City Council and City Manager Authority per City Code</u> According to the enclosed City Code Chapter 21 Motor and Traffic Vehicles, Code Provision 21-32 and 21-33 gives broad authority to the City Manager to regulate and manage parking throughout the downtown area. Specifically, Section 21-33 Designation of Parking Zones and Controls (a) states the following:

> "The city manager may designate the areas where parking is permitted, may set time limits within such areas, and rates to be charged in any metered parking zones or lots, metered or unmetered, within the maximum limits set by the city council. The city manager may also determine in what areas meters are to be used or removed."

It is notable that the City Manager can only set rates that are within *"the maximum limits set by city council."* At this point, City Council has not set the maximum limits for parking rates.

Additionally, enclosed Section 21-37, Establishment of Fines states the following:

"The city council may, from time to time, by resolution, set fines for violating any provisions contained in this article."

Taking these two code provisions into account, City Council will need to set maximum rate limits for downtown parking as well as set parking fines as addressed in #2 of the DMB's recommendations.

<u>Past/Current Use of Parking Revenues</u> Over the years, parking revenues have assisted in paying for a wide variety of downtown improvements and enhancements such as:

- Purchase of land for Phase II Greenway Corridor that was recently completed;
- Partnering with the City, the DMB earmarked funds to pay for half the costs of the downtown bathroom improvement project;
- Wayfinding signs;
- Street and landscape improvements;
- Parking lot improvements and maintenance on parking meters; and
- Sidewalk snow removal.

In 2019, the DMB budgeted for new street parking meters that will accept credit cards or coinage, parking lot landscaping and irrigation and a new snow blower for downtown sidewalks. All these improvements will be paid for using parking revenues.

Additional Parking Revenues Used to Expand Parking Inventory If the City Council and City Manager were to raise parking fees and fines, there is the question as to what the additional revenues will be earmarked for. The DMB continues to be interested in building a parking structure in the downtown area and state the lion's share of additional revenues will go towards funding a parking structure.

The proposed increase in parking meter fees and other rate hikes, although difficult to quantify, would substantially increase parking revenues for the DMB. The DMB believes that there is a critical need to increase parking inventory in the downtown area to better serve residents and visitors in the summer months. To this end, the DMB would like to pursue some sort of covered parking structure and in 2019 has budgeted \$150,000 for design and engineering costs for a parking structure at Lake and Division Streets. Additional parking revenues could be used to pay for debt service on a parking deck or could minimize the amount of debt service required. Although Emmet County has not formally committed to building a structure at this location, there appears to be some interest in pursuing the project in the near future. There is also potential for increasing the parking inventory at the Darling Lot or 200 East Lake Street.

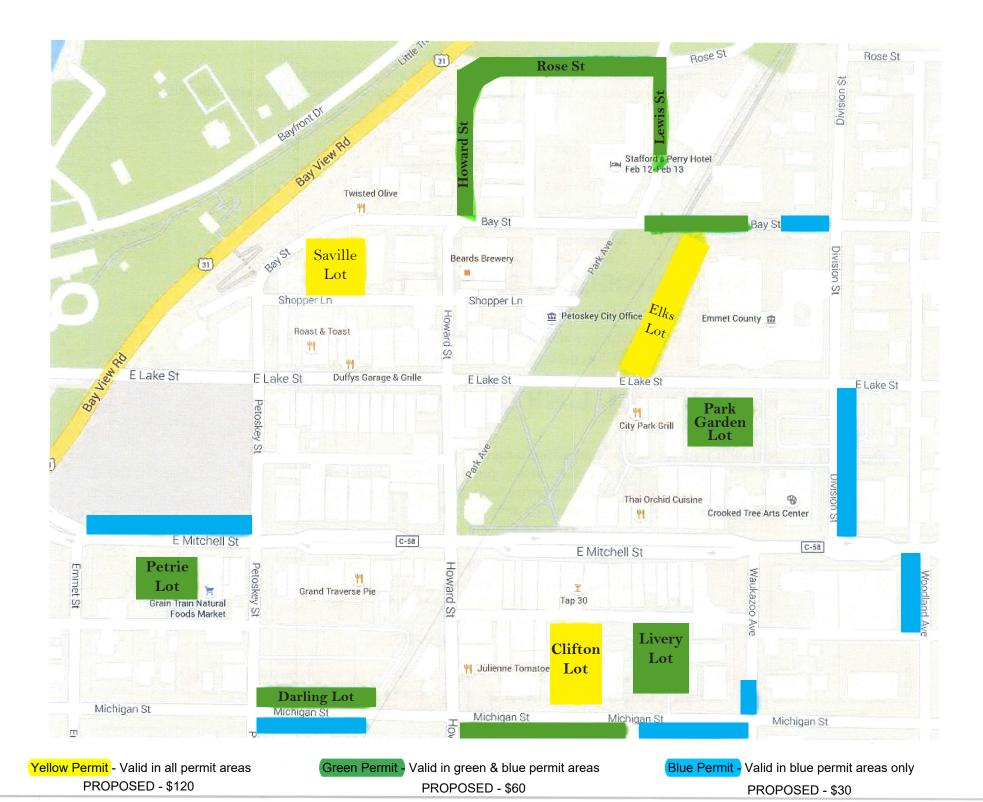
Need for Additional Parking According to past parking studies there is a need to increase parking spaces in the downtown area. A Walker Parking Study and the Downtown Strategic Plan highlighted the need for additional parking spaces in the downtown area. According to national parking standards for downtown areas, an ideal parking ratio is between 2.75 and 3 parking spaces per 1,000 s.f. of commercial space. The current ratio in the downtown area is 1.8 spaces per 1,000 s.f. of commercial space. Overall, Walker Parking Consultants concluded there is a need for an additional 187 parking spaces in the downtown area.

A covered parking structure could also spur additional investment in developing more residential units on second and third floors of downtown structures. Anecdotally, developers have stated that a lack of covered parking is one of the biggest impediments to increasing residential units in our downtown area.

Included in the agenda item is a two-page summary written by Board Chair Reg Smith titled "Managing Parking Benefits for All."

<u>Action</u> Staff is looking for input from City Council on the six aforementioned revisions to parking fees, fines and enforcement hours being recommended by the DMB.

As this is the first discussion on possibly increasing downtown parking fees, staff recommends no official action at this point. To allow for further public input and feedback on the fees, City staff would like to use our website to solicit further comments on the proposed changes. Further discussions will continue with possible approval by City Council/City Manager at the December 17 City Council meeting.



attended or not, otherwise than when obeying traffic signals or regulations, or temporarily for the purpose of, and while actually engaged in, loading or unloading passengers, or making necessary repairs.

Parking lot. Parking lot shall mean any space, not a street or a highway, designated for parking vehicles. It includes publicly or privately owned, leased or operated spaces.

Parking meter. Parking meter shall mean a mechanical device activated by U.S. governmentissued coins or city-issued tokens that indicates the length of time during which a vehicle may be parked in a particular space and displays a violation signal, which shall constitute prima facie evidence that a violation occurred.

Parking meter feeding. Meter feeding shall mean depositing, or causing to be deposited, in a parking meter a coin or token or numbers of coins or tokens with the effect of causing the parking meter to indicate a permitted parking time beyond the parking meter's posted time limit.

Residential property. Residential property shall mean any real property within a residential district, as such districts are defined in the zoning ordinance for the city, including any lot, parcel or part of a lot on which there is actually existing a structure used primarily as a residence by one or more families or living units. It includes property used primarily as a residence, even though a home occupation exists on the premises. It does not include property in a residential district used primarily for commercial or other purposes such as a grocery store or church.

Sign message. Sign message shall mean the text displayed or a symbol depicted on any posted notice that designates or restricts the use of parking spaces, parking lots and rights-of-way.

Vehicle. Vehicle shall mean that which is defined in the Uniform Traffic Code for Cities, Townships and Villages of Michigan, as published and amended from time to time by authority of the Michigan Department of State Police. (Ord. No. 677, § 1(21-31), 6-5-2000)

Sec. 21-32. General supervision.

All provisions contained in this article shall be under the general supervision and control of the city manager, or the city manager's designee. (Ord. No. 677, § 1(21-32), 6-5-2000)

Sec. 21-33. Designation of parking zones and controls.

(a) The city manager may designate the areas where parking is permitted, may set time limits within such areas, and rates to be charged in any metered parking zones or lots, metered or unmetered, within the maximum limits set by the city council. The city manager may also determine in what areas meters are to be used or removed.

(b) When the city manager designates parking areas, the city manager shall consider the general public health, welfare, and safety; the need for safely expediting through-traffic; the maximum use of available on-street and offstreet parking areas; and the need to place parking meters in appropriate areas where the meters will serve to regulate and control the parking and also provide revenue for the operation and improvement of the parking system.

(c) The city manager is to recommend meter rates so as to encourage turnover of parking in those areas where rapid turnover is desired and likewise to encourage long-term parking, possibly at a lower rate, in those areas where longterm parking is desired and is to set rates for permits in city-owned lots, when such permits are deemed desirable to provide parking controls in such lots, and to help defray the cost of policing and maintaining such lots. (d) The city manager may designate the areas where permit only parking is allowed. Areas designated as permit only parking shall be available to only those vehicles displaying a cityapproved form of "permit parking only" display. (Ord. No. 677, § 1(21-33), 6-5-2000; Ord. No. 731, § 1, 10-15-2012)

Sec. 21-34. Civil infraction violations.

It shall be unlawful for any owner or operator of any vehicle to violate the following, which shall be, and hereby are, designated as civil infractions:

- (1) Disobeying any sign message;
- (2) Parking in any designated fire lane;
- Obstructing any fire station entrance;
- (4) Blocking any building exit;
- (5) Blocking any fire escape;
- (6) Parking within 15 feet of any fire hydrant;
- (7) Failing to park within individually marked parking spaces;
- (8) Parking too far from any curb;
- (9) Obstructing traffic;
- (10) Parking in any designated loading zone;
- (11) Parking in an area designated as a bus stop or taxi stand;
- (12) Parking in, over or upon any sidewalk, curb lawn or parkway, unless otherwise permitted by the city;
- (13) Obstructing pedestrian traffic on sidewalk;
- (14) Blocking any sidewalk;
 - (15) Blocking any driveway;
 - (16) Blocking any alley;
 - (17) Blocking any crosswalk;
- (18) Parking within any intersection;

- (19) Parking within 15 feet of any intersection that is not exclusively controlled by electronic signals;
- (20) Parking within 30 feet of any intersection that is controlled by electronic signals;
- (21) Obstructing any railroad track;
- (22) Double parking;
- (23) Parking with left-side wheels to curb on any two-way street;
- (24) Parking on, driving over, or straddling any curb;
- (25) Parking or placing a vehicle in designated handicap spaces without displaying proper authorization to do so;
- (26) Parking in any space not designated for parking;
- (27) Parking in excess of three hours in residential district in front of, beside, or behind residential property, upon respective residential property owner's complaint, unless such time limit is modified by the city;
- (28) Parking on private property without respective private property owner's consent;
- (29) Parking or displaying a vehicle for the principal purpose of advertising it for sale within any street, alley or right-ofway, including sidewalks, and curb lawns and parkways;
- (30) Repairing any vehicle upon any street,
 alley or right-of-way, including sidewalks,
 curb lawns and parkways;
- (31) Selling merchandise from any vehicle upon a street, alley or right-of-way, including sidewalks, curb lawns and parkways;

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- (32) Storing, parking or placing any vehicle in excess of 48 consecutive hours, subject to, however, the prohibition of parking or placement of certain vehicles and
- (33) Connecting, or permitting the connection of, any motor vehicle, vehicle or device to water, sewer or electric utilities, on-going habitation in any motor vehicle, vehicle or device in any alley, street or right-of-way, including sidewalks, curb lawns and parkways;

devices in excess of three hours:

- (34) Parking in any nonmetered, city-owned or city-operated parking lot without a required permit;
- (35) Parking in any metered space without depositing required coins or tokens in the parking meter;
- (36) Parking in excess of the maximum time limit in metered spaces;
- (37) Meter feeding;
- (38) Parking in excess of any posted time limit in nonmetered spaces;
- (39) Failing to pay a civil fine for any parking meter violation up to 48 hours;
- (40) Failing to pay a civil fine for any parking meter violation up to 72 hours;
- (41) Upon a person's failure to pay a civil fine for any civil infraction violation committed as proscribed herein, within 72 hours, and having received notice of such violation, said person shall be responsible for:
 - (a) An additional civil fine upon receipt of a second notice of such violation.
 - (b) An additional civil fine upon receipt of a third notice of such violation.
 - (c) An additional civil fine upon receipt of a fourth notice of such violation.

(Ord. No. 677, § 1(21-34), 6-5-2000)

Sec. 21-35. Notice of violation.

The issuance of a traffic ticket or notice of violation shall be deemed an allegation of a parking violation. Such traffic ticket or notice of violation shall indicate the time limit in which the person to whom the same was issued must respond. It shall also indicate the address of where the person shall respond, the hours during which the person shall respond, the amount of the penalty scheduled for the offense for which the ticket was issued and advise that a warrant for the arrest of the person to whom the ticket was issued will be sought if such person fails to respond within the time limit.

(Ord. No. 677, § 1(21-35), 6-5-2000)

Sec. 21-36. Evidentiary presumption.

In any proceeding for a violation of this division relating to the standing or parking of a vehicle, proof that the particular vehicle described in the traffic ticket or notice of violation was parked in violation of said division, together with proof that the person, corporation, partnership or company named in the traffic ticket or notice of violation was, at the time of such parking, the registered owner of such vehicle, shall constitute in evidence a presumption that the registered owner of such vehicle was the person, corporation, partnership or company who parked or placed such vehicle at the point where, and for the time during which, such violation occurred.

(Ord. No. 677, § 1(21-36), 6-5-2000)

Sec. 21-37. Establishment of fines.

The city council may, from time to time, by resolution, set fines for violating any provision contained in this article.

(Ord. No. 677, § 1(21-37), 6-5-2000)

Sec. 21-38. Parking, etc., in excess of three hours.

(1) *Prohibited vehicles and devices.* It shall be unlawful for any person to park or otherwise place the following vehicles and devices in or

Managed Parking Benefits all

The Downtown Management Board is working to update our plan for managing public parking in the central business district in Petoskey. We welcome the opportunity to communicate our purpose, vision and goals for this effort.

Our mission is to provide convenient, affordable, parking for customers in the core of the central business district; and parking for employees, owners and residents in the periphery of the central business district. Our job is challenging due to the deficit of 100 to 200 parking spaces available to meet current demand at various times of the year. Petoskey is thriving and, thus, the demand for public parking is growing.

Our vision has been consistent for decades and that vision is to grow the inventory of available parking in the Central Business District. The DMB realizes that this growth will only happen through collaboration with public and private entities. Development at 200 E. Lake Street that includes a public parking component is a critical piece of this vision.

Managed parking provides more than simply a place to park one's car in front of a favorite store in the middle of a summer afternoon. Over the years parking revenues have helped pay for downtown enhancements such as the Greenway rail corridor right of way purchase, way finding signage, streetscape and landscaping improvements, and most recently proposed restroom facility upgrades in Pennsylvania Park. Parking revenues also cover ongoing costs for sidewalk snow removal in downtown, parking lot snow removal, maintenance and landscaping, and of course repairs and maintenance of parking meters

So what may seem to some like a yearly windfall in revenue, is also money used to make a positive impact on the downtown experience for all. Because meter rates and fines have not changed in at least 15 years, the revenue collected, although it covers current expenses, is not accumulating at a rate fast enough to grow a reserve toward the funding of future parking inventory. The costs of repairs, maintenance and new construction have simply outpaced any growth in revenue.

The reality of managing our parking inventory, where supply is short is not a perfect science. In fact "success", in many respects will be that nobody is completely satisfied with our policies and practices because everybody must, at times, yield to another interest. With our mission in mind the board sets the highest rates for the most convenient parking areas on downtown streets and parking lots surrounded by retail establishments. This practice is to facilitate "turnover" of the most convenient parking spaces. Establishing this three hour maximum is critical for maintaining a viable downtown shopping destination.

Compliance is encouraged by setting meter rates that consumers will pay as part of their downtown experience, while avoiding a more costly violation for not paying a meter or occupying a space for more than three hours. Success has been described by many experts as an 85% occupied inventory during business hours, or one or two open spaces in a block. The Downtown Management Board has long favored a visitor friendly approach which is to issue a no charge courtesy reminder to vehicles upon the first violation. In fact over one half of our citations are courtesy notices. Conversely, vehicles that receive frequent violations are classified as "chronic" and are subject to greater fines and penalties. Available parking further from the core of downtown is metered at lower rates and allows for "all day"

parking for employees and owners of downtown businesses. It is noteworthy that parking meter rates and fines in Petoskey have not changed in over 15 years. Late fees and collection penalties have increased as a means of discouraging chronic violations.

The growing trend for downtown apartments and condominiums in Petoskey has created even more demand for parking. City of Petoskey officials have embraced a <u>Redevelopment Ready</u> approach for 200 East Lake and the large Michigan Street Darling lot. We believe that some form of covered and/or decked parking will happen at either of these locations or in cooperation with Emmet County at the corner of Division and Lake Streets in the next few years. This could provide a number of sheltered spaces to best meet this demand for downtown residents.

With all of the above factors taken into account, the DMB is initializing an increase in meter rates that would take effect in the spring of 2019. The Board will also expand meter enforcement hours to 8:00 PM in the Central Business District so that parking will turnover for businesses open at night. Finally, updated meters and parking stations that accept credit cards will be purchased providing a more convenient form for all users to pay for managed parking

The Downtown Management Board is made up of individuals who earn their living in retail, restaurant, hospitality and professional offices in Downtown Petoskey. The DMB realizes that increasing fees and fines is not a popular decision, but this strategy is required in order to fund the collective interest in maintaining our downtown as one of the most vibrant "up north" destinations in our state.

Sincerely,

S. Reginald Smith, DMB Chairmen



City of Petoskey

BOARD:	City Council								
MEETING DATE:	December 17, 2018	PREPARED: December 11, 2018							
AGENDA SUBJECT:	Electric Rate Resolution	Electric Rate Resolution							
RECOMMENDATION:	That the City Council ado	That the City Council adopt the enclosed proposed resolution							

<u>Rate Study Recommendations</u> At the December 3 City Council meeting, Dawn Lund from Utility Financial Solutions (UFS) presented a summary of the electric cost of service study completed for the City of Petoskey. UFS is recommending that the City:

- 1. Adjust rates charged to different classes of users to more closely align customer classes with the City's actual cost of service.
- 2. Annually increase electric rates between 2019 and 2021 the first such increases since 2014 to ensure that the Electric Division has adequate revenues to operate, maintain and replace infrastructure throughout the City's distribution system.

Summary The City Council is being asked to consider a resolution that will modify the City's electric rate structure to better align rates for different classes of users with costs of providing electric service rates to all electric customer rate classes. The recommendation from Utility Financial Solution (UFS) calls for an annual rate increase for each of the next three years.

As proposed in this resolution, during the first year, the residential rate class would see an increase of 3.57% and the commercial class would see an increase of 2.3% in annual revenues. Rate changes are proposed for both the monthly ready to serve charge and commodity charge. This rate schedule will continue to more closely align customer rates with the City's cost of providing power and builds on the changes made following the previous rate study when seasonal rates were implemented.

In the subsequent two years, on an annual basis, the proposed resolution would authorize adjustments to the monthly ready to serve charge and per kWh use charge that will result in total annual increases in revenues from all customer classes of 1.0%.

With both the ready to serve charge (flat rate) and commodity charges (kWh Usage) changing, the effect on individual customers will vary based on usage. An average user is considered to be in the area 600 kWh's per month. Most residential customers will see an increase of less than \$2.00 per month on their electric bill in 2019 and less than \$1.00 per month in 2020 and 2021.

Residential Electric Rate Increase

			2019				2020				2021	
Usage	Мо	onthly	Annually	Percent	Мс	onthly	Annually	Percent	Мс	onthly	Annually	Percent
250	\$	1.65	\$ 19.80	5.39%	\$	1.21	\$ 14.52	3.74%	\$	1.21	\$ 14.52	3.62%
500	\$	1.81	\$ 21.72	3.38%	\$	0.92	\$ 11.04	1.66%	\$	0.92	\$ 11.04	1.65%
750	\$	2.00	\$ 24.00	2.57%	\$	0.62	\$ 7.44	0.80%	\$	0.64	\$ 7.68	0.81%
1000	\$	2.11	\$ 25.33	2.14%	\$	0.33	\$ 3.96	0.33%	\$	0.35	\$ 4.20	0.51%

<u>Action</u> Enclosed is a proposed resolution establishing electric utility rates for the three years of 2019 through 2021 for Council's consideration.

at Enclosures





City of Petoskey

City Council - City of Petoskey a Michigan Municipal Corporation December 17, 2018

WHEREAS, Chapter 22 of the City of Petoskey Code of Ordinances, § 22-83, provides that rates and charges for electric service in the City shall be established and changed by the City Council from time to time; and

WHEREAS, at its meeting of December 3, 2018, the City Council for the City of Petoskey was presented a summary of the electric cost of service to the City from Utility Financial Solutions (UFS) and received recommendations to adjust electric utility rates annually; and

WHEREAS, the last rate change for electrical service in the City of Petoskey was established by resolution of the City Council on April 10, 2010 providing for rate increases annually through 2014; and

WHEREAS, based on the summary presented to the City, the City now wishes to adopt the recommendations of UFS for electric rates:

NOW, THEREFORE, BE IT RESOLVED that the City Council for the City of Petoskey does and hereby approves the following resolution:

1. <u>Electric Utility Rates</u>. The rates for electric utility service in the City of Petoskey shall be as follows beginning with the January utility bill of each year:

Electric Rate Class	Current	2019	2020	2021
Residential (RE) & (REM)				
Customer Charge - monthly	\$ 7.95	\$ 9.45	\$ 10.95	\$ 12.45
Energy Charge/ kWh:				
Winter Charge	\$ 0.08400	\$ 0.08461	\$ 0.08344	\$ 0.08229
Summer Charge	\$ 0.11250	\$ 0.11311	\$ 0.11194	\$ 0.11079
Commercial (Com)				
Customer Charge - monthly	\$ 17.00	\$ 19.00	\$ 21.00	\$ 23.00
Energy Charge/ kWh:				
Winter Charge	\$ 0.10250	\$ 0.10427	\$ 0.10478	\$ 0.10532
Summer Charge	\$ 0.11900	\$ 0.12077	\$ 0.12077	\$ 0.12077
School/City (Sch)				
Customer Charge - monthly	\$ 15.50	\$ 17.50	\$ 19.50	\$ 21.50
Energy Charge/ kWh:				
Winter Charge	\$ 0.10080	\$ 0.10290	\$ 0.10448	\$ 0.10610
Summer Charge	\$ 0.10880	\$ 0.11090	\$ 0.11090	\$ 0.11090

CITY OF PETOSKEY

Electric Utility Rate Schedule

Medium Secondary Power (MSPR)				
Customer Charge - monthly	\$ 65.00	\$ 70.00	\$ 75.00	\$ 80.00
Energy Charge/ kWh:	\$ 0.05550	\$ 0.05664	\$ 0.05685	\$ 0.05706
Demand Charge/kW:				
Winter Demand	\$ 13.20	\$ 13.50	\$ 13.80	\$ 14.10
Summer Demand	\$ 14.30	\$ 14.60	\$ 14.90	\$ 15.20
Large Secondary Power (LSPR)				
Customer Charge - monthly	\$ 160.00	\$ 170.00	\$ 180.00	\$ 190.00
Energy Charge/ kWh:	\$ 0.05450	\$ 0.05466	\$ 0.05435	\$ 0.05404
Demand Charge/kW:				
Winter Demand	\$ 13.20	\$ 13.50	\$ 13.80	\$ 14.10
Summer Demand	\$ 14.35	\$ 15.10	\$ 15.40	\$ 15.70
Large Primary Power (LPPR)				
Customer Charge - monthly	\$ 120.00	\$ 140.00	\$ 160.00	\$ 180.00
Energy Charge/ kWh:	\$ 0.05720	\$ 0.05657	\$ 0.05584	\$ 0.05511
Demand Charge/kW:				
Winter Demand	\$ 13.10	\$ 13.40	\$ 13.70	\$ 14.00
Summer Demand	\$ 14.10	\$ 15.35	\$ 15.65	\$ 15.95
Yard Lighting (YL/OYL)				
Customer Charge - monthly				
175-250 Watt (YL)	\$ 7.08	\$ 7.24	\$ 7.32	\$ 7.39
400 Watt (YL)	\$ 11.23	\$ 11.49	\$ 11.60	\$ 11.72
Ornamental (OYL)	\$ 12.20	\$ 12.48	\$ 12.61	\$ 12.73
Ornamental - BV	\$ 12.20	\$ 12.48	\$ 12.61	\$ 12.73

City of Petoskey Rate Design

11/29/2018

Utility Financial Solutions, LLC 185 Sun Meadow Court Holland, MI 49424 608 230 5849

Email: mjohnson@utilityfinancialsolutions.com

Submitted Respectfully by: Mike Johnson Manager, Utility Financial Solutions



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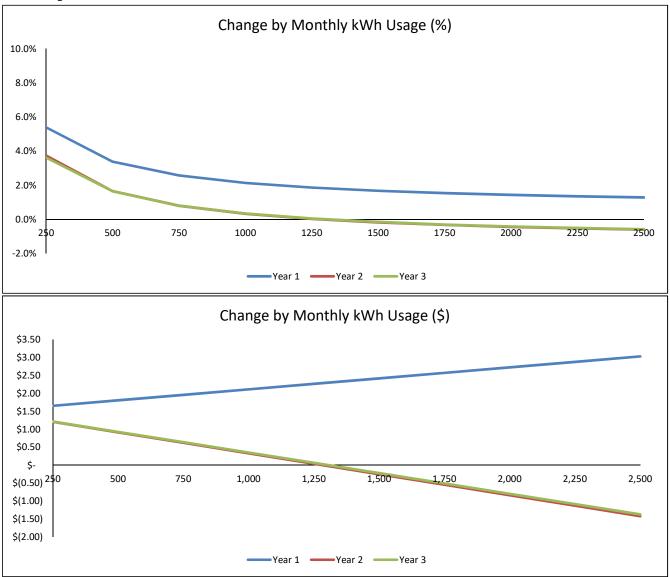


City of Petoskey Rate Design Rate Design Summary

					Projected		Projected		Projected			Projected
			Projected			, ,		,		Draigstad	Drojected	Projected
			,		evenues Under		venues Under		evenues Under	Projected	Projected	Percentage
		Rev	enues Under	Pr	roposed Rates	Pr	oposed Rates	Pr	oposed Rates	Percentage	Percentage	Change Year
Customer Class		Cu	irrent Rates		Year 1		Year 2		Year 3	Change Year 1	Change Year 2	3
Residential (RE)		\$	2,690,312	\$	2,786,342	\$	2,838,030	\$	2,890,201	3.57%	1.86%	1.84%
Residential (REM)			894		952		999		1,045	6.48%	4.87%	4.66%
Commercial (COM)			2,979,463		3,047,991		3,078,471		3,109,256	2.30%	1.00%	1.00%
School (SCH)			473,634		485,475		492,757		500,148	2.50%	1.50%	1.50%
Traffic Lights (606, 801)			7,309		7,331		7,331		7,331	0.30%	0.00%	0.00%
Yard Lighting (YL/OYL)			12,291		12,574		12,700		12,827	2.30%	1.00%	1.00%
Street Lighting			46,200		48,187		49,391		50,626	4.30%	2.50%	2.50%
Medium Secondary Power (MSPR)			822,770		841,693		850,110		858,611	2.30%	1.00%	1.00%
Large Secondary Power (LSPR)			853,915		866,724		871,058		875,413	1.50%	0.50%	0.50%
Large Primary Power (LPPR)			2,236,486		2,258,851		2,258,851		2,258,851	1.00%	0.00%	0.00%
	Totals	\$	10,123,274	\$	10,356,120	\$	10,459,697	\$	10,564,308	2.30%	1.00%	1.00%

City of Petoskey Rate Design Projected Residential (RE) Rates

Rates	Current	Year 1	Year 2	Year 3		
Customer Charge:						
All Customers	\$ 7.95	\$ 9.45	\$ 10.95	\$	12.45	
Energy Charge:						
Winter Energy	\$ 0.08400	\$ 0.08461	\$ 0.08344	\$	0.08229	
Summer Energy	\$ 0.11250	\$ 0.11311	\$ 0.11194	\$	0.11079	
Power Cost Adjustment:						
All Energy	\$ (0.00270)	\$ (0.00270)	\$ (0.00270)	\$	(0.00270)	
Revenue from Rate	\$ 2,690,312	\$ 2,786,342	\$ 2,838,030	\$	2,890,201	
Change from Previous	-	3.6%	1.9%		1.8%	





City of Petoskey Rate Design Projected Residential (RE) Rates

	Annual Bill by Usage											
Energy		Current \$		Year 1\$		Year 2 \$		Year 3 \$				
250	\$	368	\$	388	\$	402	\$	417				
500	\$	640	\$	662	\$	673	\$	684				
750	\$	913	\$	936	\$	944	\$	951				
1000	\$	1,185	\$	1,210	\$	1,214	\$	1,218				
1250	\$	1,457	\$	1,485	\$	1,485	\$	1,486				
1500	\$	1,730	\$	1,759	\$	1,756	\$	1,753				
1750	\$	2,002	\$	2,033	\$	2,026	\$	2,020				
2000	\$	2,275	\$	2,307	\$	2,297	\$	2,288				
2250	\$	2,547	\$	2,581	\$	2,568	\$	2,555				
2500	\$	2,819	\$	2,856	\$	2,839	\$	2,822				

	Change by Month	nly kWh Usage (%	5)	
Energy	Summer Energy	Year 1	Year 2	Year 3
25) 250	5.4%	3.7%	3.6%
50	500	3.4%	1.7%	1.7%
75) 750	2.6%	0.8%	0.8%
100) 1,000	2.1%	0.3%	0.3%
125) 1,250	1.9%	0.0%	0.1%
150) 1,500	1.7%	-0.2%	-0.2%
175) 1,750	1.5%	-0.3%	-0.3%
200	2,000	1.4%	-0.4%	-0.4%
225) 2,250	1.4%	-0.5%	-0.5%
250) 2,500	1.3%	-0.6%	-0.6%

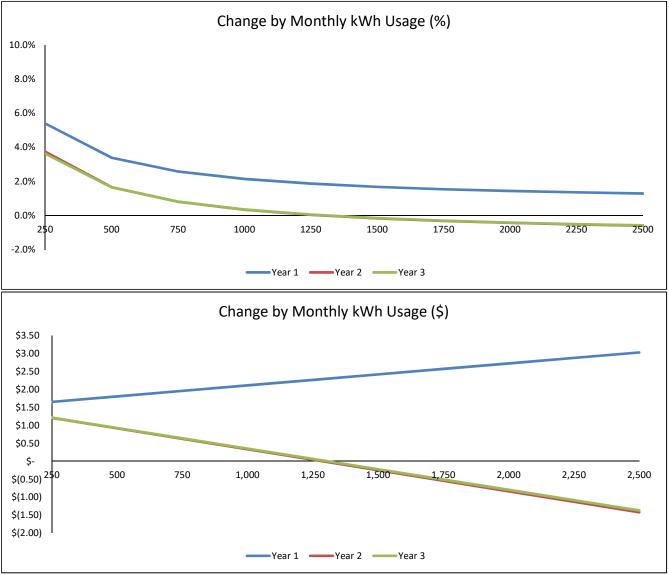
Change by Monthly kWh Usage (\$)												
Energy	Summer Energy		Year 1		Year 2	Year 3						
250	250	\$	1.65	\$	1.21	\$	1.21					
500	500	\$	1.81	\$	0.92	\$	0.93					
750	750	\$	1.96	\$	0.62	\$	0.64					
1,000	1,000	\$	2.11	\$	0.33	\$	0.35					
1,250	1,250	\$	2.26	\$	0.04	\$	0.06					
1,500	1,500	\$	2.42	\$	(0.25)	\$	(0.22)					
1,750	1,750	\$	2.57	\$	(0.54)	\$	(0.51)					
2,000	2,000	\$	2.72	\$	(0.84)	\$	(0.80)					
2,250	2,250	\$	2.87	\$	(1.13)	\$	(1.08)					
2,500	2,500	\$	3.03	\$	(1.42)	\$	(1.37)					



City of Petoskey Rate Design

Projected Residential (REM) Rates

Rates	Current		Year 1		Year 2		Year 3	
Customer Charge:								
All Customers	\$	7.95	\$ 9.45	\$	10.95	\$	12.45	
Energy Charge:								
Winter Energy	\$	0.08400	\$ 0.08461	\$	0.08344	\$	0.08229	
Summer Energy	\$	0.11250	\$ 0.11311	\$	0.11194	\$	0.11079	
Power Cost Adjustment:								
All Energy	\$	(0.00270)	\$ (0.00270)	\$	(0.00270)	\$	(0.00270)	
Revenue from Rate	\$	894	\$ 952	\$	999	\$	1,045	
Change from Previous		-	6.5%		4.9%		4.7%	





City of Petoskey Rate Design Projected Residential (REM) Rates

Annual Bill by Usage									
Energy		Current \$		Year 1\$		Year 2 \$		Year 3 \$	
250	\$	368	\$	388	\$	402	\$	417	
500	\$	640	\$	662	\$	673	\$	684	
750	\$	913	\$	936	\$	944	\$	951	
1000	\$	1,185	\$	1,210	\$	1,214	\$	1,218	
1250	\$	1,457	\$	1,485	\$	1,485	\$	1,486	
1500	\$	1,730	\$	1,759	\$	1,756	\$	1,753	
1750	\$	2,002	\$	2,033	\$	2,026	\$	2,020	
2000	\$	2,275	\$	2,307	\$	2,297	\$	2,288	
2250	\$	2,547	\$	2,581	\$	2,568	\$	2,555	
2500	\$	2,819	\$	2,856	\$	2,839	\$	2,822	

Change by Monthly kWh Usage (%)									
Energy	Summer Energy	Year 1	Year 2	Year 3					
250	250	5.4%	3.7%	3.6%					
500	500	3.4%	1.7%	1.7%					
750	750	2.6%	0.8%	0.8%					
1000	1,000	2.1%	0.3%	0.3%					
1250	1,250	1.9%	0.0%	0.1%					
1500	1,500	1.7%	-0.2%	-0.2%					
1750	1,750	1.5%	-0.3%	-0.3%					
2000	2,000	1.4%	-0.4%	-0.4%					
2250	2,250	1.4%	-0.5%	-0.5%					
2500	2,500	1.3%	-0.6%	-0.6%					

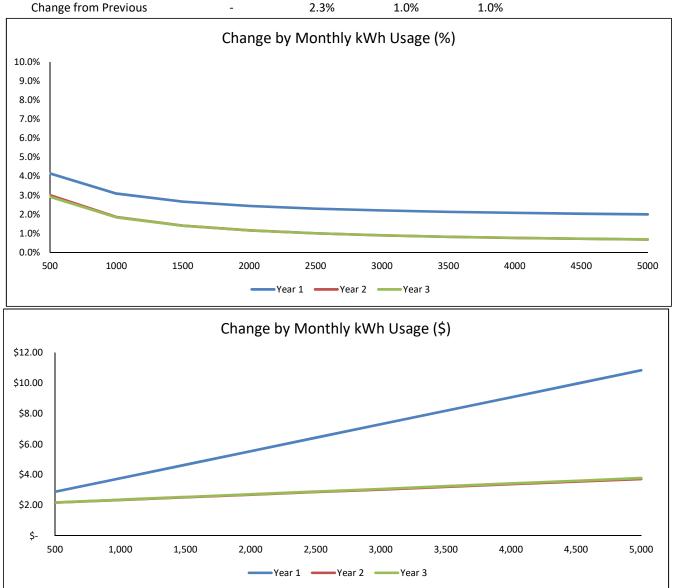
Change by Monthly kWh Usage (\$)									
Energy	Summer Energy		Year 1		Year 2		Year 3		
250	250	\$	1.65	\$	1.21	\$	1.21		
500	500	\$	1.81	\$	0.92	\$	0.93		
750	750	\$	1.96	\$	0.62	\$	0.64		
1,000	1,000	\$	2.11	\$	0.33	\$	0.35		
1,250	1,250	\$	2.26	\$	0.04	\$	0.06		
1,500	1,500	\$	2.42	\$	(0.25)	\$	(0.22)		
1,750	1,750	\$	2.57	\$	(0.54)	\$	(0.51)		
2,000	2,000	\$	2.72	\$	(0.84)	\$	(0.80)		
2,250	2,250	\$	2.87	\$	(1.13)	\$	(1.08)		
2,500	2,500	\$	3.03	\$	(1.42)	\$	(1.37)		





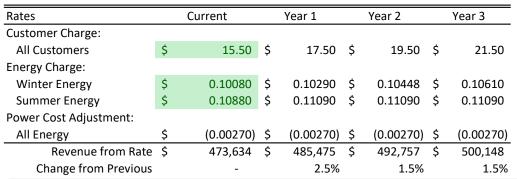
City of Petoskey Rate Design Projected Commercial (COM) Rates

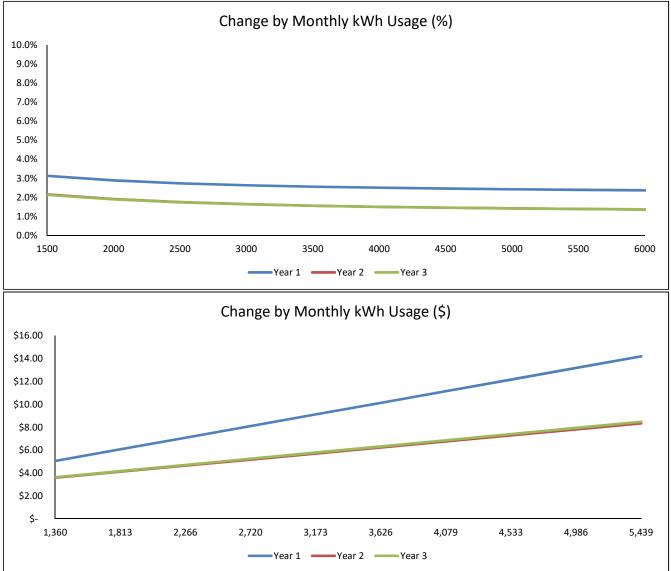
		<u> </u>							
Rates	Current			Year 1		Year 2		Year 3	
Customer Charge:									
All Customers	\$	17.00	\$	19.00	\$	21.00	\$	23.00	
Energy Charge:									
Winter Energy	\$	0.10250	\$	0.10427	\$	0.10478	\$	0.10532	
Summer Energy	\$	0.11900	\$	0.12077	\$	0.12077	\$	0.12077	
Power Cost Adjustment:									
All Energy	\$	(0.00270)	\$	(0.00270)	\$	(0.00270)	\$	(0.00270)	
Revenue from Rate	\$	2,979,463	\$	3,047,991	\$	3,078,471	\$	3,109,256	
Change from Previous		-		2.3%		1.0%		1.0%	





City of Petoskey Rate Design Projected School (SCH) Rates









City of Petoskey Rate Design Projected Traffic Lights (606, 801) Rates

Rates	Current	Year 1	Year 2	Year 3	
Customer Charge:					
Solar Powered	\$ -	\$ -	\$ -	\$	-
Other	\$ 15.50	\$ 17.50	\$ 19.50	\$	21.50
All Customers	\$ 15.50	\$ 17.50	\$ 19.50	\$	21.50
Energy Charge:					
All Energy	\$ 0.10480	\$ 0.09998	\$ 0.09472	\$	0.08947
Power Cost Adjustment:					
All Energy	\$ -	\$ -	\$ -	\$	-
Revenue from Rate	\$ 7,309	\$ 7,331	\$ 7,331	\$	7,331
Change from Previous	-	0.3%	0.0%		0.0%



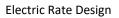
City of Petoskey Rate Design Projected Yard Lighting (YL/OYL) Rates

Rates		Current	Year 1	Year 2	Year 3
Monthly Facilities Charge:					
175-250 Watt lamps (Schedule YL)	\$	7.08	\$ 7.24	\$ 7.32	\$ 7.39
400 Watt lamps (Schedule YL)	\$	11.23	\$ 11.49	\$ 11.60	\$ 11.72
Fixture (Schedule OYL)	\$	12.20	\$ 12.48	\$ 12.61	\$ 12.73
Bay View	\$	12.20	\$ 12.48	\$ 12.61	\$ 12.73
Revenue from Rat	te \$	12,291	\$ 12,574	\$ 12,700	\$ 12,827
Change from Previou	JS	-	2.3%	1.0%	1.0%



City of Petoskey Rate Design Projected Street Lighting Rates

Rates	Current			Year 1	Year 2	Year 3		
Monthly Facilities Charge:								
All Customers	\$	3,850.00	\$	4,015.55	\$ 4,115.94	\$	4,218.84	
Revenue from Rate	\$	46,200	\$	48,187	\$ 49,391	\$	50,626	
Change from Previous		-		4.3%	2.5%		2.5%	

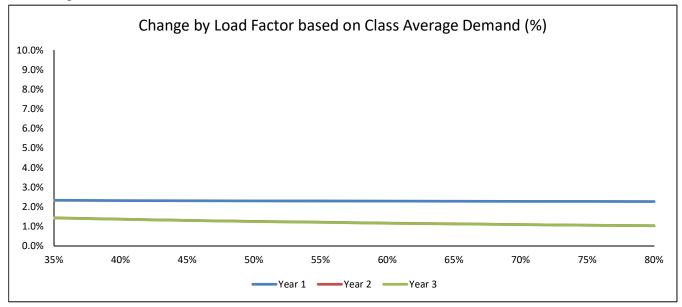




City of Petoskey Rate Design

Projected Medium Secondary Power (MSPR) Rates

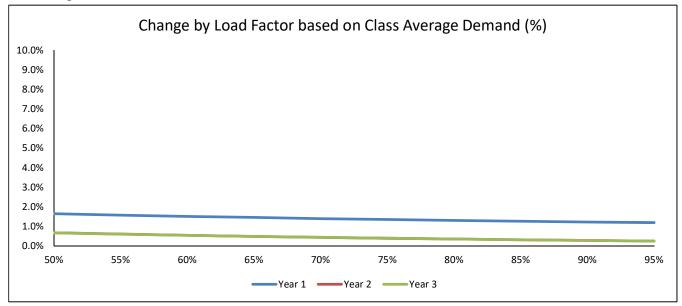
Rates	Current	Year 1	Year 2	Year 3
Monthly Facilities Charge:				
All Customers	\$ 65.00	\$ 70.00	\$ 75.00	\$ 80.00
Energy Charge:				
All Energy	\$ 0.05550	\$ 0.05664	\$ 0.05685	\$ 0.05706
Demand Charge:				
Winter Demand	\$ 13.20	\$ 13.50	\$ 13.80	\$ 14.10
Summer Demand	\$ 14.30	\$ 14.60	\$ 14.90	\$ 15.20
Power Cost Adjustment:				
All Energy	\$ (0.00270)	\$ (0.00270)	\$ (0.00270)	\$ (0.00270)
Revenue from Rate	\$ 822,770	\$ 841,693	\$ 850,110	\$ 858,611
Change from Previous	\$ -	2.3%	1.0%	1.0%





City of Petoskey Rate Design Projected Large Secondary Power (LSPR) Rates

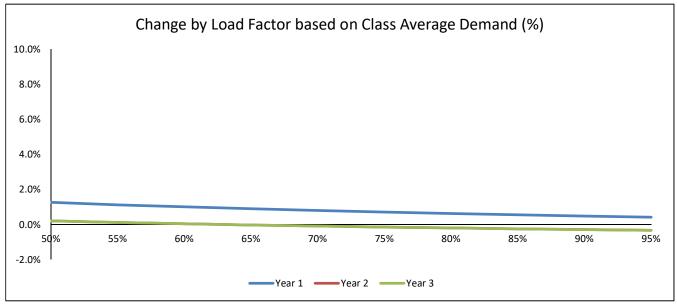
Rates	Current	Year 1	Year 2	Year 3
Monthly Facilities Charge:				
All Customers	\$ 160.00	\$ 170.00	\$ 180.00	\$ 190.00
Energy Charge:				
All Energy	\$ 0.05450	\$ 0.05466	\$ 0.05435	\$ 0.05404
Demand Charge:				
Winter Demand	\$ 13.20	\$ 13.50	\$ 13.80	\$ 14.10
Summer Demand	\$ 14.35	\$ 15.10	\$ 15.40	\$ 15.70
Power Cost Adjustment:				
All Energy	\$ (0.00270)	\$ (0.00270)	\$ (0.00270)	\$ (0.00270)
Revenue from Rate	\$ 853,915	\$ 866,724	\$ 871,058	\$ 875,413
Change from Previous	\$ -	1.5%	0.5%	0.5%





City of Petoskey Rate Design Projected Large Primary Power (LPPR) Rates

Rates	Current	Year 1	Year 2	Year 3
Monthly Facilities Charge:				
All Customers	\$ 120.00	\$ 140.00	\$ 160.00	\$ 180.00
Energy Charge:				
All Energy	\$ 0.05720	\$ 0.05657	\$ 0.05584	\$ 0.05511
Demand Charge:				
Winter Demand	\$ 13.10	\$ 13.40	\$ 13.70	\$ 14.00
Summer Demand	\$ 14.10	\$ 15.35	\$ 15.65	\$ 15.95
Power Cost Adjustment:				
All Energy	\$ (0.00270)	\$ (0.00270)	\$ (0.00270)	\$ (0.00270)
Revenue from Rate	\$ 2,236,486	\$ 2,258,851	\$ 2,258,851	\$ 2,258,851
Change from Previous	\$ -	1.0%	0.0%	0.0%







City of Petoskey

BOARD:	City Council			
MEETING DATE:	December 17, 2018	PREPARED:	December 13, 2018	
AGENDA SUBJECT:	Water and Sewer Utility Rates			
RECOMMENDATION :	That the City Council ado	ot the enclosed	proposed resolution	

Background The City last performed a water and sewer system rate study in 2010 and based on the results of the report passed a resolution to adjust water and sewer rates each year for the next four years with the last adjustment in 2014. Since the last rate study the City has paid off one bond issue, entered into a new bond issue and has experienced a reduction in sewer use by a large customer, along with the regular changes that affect rates.

The study will recommend rate adjustments each year for the next five years based on revenue requirements including capital improvement projects. Monthly ready to serve charges for the Water system will be reduced due to the final payment made in 2017 on bonds originally issued in 1996 for water system improvements. While, monthly ready to serve charges for the sewer system will be increased due to the 2017 bond issuance to fund wastewater treatment plant improvements.

In 2012 the City experienced the loss of nearly 9,000,000 gallons in sewer flows annually when the Springvale Bear Creek Sewage Disposal Authority diverted flows to the Harbor Springs Area Sewage Disposal Authority for treatment purposes. This reduction in flows results in an increase in fixed costs to be covered by the remaining flows of the sewer system. Adjustments to the rates are also affected by annual operating, maintenance and capital improvement costs for the water and sewer systems.

<u>Rate Study</u> In June 2018 Tetra Tech, Ann Arbor, was asked to again perform a study of the City's water and sewer use rates, along with System Development Charges (SDC). System Development Charges are a one-time charge billed to new customers to recover a proportional share of costs incurred in constructing the existing water and sewer systems. Vic Cooperwasser of Tetra Tech performed an in-depth study of the City's water and sewer system's costs, customer base, usage, franchise agreements and capital improvements. A copy of the rate study is enclosed for your review and a power point presentation will be provided by Mr. Cooperwasser further explaining the report.

The study takes into account current methodology used in establishing utility rates along with City needs in meeting operating costs, bond debt requirements and capital improvements over the next five years. The City's financial information is entered into an excel spreadsheet program to compute water and sewer rates broken down into the following three components; a billing charge (cost to prepare a monthly bill), ready to serve charge (monthly charge based on meter size) and commodity charge (monthly usage).

<u>Water and Sewer Rates</u> The study recommends an annual increase in charges for both water and sewer rates for the five year period of 2019 through 2023, except for the water ready to serve charge in 2019. The rates will provide \$500,000 each year for ongoing capital improvement projects in both the water and sewer systems.

Below is a schedule listing the increase in water and sewer rates for a customer with a 5/8" meter, which is standard for residential customers and small commercial customers. An average customer uses between 4 and 6 units per month.

					1				-			
		20	19			2	020			2	021	
Units	Water	Sewer	Total	Percent	Water	Sewer	Total	Percent	Water	Sewer	Total	Percent
2	\$ (2.99)	\$ 7.95	\$ 4.96	8.34%	\$ 0.42	\$ 0.46	\$ 0.88	1.04%	\$ 0.46	\$ 1.73	\$ 2.19	3.37%
4	\$ (2.19)	\$ 8.55	\$ 6.36	9.35%	\$ 0.54	\$ 0.60	\$ 1.14	1.36%	\$ 0.60	\$ 1.99	\$ 2.59	3.43%
6	\$ (1.39)	\$ 9.15	\$ 7.76	10.12%	\$ 0.66	\$ 0.74	\$ 1.40	1.60%	\$ 0.74	\$ 2.25	\$ 2.99	3.49%
8	\$ (0.59)	\$ 9.75	\$ 9.16	10.74%	\$ 0.78	\$ 0.88	\$ 1.66	1.79%	\$ 0.88	\$ 2.51	\$ 3.39	3.53%

Water a	and Sewer	Rate	Monthly	Increase

		20	22			2	023	
Units	Water	Sewer	Total	Percent	Water	Sewer	Total	Percent
2	\$ 0.49	\$ 0.34	\$ 0.83	1.23%	\$ 0.53	\$ 1.37	\$ 1.90	3.29%
4	\$ 0.63	\$ 0.64	\$ 1.27	1.63%	\$ 0.69	\$ 2.01	\$ 2.70	3.41%
6	\$ 0.77	\$ 0.94	\$ 1.71	1.93%	\$ 0.85	\$ 2.31	\$ 3.16	3.49%
8	\$ 0.91	\$ 1.24	\$ 2.15	2.16%	\$ 1.01	\$ 2.61	\$ 3.62	3.56%

The proposed rate increases are less than those approved in 2010 when the same customer using 4 units received increases of 11.41% in year 1, 8.55% in year 2, 5.47% in year 3 and 2.86% in year 4. The rates catch up the first year followed by a much smaller increase in the following years.

<u>Action</u> The City staff recommends the City Council review the enclosed rate study, hears the consultant's presentation and considers adoption of the proposed resolution adjusting water and sewer rates for each of the five years beginning in 2019 through 2023.

at Enclosures



City of Petoskey

Resolution

CITY OF PETOSKEY EMMET COUNTY, MICHIGAN

RESOLUTION NO.

RESOLUTION ESTABLISHING WATER SYSTEM AND SANITARY SEWER SYSTEM CHARGES

Councilmember _____, supported by Councilmember _____, moved the adoption of the following resolution:

WHEREAS, Section 22-68 of the Code of Ordinances of the City of Petoskey (the "Code") authorizes the City Council to establish water system and sanitary sewer system services charges from time to time by resolution; and

WHEREAS, the City engaged the services of Tetra Tech to perform a water system and sanitary sewer system rate study which recommended water and sewer billing charges, readiness-to-serve charges, commodity charges, extra strength sanitary sewer surcharges and system development charges (collectively, the "User Charges") for each of the next five fiscal years; and

WHEREAS, the City Council has determined to adopt such User Charges:

NOW, THEREFORE, BE IT HEREBY RESOLVED AS FOLLOWS:

- 1. That the retail water system User Charges for water service both within and outside the City limits for each of the next five fiscal years of the City shall be as set forth on Exhibit A attached hereto.
- 2. That the retail sanitary sewer system User Charges for sanitary sewer service both within and outside the City limits for each of the next five fiscal years of the City shall be as set forth on Exhibit B attached hereto.
- 3. The User Charges set forth in Exhibits A and B shall be effective for bills issued to users as of the dates indicated in such Exhibits.
- 4. That all resolutions and parts of resolutions to the extent of any conflict herewith are hereby rescinded.

YEAS:	Councilmembers
NAYS:	Councilmembers
ABSTAIN:	Councilmembers

ABSENT:	Councilmembers	

RESOLUTION DECLARED ADOPTED.

Dated: _____

Alan Terry, City Clerk

CERTIFICATION

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of a resolution adopted by the City Council of the City of Petoskey at a regular meeting held on the _____ day of _____, 2018 and that public notice of said meeting was given pursuant to, and in compliance with, Act 267 of the Public Acts of Michigan of 1976, as amended.

Dated: _____

Alan Terry, City Clerk

Exhibit	Α
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WATER		FY 2019		FY 2020		FY 2021		FY 2022		FY 2023
INSIDE-CITY		Effective		Effective		Effective		Effective		Effective
	Ja	nuary 1, 2019	Jai	nuary 1, 2020	Ja	nuary 1, 2021	Ja	nuary 1, 2022	Jan	uary 1, 2023
Billing Charge, per Month	\$	2.47	\$		\$	2.62	\$	2.70	\$	2.78
Lawn Meter Billing Charge, Twice per Year	\$	2.47	\$	2.54	\$	2.62	\$	2.70	\$	2.78
Readiness to Serve Charge, per Meter Size, per Month										
5/8"		13.90	\$	14.13	\$	14.37	\$	14.64	\$	14.93
3/4"		20.85	\$	21.20	\$	21.56	\$	21.96	\$	22.40
1"		34.75			\$	35.93	\$	36.60	\$	37.33
1 1/2"		69.50	\$	70.65	\$	71.85	\$	73.20	\$	74.65
2"		111.20	\$	113.04	\$	114.96	\$	117.12	\$	119.44
3"		243.25	\$	247.28	\$	251.48	\$	256.20	\$	261.28
4"		417.00	\$	423.90	\$	431.10	\$	439.20	\$	447.90
6"		868.75	\$	883.13	\$	898.13	\$	915.00	\$	933.13
Commodity Charge, per 100 Cubic Feet	\$	1.85	\$	1.91	\$	1.98	\$	2.05	\$	2.13
Water System Development Charge ("Capital" Charge)					axi	mum Calculate	ed			
		Effective	۱.	Effective		Effective		Effective		Effective
Water Service Meter Size:						nuary 1, 2021				
5/8"		1,400	\$	1,400	\$	1,400	\$	1,400	\$	1,400
3/4"		2,100	\$	2,100	\$	2,100	\$	2,100	\$	2,100
1"		3,500			\$	3,500	\$	3,500	\$	3,500
1 1/2"		7,000	\$	7,000	\$	7,000	\$	7,000	\$	7,000
2"		11,200	\$	11,200	\$	11,200	\$	11,200	\$	11,200
3"		24,500			\$	24,500	\$	24,500	\$	24,500
4"	•	42,000	\$	42,000	\$	42,000	\$	42,000	\$	42,000
6"	'\$	87,500	\$	87,500	\$	87,500	\$	87,500	\$	87,500
OUTSIDE-CITY		FY 2019		FY 2020		FY 2021		FY 2022		FY 2023
Resort and Bear Creek Twp Rates = 1.5 x City (per		Effective		Effective		Effective		Effective		Effective
contract)	_			-		nuary 1, 2021	Ja			-
Billing Charge, per Month	\$	3.71	\$	3.81	\$	3.93	\$	4.05	\$	4.17
Lawn Meter Billing Charge, Twice per Year	\$	3.71	\$	3.81	\$	3.93	\$	4.05	\$	4.17
Des l'asses (s. O										
Readiness to Serve Charge, per Meter Size, per Month	<u> </u>			0.4.00			*		<u> </u>	
5/8"		20.85	Ŧ		\$	21.56	\$	21.96	\$	22.40
3/4"		31.28	\$	31.80	\$	32.34	\$	32.94	\$	33.60
1"		52.13	\$	53.00	\$	53.90	\$	54.90	\$	56.00
1 1/2"		104.25	\$	106.00	\$	107.80	\$	109.80	\$	112.00
2"		166.80	\$	169.60	\$	172.48	\$	175.68	\$	179.20
3"		364.88	\$	371.00	\$	377.30	\$	384.30	\$	392.00
4"	•	625.50		636.00	\$	646.80	\$	658.80	\$	672.00
6"		1,303.13	\$	1,325.00	\$	1,347.50	\$	1,372.50	\$	1,400.00
Commodity Charge, per 100 Cubic Feet Water System Development Charge ("Capital" Charge)	\$	2.78	\$	2.87				3.08	\$	3.20
water System Development Charge (Capital Charge)	—	Effective			axi	mum Calculate Effective	ea	Effective		- Heating
		Effective		Effective				Effective		Effective
Water Service Meter Size:						inuary 1, 2021				
5/8"		2,100		2,100				2,100	\$	2,100
3/4"		3,150		3,150				3,150	\$	3,150
	'\$	5,250		5,250				5,250	\$	5,250
1 1/2"		10,500	Ŧ	10,500				10,500	\$	10,500
2"		16,800		16,800				16,800	\$	16,800
3"		36,750		36,750				36,750	\$	36,750
4"		63,000		63,000				63,000	\$	63,000
6"	'\$	131,250	\$	131,250	Ф	131,250	\$	131,250	\$	131,250
	1									
Bay View rates = 1.25 x City (per contract)										
Bay View rates = 1.25 x City (per contract) Readiness to Serve Charge, per Meter Size, per Month	\uparrow									
Readiness to Serve Charge, per Meter Size, per Month	¢	1 086 25	¢	1 10/ 32	÷	1 102 12	¢	1 1/2 75	\$	1 166 89
	\$	1,086.25 2.32	\$ \$	1,104.38 2.39	\$			1,143.75 2.57	\$ \$	1,166.88

Exhibit B

SEWER				-			
		FY 2019	FY 2020		FY 2021	FY 2022	FY 2023
INSIDE-CITY		Effective	Effective		Effective	Effective	Effective
	Ja	anuary 1, 2019	January 1, 2020	J	lanuary 1, 2021	January 1, 2022	January 1, 2023
Billing Charge, per Month	\$	2.72	\$ 2.75	\$	2.78	\$ 2.81	\$ 2.83
Readiness to Serve Charge, per Meter Size, per							
5/8"	\$	35.32	\$ 35.32	\$	36.76	\$ 36.77	\$ 38.16
3/4"	\$	52.98	\$ 52.98	\$	55.14	\$ 55.16	\$ 57.24
1"	\$	88.30	\$ 88.30	\$	91.90	\$ 91.93	\$ 95.40
1 1/2"		176.60	\$ 176.60	\$	183.80	\$ 183.85	
2"		282.56	\$ 282.56	\$		\$ 294.16	
3"		618.10	\$ 618.10			\$ 643.48	
4"		1,059.60	\$ 1,059.60	\$,	\$ 1,103.10	
6"	Ŧ	2,207.50	\$ 2,207.50	\$,	\$ 2,298.13	, ,
Commodity Charge, per 100 Cubic Feet	\$	3.15	\$ 3.26			\$ 3.54	\$ 3.69
Sewer System Development Charge ("Capital"	┢		М	ax	imum Calculate	ed de la constant de	
		Effective	Effective		Effective	Effective	Effective
Water Service Meter Size:	Ja	anuary 1, 2019	January 1, 2020	J	lanuary 1, 2021	January 1, 2022	January 1, 2023
5/8"		4,600	\$ 4,600			\$ 4,600	
3/4"	\$	6,900	\$ 6,900	\$	6,900	\$ 6,900	\$ 6,900
1"		11,500					
1 1/2"		23,000	\$ 23,000	\$	23,000	\$ 23,000	\$ 23,000
2"		36,800					
3"		80,500				+	
4"		138,000					
6"	\$	287,500	\$ 287,500	\$	287,500	\$ 287,500	\$ 287,500
				_			
OUTSIDE-CITY	┢	FY 2019	FY 2020		FY 2021	FY 2022	FY 2023
Resort Township		Effective	Effective		Effective	Effective	Effective
	Ja	anuary 1, 2019	January 1, 2020	J	lanuary 1, 2021	January 1, 2022	January 1, 2023
Billing Charge, per Month = City	\$	2.72	\$ 2.75	\$	2.78	\$ 2.81	\$ 2.83
Readiness to Serve Charge, per Meter Size, per							
5/8"		61.81	\$ 61.81	\$		\$ 64.35	\$ 66.78
3/4"	\$	92.72	\$ 92.72	\$	96.50	\$ 96.53	
1"	Ŧ	154.53	\$ 154.53	т		\$ 160.88	
1 1/2"		309.05	\$ 309.05			\$ 321.75	
2"		494.48	\$ 494.48	\$		\$ 514.80	-
3"		1,081.68	\$ 1,081.68	\$,	\$ 1,126.13	\$ 1,168.65
4"		1,854.30	\$ 1,854.30	\$		\$ 1,930.50	
6"		3,863.13			,	\$ 4,021.88	\$ 4,173.75
Commodity Charge, per 100 Cubic Feet = City	\$	3.15			3.39	\$ 3.54	
						\$ 3.69	
Sewer System Development Charge ("Capital"			М		imum Calculate		
	F	Effective				ed Effective	\$ 3.69 Effective
Sewer System Development Charge ("Capital" Water Service Meter Size:		anuary 1, 2019	M Effective January 1, 2020	ax	imum Calculate	Effective January 1, 2022	Effective January 1, 2023
Sewer System Development Charge ("Capital" Water Service Meter Size: 5/8"	\$	anuary 1, 2019 4,600	M Effective January 1, 2020 \$ 4,600	ax J	imum Calculate Effective anuary 1, 2021	Effective January 1, 2022 \$ 4,600	Effective January 1, 2023 \$ 4,600
Sewer System Development Charge ("Capital" Water Service Meter Size: 5/8" 3/4"	\$ \$	anuary 1, 2019 4,600 6,900	M Effective January 1, 2020 \$ 4,600 \$ 6,900	ax J \$	imum Calculate Effective January 1, 2021 4,600 6,900	Effective January 1, 2022 \$ 4,600 \$ 6,900	Effective January 1, 2023 \$ 4,600 \$ 6,900
Sewer System Development Charge ("Capital" Water Service Meter Size: 5/8" 3/4"	\$ \$ \$	anuary 1, 2019 4,600 6,900 11,500	M Effective January 1, 2020 \$ 4,600 \$ 6,900 \$ 11,500	ax J \$ \$	imum Calculate Effective January 1, 2021 4,600 6,900 11,500	Effective January 1, 2022 \$ 4,600 \$ 6,900 \$ 11,500	Effective January 1, 2023 \$ 4,600 \$ 6,900 \$ 11,500
Sewer System Development Charge ("Capital" Water Service Meter Size: 5/8" 3/4" 1" 1 1/2"	\$ \$ \$	anuary 1, 2019 4,600 6,900 11,500 23,000	M Effective January 1, 2020 \$ 4,600 \$ 6,900 \$ 11,500 \$ 23,000	ax J \$ \$	imum Calculate Effective anuary 1, 2021 4,600 6,900 11,500 23,000	Effective January 1, 2022 \$ 4,600 \$ 6,900 \$ 11,500 \$ 23,000	Effective January 1, 2023 \$ 4,600 \$ 6,900 \$ 11,500 \$ 23,000
Sewer System Development Charge ("Capital" Water Service Meter Size: 5/8" 3/4" 1" 1 1/2" 2"	\$ \$ \$ \$	anuary 1, 2019 4,600 6,900 11,500 23,000 36,800	M Effective January 1, 2020 \$ 4,600 \$ 6,900 \$ 11,500 \$ 23,000 \$ 36,800	ax J \$ \$ \$ \$	imum Calculate Effective anuary 1, 2021 4,600 6,900 11,500 23,000 36,800	Effective January 1, 2022 \$ 4,600 \$ 6,900 \$ 11,500 \$ 23,000 \$ 36,800	Effective January 1, 2023 \$ 4,600 \$ 6,900 \$ 11,500 \$ 23,000 \$ 36,800
Sewer System Development Charge ("Capital" Water Service Meter Size: 5/8" 3/4" 1" 1 1/2" 2" 3"	\$ \$ \$ \$ \$	anuary 1, 2019 4,600 6,900 11,500 23,000 36,800 80,500	M Effective January 1, 2020 \$ 4,600 \$ 6,900 \$ 11,500 \$ 23,000 \$ 36,800 \$ 80,500	ax J S S S S S S S S S S S S S S S S S S	imum Calculate Effective anuary 1, 2021 4,600 6,900 11,500 23,000 36,800 80,500	Effective January 1, 2022 \$ 4,600 \$ 6,900 \$ 11,500 \$ 23,000 \$ 36,800 \$ 80,500	Effective January 1, 2023 \$ 4,600 \$ 6,900 \$ 11,500 \$ 23,000 \$ 36,800 \$ 80,500
Sewer System Development Charge ("Capital" Water Service Meter Size: 5/8" 3/4" 1" 1 1/2" 2" 3"	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	anuary 1, 2019 4,600 6,900 11,500 23,000 36,800 80,500 138,000	M Effective January 1, 2020 \$ 4,600 \$ 6,900 \$ 11,500 \$ 23,000 \$ 36,800 \$ 36,800 \$ 80,500 \$ 138,000	ax J S S S S S S S S S S S S S S S S S S S	imum Calculate Effective anuary 1, 2021 4,600 6,900 11,500 23,000 36,800 80,500 138,000	Effective January 1, 2022 \$ 4,600 \$ 6,900 \$ 11,500 \$ 23,000 \$ 36,800 \$ 36,800 \$ 80,500 \$ 138,000	Effective January 1, 2023 \$ 4,600 \$ 6,900 \$ 11,500 \$ 23,000 \$ 36,800 \$ 36,800 \$ 80,500 \$ 138,000
Sewer System Development Charge ("Capital" Water Service Meter Size: 5/8" 3/4" 1" 1 1/2" 2" 3"	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	anuary 1, 2019 4,600 6,900 11,500 23,000 36,800 80,500	M Effective January 1, 2020 \$ 4,600 \$ 6,900 \$ 11,500 \$ 23,000 \$ 36,800 \$ 36,800 \$ 80,500 \$ 138,000	ax J S S S S S S S S S S S S S S S S S S S	imum Calculate Effective anuary 1, 2021 4,600 6,900 11,500 23,000 36,800 80,500 138,000	Effective January 1, 2022 \$ 4,600 \$ 6,900 \$ 11,500 \$ 23,000 \$ 36,800 \$ 36,800 \$ 80,500 \$ 138,000	Effective January 1, 2023 \$ 4,600 \$ 6,900 \$ 11,500 \$ 23,000 \$ 36,800 \$ 36,800 \$ 80,500 \$ 138,000
Sewer System Development Charge ("Capital" Water Service Meter Size: 5/8" 3/4" 1" 1 1/2" 2" 3" 4" 6"	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	anuary 1, 2019 4,600 6,900 11,500 23,000 36,800 36,800 80,500 138,000 287,500	M Effective January 1, 2020 \$ 4,600 \$ 6,900 \$ 11,500 \$ 23,000 \$ 36,800 \$ 36,800 \$ 80,500 \$ 138,000 \$ 287,500	ax J S S S S S S S S S S S S S S S S S S S	imum Calculate Effective anuary 1, 2021 4,600 6,900 11,500 23,000 36,800 80,500 138,000 287,500	Effective January 1, 2022 \$ 4,600 \$ 6,900 \$ 11,500 \$ 23,000 \$ 36,800 \$ 36,800 \$ 80,500 \$ 138,000 \$ 287,500	Effective January 1, 2023 \$ 4,600 \$ 6,900 \$ 11,500 \$ 23,000 \$ 36,800 \$ 36,800 \$ 80,500 \$ 138,000 \$ 287,500
Sewer System Development Charge ("Capital" Water Service Meter Size: 5/8" 3/4" 1" 1 1/2" 2" 3" 4" (By Contract, per Restated Agreement, March 19,	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	anuary 1, 2019 4,600 6,900 11,500 23,000 36,800 36,800 80,500 138,000 287,500 Effective	M Effective January 1, 2020 \$ 4,600 \$ 6,900 \$ 11,500 \$ 23,000 \$ 36,800 \$ 36,800 \$ 80,500 \$ 138,000 \$ 287,500 Effective	ax J S S S S S S S S	imum Calculate Effective anuary 1, 2021 4,600 6,900 11,500 23,000 36,800 80,500 138,000 287,500 Effective	Effective January 1, 2022 \$ 4,600 \$ 6,900 \$ 11,500 \$ 23,000 \$ 36,800 \$ 36,800 \$ 80,500 \$ 138,000 \$ 287,500 Effective	Effective January 1, 2023 \$ 4,600 \$ 6,900 \$ 11,500 \$ 23,000 \$ 36,800 \$ 36,800 \$ 80,500 \$ 138,000 \$ 287,500 Effective
Sewer System Development Charge ("Capital" Water Service Meter Size: 5/8" 3/4" 1" 1 1/2" 2" 3" 4" (By Contract, per Restated Agreement, March 19, 2018)	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	anuary 1, 2019 4,600 6,900 11,500 23,000 36,800 36,800 80,500 138,000 287,500	M Effective January 1, 2020 \$ 4,600 \$ 6,900 \$ 11,500 \$ 23,000 \$ 36,800 \$ 36,800 \$ 80,500 \$ 138,000 \$ 287,500	ax J S S S S S S S S	imum Calculate Effective anuary 1, 2021 4,600 6,900 11,500 23,000 36,800 80,500 138,000 287,500	Effective January 1, 2022 \$ 4,600 \$ 6,900 \$ 11,500 \$ 23,000 \$ 36,800 \$ 36,800 \$ 80,500 \$ 138,000 \$ 287,500	Effective January 1, 2023 \$ 4,600 \$ 6,900 \$ 11,500 \$ 23,000 \$ 36,800 \$ 36,800 \$ 80,500 \$ 138,000 \$ 287,500
Sewer System Development Charge ("Capital" Water Service Meter Size: 5/8" 3/4" 1" 1 1/2" 2" 3" (By Contract, per Restated Agreement, March 19, 2018) Monthly Commodity Charge: 95% of City Commodity	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	anuary 1, 2019 4,600 6,900 11,500 23,000 36,800 80,500 138,000 287,500 Effective anuary 1, 2019 3.00	M Effective January 1, 2020 \$ 4,600 \$ 6,900 \$ 11,500 \$ 23,000 \$ 36,800 \$ 36,800 \$ 23,000 \$ 36,800 \$ 23,000 \$ 36,800 \$ 80,500 \$ 138,000 \$ 287,500 Effective January 1, 2020 \$ 3.10	ax J S S S S S S S S S S S S S S S S S S	imum Calculate Effective anuary 1, 2021 4,600 6,900 11,500 23,000 36,800 80,500 138,000 287,500 Effective anuary 1, 2021 3,23	Effective January 1, 2022 \$ 4,600 \$ 6,900 \$ 11,500 \$ 23,000 \$ 36,800 \$ 36,800 \$ 80,500 \$ 138,000 \$ 287,500 Effective January 1, 2022 \$ 3.37	Effective January 1, 2023 \$ 4,600 \$ 6,900 \$ 11,500 \$ 23,000 \$ 36,800 \$ 36,800 \$ 80,500 \$ 138,000 \$ 287,500 Effective January 1, 2023 \$ 3.51
Sewer System Development Charge ("Capital" Water Service Meter Size: 5/8" 3/4" 1" 1 1/2" 2" 3" 4" (By Contract, per Restated Agreement, March 19, 2018) Monthly Commodity Charge: 95% of City Commodity Monthly Capital Charge: SVBC Share of Outstanding	S S S S S S S J a	anuary 1, 2019 4,600 6,900 11,500 23,000 36,800 80,500 138,000 287,500 Effective anuary 1, 2019	M Effective January 1, 2020 \$ 4,600 \$ 6,900 \$ 11,500 \$ 23,000 \$ 36,800 \$ 36,800 \$ 80,500 \$ 138,000 \$ 287,500 Effective January 1, 2020	ax J S S S S S S S S S S S S S S S S S S	imum Calculate Effective anuary 1, 2021 4,600 6,900 11,500 23,000 36,800 80,500 138,000 287,500 Effective lanuary 1, 2021 3.23	Effective January 1, 2022 \$ 4,600 \$ 6,900 \$ 11,500 \$ 23,000 \$ 36,800 \$ 36,800 \$ 80,500 \$ 138,000 \$ 287,500 Effective January 1, 2022	Effective January 1, 2023 \$ 4,600 \$ 6,900 \$ 11,500 \$ 23,000 \$ 36,800 \$ 36,800 \$ 80,500 \$ 138,000 \$ 287,500 Effective January 1, 2023 \$ 3.51
Sewer System Development Charge ("Capital" Water Service Meter Size: 5/8" 3/4" 1" 1 1/2" 2" 3" 4" (By Contract, per Restated Agreement, March 19, 2018) Monthly Commodity Charge: 95% of City Commodity Monthly Capital Charge: SVBC Share of Outstanding Bay View rates = 1.25 x City (per contract)	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	anuary 1, 2019 4,600 6,900 11,500 23,000 36,800 80,500 138,000 287,500 Effective anuary 1, 2019 3.00	M Effective January 1, 2020 \$ 4,600 \$ 6,900 \$ 11,500 \$ 23,000 \$ 36,800 \$ 36,800 \$ 23,000 \$ 36,800 \$ 23,000 \$ 36,800 \$ 80,500 \$ 138,000 \$ 287,500 Effective January 1, 2020 \$ 3.10	ax J S S S S S S S S S S S S S S S S S S	imum Calculate Effective anuary 1, 2021 4,600 6,900 11,500 23,000 36,800 80,500 138,000 287,500 Effective anuary 1, 2021 3,23	Effective January 1, 2022 \$ 4,600 \$ 6,900 \$ 11,500 \$ 23,000 \$ 36,800 \$ 36,800 \$ 80,500 \$ 138,000 \$ 287,500 Effective January 1, 2022 \$ 3.37	Effective January 1, 2023 \$ 4,600 \$ 6,900 \$ 11,500 \$ 23,000 \$ 36,800 \$ 36,800 \$ 80,500 \$ 138,000 \$ 287,500 Effective January 1, 2023 \$ 3.51
Sewer System Development Charge ("Capital" Water Service Meter Size: 5/8" 3/4" 1" 1 1/2" 2" 3" 4" (By Contract, per Restated Agreement, March 19, 2018) Monthly Commodity Charge: 95% of City Commodity Monthly Capital Charge: SVBC Share of Outstanding	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	anuary 1, 2019 4,600 6,900 11,500 23,000 36,800 80,500 138,000 287,500 Effective anuary 1, 2019 3.00	M Effective January 1, 2020 \$ 4,600 \$ 6,900 \$ 11,500 \$ 23,000 \$ 36,800 \$ 36,800 \$ 23,000 \$ 36,800 \$ 23,000 \$ 36,800 \$ 80,500 \$ 138,000 \$ 287,500 Effective January 1, 2020 \$ 3.10	ax J S S S S S S S S S S S S S S S S S S	imum Calculate Effective anuary 1, 2021 4,600 6,900 11,500 23,000 36,800 80,500 138,000 287,500 Effective anuary 1, 2021 3,23	Effective January 1, 2022 \$ 4,600 \$ 6,900 \$ 11,500 \$ 23,000 \$ 36,800 \$ 36,800 \$ 80,500 \$ 138,000 \$ 287,500 Effective January 1, 2022 \$ 3.37	Effective January 1, 2023 \$ 4,600 \$ 6,900 \$ 11,500 \$ 23,000 \$ 36,800 \$ 36,800 \$ 138,000 \$ 138,000 \$ 287,500 Effective January 1, 2023 \$ 3.51
Sewer System Development Charge ("Capital" Water Service Meter Size: 5/8" 3/4" 1" 1 1/2" 2" 3" 4" (By Contract, per Restated Agreement, March 19, 2018) Monthly Commodity Charge: 95% of City Commodity Monthly Capital Charge: SVBC Share of Outstanding Bay View rates = 1.25 x City (per contract)	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	anuary 1, 2019 4,600 6,900 11,500 23,000 36,800 80,500 138,000 287,500 Effective anuary 1, 2019 3.00 14,928.00	M Effective January 1, 2020 \$ 4,600 \$ 6,900 \$ 11,500 \$ 23,000 \$ 36,800 \$ 36,800 \$ 138,000 \$ 287,500 Effective January 1, 2020 \$ 3.10 \$ 14,705.66	ax J S S S S S S S S S S S S S S S S S S	imum Calculate Effective anuary 1, 2021 4,600 6,900 11,500 23,000 36,800 80,500 138,000 287,500 Effective lanuary 1, 2021 3.23 15,779.17	Effective January 1, 2022 \$ 4,600 \$ 6,900 \$ 11,500 \$ 23,000 \$ 36,800 \$ 36,800 \$ 80,500 \$ 138,000 \$ 287,500 Effective January 1, 2022 \$ 3.37 \$ 15,542.43 \$ 1,379.10	Effective January 1, 2023 \$ 4,600 \$ 6,900 \$ 11,500 \$ 23,000 \$ 36,800 \$ 36,800 \$ 138,000 \$ 138,000 \$ 287,500 Effective January 1, 2023 \$ 3.51 \$ 16,529.79 \$ 1,431.00
Sewer System Development Charge ("Capital" Water Service Meter Size: 5/8" 3/4" 1" 1 1/2" 2" 3" 4" (By Contract, per Restated Agreement, March 19, 2018) Monthly Commodity Charge: 95% of City Commodity Monthly Capital Charge: SVBC Share of Outstanding Bay View rates = 1.25 x City (per contract) Readiness to Serve Charge, per Meter Size, per	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	anuary 1, 2019 4,600 6,900 11,500 23,000 36,800 80,500 138,000 287,500 Effective anuary 1, 2019 3.00 14,928.00	M Effective January 1, 2020 \$ 4,600 \$ 6,900 \$ 11,500 \$ 23,000 \$ 36,800 \$ 36,800 \$ 138,000 \$ 287,500 Effective January 1, 2020 \$ 3.10 \$ 14,705.66	ax J S S S S S S S S S S S S S S S S S S	imum Calculate Effective anuary 1, 2021 4,600 6,900 11,500 23,000 36,800 80,500 138,000 287,500 Effective anuary 1, 2021 3.23 15,779.17	Effective January 1, 2022 \$ 4,600 \$ 6,900 \$ 11,500 \$ 23,000 \$ 36,800 \$ 36,800 \$ 80,500 \$ 138,000 \$ 287,500 Effective January 1, 2022 \$ 3.37 \$ 15,542.43	Effective January 1, 2023 \$ 4,600 \$ 6,900 \$ 11,500 \$ 23,000 \$ 36,800 \$ 36,800 \$ 138,000 \$ 138,000 \$ 287,500 Effective January 1, 2023 \$ 3.51 \$ 16,529.79 \$ 1,431.00
Sewer System Development Charge ("Capital" Water Service Meter Size: 5/8" 3/4" 1" 1 1/2" 2" 3" 4" (By Contract, per Restated Agreement, March 19, 2018) Monthly Commodity Charge: 95% of City Commodity Monthly Capital Charge: SVBC Share of Outstanding Bay View rates = 1.25 x City (per contract) Readiness to Serve Charge, per Meter Size, per Sewage pumped via 8" FM, RTS charge billed as	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	anuary 1, 2019 4,600 6,900 11,500 23,000 36,800 80,500 138,000 287,500 Effective anuary 1, 2019 3.00 14,928.00 1,324.50	M Effective January 1, 2020 \$ 4,600 \$ 6,900 \$ 11,500 \$ 23,000 \$ 36,800 \$ 36,800 \$ 138,000 \$ 287,500 Effective January 1, 2020 \$ 3.10 \$ 14,705.66 \$ 1,324.50	ax J S S S S S S S S S S S S S S S S S S	imum Calculate Effective anuary 1, 2021 4,600 6,900 11,500 23,000 36,800 80,500 138,000 287,500 Effective anuary 1, 2021 3.23 15,779.17	Effective January 1, 2022 \$ 4,600 \$ 6,900 \$ 11,500 \$ 23,000 \$ 36,800 \$ 36,800 \$ 80,500 \$ 138,000 \$ 287,500 Effective January 1, 2022 \$ 3.37 \$ 15,542.43 \$ 1,379.10	Effective January 1, 2023 \$ 4,600 \$ 6,900 \$ 11,500 \$ 23,000 \$ 36,800 \$ 36,800 \$ 138,000 \$ 138,000 \$ 287,500 Effective January 1, 2023 \$ 3.51 \$ 16,529.79 \$ 1,431.00
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Sewer System Development Charge ("Capital" Water Service Meter Size: 5/8" 3/4" 1 1/2" 1 1/2" 2" 3" 4" (By Contract, per Restated Agreement, March 19, 2018) Monthly Commodity Charge: 95% of City Commodity Monthly Capital Charge: SVBC Share of Outstanding Bay View rates = 1.25 x City (per contract) Readiness to Serve Charge, per Meter Size, per Sewage pumped via 8" FM, RTS charge billed as Commodity Charge, per 100 Cubic Feet EXTRA STRENGTH SURCHARGES - ALL CUSTOMERS Biochemical Oxygen Demand: Above 300 mg/l (per po	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	anuary 1, 2019 4,600 6,900 11,500 23,000 36,800 80,500 138,000 287,500 Effective anuary 1, 2019 3.00 14,928.00 1,324.50 3.94 0.23	M Effective January 1, 2020 \$ 4,600 \$ 6,900 \$ 11,500 \$ 23,000 \$ 36,800 \$ 36,800 \$ 138,000 \$ 287,500 \$ 287,500 Effective January 1, 2020 \$ 3.10 \$ 14,705.66 \$ 1,324.50 \$ 4.08	J S	imum Calculate Effective anuary 1, 2021 4,600 6,900 11,500 23,000 36,800 80,500 138,000 287,500 Effective anuary 1, 2021 3.23 15,779.17 1,378.50 4.24	Effective January 1, 2022 \$ 4,600 \$ 6,900 \$ 11,500 \$ 23,000 \$ 36,800 \$ 36,800 \$ 80,500 \$ 138,000 \$ 287,500 Effective January 1, 2022 \$ 3.37 \$ 15,542.43 \$ 1,379.10 \$ 4.43	Effective January 1, 2023 \$ 4,600 \$ 6,900 \$ 11,500 \$ 23,000 \$ 36,800 \$ 36,800 \$ 36,800 \$ 287,500 Effective January 1, 2023 \$ 3.51 \$ 16,529.79 \$ 1,431.00 \$ 4.62 \$ 0.26 \$ 0.26



December 12, 2018

Mr. Alan Terry Director of Finance City of Petoskey 101 East Lake Street Petoskey, MI 49770

Re: City of Petoskey, Michigan Water and Sewer Rate and System Development Charge Study "SmartRate" Report

Dear Mr. Terry:

Attached are the final financial spreadsheets (**SmartRate** tables) that calculate water and sewer rates and maximum system development charges (SDCs) for the City of Petoskey ("Inside-City"), Resort Township, Bear Creek Township, the Springvale-Bear Creek Sewage Disposal Authority (SVBC) and Bayview. The findings of our study are presented in this letter report.

Water and sewer rates are intended to recover the City's annual expenses to sustain its water and sewer infrastructure. These expenses typically include: operation and maintenance, administration, payments in lieu of taxes, debt service, capital improvements not debt-financed, and contributions to equipment replacement and capital reserve funds.

An SDC is a one-time charge to new water or sewer customers to recover a proportional share of the City's net investment in the water and sewer infrastructure. SDCs are also assessed to current customers that increase the capacity required to serve them. SDCs go by several other common names, such as "connection fee", "tap-in fee", "capacity fee", "benefit fee", etc. SDCs do not include any of the costs incurred by the City to physically connect the customer to the City's water and sewer infrastructure, purchase and install a water meter or inspect the connections. These types of costs are in addition to the SDCs.

The proposed rates and SDCs are based on mathematical formulas that:

- Generate revenue sufficient to meet the City's water and sewer system's operation, maintenance, administrative, debt service and reserve requirements.
- Comply with the intent of the December 1998 Michigan Supreme Court decision in the case of Bolt v. City of Lansing. Water and sewer rates and SDCs should be calculated proportionate to the necessary cost of the service.
- Conform to the terms of the City's current inter-municipal water and sewer service agreements.

All projected water and sewer rates and SDCs are based on financial and usage projections. The estimates, projections, assumptions, and conclusions outlined in this report reflect expectations as to future activities and events. The expectations are based on our understanding of the data from the City. To the extent that actual future conditions vary from those assumed herein or provided to us, actual



results will vary from those forecast. Some of the assumptions inevitably will not materialize and unanticipated events could occur which might significantly change the results shown herein.

Tetra Tech recommends that actual water and sewer revenues generated by new rates adopted by the City be compared to projected revenues regularly. If actual revenues do not meet projected revenues because of either usage reductions or expense increases, the water and sewer rates should be recalculated and adjusted if necessary to help ensure revenue adequacy.

RATE STRUCTURE

The current rate structure is maintained in this rate study which consists of the following rates billed monthly:

- Billing: A fixed charge that is the same amount for each meter(s) for each customer.
- Readiness to Serve: A fixed charge that increases with meter size.
- Commodity Charge: A fixed charge per 100 cubic feet (CF) usage.

WATER RATE TABLES

Table W1: This table compares the current water rates and SDCs to a series of calculated rates and SDCs to go into effect each year for the next five years of the study period of this report (FY 2019 to FY 2023). The water rates are based on calculations prepared in subsequent water rate tables.

The calculated billing charge is a fixed amount to be billed each month to each customer based on the number of meters serving that customer. The water billing charge recovers water billing services.

The calculated readiness-to-serve charges are fixed amounts to be billed each month to each customer based on meter size, regardless of the amount of water used. These charges do not include any flow. The fixed amounts increase with increasing meter size. The readiness-to-serve charges recover 100% of payment in lieu of taxes, debt service and capital expenses not debt-financed. It also recovers 40% of the administrative expenses (net of water billing expenses).

The proposed commodity charge recovers the remaining water system operation and maintenance expenses on a uniform cost per 100 CF basis for all water used.

Table W2: This table analyzes the revenue generated by each water rate under the City's current water rates.

Table W3: This table calculates the billing units for calculating the Billing charge, Readiness to Serve charge and the Commodity charge.

Billing units are determined by the number of meters multiplied by the number of bills issued per year for that particular meter.

Each water meter size in the Petoskey water system is converted to a 5/8-inch meter equivalent based on the rated maximum capacity (in gallons per minute) of each water meter. For example, the base 5/8inch meter capacity is 20 gallons per minute. The rated maximum capacity of a 4-inch meter is 600 gallons per minute; therefore, the meter ratio for a 4-inch meter is equal to 600/20 = 30. The number of meters of each size is multiplied by their meter ratios and then by their billing frequencies to determine the total number of equivalent 5/8-inch meters.



The commodity charge is based on the amount of water used by each customer. This is known as the customer's "water billable flow." The total amount of metered usage, in 100 CF units, is presented.

All of these amounts are projected each year based on the projected growth rate for that billing unit. In addition, at the bottom of the table the outside-City billing units are converted to "equivalent" billing units based on the terms of the City's municipal service agreements.

Table W4: This table projects water system expenses each year for the next five years and compares these to the revenue projected by the current water rates, showing that the current water rates are not adequate to sustain the water system's financial needs over this period. Budgets were projected based on annual escalation factors provided by the City to account for inflation, wage adjustments and defined expenses. Over the entire study period there will be no funding support from the unrestricted water fund balance. Water capital improvements will be paid entirely from water operating revenue. No water capital improvements will be debt financed.

Table W5: This table allocates the expenses from Table W4 to one of the three water rates: Billing, Readiness-to-Serve or Commodity. Offsetting water revenues are also credited to the three water rates as appropriate. The difference between the total expenses and the total offsetting revenues determines the net amount that needs to be recovered by that rate. These amounts are divided by the equivalent billing units calculated in Table W3 to determine the rates for each user class. Equivalent billing units consider the impact of outside City user contract times.

The net billing expenses are divided by the number of equivalent bills issued per year to determine the monthly fixed billing charge.

The net readiness-to-serve expenses are divided by the number of 5/8-inch meter equivalents to determine the monthly fixed readiness-to-serve charge for each meter size.

The net commodity expenses are divided by the total annual equivalent billable flow to determine the uniform commodity charge, expressed in dollars per 100 CF.

Table W6: This table compares current monthly water bills to projected water bills for each year of the study period for the combinations of usage and meter sizes, for inside-City and outside-City customers. Year-over-year changes are expressed in terms of percentages as well as dollars:

Monthly Usage, 100CF Units	Meter Size
0	5/8"
5	5/8"
10	5/8"
50	3/4"
200	1"
600	2"
1,200	3"
7,000	1 @ 5/8"; 4 @ 2"; 2 @ 4"
2,800	6"



Table W6 Residential: This table compares current monthly water bills to projected water bills for each year of the study period for residential customers with a 5/8" meter and monthly usages ranging from 0 CF per month to 10 CF per month. Year-over-year changes are expressed in terms of percentages as well as dollars.

Table W7: This table "closes the loop" to confirm that the calculated water rates will generate enough revenue to fund the water system over the entire study period. Revenue for each rate category is projected. There are eight water rate categories as follows:

- 1. Billing Inside City
- 2. RTS Inside City
- 3. Commodity Inside City
- 4. Billing Outside City
- 5. RTS Outside City
- 6. Commodity Outside City
- 7. RTS Bayview
- 8. Commodity Bayview

SEWER RATE TABLES

Tables S1 through S7: These tables are similar in concept to Tables W1 through W7.

TOTAL WATER AND SEWER RATE TABLES

Table T1: This table totals the water rates and sewer rates from Table W1 and S1, respectively.

Table T2: This table calculates total monthly water and sewer bills for the usage and meter size combinations given in Tables W6 and S6. Year-to-year changes are expressed in terms of percentages and dollars.

Table T2 Residential: This table calculates total monthly water and sewer bills for residential customers with a 5/8" meter and monthly usages ranging from 0 CF per month to 10 CF per month based on the total of the bills shown in Tables W6 Residential and S6 Residential. Year-to-year changes are expressed in terms of percentages and dollars.

Table T3: This table summarizes the total projected water and sewer revenue under the calculated rates over the entire study period.

WATER SYSTEM DEVELOPMENT CHARGE (SDC) TABLES

Table W8: This table lists all of the assets in the water system, their account numbers, when they were installed, the original cost and the cost to replace them at current prices (labeled the "local replacement value").

Table W9: This table takes the current (FY 2018) local replacement value of the water system and projects it for five years based on the City's five-year capital improvement program (FY 2019 to FY 2023). Projected annual outstanding bond principal amounts, if any, are deducted from each total to determine the net local replacement value. The design capacity of the water system in gallons per day

4



is divided into the net local replacement value to determine the SDC per gallon of capacity. This amount is multiplied by the gallons per day usage of a typical single family residential customer (the "residential equivalent unit" or "REU") to determine the SDC per REU. The calculated SDC is a maximum rounded amount. It is recommended that the City not set the SDC higher than the maximum calculated amount. The City can choose to set the SDC less than the maximum. This table also calculates maximum SDCs per water meter size.

SEWER SYSTEM DEVELOPMENT CHARGE (SDC) TABLES

Tables S8 and S9: These tables are similar in concept to Tables W8 and W9.

WASTEWATER EXTRA STRENGTH SURCHARGES

Table S10: This table allocates wastewater treatment operation and maintenance costs to removing biochemical oxygen demand, suspended solids, phosphorus and total Kjeldahl nitrogen and then divides these expenses by the annual influent loadings of these conventional pollutants to calculate wastewater extra strength surcharges for each year of the study period.

It has been a pleasure to work with City staff on this study. We appreciate the thought and effort that City staff provided to us.

Sincerely,

Vic Coopemane

Vic Cooperwasser, P.E. Senior Project Manager

Encl.

Table W1 Current FY 2018 and Proposed FY 2019 to FY 2023 Water Rates and System Development Charges

	A			В		С		D	_	E		F		G
1	0		(Current		0		5	Pr	oposed				<u> </u>
2	WATER			FY 2018		Y 2019		Y 2020	F	Y 2021		Y 2022	F	Y 2023
2	INSIDE-CITY			ffective		ffective		ffective		ffective		ffective		ffective
	INSIDE-CIT F		Ja	anuary 1,	Ja	nuary 1,			January 1,		January 1,		January 1	
3			_	2014	-	2019		2020	-	2021	-	2022		2023
	Billing Charge, per Month Lawn Meter Billing Charge, Twice per Year		\$	2.16	\$	2.47	\$	2.54	\$	2.62	\$	2.70	\$	2.78
6	Readiness to Serve Charge, per Meter Size, per Month	No Bell	φ	5.00	\$	2.41	Ŷ	2.04	9	2.02	÷	2.10	-	2.70
7	3,1 ,1	5/8"	\$	18.00	\$	13.90	\$	14.13	\$	14.37	\$	14.64	\$	14.93
8		3/4"		27.00	\$	20.85	\$	21.20	\$	21.56	\$	21.96	\$	22.40
9 10		1" 1 1/2"	\$	45.00 90.00	\$	34.75 69.50	\$	35.33 70.65	\$	35.93 71.85	\$	36.60 73.20	\$	37.33 74.65
11		2"	\$	144.00	\$	111.20	\$	113.04	\$	114.96	\$	117.12	\$	119.44
12		3"		315.00	\$	243.25	\$	247.28	\$	251.48	\$	256.20	\$	261.28
13		4"	\$	540.00	\$	417.00	\$	423.90	\$	431.10	\$	439.20	\$	447.90
14	Commodity Charge and 100 Cubic Fact	6"	\$	1,125.00	\$	868.75	\$	883.13 1.91	\$	898.13 1.98	\$	915.00 2.05	\$	933.13 2.13
	Commodity Charge, per 100 Cubic Feet Water System Development Charge ("Capital" Charge)			Current	\$	1.00	\$			m Calcula		2.05	Þ	2.13
.0	that eyetem berelepinent enalge (ouphai enalge)			ffective	E	ffective	E	ffective		ffective		ffective	E	ffective
20080			Ja	anuary 1,	Ja	nuary 1,	Ja	nuary 1,	Ja	inuary 1,	Ja	nuary 1,	Ja	anuary 1,
	Water Service Meter Size:			2011	-	2019		2020	_	2021		2022		2023
18 19		5/8" 3/4"	\$	900	\$	1,400 2,100	\$	1,400	\$ \$	1,400	\$	1,400	\$	1,400 2,100
20		3/4 1"	\$	2,250	\$	3,500		3,500	ş Ş	3,500	S	3,500	\$	3,500
21		1 1/2"	\$	4,500	\$	7,000	\$	7,000	\$	7,000	\$	7,000	\$	7,000
22		2"		7,200	\$	11,200	\$	11,200	\$	11,200	\$	11,200	\$	11,200
23		3"	\$	15,750	\$	24,500	\$	24,500	\$	24,500	\$	24,500	\$	24,500
24 25		4" 6"	\$	27,000 56,250	\$	42,000 87,500	\$	42,000 87,500	\$	42,000 87,500	S	42,000 87,500	\$	42,000 87,500
26		0		Current	\$	07,500	φ	07,500		roposed	φ	07,000	Ŷ	07,000
									_				-	
27	OUTSIDE-CITY			EV 2018		V 2010		V 2020		V 2021		V 2022		EV 2023
27	OUTSIDE-CITY Resort and Bear Creek Two Rates = 1.5 x City (per contract)			FY 2018 Effective		Y 2019 ffective		TY 2020		TY 2021		Y 2022 ffective		FY 2023 ffective
27	OUTSIDE-CITY Resort and Bear Creek Twp Rates = 1.5 x City (per contract)		E		E		E		E		E		E	
28	Resort and Bear Creek Twp Rates = 1.5 x City (per contract)		E Ja	Effective anuary 1, 2014	E Ja	ffective nuary 1, 2019	E Ja	ffective inuary 1, 2020	E Ja	ffective anuary 1, 2021	E Ja	ffective nuary 1, 2022	E Ja	ffective anuary 1, 2023
28 29	Resort and Bear Creek Twp Rates = 1.5 x City (per contract) Billing Charge, per Month		E Ja \$	Effective anuary 1, 2014 3.24	E Ja \$	ffective nuary 1, 2019 3.71	E Ja \$	ffective inuary 1, 2020 3.81	E Ja \$	ffective anuary 1, 2021 3.93	E Ja \$	ffective nuary 1, 2022 4.05	E Ja \$	ffective anuary 1, 2023 4.17
28 29 30	Resort and Bear Creek Twp Rates = 1.5 x City (per contract) Billing Charge, per Month Lawn Meter Billing Charge, Twice per Year		E Ja	Effective anuary 1, 2014	E Ja	ffective nuary 1, 2019	E Ja	ffective inuary 1, 2020	E Ja	ffective anuary 1, 2021	E Ja	ffective nuary 1, 2022	E Ja	ffective anuary 1, 2023
28 29 30	Resort and Bear Creek Twp Rates = 1.5 x City (per contract) Billing Charge, per Month	5/8"	E Ja \$	Effective anuary 1, 2014 3.24	E Ja \$	ffective nuary 1, 2019 3.71	E Ja \$	ffective inuary 1, 2020 3.81	E Ja \$	ffective anuary 1, 2021 3.93	E Ja \$	ffective nuary 1, 2022 4.05	E Ja \$	ffective anuary 1, 2023 4.17
28 29 30 31 32 33	Resort and Bear Creek Twp Rates = 1.5 x City (per contract) Billing Charge, per Month Lawn Meter Billing Charge, Twice per Year	3/4"	5 5 5 5	Effective anuary 1, 2014 3.24 4.50 27.00 40.50	E Ja \$ \$ \$	ffective nuary 1, 2019 3.71 3.71 20.85 31.28	S S S S	ffective inuary 1, 2020 3.81 3.81 21.20 31.80	Ja S S S S	ffective anuary 1, 2021 3.93 3.93 21.56 32.34	Ja S S S	ffective inuary 1, 2022 4.05 4.05 21.96 32.94	Ja S S S S	ffective anuary 1, 2023 4.17 4.17 22.40 33.60
28 29 30 31 32 33 34	Resort and Bear Creek Twp Rates = 1.5 x City (per contract) Billing Charge, per Month Lawn Meter Billing Charge, Twice per Year Readiness to Serve Charge, per Meter Size, per Month	3/4'' 1''	E Ja \$ \$ \$ \$ \$	Effective anuary 1, 2014 3.24 4.50 27.00 40.50 67.50	E Ja \$ \$ \$ \$ \$	ffective nuary 1, 2019 3.71 3.71 20.85 31.28 52.13	5 5 5 5 5 5 5	ffective inuary 1, 2020 3.81 3.81 21.20 31.80 53.00	Ja S S S S S S S	ffective anuary 1, 2021 3.93 3.93 21.56 32.34 53.90	Ja S S S S S S	ffective nuary 1, 2022 4.05 4.05 21.96 32.94 54.90	Ja S S S S S S S S	ffective anuary 1, 2023 4.17 4.17 22.40 33.60 56.00
28 29 30 31 32 33 34 35	Resort and Bear Creek Twp Rates = 1.5 x City (per contract) Billing Charge, per Month Lawn Meter Billing Charge, Twice per Year Readiness to Serve Charge, per Meter Size, per Month	3/4'' 1'' 1 1/2''	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Effective anuary 1, 2014 3.24 4.50 27.00 40.50 67.50 135.00	E Ja \$ \$ \$ \$ \$ \$ \$ \$ \$	ffective nuary 1, 2019 3.71 3.71 20.85 31.28 52.13 104.25	E Ja \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	iffective inuary 1, 2020 3.81 3.81 21.20 31.80 53.00 106.00	L Ja S S S S S S S S S S S	ffective anuary 1, 2021 3.93 3.93 21.56 32.34 53.90 107.80	S S S S S S S S S S S S S S S S S S S	ffective nuary 1, 2022 4.05 4.05 21.96 32.94 54.90 109.80	Ja S S S S S S S S S S S	ffective anuary 1, 2023 4.17 4.17 22.40 33.60 56.00 112.00
28 29 30 31 32 33 34 35 36	Resort and Bear Creek Twp Rates = 1.5 x City (per contract) Billing Charge, per Month Lawn Meter Billing Charge, Twice per Year Readiness to Serve Charge, per Meter Size, per Month	3/4'' 1''	E Ja \$ \$ \$ \$ \$ \$ \$ \$ \$	Effective anuary 1, 2014 3.24 4.50 27.00 40.50 67.50 135.00 216.00	E Ja \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	ffective nuary 1, 2019 3.71 3.71 20.85 31.28 52.13 104.25 166.80	5 5 5 5 5 5 5	ffective inuary 1, 2020 3.81 3.81 21.20 31.80 53.00	Ja S S S S S S S	ffective anuary 1, 2021 3.93 3.93 21.56 32.34 53.90	Ja S S S S S S	ffective nuary 1, 2022 4.05 4.05 21.96 32.94 54.90	Ja S S S S S S S S	ffective anuary 1, 2023 4.17 4.17 22.40 33.60 56.00
28 29 30 31 32 33 34 35 36 37 38	Resort and Bear Creek Twp Rates = 1.5 x City (per contract) Billing Charge, per Month Lawn Meter Billing Charge, Twice per Year Readiness to Serve Charge, per Meter Size, per Month	3/4" 1" 1 1/2" 2" 3" 4"	E Ja \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Effective anuary 1, 2014 3.24 4.50 27.00 40.50 67.50 135.00	E Ja \$ \$ \$ \$ \$ \$ \$ \$ \$	ffective nuary 1, 2019 3.71 3.71 20.85 31.28 52.13 104.25	E Ja \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	anuary 1, 2020 3.81 3.81 21.20 31.80 53.00 106.00 169.60	La SSS SSS SSS SSS SSS SSS SSS SSS SSS S	iffective anuary 1, 2021 3.93 3.93 21.56 32.34 53.90 107.80 172.48 377.30 646.80	E Ja S S S S S S S S S S S S S S S S	ffective nuary 1, 2022 4.05 4.05 21.96 32.94 54.90 109.80 175.68 384.30 658.80	E Ja \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	ffective anuary 1, 2023 4.17 4.17 22.40 33.60 56.00 112.00 179.20 392.00 672.00
28 29 30 31 32 33 34 35 36 37 38 39	Resort and Bear Creek Twp Rates = 1.5 x City (per contract) Billing Charge, per Month Lawn Meter Billing Charge, Twice per Year Readiness to Serve Charge, per Meter Size, per Month	3/4" 1" 1 1/2" 2" 3"	E Ja \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Effective anuary 1, 2014 3.24 4.50 27.00 40.50 67.50 135.00 216.00 472.50 810.00 1,687.50	E Ja \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	ffective nuary 1, 2019 3.71 3.71 20.85 31.28 52.13 104.25 166.80 364.88 625.50 1,303.13	E Ja \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	iffective inuary 1, 2020 3.81 21.20 31.80 53.00 106.00 169.60 371.00 636.00 1,325.00	E Ja s s s s s s s s s s s	iffective anuary 1, 2021 3.93 3.93 21.56 32.34 53.90 107.80 177.48 377.30 646.80 1,347.50	E Ja \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	ffective muary 1, 2022 4.05 4.05 21.96 32.94 54.90 109.80 175.68 384.30 658.80 1,372.50	E Ja \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Effective anuary 1, 2023 4.17 4.17 22.40 33.60 56.00 112.00 179.20 392.00 672.00 1,400.00
28 29 30 31 32 33 34 35 36 37 38 39 40	Resort and Bear Creek Twp Rates = 1.5 x City (per contract) Billing Charge, per Month Lawn Meter Billing Charge, Twice per Year Readiness to Serve Charge, per Meter Size, per Month Commodity Charge, per 100 Cubic Feet	3/4" 1" 1 1/2" 2" 3" 4"	E Ja \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Effective anuary 1, 2014 3.24 4.50 27.00 67.50 135.00 216.00 472.50 810.00 1,687.50 2.18	E Ja \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	ffective nuary 1, 2019 3.71 3.71 20.85 31.28 52.13 104.25 166.80 364.88 625.50	E Ja \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	iffective inuary 1, 2020 3.81 3.81 21.20 31.80 53.00 106.00 169.60 371.00 636.00 1,325.00 2.87	E Ja S S S S S S S S S S S S S S S S S S S	iffective inuary 1, 2021 3.93 3.93 21.56 32.34 53.90 107.80 172.48 377.30 646.80 1,347.50 2.97	E Ja \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	ffective nuary 1, 2022 4.05 4.05 21.96 32.94 54.90 109.80 175.68 384.30 658.80 1,372.50 3.08	E Ja \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	ffective anuary 1, 2023 4.17 4.17 22.40 33.60 56.00 112.00 179.20 392.00 672.00
28 29 30 31 32 33 34 35 36 37 38 39 40	Resort and Bear Creek Twp Rates = 1.5 x City (per contract) Billing Charge, per Month Lawn Meter Billing Charge, Twice per Year Readiness to Serve Charge, per Meter Size, per Month	3/4" 1" 1 1/2" 2" 3" 4"	E Ja \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Effective anuary 1, 2014 3.24 4.50 27.00 40.50 67.50 135.00 216.00 472.50 810.00 1,687.50 2.18 Current	E Ja \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	ffective nuary 1, 2019 3.71 3.71 20.85 31.28 52.13 104.25 166.80 364.88 625.50 1,303.13 2.78	E Ja \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	iffective inuary 1, 2020 3.81 3.81 21.20 31.80 53.00 106.00 106.00 169.60 371.00 636.00 1,325.00 1,325.00 2.7 Max	E Ja S S S S S S S S S S S S S S S S S S S	iffective inuary 1, 2021 3.93 3.93 21.56 32.34 53.90 107.80 172.48 377.30 646.80 1.347.50 2.97 m Calcula	E Ja S S S S S S S S S S S S S S S S S S	ffective nuary 1, 2022 4.05 4.05 21.96 32.94 54.90 109.80 175.68 384.30 658.80 1,372.50 3.08	E Ja \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Effective anuary 1, 2023 4.17 4.17 22.40 33.60 56.00 112.00 179.20 392.00 672.00 1,400.00 3.20
28 29 30 31 32 33 34 35 36 37 38 39 40	Resort and Bear Creek Twp Rates = 1.5 x City (per contract) Billing Charge, per Month Lawn Meter Billing Charge, Twice per Year Readiness to Serve Charge, per Meter Size, per Month Commodity Charge, per 100 Cubic Feet	3/4" 1" 1 1/2" 2" 3" 4"	E Ja \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Effective anuary 1, 2014 3.24 4.50 27.00 67.50 135.00 216.00 472.50 810.00 1,687.50 2.18	E Ja \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	ffective nuary 1, 2019 3.71 3.71 20.85 31.28 52.13 104.25 166.80 364.88 625.50 1,303.13	E Ja \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	iffective inuary 1, 2020 3.81 3.81 21.20 31.80 53.00 106.00 169.60 371.00 636.00 1,325.00 2.87	E Ja S S S S S S S S S S S S S S S S S S S	iffective inuary 1, 2021 3.93 3.93 21.56 32.34 53.90 107.80 172.48 377.30 646.80 1,347.50 2.97	E Ja S S S S S S S S S S S S S S S S S S	ffective nuary 1, 2022 4.05 4.05 21.96 32.94 54.90 109.80 175.68 384.30 658.80 1,372.50 3.08	E Ja S S S S S S S S S S S S S S S S S S	Effective anuary 1, 2023 4.17 4.17 22.40 33.60 56.00 112.00 179.20 392.00 672.00 1,400.00
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42	Resort and Bear Creek Twp Rates = 1.5 x City (per contract) Billing Charge, per Month Lawn Meter Billing Charge, Twice per Year Readiness to Serve Charge, per Meter Size, per Month Commodity Charge, per 100 Cubic Feet	3/4" 1" 1 1/2" 2" 3" 4" 6"	E Ja \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	anuary 1, 2014 3.24 4.50 27.00 40.50 67.50 135.00 216.00 472.50 810.00 1,687.50 2.18 Current Effective anuary 1, 2011	E Ja \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	ffective nuary 1, 2019 3.71 3.71 20.85 52.13 104.25 166.80 364.88 625.50 1,303.13 2.78 ffective nuary 1, 2019	E S S S S S S S S S S S S S S S S S S	iffective nuary 1, 2020 3.81 21.20 31.80 53.00 106.00 169.60 371.00 636.00 1,325.00 2.87 Max iffective nuary 1, 2020	E Ja S S S S S S S S S S S S S S S S S S	Effective nuary 1, 2021 3.93 21.56 32.34 53.90 107.80 172.48 377.30 646.80 1,347.50 2.97 m Calcula iffective inuary 1, 2021	E Ja S S S S S S S S S S S S S S S S S S	ffective nuary 1, 2022 4.05 21.96 32.94 54.90 109.80 175.68 384.30 658.80 1,372.50 3.08 ffective nuary 1, 2022	E Ja S S S S S S S S S S S S S S S S S S	Effective anuary 1, 2023 4.17 22.40 33.60 56.00 112.00 179.20 392.00 672.00 1.400.00 3.20 Effective anuary 1, 2023
28 29 30 31 32 33 34 35 36 37 38 39 40 41 41 42 43	Resort and Bear Creek Twp Rates = 1.5 x City (per contract) Billing Charge, per Month Lawn Meter Billing Charge, Twice per Year Readiness to Serve Charge, per Meter Size, per Month Commodity Charge, per 100 Cubic Feet Water System Development Charge ("Capital" Charge)	3/4" 1" 1 1/2" 2" 3" 4" 6" 5/8"	E 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Effective anuary 1, 2014 3.24 4.50 27.00 67.50 135.00 216.00 472.50 810.00 1.687.50 2.18 Current Effective anuary 1, 2011 1,350	E Ja \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	ffective nuary 1, 2019 3.71 20.85 31.28 52.13 104.25 166.80 364.88 625.50 1,303.12, 2.78 ffective nuary 1, 2019 2,100	E S S S S S S S S S S S S S S S S S S S	iffective inuary 1, 2020 3.81 21.20 31.80 53.00 106.00 169.60 371.00 636.00 1.325.00 2.87 Max iffective inuary 1, 2020 2,100	E Ja S S S S S S S S S S S S S S S S S S	Effective nuary 1, 2021 3.93 21.56 32.34 53.90 107.80 172.48 377.30 646.80 1,347.50 2.97 m Calcula ffective anuary 1, 2021 2,100	E Ja S S S S S S S S S S S S S S S S S S	ffective nuary 1, 2022 4.05 4.05 21.96 32.94 54.90 109.80 175.68 384.30 658.80 1,372.50 3.08 ffective nuary 1, 2022 2,100	E Ja S S S S S S S S S S S S S S S S S S	Effective anuary 1, 2023 4.17 4.17 22.40 33.60 56.00 112.00 179.20 392.00 672.00 1.400.00 3.20 Effective anuary 1, 2023 2,100
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44	Resort and Bear Creek Twp Rates = 1.5 x City (per contract) Billing Charge, per Month Lawn Meter Billing Charge, Twice per Year Readiness to Serve Charge, per Meter Size, per Month Commodity Charge, per 100 Cubic Feet Water System Development Charge ("Capital" Charge)	3/4" 1" 1 1/2" 2" 3" 4" 6" 5/8" 3/4"	E \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Effective anuary 1, 2014 3.24 4.50 27.00 40.50 67.50 135.00 216.00 472.50 810.00 1,687.50 2.18 Current Effective anuary 1, 2011 1,350 2,025	E Ja \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	ffective nuary 1, 2019 3,71 3.71 20.85 31.28 52.13 104.25 166.80 364.88 625.50 1,303.13 2.78 ffective nuary 1, 2019 2,100 3,150	E 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	iffective inuary 1, 2020 3.81 3.81 21.20 31.80 53.00 106.00 169.60 371.00 636.00 1.325.00 2.87 Max iffective inuary 1, 2020 2,100 3,150	E Ja S S S S S S S S S S S S S S S S S S S	Strength Strength 1 3.93 3.93 3.93 21.56 32.34 53.90 107.80 107.80 377.30 646.80 1.347.50 2.97 mCalcula iffective anuary 1, 2021 2.100 3.150	E Ja S S S S S S S S S S S S S S S S S S	ffective nuary 1, 2022 4.05 4.05 21.96 32.94 54.90 109.80 175.68 384.30 658.80 1,372.50 3.08 ffective nuary 1, 2022 2,100 3,150	E Ja S S S S S S S S S S S S S S S S S S	Effective anuary 1, 2023 4.17 4.17 22.40 33.60 56.00 112.00 179.20 392.00 672.00 1.400.00 3.20 Effective anuary 1, 2023 2,100 3,150
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45	Resort and Bear Creek Twp Rates = 1.5 x City (per contract) Billing Charge, per Month Lawn Meter Billing Charge, Twice per Year Readiness to Serve Charge, per Meter Size, per Month Commodity Charge, per 100 Cubic Feet Water System Development Charge ("Capital" Charge) Water Service Meter Size:	3/4" 1" 1 1/2" 2" 3" 4" 6" 5/8" 3/4"	E 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Effective anuary 1, 2014 3.24 4.50 27.00 40.50 67.50 135.00 216.00 472.50 810.00 1,687.50 2.18 Current Effective anuary 1, 2011 1,350 2,025 3,375	E Ja \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	ffective nuary 1, 2019 3,71 3,71 20.85 31.28 52.13 104.25 166.80 364.88 625.50 1,303.13 2.78 ffective nuary 1, 2019 2,100 3,150 5,250	E \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	iffective nuary 1, 2020 3.81 21.20 31.80 53.00 106.00 169.60 371.00 636.00 1.325.00 2.87 Max iffective nuary 1, 2020 2,100 3,150 5,250	E S S S S S S S S S S S S S S S S S S S	Effective nuary 1, 2021 3.933 21.566 32.34 53.90 107.80 172.48 377.30 646.80 1.347.50 2.97 m Calculatification iffective anuary 1, 2021 2,100 3,150 5,250	E Ja S S S S S S S S S S S S S S S S S S	ffective nuary 1, 2022 4.05 4.05 21.96 32.94 54.90 109.80 175.68 384.30 658.80 1,372.50 3.08 ffective nuary 1, 2022 2.100 3.150 5,250	E S S S S S S S S S S S S S S S S S S S	Effective anuary 1, 2023 4.17 4.17 22.40 33.60 56.00 112.00 179.20 392.00 672.00 1.400.00 3.20 Effective anuary 1, 223 2.100 3.150 5.250
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44	Resort and Bear Creek Twp Rates = 1.5 x City (per contract) Billing Charge, per Month Lawn Meter Billing Charge, Twice per Year Readiness to Serve Charge, per Meter Size, per Month Commodity Charge, per 100 Cubic Feet Water System Development Charge ("Capital" Charge) Water Service Meter Size:	3/4" 1" 1 1/2" 2" 3" 4" 6" 5/8" 3/4"	E \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Effective anuary 1, 2014 3.24 4.50 27.00 40.50 67.50 135.00 216.00 472.50 810.00 1,687.50 2.18 Current Effective anuary 1, 2011 1,350 2,025	E Ja \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	ffective nuary 1, 2019 3.71 3.71 20.85 31.28 52.13 104.25 166.80 364.88 625.50 1,303.13 2.78 ffective nuary 1, 2019 2,100 3,150 5,250 10,500	E 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	iffective inuary 1, 2020 3.81 3.81 21.20 31.80 53.00 106.00 169.60 371.00 636.00 1.325.00 2.87 Max iffective inuary 1, 2020 2,100 3,150	E Ja S S S S S S S S S S S S S S S S S S S	Strength Strength 1 3.93 3.93 3.93 21.56 32.34 53.90 107.80 107.80 377.30 646.80 1.347.50 2.97 mCalcula iffective anuary 1, 2021 2.100 3.150	E Ja S S S S S S S S S S S S S S S S S S	ffective nuary 1, 2022 4.05 4.05 21.96 32.94 54.90 109.80 175.68 384.30 658.80 1,372.50 3.08 ffective nuary 1, 2022 2,100 3,150	E Ja S S S S S S S S S S S S S S S S S S	Effective anuary 1, 2023 4.17 4.17 22.40 33.60 56.00 112.00 392.00 672.00 1.400.00 3.20 Effective anuary 1, 2023 2.100 3.150
28 29 30 31 32 33 34 35 36 37 8 39 40 41 42 43 44 45 46 47 48 47 48	Resort and Bear Creek Twp Rates = 1.5 x City (per contract) Billing Charge, per Month Lawn Meter Billing Charge, Twice per Year Readiness to Serve Charge, per Meter Size, per Month Commodity Charge, per 100 Cubic Feet Water System Development Charge ("Capital" Charge) Water Service Meter Size:	3/4" 1" 1 1/2" 2" 3" 4" 6" 5/8" 3/4" 1" 1 1/2" 2" 3"	E Ja \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Effective anuary 1, 2014 3.24 4.50 27.00 40.50 67.50 135.00 216.00 472.50 810.00 1,687.50 2.18 Current Effective anuary 1, 2011 1,350 2,025 3,375 6,750 10,800 23,625	E Ja \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	ffective nuary 1, 2019 3,71 3,71 20.85 31.28 52.13 104.25 166.80 364.88 625.50 1,303.13 2.78 ffective nuary 1, 2019 2,100 3,150 5,250	E S S S S S S S S S S S S S S S S S S S	iffective inuary 1, 2020 3.81 3.81 21.20 31.80 53.00 106.00 169.60 371.00 636.00 1,325.00 2.87 Max iffective inuary 1, 2020 2,100 3.150 5.250 10,500		iffective nuary 1, 2021 3.93 21.56 32.34 53.90 107.80 172.48 377.30 646.80 1.347.50 2.97 mCalcula iffective nuary 1, 2021 2.100 3.150 5.250 10,500 16,800 36,750	E Ja S S S S S S S S S S S S S S S S S S	ffective nuary 1, 2022 4.05 4.05 21.96 32.94 54.90 109.80 175.68 384.30 658.80 1,372.50 3.08 ffective nuary 1, 2022 2,100 3,150 5,250 10,500 16,800 36,750	E S S S S S S S S S S S S S S S S S S S	Effective anuary 1, 2023 4.17 4.17 22.40 33.60 56.00 112.00 179.20 392.00 672.00 1.400.03.200 672.00 3.200 Steers 2.100 3.150 5.250 10,500 16,800 36,750
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 6 47 48 49	Resort and Bear Creek Twp Rates = 1.5 x City (per contract) Billing Charge, per Month Lawn Meter Billing Charge, Twice per Year Readiness to Serve Charge, per Meter Size, per Month Commodity Charge, per 100 Cubic Feet Water System Development Charge ("Capital" Charge) Water Service Meter Size:	3/4" 1" 1" 2" 3" 4" 6" 5/8" 3/4" 1" 1 1/2" 2" 3/4" 1 1/2" 3" 4" 4" 4" 4" 4" 4" 4" 4" 4" 4	E Ja \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Effective anuary 1, 2014 3.24 4.50 27.00 40.50 67.50 135.00 216.00 472.50 810.00 1,687.50 2.18 Current Effective anuary 1, 2011 1,350 2,025 3,375 6,750 10,800 23,625 40,500	E Ja \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	ffective nuary 1, 2019 3,71 3,71 20.85 31.28 52.13 104.25 166.80 364.88 625.50 1,303.13 2.78 ffective nuary 1, 2010 3,150 5,250 10,500 16,800 36,750 63,000	E Ja \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	iffective inuary 1, 2020 3.81 3.81 21.20 31.80 53.00 106.00 169.60 371.00 636.00 1.325.00 2.87 Max iffective inuary 1, 2020 2.100 5.250 10,500 16,800 36.750 63,000		Effective nuary 1, 2021 3.93 21.56 32.34 53.90 107.80 172.48 377.30 646.80 1.347.50 2.97 m Calculatification iffective inuary 1, 2021 2,100 3,150 5,250 10,500 16,800 36,750 63,000	E Ja S S S S S S S S S S S S S S S S S S	ffective nuary 1, 2022 4.05 4.05 21.96 32.94 54.90 109.80 175.68 384.30 658.80 1,372.50 3.08 ffective nuary 1, 2022 2.100 3.150 5.250 10,500 16,800 36,750 63,000	E Ja S S S S S S S S S S S S S S S S S S	Effective anuary 1, 2023 4.17 4.17 22.40 33.60 56.00 112.00 179.20 392.00 672.00 1.400.00 3.20 enuary 1, 223 2.100 3.5250 10,500 16,800 36,750 63,000
28 29 30 31 32 33 34 55 37 38 39 40 41 42 43 44 45 64 47 48 49 50	Resort and Bear Creek Twp Rates = 1.5 x City (per contract) Billing Charge, per Month Lawn Meter Billing Charge, Twice per Year Readiness to Serve Charge, per Meter Size, per Month Commodity Charge, per 100 Cubic Feet Water System Development Charge ("Capital" Charge) Water Service Meter Size:	3/4" 1" 1" 2" 3" 4" 6" 5/8" 3/4" 1" 1 1/2" 2" 3/4" 1 1/2" 3" 4" 4" 4" 4" 4" 4" 4" 4" 4" 4	E Ja \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Effective anuary 1, 2014 3.24 4.50 27.00 40.50 67.50 135.00 216.00 472.50 810.00 1,687.50 2.18 Current Effective anuary 1, 2011 1,350 2,025 3,375 6,750 10,800 23,625	E Ja \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	ffective nuary 1, 2019 3.71 20.85 31.28 52.13 104.25 166.80 364.88 625.50 1,300.13 2.78 ffective nuary 1, 2019 2,100 3,150 5,250 10,500 36,750	E Ja 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	iffective inuary 1, 2020 3.81 3.81 21.20 31.80 53.00 106.00 169.60 371.00 636.00 1.325.00 2.87 Max iffective inuary 1, 2020 2.100 3.150 5.250 10,500 16.800 36,750		iffective nuary 1, 2021 3.93 21.56 32.34 53.90 107.80 172.48 377.30 646.80 1.347.50 2.97 mCalcula iffective nuary 1, 2021 2.100 3.150 5.250 10,500 16,800 36,750	E Ja S S S S S S S S S S S S S S S S S S	ffective nuary 1, 2022 4.05 4.05 21.96 32.94 54.90 109.80 175.68 384.30 658.80 1,372.50 3.08 ffective nuary 1, 2022 2,100 3,150 5,250 10,500 16,800 36,750	E S S S S S S S S S S S S S S S S S S S	Effective anuary 1, 2023 4.17 22.40 33.60 56.00 112.00 179.20 392.00 672.00 1.400.03.200 672.00 3.200 Steel 2.100 3.150 5.250 10,500 16,800 36,750
28 29 30 31 32 34 35 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51	Resort and Bear Creek Twp Rates = 1.5 x City (per contract) Billing Charge, per Month Lawn Meter Billing Charge, Twice per Year Readiness to Serve Charge, per Meter Size, per Month Commodity Charge, per 100 Cubic Feet Water System Development Charge ("Capital" Charge) Water Service Meter Size: Bay View rates = 1.25 x City (per contract)	3/4" 1" 1" 2" 3" 4" 6" 5/8" 3/4" 1" 1 1/2" 2" 3/4" 1 1/2" 3" 4" 4" 4" 4" 4" 4" 4" 4" 4" 4	E Ja \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Effective anuary 1, 2014 3.24 4.50 27.00 40.50 67.50 135.00 216.00 472.50 810.00 1,687.50 2.18 Current Effective anuary 1, 2011 1,350 2,025 3,375 6,750 10,800 23,625 40,500	E Ja \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	ffective nuary 1, 2019 3,71 3,71 20.85 31.28 52.13 104.25 166.80 364.88 625.50 1,303.13 2.78 ffective nuary 1, 2010 3,150 5,250 10,500 16,800 36,750 63,000	E Ja \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	iffective inuary 1, 2020 3.81 3.81 21.20 31.80 53.00 106.00 169.60 371.00 636.00 1.325.00 2.87 Max iffective inuary 1, 2020 2.100 5.250 10,500 16,800 36.750 63,000		Effective nuary 1, 2021 3.93 21.56 32.34 53.90 107.80 172.48 377.30 646.80 1.347.50 2.97 m Calculatification iffective inuary 1, 2021 2,100 3,150 5,250 10,500 16,800 36,750 63,000	E Ja S S S S S S S S S S S S S S S S S S	ffective nuary 1, 2022 4.05 4.05 21.96 32.94 54.90 109.80 175.68 384.30 658.80 1,372.50 3.08 ffective nuary 1, 2022 2.100 3.150 5.250 10,500 16,800 36,750 63,000	E Ja S S S S S S S S S S S S S S S S S S	Effective anuary 1, 2023 4.17 4.17 22.40 33.60 56.00 112.00 179.20 392.00 672.00 1.400.00 3.20 enuary 1, 223 2.100 3.5250 10,500 16,800 36,750 63,000
28 29 30 31 32 34 35 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 52 52	Resort and Bear Creek Twp Rates = 1.5 x City (per contract) Billing Charge, per Month Lawn Meter Billing Charge, Twice per Year Readiness to Serve Charge, per Meter Size, per Month Commodity Charge, per 100 Cubic Feet Water System Development Charge ("Capital" Charge) Water Service Meter Size: Bay View rates = 1.25 x City (per contract) Readiness to Serve Charge, per Meter Size, per Month	3/4" 1" 1" 2" 3" 4" 6" 5/8" 3/4" 1" 1 1/2" 2" 3/4" 1 1/2" 3" 4" 4" 4" 4" 4" 4" 4" 4" 4" 4	E J \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Effective anuary 1, 2014 3.24 4.50 27.00 40.50 135.00 216.00 472.50 810.00 1,687.50 2.18 Current Effective anuary 1, 2012 3,375 6,750 10,800 23,625 40,500 84,375	E Ja \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	ffective nuary 1, 2019 3.71 3.71 20.85 31.28 52.13 104.25 166.80 364.88 625.50 1,303.13 2.78 ffective nuary 1, 2019 2,100 3,150 5,250 10,500 10,500 16,800 36,750 63,000 131,250	E 3 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	iffective inuary 1, 2020 3.81 3.81 21.20 31.80 53.00 106.00 169.60 371.00 636.00 1,325.00 1,325.00 2.87 Max iffective inuary 1, 2020 2,100 3,150 5,250 10,500 16,800 36,750 63,000 131,250		iffective nuary 1, 2021 3.93 21.56 32.34 53.90 107.80 172.48 377.30 646.80 1,347.50 2.97 m Calcula iffective nuary 1, 2,100 3,150 5,250 10,500 16,800 36,750 63,000 131,250	E Ja S S S S S S S S S S S S S S S S S S	ffective nuary 1, 2022 4.05 4.05 21.96 32.94 54.90 109.80 175.68 384.30 658.80 1.372.50 3.08 ffective nuary 1, 2022 2.100 3.150 5.250 10,500 16,800 36,750 63,000 131,250	E Ja S S S S S S S S S S S S S S S S S S	Effective anuary 1, 2023 4.17 22.40 33.60 56.00 112.00 179.20 392.00 672.00 1.400.00 3.20 Effective anuary 1, 2023 2.100 3.150 5.250 10,500 16,800 31,250
28 29 30 31 32 34 32 34 35 33 34 35 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 50 51 52 53 53	Resort and Bear Creek Twp Rates = 1.5 x City (per contract) Billing Charge, per Month Lawn Meter Billing Charge, Twice per Year Readiness to Serve Charge, per Meter Size, per Month Commodity Charge, per 100 Cubic Feet Water System Development Charge ("Capital" Charge) Water Service Meter Size: Bay View rates = 1.25 x City (per contract)	3/4" 1" 1" 2" 3" 4" 6" 5/8" 3/4" 1" 1 1/2" 2" 3/4" 1 1/2" 3" 4" 4" 4" 4" 4" 4" 4" 4" 4" 4	E Ja \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Effective anuary 1, 2014 3.24 4.50 27.00 40.50 67.50 135.00 216.00 472.50 810.00 1,687.50 2.18 Current Effective anuary 1, 2011 1,350 2,025 3,375 6,750 10,800 23,625 40,500	E Ja \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	ffective nuary 1, 2019 3,71 3,71 20.85 31.28 52.13 104.25 166.80 364.88 625.50 1,303.13 2.78 ffective nuary 1, 2010 3,150 5,250 10,500 16,800 36,750 63,000	E 3 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	iffective inuary 1, 2020 3.81 3.81 21.20 31.80 53.00 106.00 169.60 371.00 636.00 1.325.00 2.87 Max iffective inuary 1, 2020 2.100 5.250 10,500 16,800 36.750 63,000		Effective nuary 1, 2021 3.93 21.56 32.34 53.90 107.80 172.48 377.30 646.80 1.347.50 2.97 m Calculatification iffective inuary 1, 2021 2,100 3,150 5,250 10,500 16,800 36,750 63,000	E Ja S S S S S S S S S S S S S S S S S S S	ffective nuary 1, 2022 4.05 4.05 21.96 32.94 54.90 109.80 175.68 384.30 658.80 1,372.50 3.08 ffective nuary 1, 2022 2.100 3.150 5.250 10,500 16,800 36,750 63,000	E S S S S S S S S S S S S S S S S S S S	Effective anuary 1, 2023 4.17 4.17 22.40 33.60 56.00 112.00 79.20 392.00 672.00 1.400.00 3.20 Effective anuary 1, 223 2.100 3.150 5.250 10.500 66,800 36,750

_	В	С	D	E	F	G		Н		<u> </u>
			Number of		Current Equivalent Annual Billing Units	Billing Units for Lawn				
		PROJECTED	Meters Used		for Meters Used for	Meters				
		BILLINGS	for Billing	Number of	Water and Sewer	(Billing			Proje	cted Fy
1			for Water	Meters Used	Billing (Billing	Charge	FY 2	018		Water
		USING	and Sewer	for Billing for	Charge and RTS	Based on	Wate	er Rates	Billir	ngs
		CURRENT	Service	Lawn Service	Charge Based on 12		Effec		Usin	
	01	RATES	(Active	(Active	Meter Readings per	Readings per		iary 1,		Water
1	Class	KATES	Customers)	Customers)	Year)	Year)	2014		Rate	8
2	INSIDE-CITY	Billing Charges						_		
4	INGIDE-OITT	Billing Charges			3,000		\$	2.16	\$	77,76
		Lawn Billing Charges				242	s	2.00	\$	4 07
5	······································	Billing Charges, Total				212	3	3.00	₽	1,27:
6	OUTSIDE-CITY	Inside-City			3,000	212			\$	79,03
8	OUTSIDE-CITT	Billing Charges			375		\$	3.24	\$	14,58
9		Lawn Billing Charges				11	s	4.50	\$	99
-	······································	Billing Charges, Total					\$	4.50		
10		Outside-City Billing Charges, Total			375	11			\$	14,679
		Inside and Outside-								
11 12		City							\$	93,711
12		Readiness to Serve	Active							
		Charge Billings, by	Meters as of							
<u>13</u> 14	INSIDE-CITY	Meter Size	May, 2018							
15	Water/Inside/Residential	5/8"	2,313			ļ	\$	18.00	\$	499,60
	Water/Inside/Residential Water/Inside/Residential		39				\$ \$	27.00	<u>\$</u> \$	12,63
18	Water/Inside/Residential	1 1/2"	29				\$	90.00	\$	31,32
	Water/Inside/Residential	2"	2				\$	144.00	\$	3,45
	Water/Inside/Residential Water/Inside/Residential	3"	0				<u>\$</u> \$	315.00 540.00		
	Water/Inside/Residential	6"	Ō					1,125.00		
		Residential								
		Readiness to Serve								
23		Charge Billings, Total	2,521					40.00	\$	621,540
	Water/Inside/Commercial	<u> </u>	267				\$	18.00	\$ \$	57,672 5,184
	Water/Inside/Commercial	1"	41				\$	45.00		22,14
	Water/Inside/Commercial	1 1/2"	14				\$	90.00		15,12
	Water/Inside/Commercial Water/Inside/Commercial	<u>2"</u> 3"	23				\$ \$	<u>144.00</u> 315.00	\$ \$	39,74 3,78
	Water/Inside/Commercial						ŝ	540.00	\$	25,92
	Water/Inside/Commercial	6*	0				\$	1,125.00	\$	
		Commercial								
		Readiness to Serve]				400 50
32	Water/Inside/Industrial	Charge Billings, Total 5/8"	366			<u> </u>	\$	18.00	\$\$	169,56 2,16
	Water/Inside/Industrial	3/4"					5	27.00	\$	
	Water/Inside/Industrial	1"					\$	45.00		4.00
	Water/Inside/Industrial Water/Inside/Industrial	1 1/2"					<u>\$</u> \$	90.00 144.00		1,08
	Water/Inside/Industrial						Š	315.00		
39	Water/Inside/Industrial	4"	0				\$	540.00		
40	Water/Inside/Industrial	6" Industrial Readiness	0	1			\$	1,125.00	 ≸_	
		to Serve Charge								_
41	Water/Inside/Non-Profit	Billings, Total 5/8"	11 48				\$	18.00	\$ \$	3,24
	Water/Inside/Non-Profit	3/4"					\$	27.00	\$	1,94
44	Water/Inside/Non-Profit	1"	22				\$	45.00		11,88
	Water/Inside/Non-Profit Water/Inside/Non-Profit	1 1/2"				<u> </u>	\$ \$	90.00		<u>5,40</u> 29,37
	Water/Inside/Non-Profit Water/Inside/Non-Profit	3"				<u> </u>	\$	315.00		7,56
48	Water/Inside/Non-Profit	4"	2				\$	540.00	\$	12,96
49	Water/Inside/Non-Profit	6*	C			<u> </u>	\$	1,125.00	\$	
		Non-Profit Readiness							1	
50		to Serve Charge Billings, Total	102						s	79,48
	· · · · ·	Water provided thru a	1	1		 	\mathbf{T}		Ť	
	14/4 Day 1/5	6" and a 12" main.			l		1.	4 400 00		40.0-
51	WA Bay View 6"	RTS billed as 6* Bay View Readiness	·			<u> </u>	1	1,406.25	\$	16,87
		to Serve Charge								40.00
52	<u> </u>	Billings, Total Only billed commodity,	<u> 1</u>	·		<u>├</u>	-		\$	16,87
	Second Water	not a billing or RTS								
	Meter/Inside/Residential	charge	<u> </u>	158	l		_			
		Second Water Meter/Inside/Resident								
54		ial P	toskey Wate	Rate Study					1	2/2018
702		Only billed for Commodity, and 2	Tetra Tech S	martRate			1		^{יש} ין	212010
	Second Water	billing charges per							1	
	Meter/Inside/Residential/Lawn	year, no RTS charge		169	1				1	

	В	C Second Mater	D	E	F	G		Н		- 1
		Second Water Meter/Inside/Resident					1			
56		ial/Lawn		169					ļ	
		Only billed commodity,								
	Second Water Meter/Inside/Commercial	not a billing or RTS charge		26			i		1	
Ť,	instantisida obtimordar	Second Water								
		Meter/Inside/Commer				1	i i		1	
58		cial Only billed for		26						
		Commodity, and 2								
_	Second Water	billing charges per							l l	
59	Meter/Inside/Commercial/Lawn	year, no RTS charge Second Water		26						
		Meter/Inside/Commer								
60		cial/Lawn		26			<u> </u>		┝	
	Second Water Meter/Inside/Non-	Only billed commodity, not a billing or RTS								
	Profit	charge		46						
		Second Water Meter/Inside/Non-								
62		Profit		46			ł			
		Only billed for								
	Second Water Meter/Inside/Non-	Commodity, and 2 billing charges per								
63	Profit/Lawn	year, no RTS charge		17						
		Second Water								
64		Meter/Inside/Non- Profit/Lawn		17						
04		FIGHULAWI								
		Only Billed Commodity							Í	
65	Second Water/Inside/5/8" (Garages)	(Not Billing or RTS) Second Water		19			<u> </u>		<u> </u>	
		Meter/Inside/5/8"							l l	
66		(Garages)		19						
		Readiness to Serve Charge Billings, Total							1	
67		Inside City							\$	873,82
68	OUTSIDE-CITY									
69	Water/Outside/Resort & Bear Creek Twps/Residential	5/8"	246				s	27.00	s	79,70
03	Water/Outside/Resort & Bear Creek		240		_			27.00	<u> </u>	10,70
70	Twps/Residential	3/4"	3			ļ	\$	40.50	\$	1,45
71	Water/Outside/Resort & Bear Creek Twps/Residential	1"	13				s	67.50	s	10,53
~	Water/Outside/Resort & Bear Creek	l					ا	07.00	Ť	10,00
	Twps/Residential	1 1/2"	3				\$	135.00	\$	4,86
	Water/Outside/Resort & Bear Creek Twps/Residential	2"	21				s	216.00	s	54,43
/3	Water/Outside/Resort & Bear Creek	· · ·	<u> </u>				۴	210.00	l – –	
	Twps/Residential	3"	0				\$	472.50	\$	
	Water/Outside/Resort & Bear Creek Twps/Residential	4"	0			1	s	810.00	\$	
1.	Water/Outside/Resort & Bear Creek		· · · · · ·				1		—	
76	Twps/Residential	6"	0				\$	1,687.50	\$	
		Resort & Bear Creek							ĺ	
		Twps Residential					!		l	
77		Readiness to Serve	200				1			450.09
77	Water/Outside/Resort & Bear Creek	Charge Billings, Total	286			+	<u> </u>		5	150,98
	Twps/Commercial	5/8"	13				\$	27.00	\$	4,21
	Water/Outside/Resort & Bear Creek Twps/Commercial	3/4"	-				s	40 50		3 40
19	Water/Outside/Resort & Bear Creek	3/4"	7			1	╞	40.50	\$	3,40
80	Twps/Commercial	1"	17				\$	67.50	\$	13,77
" 1	Water/Outside/Resort & Bear Creek Twps/Commercial	1 1/2"					\$	125.00		44.50
	Water/Outside/Resort & Bear Creek	1 1/2"	9			1	╞╴	135.00	\$	14,58
82	Twps/Commercial	2"	31				\$	216.00	\$	80,35
	Water/Outside/Resort & Bear Creek Twps/Commercial	3"	1				s	473 50		E 07
	Water/Outside/Resort & Bear Creek	3"	<u> '</u>	<u> </u>		<u> </u>	╞	472.50	\$	5,67
	Twps/Commercial	4"	0				\$	810.00	\$	
85	Water/Outside/Resort & Bear Creek Twps/Commercial	6"	0					1,687.50	s	
55	- mpor commol cidi		'				⊢	1,001.30	۱°	
		Resort & Bear Creek							1	
		Twps Commercial Readiness to Serve							1	
86		Charge Billings, Total	78			1			\$	121,98
	Water/Outside/Resort & Bear Creek						<u> </u>			
	Twps/Industrial Water/Outside/Resort & Bear Creek	5/8"	0				\$	27.00	\$	
88	Twps/Industrial	3/4"	0				\$	40.50	s	
	Water/Outside/Resort & Bear Creek									
69	Twps/Industrial Water/Outside/Resort & Bear Creek	1"	1			<u> </u>	\$	67.50	\$	81
[Twps/Industrial	1 1/2"					\$	135.00	\$	
				Data Study		1	r			
	Water/Outside/Resort & Bear Creek		toskey Water				1.	A 4 5 5 5 5	40/4	20040
କ୍ଷ	Water/Outside/Resort & Bear Creek Twps/Industrial Water/Outside/Resort & Bear Creek		toskey water Tetra Tech S		-	ļ	\$	216.00	18/1:	2/2018

Table W2 Projected FY 2019 Water Billings Using FY 2018 Water Rates and Projected FY 2019 Billing Units

-	B Water/Outside/Resort & Bear Creek	сС	D	E	F	G	н		
	Twps/Industrial	4"	0				\$ 810.00	s	
	Water/Outside/Resort & Bear Creek								-
94	Twps/Industrial	6"	0				\$ 1,687.50	\$	
		Resort & Bear Creek							
		Twps Industrial Readiness to Serve							
95		Charge Billings, Total	1					s	81
	Water/Outside/Resort & Bear Creek								
	Twps/Non-Profit Water/Outside/Resort & Bear Creek	5/8"	1				\$ 27.00	\$	32
97	Twps/Non-Profit	3/4"	2				\$ 40.50	\$	97
	Water/Outside/Resort & Bear Creek Twps/Non-Profit	1"	3				\$ 67.50	s 2	2,43
	Water/Outside/Resort & Bear Creek						1	- * *	2,40
	Twps/Non-Profit Water/Outside/Resort & Bear Creek	1 1/2"	1				\$ 135.00	\$ 1	1,62
100	Twps/Non-Profit	2"	3				\$ 216.00	\$ 7	7,77
	Water/Outside/Resort & Bear Creek Twps/Non-Profit	3"	0				\$ 472.50	s	
	Water/Outside/Resort & Bear Creek						<u> </u>	-	
	Twps/Non-Profit	4 [#]	0				\$ 810.00	\$	
	Water/Outside/Resort & Bear Creek Twps/Non-Profit	6"	0				\$ 1,687.50	s	
	• · · · · ·	Resort & Bear Creek							
		Twps Non-Profit							
		Readiness to Serve							
104	·	Charge Billings, Total Only billed commodity,	10					<u>\$ 13</u>	3,12
	Second Water/Outside/Resort &	not a billing or RTS							
105	Bear Creek Twps/Residential	charge Resort & Bear Creek		19					
		Twps Second							
106		Water/Residential	0	19	· · · · · · · · · · · · · · · · · · ·				
		Only billed for Commodity, and 2							
	Second Water/Outside/Resort &	billing charges per							
10/	Bear Creek Twps/Residential/Lawn	year, no RTS charge Resort & Bear Creek		6					
		Twps Second							
108		Water/Residential/La wn		6					
100		Only billed commodity,	-		· · - · · · · · · · · · · · · · · · · ·				
100	Second Water/Outside/Resort & Bear Creek Twps/Commercial	not a billing or RTS charge		26					
103	Dear Creek TwparCommercial	Resort & Bear Creek		20					
		Twps Second Water/Commercial		26					
110		Only billed for		20	, 				
		Commodity, and 2							
111	Second Water/Outside/Resort & Bear Creek Twps/Commercial/Lawn	billing charges per year, no RTS charge		5	i l				
		Resort & Bear Creek							
		Twps Second Water/Commercial/La					1		
112		wn		5	;				
	Second Water/Outside/Resort &	Only billed commodity, not a billing or RTS							
	Bear Creek Twps/Industrial	charge		ļ				I	
		Resort & Bear Creek Twps Second							
114		Water/Industrial	L	0)		.		
		Only billed for Commodity, and 2							
	Second Water/Outside/Resort &	billing charges per							
115	Bear Creek Twps/Industrial/Lawn	year, no RTS charge		c	2				
		Resort & Bear Creek							
140		Twps Second]				
116		Water/Industrial/Lawn Only billed commodity,		"		-			
	Second Water/Outside/Resort &	not a billing or RTS		.					
117	Bear Creek Twps/Non-Profit	charge Resort & Bear Creek		2	· · · · · · · · · · · · · · · · · · ·		+		
		Twps Second Water/Non-					1		
		Profit/Readiness to							
		Serve Charge		.					
118		Billings, Total Only billed for	<u> </u>	2	<u> </u>			<u> </u>	
		Commodity, and 2				1			
110	Second Water/Outside/Resort & Bear Creek Twps/Non-Profit/Lawn	billing charges per year, no RTS charge			, ,	1			
113	Dear order i mparton-rionordwit	Resort & Bear Creek		<u> </u>				1	
		Twps Second Water/Non-				1			
120		Profit/Lawn		a					
02		Readiness to Serve Po	toskey Water	Rate Study				12/12/20	18
		Charge Billings, Total Outside City	Lieura i ech S	martikate	1	1	1	\$ 286	

۰

	В	C	D	E	F	G	н	T	1_
		Readiness to Serve							
1		Charge Billings, Total							
1		Inside, Outside City							
122 123		and Bay View						1	1,177,60
				A = 1/2		Destant.			
				Actual Calendar		Projected Calendar			
		Commodity Charge		2016 Billable	Actual Calendar	2019 Billable			
4.7.4		Billings, by Meter		Flow (100 CF Units)		Flow (100			
124		Size		CF Units)	(100 CF Units)	CF Units)		+	
	alendar 2019 Projected Billable								
	low Multiplier Above Calendar 2017					1.00		+	
126 127 W	INSIDE-CITY Vater/Inside/Residential	5/8"		125,861	118,837	118,837	\$ 1.45	5 \$	172,314
	Vater/Inside/Residential	3/4"		3,253	3,265	3,265	\$ 1.45	5 \$	4,734
	Vater/Inside/Residential	1" 1 1/2"		24,656 15,295	<u>18,517</u> 16,567	18,517 16,567	\$ 1.45 \$ 1.45		26,85
	Vater/Inside/Residential	2"		1,523	1,382	1,382		ŝ	2,00
132 W	Vater/Inside/Residential	3"		0				5	
	Vater/Inside/Residential Vater/Inside/Residential			0				5 5	
13411	vaterninsidernesidentia	Residential			°		Ψ 1.4v	′ †‴	
		Commodity Charge							
135	Matar/Inside/Commoraio	Billings, Total		170,588	158,568		\$ 1.45	5 S	229,92
	Vater/Inside/Commercial Vater/Inside/Commercial	5/8" 3/4"		24,745 4,394	<u>26,236</u> 4,546				6,59
138 W	Vater/Inside/Commercial	1"		8,428	8,747	8,747	\$ 1.45	5 \$	12,68
	Vater/Inside/Commercial Vater/Inside/Commercial	<u> </u>		10,987	12,624 31,843				<u>18,30</u> 46,17
	Vater/Inside/Commercial	3"		247	639				92
142 W	Vater/Inside/Commercial	4*		25,914	25,193	25,193	\$ 1.45		36,52
<u>143 N</u>	Vater/Inside/Commercial	6" Commercial		0	0	0	\$ 1.45	5 \$	
		Commodity Charge							
144		Billings, Total		112,715	109,828	109,828		\$	159,24
	Vater/Inside/Industrial	5/8"		539			\$ 1.45 \$ 1.45		1,67
	Vater/Inside/Industrial Vater/Inside/Industrial			0					
	Vater/Inside/Industrial	1 1/2"		2,219					2,69
	Vater/Inside/Industrial	2"		0			\$ 1.45 \$ 1.45		
	Vater/Inside/Industrial			0					
	Vater/Inside/Industrial	6"		Ő					
		Industrial Commodity	_						
153		Charge Billings, Total		2,758	3,014	3,014		5	4,37
154 W	Water/Inside/Non-Profit	5/8"		5,972					8,05
	Vater/Inside/Non-Profit	<u> </u>		2,083					<u>3,59</u> 8,43
	Nater/Inside/Non-Profit	1 1/2"		1,560					1,17
158 V	Water/Inside/Non-Profit	2"		26,969					39,83
	Water/Inside/Non-Profit	3"		<u>5,419</u> 38,127					6,13 63,42
	Nater/Inside/Non-Profit			30,127			\$ 1.4		00,14
1		Non-Profit							
400		Commodity Charge		85,029	90,104	90,104		s	130,64
162 S	Second Water	Billings, Total		65,025	30,104	30,104		+-	100,01
163 N	Meter/Inside/Residential	Total of all meters		21,936	19,395	19,395	\$ 1.4	5 \$	28,12
	Second Water	Total of all meters		32,510	27,535	27,535	\$ 1.4	5 \$	39,92
	Meter/Inside/Residential/Lawn Second Water	Total of all meters		32,310					
165 N	Meter/Inside/Commercial	Total of all meters		11,473	11,532	11,532	\$ 1.4	5 \$	16,72
	Second Water	Total of all meters		18,693	18,056	18,056	\$ 1.4	5 \$	26,18
	Meter/Inside/Commercial/Lawn Second Water	TOTAL OF ALL HIGTORS		10,093					
167 N	Meter/Inside/Industrial	Total of all meters		632	740	740	\$ 1.4	5 \$	1,07
	Second Water	Total of all matan		24	c c		\$ 1.4	5 5	
	Meter/Inside/Industrial/Lawn Second Water Meter/Inside/Non-	Total of all meters		24	<u> </u>	<u> </u>	ιψ 1.44 	` *	
. 19		Total of all meters		23,835	19,597	19,597	\$ 1.4	5 \$	28,41
169 P				0.000	11,675	11,675	\$ 1.4	5 \$	16,92
s	Second Water Meter/Inside/Non-	Total of all motors			1 1,0/3		+ * '.4	-+ *	
s		Total of all meters		9,029				1	
170 P	Second Water Meter/Inside/Non-			1,580	2,823	2,823	\$ 1.4	5 \$	4,09
170 P	Second Water Meter/Inside/Non- Profit/Lawn	Total of all meters			2,823	2,823	\$ 1.4	5\$	4,09
170 P	Second Water Meter/Inside/Non- Profit/Lawn				2,823	2,823	<u>\$ 1.4</u>		
170 P	Second Water Meter/Inside/Non- Profit/Lawn	Total of all meters Rate Codes 1201 to 1401 Commodity Charge Billings, Total					\$1.4	5 \$ \$	
170 P 171 S	Second Water Meter/Inside/Non- Profit/Lawn	Total of all meters Rate Codes 1201 to 1401 Commodity Charge Billings, Total Commodity Charge		1,580			\$1.4		
170 P 171 S 172	Second Water Meter/Inside/Non- Profit/Lawn	Total of all meters Rate Codes 1201 to 1401 Commodity Charge Billings, Total Commodity Charge Billings, Total Inside		1,580	111,353	111,353	\$1.4		161,4
5 170 P 171 S 172 173 174	Second Water Meter/Inside/Non- Profit/Lawn Second Water/Inside/5/8" (Garages) OUTSIDE-CITY	Total of all meters Rate Codes 1201 to 1401 Commodity Charge Billings, Total Commodity Charge		<u>1,580</u> <u>119,712</u>	111,353	111,353	\$1.4	5	_ 161,45
170 P 171 S 171 S 172 173 174	Second Water Meter/Inside/Non- Profit/Lawn Second Water/Inside/5/8" (Garages) OUTSIDE-CITY Water/Outside/Resort & Bear Creek	Total of all meters Rate Codes 1201 to 1401 Commodity Charge Billings, Total Commodity Charge Billings, Total Inside City		1,580 119,712 490,802	111,353 472,867	111,353 472,867		\$	
5 170 P 171 S 172 172 173 174 175 T	Second Water Meter/Inside/Non- Profit/Lawn Second Water/Inside/5/8" (Garages) OUTSIDE-CITY	Total of all meters Rate Codes 1201 to 1401 Commodity Charge Billings, Total Commodity Charge Billings, Total Inside City 5/8"		1,580 119,712 490,802 15,128	<u>111,353</u> 472,867 15,683	111,353 472,867		\$	
170 P 171 S 172 172 173 174 175 T 175 T 176 T	Second Water Meter/Inside/Non- Profit/Lawn Second Water/Inside/5/8" (Garages) OUTSIDE-CITY Water/Outside/Resort & Bear Creek Twps/Residential Water/Outside/Resort & Bear Creek Twps/Residential	Total of all meters Rate Codes 1201 to 1401 Commodity Charge Billings, Total Commodity Charge Billings, Total Inside City 5/8"		1,580 119,712 490,802 15,126 Rate Study245	<u>111,353</u> 472,867 15,683	111,353 472,867 3 15,683	\$ 2.1	\$ \$ 8 \$ 8 \$	161,45 685,64 34,18
170 P 171 S 171 S 172 173 174 175 T 175 T 176 T V 176 T	Second Water Meter/Inside/Non- Profit/Lawn Second Water/Inside/5/8" (Garages) OUTSIDE-CITY Water/Outside/Resort & Bear Creek Twps/Residential Water/Outside/Resort & Bear Creek	Total of all meters Rate Codes 1201 to 1401 Commodity Charge Billings, Total Commodity Charge Billings, Total Inside City 5/8"	toskey Water Tetra Tech S	1,580 119,712 490,802 15,126 Rate Study245	111,353 472,867 3 15,683 9 182	111,353 472,867 3 15,683 2 182	\$ 2.1 \$ 2.1	\$ 8 8 8 12/	

$ \rightarrow $	<u> </u>	С	D	E	F	G	н	-	
	Water/Outside/Resort & Bear Creek Twps/Residential	2"		15,395	13,999	13,999	\$ 2.18	s	30
	Water/Outside/Resort & Bear Creek	2		15,395	13,999	13,333	\$2.10	┝╸	
	Twps/Residential	3"		0	0	0	\$ 2.18	\$	
	Water/Outside/Resort & Bear Creek					_			
	Twps/Residential Water/Outside/Resort & Bear Creek	4"		0	0	0	\$ 2.18	\$	
	Twps/Residential	6"		0	o	0	\$ 2.18	s	
1.02		Resort & Bear Creek					•	Ť	-
183		Twps Residential Commodity Charge Billings, Total		36.032	34,970	34,970		s	76
	Water/Outside/Resort & Bear Creek	Diningo, rotar			01,010	01,010		Ť	*
	Twps/Commercial	5/8"		2,099	1,552	1,552	\$ 2.18	\$	
	Water/Outside/Resort & Bear Creek Twos/Commercial	3/4"		4.445	516	540		١.	
H	Water/Outside/Resort & Bear Creek			1,116				1	
	Twps/Commercial Water/Outside/Resort & Bear Creek	1"		3,043	3,469	3,469	\$ 2.18	\$	
	Twps/Commercial	1 1/2"		9,540	7,839	7,839	\$ 2.18	5	1
	Water/Outside/Resort & Bear Creek	ĺ							_
	Twps/Commercial	2"		38,836	42,853	42,853	\$ 2.18	\$	93
	Water/Outside/Resort & Bear Creek Twos/Commercial	3"		7,475	6,278	6,278	\$ 2.18	\$	1:
	Water/Outside/Resort & Bear Creek	<u>_</u>		1,413	0,270	- 0,270	9 2.10	┞╸	
	Twps/Commercial	4"		0	0	0	\$ 2.18	\$	
	Water/Outside/Resort & Bear Creek								
191	Twps/Commercial	6" Resort & Bear Creek		0	0	0	\$ 2.18	5	
102		Twps Commercial Commodity Charge Billings, Total		62.400	60 507	60 507		s	134
192	Water/Outside/Resort & Bear Creek	Billings, Total		62,109	62,507	62,507		+*	13
193	Twps/Industrial	5/8"		0	0	0	\$ 2.18	\$	
	Water/Outside/Resort & Bear Creek								
	Twps/Industrial Water/Outside/Resort & Bear Creek	3/4"		0	0	0	\$ 2.18	\$	
	Twps/Industrial	1"		899	896	896	\$ 2.18	\$	
	Water/Outside/Resort & Bear Creek								
	Twps/Industrial Water/Outside/Resort & Bear Creek	1 1/2"		0	0	0	\$ 2.18	\$	
	Twps/Industrial	2"		0	o	6	\$ 2.18	s	
	Water/Outside/Resort & Bear Creek							Ť	
	Twps/Industrial	3"		0	0	0	\$ 2.18	5	
	Water/Outside/Resort & Bear Creek Twps/Industrial	4-		0	0		\$ 2.18	s	
	Water/Outside/Resort & Bear Creek					°	÷ <u> </u>	Ť	
200	Twps/Industrial	6"		0	0	0	\$ 2.18	\$	
		Resort & Bear Creek Twps Industrial Commodity Charge							
201	Water/Outside/Resort & Bear Creek	Billings, Total		899	896	896		\$	
	Twps/Non-Profit	5/8"		37	60	60	\$ 2.18	\$	
	Water/Outside/Resort & Bear Creek								
	Twps/Non-Profit Water/Outside/Resort & Bear Creek			72	654	654	\$ 2.18	\$	
	Twps/Non-Profit	1"		462	547	547	\$ 2.18	s	
	Water/Outside/Resort & Bear Creek								
	Twps/Non-Profit	1 1/2"		0	0	0	\$ 2.18	\$	
	Water/Outside/Resort & Bear Creek Twps/Non-Profit	2"		864	1,012	1,012	\$ 2.18	s	:
	Water/Outside/Resort & Bear Creek	<u> </u>			1,012	1,012	<u>v</u> 2.10	┼╸	
207	Twps/Non-Profit	3"		0	0	0	\$ 2.18	\$	
	Water/Outside/Resort & Bear Creek							.	
	Twps/Non-Profit Water/Outside/Resort & Bear Creek	4"		0	0	0	\$ 2.18	\$	
	Twps/Non-Profit	6"		0	0	0	\$ 2.18	\$	
Π		Resort & Bear Creek Twps Non-Profit Commodity Charge							
210		Billings, Total		1,435	2,273	2,273		\$	
	Second Water/Outside/Resort &	Total of all materia							
	Bear Creek Twps/Residential Second Water/Outside/Resort &	Total of all meters		1,844	1,286	1,286	\$ 2.18	\$	
212	Bear Creek Twps/Residential/Lawn	Total of all meters		447	174	174	\$ 2.18	\$	
	Second Water/Outside/Resort & Bear Creek Twps/Commercial	Total of all meters		13,867	11,989	11,989	\$ 2.18	\$	20
Π	Second Water/Outside/Resort &								
	Bear Creek Twps/Commercial/Lawn	Total of all meters		7,235	5,545	5,545	\$ 2.18	\$	1
	Second Water/Outside/Resort & Bear Creek Twps/Industrial	Total of all meters		o	o		\$ 2.18	\$	
	Second Water/Outside/Resort &					<u> </u>	<u> </u>	+*	
216	Bear Creek Twps/Industrial/Lawn	Total of all meters		0	0	0	\$ 2.18	\$	
	Second Water/Outside/Resort & Bear Creek Twps/Non-Profit	Total of all maters		552	774		e 040	.	
	Second Water/Outside/Resort &	Total of all meters		352	774	774	\$ 2.18	\$	
	Bear Creek Twps/Non-Profit/Lawn	Total of all meters		0	0	0	\$ 2.18	\$	
002		Resort & Bear Creek Twps 2nd, Lawn Commodity Charge	toskey Water Tetra Tech St	Rate Study nartRate				12/	12/20
1 1		Commodity Custon					1		

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Table W2 Projected FY 2019 Water Billings Using FY 2018 Water Rates and Projected FY 2019 Billing Units

6	С	D	E	F	G	н	1
220	Commodity Charge Billings, Total Outside City		124,420	120,414	120,414		\$ 262,493
221 WA Bay View 6"	Water provided thru a 6" and a 12" main. RTS billed as 6"		28,755	24,974	24,974	\$ 1.82	\$ 45,452
222	Bay View Commodity Charge Billings, Total		28,755	24,974	24,974		\$ 45,452
	Commodity Charge Billings, Total Inside, Outside City and Bay						
223	View		643,977	618,255	618,255		\$ 993,592
224	Total Inside City Billings						\$ 1,638,507
225	Total Outside City Billings						\$ 564,074
226	Total Bay View Billings						\$ 62,327
	Total Inside City, Outside City and Bay						
227	View Billings						\$ 2,264,908

Table W3 Projected Total Inside-City and Outside-City Water Equivalent Billing Units

	В	С	D	E	F	G	н		1	к	
H		- Ŭ						rojected An	nual Water B	illing Units	<u> </u>
2		Current Number of Meters Used for Billing for Water and Sewer Service	Meter Rated Capacity, Gallons per Minute (per AWWA)	Readiness to Serve Meter Ratio (Equal to Meter Capacity Divided by 5/8" Meter Capacity)	Annual Billing Units for Meters Used for Water and Sewer Billing Charge (Water and Sewer Billing Charge and RTS Charge Based on 12 Meter Readings per Year)	Annual Billing Units for Meters Used for Lawn Billing Charge (Lawn Billing Charge Based on 2 Meter Readings per Year)	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
3	INSIDE CITY	-									
Ă	Growth Rate				· · · · · · · · · · · · · · · · · · ·		0.0%	0.0%	0.0%	0.0%	0.0%
5	Billing Charge Billing Units, Total				36,000	424	36,424	36,424	36,424	36,424	36,424
	Readiness to Serve Charge Billing Units, by Meter Size										
7	5/8"	2,638	20				31,656	31,656	31,656	31,656	31,656
8	3/4"	61	30				1,098	1,098	1,098	1,098	1,098
9	1"	201	50				6,030	6,030		6,030	6,030
10	1 1/2"	49				<u> </u>	2,940	2,940		2,940	2,940
11	2"	42					4,032	4,032	4,032	4,032	4,032
12	3"	3				· · · · · · · · · · · · · · · · · · ·	<u>630</u> 2,160	2,160	2,160	630 2,160	630 2,160
13	<u>4"</u> 6"	6					2,100	2,160		2,160	2,160
14	Readiness to Serve Charge Billing Units.	ļ0	1,250	62.5			-			V	Y
15	Total Commodity Charge Billing Units, All	3,000			48,546		48,546	48,546	48,548	48,546	48,546
16 17	Meter Sizes OUTSIDE CITY						472,867	472 <u>,867</u>	472,867	472,867	472,867
18	Growth Rate						0.0%	0.0%	0.0%	0.0%	0.0%
۲Ť	Billing Charge Billing Units, Total	i — —		i							
19	(Resort and Bear Creek Townships)	ł		1	4,500	22	4,522	4,522	4,522	4,522	4,522
20	Readiness to Serve Charge Billing Units, by Meter Size (Resort and Bear Creek Townships)										
21	5/8"	260	20				3,120	3,120	3,120	3,120	3,120
22 23		12				ļ	216	216	216	216	216
23	1"	34	50				1,020 780	1,020	1,020	1,020	1,020
24 25	1 1/2"	13					5,280	780	780 5,280	780 5,280	780 5,280
25 26	2"	55					210	5,280	210	210	5,280
20								210		- 210	210
28							-	ŏ		ŏ	ŏ
	Readiness to Serve Charge Billing Units, Total (Resort Township and Bear Creek Townships)	375			10,626		10,626	10,626	10,626	10,626	10,626
30	Commodity Charge Billing Units, All Meter Sizes (Resort Township and Bear Creek Townships)						120,414	120,414	120,414	120,414	120,414
31	BAY VIEW	<u> </u>	1		<u> </u>						
	Readiness to Serve Charge Billing Units, by Meter Size										
33	Water provided thru a 6" and a 12" main. RTS billed as 6"	1	1,250	62.5	750						
34	Readiness to Serve Charge Billing Units, Total	1			750		750	750	750	750	750
	Commodity Charge Billing Units, Total		<u> </u>				24,974	24,974	24,974	24,974	24,974
			1	PROJECT	ED TOTAL INSIDE-CI	TY, OUTSIDE-CITY A	ND BAY VIEW	QUIVALENT	BILLING UN	IITS	
36 37		Resort and	Bear Creck		Equivalent Factor (B	1.50					
38		Resort and	Bear Creek	Township to Inside	Equivalent Factor (R	1.50					
39					Equivalent Factor (C	1.50					
40		[1.25					
41		L				1.25					
42		ļ		L	L	L	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
43				alent Billing Charg		I	43,207	43,207	43,207	43,207	43,207
44	· · · · · · · · · · · · · · · · · · ·				Serve Charge Billing	Unit s	65,423	65,423	65,423	65,423 684,706	65,423
45		I	I Total Equiv	atent Commodity (Charge Billing Units_	L	684,706	684,706	684,706	664,706	684,706

Table W4 Five-Year Water Revenue Adequacy Using Current Water Rates and Required Percent Adjustments

1	8	C.	Current	<u> </u>	н	Projected		
			FY 2018					
			Budget					
23	Account	WATER FUND EXPENSES:	(Cash Basis)	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
4		MAINTENANCE WELLS & STATION						
		SALARIES & WAGES	58,000	59,740	61,532	63,378	65,280	67,238
		FRINGE BENEFITS MATERIALS & SUPPLIES	4,700	<u>5,170</u> 10,100	5,687 10,201	6,256 10,303	6,881 10,406	7,569
8	592-537-802.000	CONTRACTED SERVICES	46,000	46,460	46,925	47,394	47,868	48,348
9 10			2,200	2,222	2,244	2,267	2,289	2,312
11		TOTAL MAINTENANCE WELLS & STATION	120,900	123,692	126,589	129,597	132,724	135,976
12		PUMPING						
		COMMUNICATIONS PUBLIC UTILITIES	9,200	9,292	9,385 195,206	9,479	9,574 207,094	9,669
15		TOTAL PUMPING	193,200	198,812	204,591	210,541	216,667	222,976
16								
17 18		WATER PURIFICATION SALARIES & WAGES	3,000	3,090	3,183	3,278	3,377	3,478
19	592-540-724.000	FRINGE BENEFITS	400	440	484	532	586	644
		MATERIALS & SUPPLIES	14,000	14,140	14,281	14,424 29,282	14,568	14,714
	592-540-783.000	CONTRACTED SERVICES	22,000	24,200	26,620	1,030	1,041	1,05
23	592-540-947.000	VEHICLE RENTAL	200	202	204	206	208	21(
24 25		TOTAL WATER PURIFICATION	40,600	43,082	45,792	48,753	51,990	55,52
26		GENERAL DISTRIBUTION						
27	592-542-702.000	SALARIES & WAGES	10,000	10,300	10,609	10,927	11,255	11,593
		FRINGE BENEFITS	1,500	1,650 5,959	1,815 6,019	1,997 6,079	2,196 6,140	2,416
		CONTRACTED SERVICES	8,000	8,080_	8,161	8,242	8,325	8,408
31	592-542-920.000	PUBLIC UTILITIES	2,000	2,060	2,122	2,185	2,251	2,319
32		VEHICLE RENTAL TOTAL GENERAL DISTRIBUTION	100 27,500	101 28,150	102 28,827	103 29,533	104 30,271	31,04
34								
35		MAINTENANCE OF RESERVOIRS	13,000	13,390	13,792	14,205	14,632	15,071
			1,200	1,320	1,452	1,597	1,757	1,933
38	592-543-775.000	MATERIALS & SUPPLIES	1,000	1,010	1,020	1,030	1,041	1,051
		CONTRACTED SERVICES	13,000	13,130	13,261 204	<u>13,394</u> 206	13,528 208	13,663
41		TOTAL MAINTENANCE OF RESERVOIRS	28,400	29,052	29,729	30,433	31,165	31,92
42							-	
43		MAINTENANCE OF MAINS	32,000	32,960	33,949	34,967	36,016	37,097
		FRINGE BENEFITS	2,800	3,080	3,388	3,727	4,099	4,50
		MATERIALS & SUPPLIES	30,000	30,300	30,603	30,909	<u>31,218</u> 109,263	31,530
		CONTRACTED SERVICES	105,000 5,500	<u>106,050</u> 5,555	107,111 5,611	5,667	5,723	5,78
49		TOTAL MAINTENANCE OF MAINS	175,300	177,945	180,661	183,451	186,321	189,27
50								
51 52		MAINTENANCE OF SERVICES	45,000	48,350	47,741	49,173	50,648	52,167
53	592-545-724.000	FRINGE BENEFITS	4,000	4,400	4,840	5,324	5,856	6,44
		MATERIALS & SUPPLIES	15,000 65,000	15,150 65,650	15,302 66,307	15,455 66,970	15,609 67,639	15,76
		VEHICLE RENTAL	18,000	18,180	18,362	18,545	18,731	18,91
		UNCOLLECTABLE ACCOUNTS	8,000	8,000	8,000	8,000 163,466	8,000 166,483	8,000
<u>58</u> 59		TOTAL MAINTENANCE OF SERVICES	155,000	157,730	160,550	105,400	100,400	
60		MAINTENANCE OF METERS						
		SALARIES & WAGES	25,000	25,750 4,400	26,523 4,840	27,318 5,324	28,138	28,98
		FRINGE BENEFITS	50,000	50,500	51,005	51,515	52,030	52,55
64	592-548-802.000	CONTRACTED SERVICES	500	505	510	515	520 520	<u>52</u>
65 66		VEHICLE RENTAL	<u>500</u> 80.000	505 81,660	510 83,388	515 85,188	87,065	89,02
67			00,000	01,000				
68		MAINTENANCE OF HYDRANTS	40.000	40.400	40 074	17,484	18,008	18,54
		SALARIES & WAGES	16,000	16,480 1,650	<u>16,974</u> 1,815	17,484	2,196	2,41
71	592-547-775.000	MATERIALS & SUPPLIES	15,000	15,150	15,302	15,455	15,609	15,76
72	592-547-802.000	CONTRACTED SERVICES	15,500	15,655 2,020	15,812 2,040	<u>15,970</u> 2,061	16,129 2,081	16,29
73		TOTAL MAINTENANCE OF HYDRANTS	50,000		51,943	52,965	54,024	55,12
75								
76		GENERAL WATER ADMINISTRATION	104,000	107,120	107,120	107,120	107,120	107,12
		VSALARIES & WAGES	-		•		•	-
79	592-549-724.000	FRINGE BENEFITS	250,000	275,000	302,500	332,750	366,025	402,62
		OFFICE SUPPLIES	10,000 2,500	10,100	10,201 2,550	10,303	10,406 2,602	2,62
		MATERIALS & SUPPLIES	2,000	2,020	2,040	2,061	2,081	2,10
	592-549-785.000		8,000	8,080	8,161	8,242	<u>8,325</u> 84,413	8,40
		CONTRACTED SERVICES	75,000	77,250	79,568	81,955 4,327	4,371	4,41
86	592-549-915.000	EDUCATION & TRAINING	13,000	13,130	13,261	13,394	13,528	13,66
		INSURANCE & BONDS	9,700	7,070	7,141	7,212 9,994	7,284	7,35
	592-549-945.000	CITY HALL BUILDING RENT	9,700		9,895	13,394	13,528	13,66
		VEHICLE RENTAL	34,400		35,091	35,442	35,797	36,15
90	592-540 005 001	UTILITY BILLING COMPONENT OF ADMINISTRATIVE FEES	103,300	106,399	109,591	112,879	116,265	119,75
	592-549-995.000	ADMINISTRATIVE FEES LESS UTILITY BILLING *	206,600		219,182	225,757	232,530	239,50
91		TOTAL GENERAL WATER ADMINISTRATION	842,700		923,847		1,014,368	1,065,04
91 92 93			1				4 074 077	2,045,52
91 92 93 94	3		1 713 600	1.774 493	1.835.916	1.801.333		
91 92 93		TOTAL WATER OPERATING	1,713,600	1,774,483	1,835,916	1,901,333	1,971,077	2,040,02
91 92 93 94 95 96		WATER PAYMENT IN LIEU OF TAXES TO THE GENERAL	1,713,600 159,100 stor Rate Study		1,835,916		159,100	

Table W4
Five-Year Water Revenue Adequacy Using Current Water Rates and Required Percent Adjustments

	8	С	F	G	н		1	к
1	- 0	Ŭ	Current	<u> </u>		Projected	J	<u>^</u>
2	Account	WATER FUND	FY 2018 Budget (Cash Basis)	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
		Job 916: Emmet Street water main						
		Job 921: Bayfront Drive water main MDOT US-31 Water Design	120,000					
	592-549-802 592-549-802	Telephony Upgrades	5,000					
105	302-040-002	US-31 - Lewis Street to Boulder Lane. Highway water main	0,000					
104		crossings and water main replacement. Paid from operating revenue. (Potential \$100,000 MDOT grant).		250,000				
		Jackson Street - West Mitchel Street to Hospital Ring Road. Replace water mains and components. Paid from operating						
105		revenue.			90,000			
400		Kalamazoo Avenue - Jennings to Grove Street. Replace water mains and components. Paid from operating revenue.			295,000			
100		Miscellaneous water main spot repairs and upgrades. Paid from			255,000			
107	Revenue	operating revenue. Greenwood Road - Sheridan to Charlevoix Avenue. Replace				150,000		
		water main along Greenwood Road. Paid from operating						
108	Revenue	revenue.				275,000		
		Lime Kiln Well and Control Building Improvements. Convert from						
	Operating	vertical turbine pump to submersible pump system, update chlorine feed system and renovate control and monitoring	!					
109	Revenue	systems. Paid from operating revenue. East Lake - Kalamazoo to Division. Replace water mains in				75,000	175,000	
	Operating	conjunction with street reconstruction. Paid from operating					272 000	
110	Revenue Operating	revenue. Howard Street and miscellaneous water main spot repairs and					273,000	
111	Revenue	upgrades. Paid from operating revenue.						290,000
	Operating	Miscellaneous water system capital improvements (if projects total is less than \$500,000). Paid from operating revenue. To bring total annual water CIP cost to at least \$500,000 beginning						
	Revenue	FY 2019.	405.000	250,000	115,000	500.000	52,000 500,000	210,000 500,000
113 114		TOTAL PROJECT COST	125,000	500,000	500,000	500,000	500,000	500,000
115		DEPRECIATION						
		DEPRECIATION - WATER	0		0			0
117		TOTAL DEPRECIATION	0	0	0	0	0	0
118							-	·
119 120		BOND EXPENSE Outstanding water bonds: None as of August 2018.						
	592-585-992 000	INTEREST EXPENSE (6,400 Aug 29 email)	0	- 0	0	0	Ö	0
		PAYING AGENT FEES (300 Aug 29 email)	Ö		0		0	
123	592-565-996.000	OTHER EXPENSE (20,000 Aug 29 email) Projected water bonds: None. All capital projects will be paid	0	0	0	0	0	0
124 125		from operating revenue.	· · ·	-	<u> </u>	-		-
126	_						0.000 (77	0.704.008
127		TOTAL FUND EXPENDITURES	1,997,700	2,433,583	2,495,016	2,560,433	2,630,177	2,704,625
128 129		REVENUE:	~~~					
		NON-PROFIT SALES - WATER	320,000	320,000	320,000	320,000	320,000	320,000
131	592-081-643.100	INDUSTRIAL SALES - WATER	11,000	11,000	11,000		11,000	11,000
		COMMERCIAL SALES - WATER	680,000	680,000	680,000		680,000	680,000 1,185,000
		RESIDENTIAL SALES - WATER	1,185,000 30,000	1,185,000 30,000	1,185,000 30,000		1,185,000 30,000	30,000
		FIRE PROTECTION TOWER RENTAL	55,000	55,000	55,000		55,000	55,000
		OTHER (SCRAP METAL, TURN ON/OFFS)	10,000	10,000	10,000			10,000
		PROJECTS - WATER	5,000	5,000	5,000	5,000	5,000	5,000
138	TBD	BOND PROCEEDS (No current or projected)	0			-	0	0
		TRANSFER TO/FROM FUND BALANCE	50.000		<u> </u>		50,000	50,000
			50,000	50,000 6,000	<u>50,000</u> 6.000			6,000
141 142	592-082 <u>-690.000</u>	TOTAL REVENUE	2,352,000					
143 144		NET REVENUES OVER EXPENDITURES	354,300	(81,583)	(143,016)	(208,433)	(278,177)	(352,625)
145 146 147		REVENUE FROM CURRENT RATES	2,196,000	2,196,000			2,196,000	2,196,000
148		FY 2019 Additional Revenue from Rates		81,583	81,583	81,583	81,583	81,583
149		FY 2020 Additional Revenue from Rates			61,433			61,433
150		FY 2021 Additional Revenue from Rates			↓	65,417	65,417 69,744	65,417 69,744
151		FY 2022 Additional Revenue from Rates	<u> </u>	l	<u> </u>		09,144	74,447
152 153		FY 2023 Additional Revenue from Rates	2,196,000	2,277,583	2,339,016	2,404,433	2,474,177	
153	1	TOTAL ADJUSTED REVENUE	2,352,000		2,495,016	2,560,433	2,630,177	2,704,625
155		NET REVENUES OVER EXPENDITURES	354,300			0	0	0
156			0.757.054	2 110 054	2 112 264	3,112,251	3,112,251	3,112,251
157 158		BEGIN OF YEAR UNRESTRICTED WATER FUND BALANCE	2,757,951 354,300		3,112,251		3,112,231	
159 160		END OF YEAR UNRESTRICTED WATER FUND BALANCE ****	3,112,251	3,112,251	3,112,251	3,112,251	3,112,251	3,112,251
		pense assumed = Administrative Fees x 0.33		1	1	1		

Table W5 Cost Allocations, Net Revenue Recovered by Water Rates, Rate Calculations

	A	B	C	D	E	F	G	H	1	J	ĸ	L	M	N	0	P	Q	R	S	Т
					Alloc	ation to	Allor	ation to				Alloci	tion to	Alloca	tion to				Allect	ation to
۱.	WATER FUND	FY 2019	Allocation	to Billing		s-to-Serve		modity	FY 2020	Allocation	to Billing		s-to-Serve		modity	FY 2021	Allocatio	n to Billing		s-to-Serve
⊢	WATER FOND	F1 2018_	Percent	Amount	Percent	Amount	Percent		FIAVAV	Percent	Amount	Percent	Amount	Percent	Amount	KVA1	Percent	Amount	Percent	Amount
1.	EXPENSES:		Fulcent	Patrouni	Fercen	Fundant	Feicon	~~~~~~		r creent	Anount	r c.cc.iii		rescent			r ercent	Anoan	recom	Anount
H	TOTAL MAINTENANCE WELLS & STATION	123,692	0.00%	0	0.00%	0	100.00%	123,692	126,589	0.00%	0	0.00%	0	100.00%	126,589	129,597	0.00%	0	0.00%	0
	TOTAL PUMPING	198,812	0.00%	0	0.00%	0	100.00%	198,812	204,591	0.00%	Ő	0.00%	0	100.00%	204,591	210,541	0.00%	Ō	0.00%	0
	TOTAL WATER PURIFICATION	43,082	0.00%	Ö	0.00%	ō	100.00%	43,082	45,792	0.00%	0	0.00%	0	100.00%	45,792	48,753	0.00%	0	0.00%	0
	TOTAL GENERAL DISTRIBUTION	28,150	0.00%	0	0.00%	0	100.00%	28,150	28,827	0.00%	0	0.00%	0	100.00%	28,827	29,533	0.00%	0	0.00%	0
	TOTAL MAINTENANCE OF RESERVOIRS	29,052	0.00%	0	0.00%	0	100.00%	29,052	29,729	0.00%	0	0.00%	0	100.00%	29,729	30,433	0.00%	0	0.00%	ō
8	TOTAL MAINTENANCE OF MAINS	177,945	0.00%	0	0.00%	0	100.00%	177,945	180,661	0.00%	0	0.00%	0	100.00%	180,661	183,451	0.00%	0	0.00%	0
	TOTAL MAINTENANCE OF SERVICES	157,730	0.00%	0	0.00%		100.00%	157,730	160,550	0.00%	0	0.00%	0	100.00%	160,550	163,466	0.00%	0	0.00%	0
10	TOTAL MAINTENANCE OF METERS	81,660	0.00%	0	0.00%		100.00%	81,660	83,388	0.00%	0	0.00%	0	100.00%	83,388	85,188	0.00%	0	0.00%	0
	TOTAL MAINTENANCE OF HYDRANTS	50,955	0.00%	0	0.00%	0	100.00%	50,955	51,943	0.00%	0	0.00%	0	100.00%	51,943	52,965	0.00%	0	0.00%	0
	UTILITY BILLING COMPONENT OF ADMINISTRATIVE FEES *	106,399	100.00%	106,399		0	0.00%	0	109,591	100.00%	109,591	0.00%	0	0.00%	0	112,879	100.00%	112,879	0.00%	0
	GENERAL WATER ADMINISTRATION LESS BILLING*(10/31/18)	777,006	0.00%	0	40.00%	310,802		486,204		0.00%	0	40.00%	325,702		488,553	854,527	0.00%	0	40.00%	341,811
	WATER PAYMENT IN LIEU OF TAXES TO THE GENERAL FUND	159,100	0.00%	0	100.00%	159,100		0	159,100	0.00%	0	100.00%	159,100	0.00%	0	159,100	0.00%	0	100.00%	159,100
15	TOTAL PROJECT COST	500,000	0.00%	0	100.00%	500,000		0	500,000	0.00%	0	100.0070	500,000	0.00%	0	500,000	0.00%	0	100.00%	500,000
16	TOTAL BOND EXPENSE	0	0.00%	0	100.00%	0	0.00%	0	0	0.00%	0	100.00%	0	0.00%	0	0	0.00%	0	100.00%	0
	TOTAL FUND EXPENDITURES	2,433,583		106,399		969,902		1,357,282	2,495,016	0.00%	109,591		984,802		1,400,623	2,560,433		112,879		1,000,911
18										0.00%										
	OFFSETTING REVENUE									0.00%										
	FIRE PROTECTION	30,000		0	0.00%		100.00%		30,000	0.00%	0	0.00%	0	100.00%	30,000	30,000	0.00%	0	0.00%	0
	TOWER RENTAL	55,000	0.00%	0	0.00%		100.00%	55,000	55,000	0.00%	0	0.00%	0	100.00%	55,000		0.00%	0	0.00%	0
	OTHER (SCRAP METAL, TURN ON/OFFS)	10,000	0.00%	0	0.00%		100.00%	10,000	10,000	0.00%	0	0.00%	0	100.00%	10,000	10,000	0.00%	0	0.00%	0
	PROJECTS - WATER	5,000		0	100.00%	5,000	0.00%	0	5,000	0.00%	0	100.00%	5,000	0.00%	0	5,000	0.00%	0	100.00%	5,000
	BOND PROCEEDS (No current or projected)	0	0.00%	0	100.00%	0	0.00%	0	0	0.00%	0	100.00%	0	0.00%	0	0	0.00%	0	100.00%	0
	TRANSFER TO/FROM FUND BALANCE	0	0.00%	0	100.00%	0	0.00%	0	0	0.00%	0	100.00%	0	0.00%	0	0	0.00%	0	100.00%	0
	INTEREST INCOME	50,000	0.00%	0	100.00%	50,000	0.00%	0	50,000	0.00%	0	100.00%	50,000	0.00%	0	50,000	0.00%	0	100.00%	50,000
	RESTITUTION	6,000	0.00%	0	100.00%	6,000	0.00%	0	6,000	0.00%	0	100.00%	6,000	0.00%	0	6,000	0.00%	0	100.00%	6,000
	TOTAL - OFFSETTING REVENUE	156,000	<u> </u>	0		61,000		95,000	156,000		0		61,000		95,000	156,000		0		61,000
29											\$109.591		\$ 923,802					\$ 112.879		
	NET REVENUE TO BE RECOVERED BY RATES	\$2,277,583	<u> </u>	\$106,399 43,207		\$ 908,902		\$1,262,282	\$ ∠,339,016		\$109,591 43,207		\$ ¥Z3,80Z		\$1,305,623	∌∠,4 04,433		\$ 112,879 43,207		\$ 939,911
	Total Equivalent Billing Charge Billing Units		<u> </u>	43,207		65.423					43,207		65.423					43,207		65.423
	Total Equivalent Readiness to Serve Charge Billing Units		I			00,423		684,706					03,423		684,706					05,423
	Total Equivalent Commodity Charge Billing Units Rate per Equivalent Billing Unit		l	\$ 2.47		\$ 13.90		\$ 1.85	L		\$ 2.54		S 14.13		\$ 1.91			\$ 2.62		\$ 14.37
34	Rate per Equivalent Balling Unit			\$ 2.47		\$ 13.90	<u> </u>	\$ 1.85	·		\$ 2.54		\$ 14.13		\$ 1.91			\$ 2.62		<u>\$ 14.37</u> \$ 14.37
35	Resort & Bear Creek Township Outside-City Rates			\$ 3.71		\$ 20.85		\$ 2.78	<u> </u>		\$ 3.81		\$ 21.20		\$ 2.87			\$ 3.93		\$ 21.56
30	Bay View Rates		l – –	* 3.71 N/A		\$ 17.38	t	\$ 2.32			* 5.01 N/A		\$ 17.67		\$ 2.39			\$ <u>3.83</u> N/A		\$ 17.97
	* See Table W4 for Utility Billing Component Calculation			N/A		- 17.00		<u></u>			iwa.		↓ 17.07		¥ 2,34					y 17.37
	Geo Table Yev for Gally Dallay Component Childration		1																	

I		T	~	۴	26	8	Ŧ	28	5	8	55	ิ	0	76	9	0	0	3		-1	81	8	8	0	0	0	0	0	ġ		,	-		ø	3	•	0	N	
₹	Allocation to	Commodity	Amount				31,041			•	89,025	55,122		567,176				1,547,65			30,000		10,000						95,000		\$1,452,654			684,708	S 2.13	\$ 2.13	\$ 3.20	\$ 2.67	
4	Alloci	Com	Percent	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	0.00%	80.00%	0.00%	0.00%	%00'0				100.00%	100.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%											
H	Allocation to	-to-Serve	Amount	0	0	0	0	0	0	0	0	0	0	378,118	159,100	500,000	0	1,037,218			•	0	0	5,000	0	0	50,000	6,000	61,000		\$ 976,218		65,423		\$ 14.93	\$ 14.93	\$ 22.40	\$ 18.67	
βG	Allocat	Readiness-to-Serve	Percent	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	40.00%	100.00%	100.00%	100.00%				0.00%	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	100.00%								_			
AF		to Billing	Amount	0	0	0	0	0	0	0	0	0	119,753	0	0	0	0	119,763			0	0	0	0	0	0	ö	0	0		\$ 119,753	43,207			5 2.78	\$ 2.78	\$ 4.17	NIA	
AE		Allocation to Billing	Percent	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%		i		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%											
ą		FY 2023		135,976		55,529		31,928		169,603	89,025	55,122	119,753	945,294	159,100	500,000	0	2,704,625	-		30,000	55,000	10,000	5,000	0	0	50,000	6,000	156,000		\$2,548,625								
ΥC	Allocation to	Commodity	Amount	132,724	216,667	51,990	30,271	31,165	186,321	166,483	87,065,	54,024	0	538,862	0	0	0	1,495,671		1	30,000	55,000	10,000	0	0	0	0	0	95,000		\$1,400,571			684,706	\$ 2.05	\$ 2.05	\$ 3.08	\$ 2.57	
₽₽	Alloca	Com	Percent	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	9600.0	60.00%	0.00%	0.00%	0.00%				100.00%	100.00%	100.00%	0.00%	0.00%	0.00%	0.00%												
¥	Allocation to	Lto-Serve	Amount	0	0	0	0	0	0	0	0	0	0	359,241	159,100	500,000	0	1,018,341			0	0	0	5,000	0	0	50,000	6,000	61,000		\$ 957,341		65,423		\$ 14.64	\$ 14.64	\$ 21.96	\$ 18.30	
2	Allocat	Readiness-to-Serve	Percent	0.00%	%00.0	0:00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	9600.0	40.00%	100.00%	100.00%	100.00%				0.00%	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	100.00%											
۲		Allocation to Billing	Amount	0	0	0	0	0	0	0	0	0	116,265	0	0	o	Ö	116,265			0	0	0	0	0	0	0	0	0		116,265	43,207			\$ 2.70	5 2.70	4.05	NIA	
×		Allocation	Percent	0.00%	0.00%	0.00%	0.00%	0.00%	9,00%	%00.0	0.00%		۲		0.00%	%00.0	0°00%				0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%											-
M		FY 2022		132,724				31,165		Ĩ	87,065	54,024	116,265	898,103	159,100	500,000	0	2,630,177			30,000	55,000	10,000	5,000	0	0	50,000	6,000	156,000		\$2,474,177								
>	Allocation to	Commodity	Amount	129,597	210,541	48,753	29,533	30,433	183,451	163,466	85,188	52,965	0	512,716	0	8	0	1,445,644)]	30,000	55,000	10,000	ö	0	0	0	0	95,000		\$1,351,644			684,706	\$ 1.98	\$ 1.98	\$ 2.97	\$ 2.48	
5	Alloca	Com	Percent	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	0.00%	80.00%	0.00%	%00.0	0.00%				100.00%	100.00%	100.00%	0.00%	0.00%	0.00%	9600'0	0.00%											
		-	~	3	4	ŝ	ø	~	80	8	9	Ξ	ŝ	₽	1	15	16	1	18	19	8	21	22	23	24	25	8	27	28	28	8	31	33	33	2	35	8	37	R

Table W6 Example Water Bills

							EX	տր	olo Water Bi	1113											
	A		в		С	Г	D		E		F	г	G		н		1		J		к
1				_		ng	ide Cit	v					Outside	. (aer	rt & R	ear	r Creek	T.	
⊢		۰.	-Y 2019	r.,	-Y 2020		FY 2021	_	FY 2022	_	74 0000	┢			FY 2020		TY 2021		FY 2022		
2	Usage (Number of 100 Cubic	- '	1 2019	- '	-1 2020		PT 2021		FT 2022		FY 2023	_	FY 2019	1	-¥ 2020		·¥ 2021	-'	-Y 2022	4	Y 2023
3	Feet Units per Month):																				
4												┢─									
	Meter Size: 5/8"																				
6	Current Bill		20.16	5	16.37	Ş	16.67	\$	16.99	\$	17.34	1		<u>\$</u>	24.58	\$	25.01		25.49	\$	26.01
7	Proposed Bill Change (Percent)	1.2	<u>16.37</u> -18.8%	5	<u>16.67</u> 1.8%	\$	16.99 1.9%	\$	<u>17.34</u> 2.1%	\$	<u>17.71</u> 2.1%	 ≸	-18.8%	\$	25.01	\$	<u>25.49</u> 1.9%	\$	26.01	\$	26.57
- Š	Change (Dollars)	5	(3.79)	5	0.30	5	0.32	s	0.35	5	0.37			\$	0.45	s	0.48	s	0.52	s	0.58
	Usage (Number of 100 Cubic							-				Г		-		-					
	Feet Units per Month):			_																	
11	5 Meter Size: 5/8*	-				_				<u> </u>		⊢									
13	Current Bill	5	27.41	5	25.62	\$	26.22	\$	26.89	s	27.59	5	6 41.14	\$	38.46	\$	39.36	s	40.34	\$	41.41
14	Proposed Bill	\$	25.62	5	26.22	\$	26.89	\$	27.59	\$	28.36	\$		\$	39.36	\$	40.34	\$	41.41	\$	42.57
15	Change (Percent)		-6.5%		2.3%		2.6%		2.6%	_	2.8%	L	-6.5%	_	2.3%		2.5%	_	2.7%	_	2.8%
16	Change (Dollars) Usage (Number of 100 Cubic	5	(1.79)	\$	0.60	5	0.67	.\$	0.70	\$	0.77	۱	(2.68)	\$	0.90	\$	0.98	\$	1.07	\$	1.16
17	Feet Units per Month):																				
18								-													
	Meter Size: 5/8"					_				Ļ		Ļ		_		_		Ļ			
<u>20</u> 21	Current Bill Proposed Bill		34.66 34.87	<u>\$</u> 5	34.87 35.77	\$ 5	35.77 36.79	\$	36.79	<u>\$</u> \$	37.84 39.01	5	52.04	5	52.36 53.71	s s	53.71 55.19		55.19 56.81		58.81 58.57
21	Change (Percent)	!*	0.6%	۴	2.6%	Ľ	2.9%	*	2.9%	۴°	39.01	ľ	0.6%		2.6%		2.8%	۲°	2.9%	*	3.1%
23	Change (Dollars)	\$	0.21	\$	0.90	\$	1.02	\$	1.05	\$	1.17	\$	0.32	\$	1.35	S	1.48	\$	1.62	\$	1.78
	Usage (Number of 100 Cubic										7		1								
	Fect Units per Month): 50	-		-		-		-		-		⊢				-					
26	50 Meter Size: 3/4"	-		-		-		-								-			-		
27	Current Bill		101.66	\$	115.82	\$	112.17	\$	115.99	\$	119.84	\$	152.74	\$	173.99	\$	179.11		184.77	\$	190.89
28	Proposed Bill	\$	115.82	\$	112.17	s	115.99	\$	119.84	\$	124.21	\$		\$	179.11	\$	184.77	\$	190.99	\$	197.77
29 30	Change (Percent) Change (Dollars)	-	<u>13.9%</u> 14.16	5	-3.2%	e	3.4%	•	3.3% 3.85	•	3.6% 4.37	\$	13.9% 21.25	s	2.9%	\$	3.2% 5.66	s	3.4%	\$	<u>3.5%</u> 6.78
1	Usage (Number of 100 Cubic	ľ	14.10	1.	(3.03)	4	3.02	*				۲			J. 1A	Ť	0.00	-		<u> </u>	0.10
31	Feet Units per Month):							_													
32	200							_										-			
33	Meter Size: 1* Current Bill		337.16	-	407.22	s	419.87	5	434.55	\$	449.30	5	506.74	\$	611.84	\$	630.81	5	651.83	\$	674.95
35	Proposed Bill	5	407.22		419.87		419.07	\$	449.30		466.11			\$	630.81	s	651.83		674.95		700.17
36	Change (Percent)		20.8%	Ť	3.1%	Ľ	3.5%		3.4%		3.7%	Ľ	20.7%		3.1%		3.3%		3.5%		3.7%
37	Change (Dollars)	\$	70.06	\$	12.65	5	14.68	\$	14.75	\$	16.81	1	105.10	\$	18.97	\$	21.02	5	23.12	5	25.22
1	Usage (Number of 100 Cubic											1									
	Feet Units per Month): 600									-		⊢			-						
40	Meter Size: 2"											Γ									
.41	Current Bill										1,349.82						1,895.41	5			2,027.73
42 43	Proposed Bill Change (Percent)	15	1,223.67 20.4%	5	1,261.58	\$	1,305.58 3.5%	Ş	1,349.82	\$	1,400.22	₽	1,838.51 20.4%	\$	1,895.41 3.1%	\$	1,958.41 3.3%	<u> </u>	2,027.73	\$	2,103.37 3.7%
44	Change (Dollars)	\$	207.51	\$	37.91	\$	44.00	\$	44.24	\$	50.40			\$	58.90	\$	63.00	\$	69.32	\$	75.64
	Usage (Number of 100 Cubic											Г									
45	Feet Units per Month):			-				_		-		∦_						<u> </u>			
						⊢		-		-		⊢								-	-
48	Current Bill	\$	2,057.16	\$	2,465.72	\$	2,541.82	\$	2,630.10	\$	2,718.90	1	\$ 3,091.74	\$	3,704.59	\$	3,818.81	\$	3,945.23		4,084.35
49	Proposed Bill		2,465.72	\$	2,541.82		2,630.10	\$	2,718.90	\$	2,820.06	1	3,704.59	\$	3,818.81	\$	3,945.23	\$	4,084.35	\$	4,238.17
<u>50</u> 51	Change (Percent) Change (Dollars)	-	<u>19.9%</u> 408.56		<u>3.1%</u> 76.10	5	3.5%	s	3.4% 88.80	-	<u>3.7%</u> 101.18	h	19.8% \$ 612.85	\$	3.1% 114.22	-	3.3%	\$	3.5% 139.12	\$	3.7% 151.82
屵	Usage (Number of 100 Cubic	1	70.00	1	70.10	ľ	00.20	۴	00.00	ľ	101.10	۲		ب		۲,	140.76	*		۲Ť	
	Feet Units per Month):									L		L						L			
53	7,000	<u> </u>										⊢				-		⊢		-	
54	Meter Sizes: 4", 4", 2", 5/8", 2", 2", 2"	1																L			
55	Current Bill	\$	11,839.12	\$	14,259.99	\$	14,701.87	\$	15,214,75	\$	15,730.42	þ	\$ 17,199.68		20,966.34	\$	21,621.87	\$	22,348.27	\$ 2	3,147.51
56	Proposed Bill	\$	14,259.99	\$	14,701.87	\$	15,214.75	\$	15,730.42	\$	16,317.95	L	\$ 20,966.34		21,621.87	\$	22,348.27	5	23,147.51	\$ 2	4,019.59
57			20.4%		3.1%	-	3.5%		3.4%	-	3.7%		21.9%	e	3.1%	-	726.40		3.6%		3.8% 872.08
58	Change (Dollars) Usage (Number of 100 Cubic	┦╸	2,420.87	1.	441.88	1.	512.88	₽	515.67	┡	587.53	₽	\$ 3,766.66		655.53	┞╸	726.40	⊢ੈ	100.24	۴	072.00
59	Feet Units per Month):	L						L		L											
60	2,800					F		Ē		ļ		F				<u> </u>				_	
	Meter Size: 6" Current Bill	5	5,187.16	-	6,051.22		6,233.67	\$	6,444.75	5	6,657.70		\$ 7,794.74	5	9.090.84	5	9,364.81	5	9,667.43	5 1	0 000 55
62 63			5,187.16 6,051.22		6,051.22						6,899.91			5	9,364.81				10,000.55		
64	Change (Percent)		16.7%		3.0%		3.4%		3.3%		3.6%		16.6%		3.0%		3.2%		3.4%		3.6%
65	Change (Dollars)	\$	864.06	\$	182.45	\$	211.08	\$	212.95	\$	242.21	μ	\$ 1,298.10	ļ	273.97		302.62		333.12	\$	363.62
66		L										L			BAYVIE	W	ANNU	AL	<u>. BILL</u>		
	Usage (Number of 100 Cubic	Γ										Γ						Γ			
	Feet Units per Year):	1											FY 2019		FY 2020	\vdash	FY 2021		FY 2022	ا	Y 2023
68	24,974 Water provided thru a 6" and a	1		1								┢		-		1		1-			
69	12" main. RTS billed as 6"	1																			
70 71	Current Bill												\$ 62,327.68	\$	70,974.68	S					
71	Proposed Bill Change (Percent)			-		-						μ	<u>\$ 70,974.68</u> 13.9%	1	72,940.42	15	75,413.08 3.4%		77,908.18 3.3%		0,683.14 3.6%
72 73	Change (Percent) Change (Dollars)					-		-		-			\$ 8,647.00	5		s					2,774.98
<u>^</u> 3	I cumilite featigies							-	-			<u>n</u> '									

Table W6 Residential Example Water Bills

							сла Т	mple Wa				_				-			-	
	Α	В		C		nside Cit	<u> </u>	E		F	(<u> </u>	~~	H the /De	000	+ 8 P	0.05	Crook	. T.	K
1			40	574.00			1													
2	Lisona (Number of 100 Cubic	FY 20	19	FY 20	20	FY 2021	FY	2022	F	Y 2023	F	Y 2019	F	1 2020	F	r 2021	F	Y 2022	F	Y 2023
3	Usage (Number of 100 Cubic Feet Units per Month):																			
4	0																			_
	Meter Size: 5/8"	_						10.00		12.01	•		_							
6	Current Bill Proposed Bill		20.16 6.37		6.37 6.67	\$ 16.67 \$ 16.99		16.99 17.34		<u>17.34</u> 17.71	5	30.24	\$ \$	24.56 25.01	\$	25.01 25.49	\$ \$	25.49 26.01		26.01 26.57
8	Change (Percent)		8.8%		1.8%	1.9%		2.1%		2.1%	•	-18.8%	•	1.8%	Ť	1.9%	Ť	2.0%	Ť	2.2%
9	Change (Dollars)	\$ ((3.79)	\$	0.30	\$ 0.32	\$	0.35	\$	0.37	\$	(5.68)	\$	0.45	\$	0.48	\$	0.52	\$	0.56
	Usage (Number of 100 Cubic																			
10	Feet Units per Month):																			
11																				
12 13	Meter Size: 5/8" Current Bill	e 2	1.61	\$ 1	8.22	\$ 18.58	s	18.97	\$	19.39	\$	32.42	6	27.34	\$	27.88	e	28.46	s	29.09
14	Proposed Bill		8.22		8.58	\$ 18.97		19.39	\$	19.84	\$	27.34	\$	27.88	\$	28.46	\$	29.09		29.77
15	Change (Percent)		5.7%	-	2.0%	2.1%		2.2%		2.3%		-15.7%		2.0%		2.1%		2.2%		2.3%
16	Change (Dollars)	\$ ((3.39)	\$	0.36	\$ 0.39	\$	0.42	\$	0.45	\$	(5.08)	\$	0.54	\$	0.58	\$	0.63	\$	0.68
	Usage (Number of 100 Cubic		1																	
17	Feet Units per Month):						I		L											
18	2 Meter Size: 5/8"						<u> </u>				<u> </u>								<u> </u>	
19 20	Meter Size: 5/6" Current Bill	\$ 2	23.06	\$ 2	20.07	\$ 20.49	\$	20.95	\$	21.44	\$	34.60	\$	30.12	\$	30.75	\$	31.43	\$	32.17
21	Proposed Bill	\$ 2	20.07	\$2	20.49	\$ 20.95	\$	21.44	\$	21.97	\$	30.12	\$	30.75	\$	31.43	\$	32.17		32.97
22	Change (Percent)		13.0%		2.1%	2.2%		2.3%		2.5%	*	-12.9%	¢	2.1%	e	2.2%	\$	<u>2.4%</u> 0.74	-	2.5%
23	Change (Dollars)	3 ((2.99)	3	0.42	\$ 0.46	\$	0.49	\$	0.53	\$	(4.48)	3	0.63	\$	0.68	<u> </u>	0.74	╞╸	0.80
	Usage (Number of 100 Cubic						1												1	
24	Feet Units per Month):						_		<u> </u>		<u> </u>									
25 26	3 Meter Size: 5/8"						<u> </u>		 _										-	
27	Current Bill		24.51		21.92	\$ 22.40		22.93		23.49	\$	36.78	\$	32.90	\$	33.62	\$	34.40		35.25
28	Proposed Bill		21.92	\$ 2	22.40	\$ 22.93		23.49	\$	24.10	\$	32.90	\$	33.62	\$	34.40	\$	35.25	\$	36.17
29 30	Change (Percent) Change (Dollars)		10.6% (2.59)	\$	2.2% 0.48	<u>2.4%</u> \$ 0.53		2.4%	\$	2.6%	\$	-10.5% (3.88)	\$	2.2%	\$	<u>2.3%</u> 0.78	ŝ	2.5%	\$	2.6%
30	Change (Donais)		2.08	-9	0.40	a 0.03	1	0.50	L.	0.01	-	10.007	<u>v</u>	0.72	Ť		Ť	0.00	Ť	0.02
1	Usage (Number of 100 Cubic																			
31 32	Feet Units per Month):						-		-								<u> </u>			
33	Meter Size: 5/8"						1		-											
34	Current Bill		25.96			\$ 24.31		24.91		25.54	\$	38.96	\$	35.68	\$	36.49	\$	37.37		38.33
35	Proposed Bill		23.77	\$ 2	24.31	\$ 24.91 2.5%	\$	25.54	\$	26.23	\$	35.68	\$	36.49	\$	<u>37.37</u> 2.4%	\$	38.33	\$	39.37 2.7%
36 37	Change (Percent) Change (Dollars)		<u>-8.4%</u> (2.19)	s	2.3% 0.54			0.63		0.69	\$	(3.28)	\$	0.81	\$	0.88	\$	0.96	\$	1.04
Ť	Usage (Number of 100 Cubic	<u> </u>		•	<u></u>		Ť		Ť		Ť									
	Feet Units per Month):														<u> </u>				<u> </u>	
39 40	5 Meter Size: 5/8"										-				-					
41	Current Bill	\$ 2	27.41	\$ 2	25.62			26.89		27.59	\$	41.14	\$	38.46		39.36	\$	40.34		41.41
42	Proposed Bill		25.62	\$ 2	26.22	\$ 26.89		27.59		28.36 2.8%	\$	38.48 -6.5%	\$	<u>39.36</u> 2.3%	\$	40.34	\$	<u>41.41</u> 2.7%	\$	42.57
434	Change (Percent) Change (Dollars)		-6.5% (1.79)	s	2.3%	2.6% \$ 0.67		0.70		0.77	\$	(2.68)	\$	0.90	s	0.98	\$	1.07		1.16
H	Usage (Number of 100 Cubic	ľ –		-			Ť		Ť		<u> </u>									
	Feet Units per Month):																			
46 47	6 Meter Size: 5/8"														-				-	
48	Current Bill		28.86		27.47			28.87		29.64		43.32		41.24		42.23		43.31		44.49
49	Proposed Bill		27.47	\$ 2	28.13			29.64		30.49	\$	41.24	\$	42.23		<u>43.31</u> 2.6%		<u></u>		<u>45.77</u> 2.9%
50 51	Change (Percent) Change (Dollars)		<u>-4.8%</u> (1.39)	ŝ	2.4%			<u>2.7%</u> 0.77		<u>2.9%</u> 0.85	\$	<u>-4.8%</u> (2.08)	\$	2.4%		2.6%		1.18		1.28
	Usage (Number of 100 Cubic	ľ '				<u></u>	Ť		Ť			,_,_,_,								
	Feet Units per Month):														 		┣		┣-	
53 54	7 Meter Size: 5/8"						+		\vdash				-		<u> </u>					
55	Current Bill		30.31		29.32			30.85		31.69		45.50		44.02		45.10		46.28		47.57
56	Proposed Bill		29.32		30.04			31.69		32.62	\$	44.02	\$	45.10		46.28		47.57		48.97
57 58			<u>-3.3%</u> (0.99)		2.5%			<u>2.7%</u> 0.84		2.9% 0.93	\$	<u>-3.3%</u> (1.48)	\$	2.5%	\$	2.6%		1.29		2.9%
	Usage (Number of 100 Cubic	<u> </u>		<u> </u>			Ť		Ť				Ľ.		Ľ		Ĺ		T I	
	Feet Units per Month):	<u> </u>							_		<u> </u>	<u> </u>							_	
60 61	8 Meter Size: 5/8"								╂				-		<u> </u>		├		+	
62	Current Bill	\$ 3	31.76	\$ 3	31.17			32.83		33.74	\$	47.68		46.80		47.97		49.25		50.65
63	Proposed Bill	\$ 3	31.17	\$ 3	31.95	\$ 32.83	\$	33.74	\$	34.75	\$	46.80	\$	47.97		49.25		50.65		<u>52.17</u> 3.0%
64 65			<u>-1.9%</u> (0.59)		2.5% 0.78			<u>2.8%</u> 0.91		<u>3.0%</u> 1.01	s	<u>-1.8%</u> (0.88)	s	2.5%		2.7%		2.8%		1.52
-	Usage (Number of 100 Cubic	<u> </u>	,	İ -		0.00	Ť		Ť		Ľ		Ľ.				1		T I	
	Feet Units per Month):								\vdash		<u> </u>				-		┣─		╂──	
67 68	9 Meter Size: 5/8"	<u> </u>				· · · · · · · · · · · · · · · · · · ·	+		+		—	-			 		1-		+	
69	Current Bill		33.21		33.02			34.81		35.79		49.86		49.58		50.84		52.22		53.73
70			33.02		33.86			35.79		36.88	\$	49.58	\$	50.84		52.22		53.73		55.37
71	Change (Percent) Change (Dollars)		<u>-0.6%</u> (0.19)		2.5% 0.84			2.8%		3.0%	\$	-0.6%	s	<u>2.5%</u> 1.26		2.7%		<u>2.9%</u> 1.51		<u>3.1%</u> 1.64
	Usage (Number of 100 Cubic	<u> </u>		<u> </u>			Ť		Ť		Ľ		Ĺ		Ť		Ĺ		Ĺ	
	Feet Units per Month):	<u> </u>					_		-		 			<u></u>			_		┨──	
74	10 Meter Size: 5/8"	 					+		+				-				-		\vdash	
76	Current Bill		34.66		34.87					Stubliy84		52.04		52.36		53.71		55.19	\$	56.81
	12749-18002 Proposed Bill	\$ 3	34.87	\$ 3	35.77	\$ 36.79	TSotra	a Tôch68i	haîti	Rate39.01	\$	52.36		53.71		55.19		562612	2618	1:88.8M
78 79			0.6%		2.6%			2.9%		<u>3.1%</u> 1.17		0.6%		<u>2.6%</u> 1.35		2.8%		2.9%		<u>3.1%</u> 1.76
19		4	V.41	19	0.50	1.02	14	1.00	19	1.17	4	0.32	<u> </u>	1.33	ιψ I	1.40		1.02	19.	1.70

Table W7 Water Rate Revenue Adequacy

_		_			
1	A	B FY 2	C	D	E
$\frac{1}{2}$	Revenue Required From Rates	Charge	Proposed Rate	Annual Billing Units	Projected Revenue
3		Billing - Inside City	\$ 2.47	36,424	
4		RTS - Inside City	\$ 13.90	48,546	
5		Commodity - Inside City	\$ 1.85	472,867	
6		Billing - Outside City	\$ 3.71	4,522	
78		RTS - Outside City Commodity - Outside City	\$ 20.85 \$ 2.78	10,626 120,414	
9		RTS - Bayview	\$ 1,086.25	120,414	
10		Commodity - Bayview	\$ 2.32	24,974	
11	\$ 2,277,583	TOTAL			\$ 2,283,615
12	\$ 2,277,583			CLOSURE:	\$ 6, <u>032</u>
13	D. D. D. L. J. D. A.	FY 2			Projected Revenue
14 15	Revenue Required From Rates	Charge Billing - Inside City	Proposed Rate \$ 2.54	Annual Billing Units 36,424	
16		RTS - Inside City	\$ 14.13	48,546	
17		Commodity - Inside City	\$ 1.91	472,867	
18		Billing - Outside City	\$ 3.81	4,522	
19		RTS - Outside City	\$ 21.20	10,626	
20		Commodity - Outside City	\$ 2.87	120,414	
21 22	····	RTS - Bayview Commodity - Bayview	\$ 1,104.38 \$ 2.39	12 24,974	
22	\$ 2,339,016	TOTAL	2.55	24,014	\$ 2,342,677
24	\$ 2,339,016			CLOSURE:	\$ 3,660
25		FY 2			
26	Revenue Required From Rates	Charge		Annual Billing Units	Projected Revenue
27		Billing - Inside City RTS - Inside City	\$ 2.62 \$ 14.37	<u> </u>	
28 29		Commodity - Inside City	\$ 1.98	472,867	
30		Billing - Outside City	\$ 3.93	4,522	
31		RTS - Outside City	\$ 21.56	10,626	
32		Commodity - Outside City	\$ 2.97	120,414	
33		RTS - Bayview	\$ 1,123.13	12	
34 35	\$ 2,404,433	Commodity - Bayview TOTAL	\$ 2.48	24,974	\$ 2,409,224
36	\$ 2,404,433	10142		CLOSURE:	
37		FY 2	022		
38	Revenue Required From Rates	Charge	Proposed Rate		
39		Billing - Inside City	\$ 2.70	36,424	
40		RTS - Inside City Commodity - Inside City	\$ 14.64 \$ 2.05	48,546	
41 42		Billing - Outside City	\$ 4.05	4/2,007	
43		RTS - Outside City	\$ 21.96	10,626	
44		Commodity - Outside City		400.444	
45		outerie only	\$ 3.08	120,414	
46		RTS - Bayview	\$ 1,143.75	12	\$ 13,725
4-		RTS - Bayview Commodity - Bayview			\$ 13,725 \$ 64,183
47	\$ 2,474,177 \$ 2,474,177	RTS - Bayview	\$ 1,143.75	12 24,974	\$ 13,725 \$ 64,183 \$ 2,478,880
48	\$ <u>2,474,177</u> \$ <u>2,474,177</u>	RTS - Bayview Commodity - Bayview	\$ 1,143.75 \$ 2.57	12	\$ 13,725 \$ 64,183 \$ 2,478,880
		RTS - Bayview Commodity - Bayview TOTAL	\$ 1,143.75 \$ 2.57 023 Proposed Rate	12 24,974 CLOSURE: Annual Billing Units	\$ 13,725 \$ 64,183 \$ 2,478,880 \$ 4,702 Projected Revenue
48 49 50 51	\$ 2,474,177	RTS - Bayview Commodity - Bayview TOTAL FY 2 Charge Billing - Inside City	\$ 1,143.75 \$ 2.57 023 Proposed Rate \$ 2.78	12 24,974 CLOSURE: Annual Billing Units 36,424	\$ 13,725 \$ 64,183 \$ 2,478,880 \$ 4,702 Projected Revenue \$ 101,259
48 49 50 51 52	\$ 2,474,177	RTS - Bayview Commodity - Bayview TOTAL FY 2 Charge Billing - Inside City RTS - Inside City	\$ 1,143.75 \$ 2.57 0023 Proposed Rate \$ 2.78 \$ 14.93	12 24,974 CLOSURE: Annual Billing Units 36,424 48,546	\$ 13,725 \$ 64,183 \$ 2,478,880 \$ 4,702 Projected Revenue \$ 101,259 \$ 724,792
48 49 50 51 52 53	\$ 2,474,177 Revenue Required From Rates	RTS - Bayview Commodity - Bayview TOTAL FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City	\$ 1,143.75 \$ 2.57 0023 Proposed Rate \$ 2.78 \$ 14.93 \$ 2.13	12 24,974 CLOSURE: Annual Billing Units 36,424 48,546 472,867	\$ 13,725 \$ 64,183 \$ 2,478,880 \$ 4,702 Projected Revenue \$ 101,259 \$ 724,792 \$ 1,007,207
48 49 50 51 52 53 54	\$ 2,474,177 Revenue Required From Rates	RTS - Bayview Commodity - Bayview TOTAL FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City Billing - Outside City	\$ 1,143.75 \$ 2.57 023 Proposed Rate \$ 2.78 \$ 14.93 \$ 2.13 \$ 4.17	12 24,974 CLOSURE: Annual Billing Units 36,424 48,546 472,867 4,522	\$ 13,725 \$ 64,183 \$ 2,478,880 \$ 4,702 Projected Revenue \$ 101,259 \$ 724,792 \$ 1,007,207 \$ 18,857
48 49 50 51 52 53	\$ 2,474,177 Revenue Required From Rates	RTS - Bayview Commodity - Bayview TOTAL FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City	\$ 1,143.75 \$ 2.57 0023 Proposed Rate \$ 2.78 \$ 14.93 \$ 2.13	12 24,974 CLOSURE: Annual Billing Units 36,424 48,546 472,867 4,522	\$ 13,725 \$ 64,183 \$ 2,478,880 \$ 4,702 Projected Revenue \$ 101,259 \$ 724,792 \$ 1,007,207 \$ 18,857 \$ 238,022
48 49 50 51 52 53 54 55	\$ 2,474,177 Revenue Required From Rates	RTS - Bayview Commodity - Bayview TOTAL FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City Billing - Outside City RTS - Outside City Commodity - Outside City RTS - Bayview	\$ 1,143.75 \$ 2.57 023 Proposed Rate \$ 2.78 \$ 14.93 \$ 2.13 \$ 4.17 \$ 22.40 \$ 3.20 \$ 1,166.88	12 24,974 CLOSURE: Annual Billing Units 36,424 48,546 472,867 4,522 10,626 10,626 120,414	\$ 13,725 \$ 64,183 \$ 2,478,880 \$ 4,702 Projected Revenue \$ 101,259 \$ 724,792 \$ 1,007,207 \$ 18,857 \$ 238,022 \$ 385,325 \$ 14,003
48 49 50 51 52 53 54 55 56 57 58	\$ 2,474,177 Revenue Required From Rates	RTS - Bayview Commodity - Bayview TOTAL FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City Billing - Outside City Billing - Outside City RTS - Outside City Commodity - Outside City RTS - Bayview Commodity - Bayview	\$ 1,143.75 \$ 2.57 023 Proposed Rate \$ 2.78 \$ 14.93 \$ 2.13 \$ 4.17 \$ 22.40 \$ 3.20	12 24,974 CLOSURE: Annual Billing Units 36,424 48,546 472,867 4,522 10,626 120,414	\$ 13,725 \$ 64,183 \$ 2,478,880 \$ 4,702 Projected Revenue \$ 101,259 \$ 724,792 \$ 1,007,207 \$ 18,857 \$ 238,022 \$ 385,325 \$ 14,003 \$ 66,681
48 49 50 51 52 53 54 55 56 57 58 59	\$ 2,474,177 Revenue Required From Rates	RTS - Bayview Commodity - Bayview TOTAL FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City Billing - Outside City RTS - Outside City Commodity - Outside City RTS - Bayview	\$ 1,143.75 \$ 2.57 023 Proposed Rate \$ 2.78 \$ 14.93 \$ 2.13 \$ 4.17 \$ 22.40 \$ 3.20 \$ 1,166.88	12 24,974 CLOSURE: Annual Billing Units 36,424 48,546 472,867 4,522 10,626 120,414 12 24,974	\$ 13,725 \$ 64,183 \$ 2,478,880 \$ 4,702 Projected Revenue \$ 101,259 \$ 724,792 \$ 1,007,207 \$ 18,857 \$ 238,022 \$ 385,325 \$ 44,003 \$ 66,681 \$ 2,556,144
48 49 50 51 52 53 54 55 56 57 58 59 60	\$ 2,474,177 Revenue Required From Rates	RTS - Bayview Commodity - Bayview TOTAL FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City Billing - Outside City RTS - Outside City Commodity - Outside City RTS - Bayview Commodity - Bayview TOTAL	\$ 1,143.75 \$ 2.57 023 Proposed Rate \$ 2.78 \$ 14.93 \$ 2.13 \$ 4.17 \$ 22.40 \$ 3.20 \$ 1,166.88 \$ 2.67	12 24,974 CLOSURE: Annual Billing Units 36,424 48,546 472,867 4,522 10,626 10,626 120,414	\$ 13,725 \$ 64,183 \$ 2,478,880 \$ 4,702 Projected Revenue \$ 101,259 \$ 724,792 \$ 1,007,207 \$ 18,857 \$ 238,022 \$ 385,325 \$ 44,003 \$ 66,681 \$ 2,556,144
48 49 50 51 52 53 54 55 56 57 58 59	\$ 2,474,177 Revenue Required From Rates	RTS - Bayview Commodity - Bayview TOTAL FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City Billing - Outside City Billing - Outside City RTS - Outside City Commodity - Outside City RTS - Bayview Commodity - Bayview	\$ 1,143.75 \$ 2.57 023 Proposed Rate \$ 2.78 \$ 14.93 \$ 2.13 \$ 4.17 \$ 22.40 \$ 3.20 \$ 1,166.88 \$ 2.67	12 24,974 CLOSURE: Annual Billing Units 36,424 48,546 472,867 4,522 10,626 120,414 12 24,974	\$ 13,725 \$ 64,183 \$ 2,478,880 \$ 4,702 Projected Revenue \$ 101,259 \$ 724,792 \$ 1,007,207 \$ 18,857 \$ 238,022 \$ 385,325 \$ 44,003 \$ 66,681 \$ 2,556,144
48 49 50 51 52 53 54 55 56 57 58 59 60	\$ 2,474,177 Revenue Required From Rates	RTS - Bayview Commodity - Bayview TOTAL FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City Billing - Outside City RTS - Outside City Commodity - Outside City RTS - Bayview Commodity - Bayview TOTAL	\$ 1,143.75 \$ 2.57 023 Proposed Rate \$ 2.78 \$ 14.93 \$ 2.13 \$ 4.17 \$ 22.40 \$ 3.20 \$ 1,166.88 \$ 2.67	12 24,974 CLOSURE: Annual Billing Units 36,424 48,546 472,867 4,522 10,626 120,414 12 24,974	\$ 13,725 \$ 64,183 \$ 2,478,880 \$ 4,702 Projected Revenue \$ 101,259 \$ 724,792 \$ 1,007,207 \$ 18,857 \$ 238,022 \$ 385,325 \$ 44,003 \$ 66,681 \$ 2,556,144
48 49 50 51 52 53 54 55 56 57 58 59 60 61	\$ 2,474,177 Revenue Required From Rates \$ 2,548,625 \$ 2,548,625	RTS - Bayview Commodity - Bayview TOTAL FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City Billing - Outside City RTS - Outside City RTS - Outside City Commodity - Outside City RTS - Bayview Commodity - Bayview TOTAL FY 2019 t	\$ 1,143.75 \$ 2.57 023 Proposed Rate \$ 2.78 \$ 14.93 \$ 2.13 \$ 4.17 \$ 22.40 \$ 3.20 \$ 1,166.88 \$ 2.67 • 0 FY2023	12 24,974 CLOSURE: Annual Billing Units 36,424 48,546 472,867 4,522 10,626 120,414 12 24,974 CLOSURE:	\$ 13,725 \$ 64,183 \$ 2,478,880 \$ 4,702 Projected Revenue \$ 101,259 \$ 724,792 \$ 1,007,207 \$ 18,857 \$ 238,022 \$ 385,325 \$ 14,003 \$ 66,681 \$ 2,556,144 \$ 7,519
48 49 50 51 52 53 54 55 56 57 58 59 60 61 62	\$ 2,474,177 Revenue Required From Rates	RTS - Bayview Commodity - Bayview TOTAL FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City RTS - Outside City RTS - Outside City Commodity - Outside City RTS - Bayview Commodity - Bayview TOTAL FY 2019 to Charge	\$ 1,143.75 \$ 2.57 023 Proposed Rate \$ 2.78 \$ 14.93 \$ 2.13 \$ 4.17 \$ 22.40 \$ 3.20 \$ 1,166.88 \$ 2.67 • 0 FY2023	12 24,974 CLOSURE: Annual Billing Units 36,424 48,546 472,867 4,522 10,626 120,414 12 24,974	\$ 13,725 \$ 64,183 \$ 2,478,880 \$ 4,702 Projected Revenue \$ 101,259 \$ 724,792 \$ 1,007,207 \$ 18,857 \$ 238,022 \$ 385,325 \$ 14,003 \$ 66,681 \$ 2,556,144 \$ 7,519 Projected Revenue
48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63	\$ 2,474,177 Revenue Required From Rates \$ 2,548,625 \$ 2,548,625 \$ 2,548,625 \$ 2,548,625 \$ 2,548,625	RTS - Bayview Commodity - Bayview TOTAL FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City Billing - Outside City RTS - Outside City RTS - Dutside City RTS - Bayview Commodity - Bayview TOTAL FY 2019 t Charge Billing - Inside City	\$ 1,143.75 \$ 2.57 023 Proposed Rate \$ 2.78 \$ 14.93 \$ 2.13 \$ 4.17 \$ 22.40 \$ 3.20 \$ 1,166.88 \$ 2.67 • 0 FY2023	12 24,974 CLOSURE: Annual Billing Units 36,424 48,546 472,867 4,522 10,626 120,414 12 24,974 CLOSURE:	\$ 13,725 \$ 64,183 \$ 2,478,880 \$ 4,702 Projected Revenue \$ 101,259 \$ 724,792 \$ 1,007,207 \$ 18,857 \$ 238,022 \$ 385,325 \$ 14,003 \$ 66,681 \$ 2,556,144 \$ 7,519 Projected Revenue \$ 477,519
48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64	\$ 2,474,177 Revenue Required From Rates \$ 2,548,625 \$ 2,548,625 \$ 2,548,625 Revenue Required From Rates	RTS - Bayview Commodity - Bayview TOTAL FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City RTS - Outside City RTS - Outside City RTS - Bayview Commodity - Bayview TOTAL FY 2019 to Charge Billing - Inside City RTS - Inside City	\$ 1,143.75 \$ 2.57 023 Proposed Rate \$ 2.78 \$ 14.93 \$ 2.13 \$ 4.17 \$ 22.40 \$ 3.20 \$ 1,166.88 \$ 2.67 • 0 FY2023	12 24,974 CLOSURE: Annual Billing Units 36,424 48,546 472,867 4,522 10,626 120,414 12 24,974 CLOSURE:	\$ 13,725 \$ 64,183 \$ 2,478,880 \$ 4,702 Projected Revenue \$ 101,259 \$ 724,792 \$ 1,007,207 \$ 18,857 \$ 238,022 \$ 385,325 \$ 14,003 \$ 66,681 \$ 2,556,144 \$ 7,519 Projected Revenue \$ 477,519 \$ 3,493,856
48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63	\$ 2,474,177 Revenue Required From Rates \$ 2,548,625 \$ 2,548,625 \$ 2,548,625 Revenue Required From Rates	RTS - Bayview Commodity - Bayview TOTAL FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City Billing - Outside City RTS - Outside City RTS - Dutside City RTS - Bayview Commodity - Bayview TOTAL FY 2019 t Charge Billing - Inside City	\$ 1,143.75 \$ 2.57 023 Proposed Rate \$ 2.78 \$ 14.93 \$ 2.13 \$ 4.17 \$ 22.40 \$ 3.20 \$ 1,166.88 \$ 2.67 • 0 FY2023	12 24,974 CLOSURE: Annual Billing Units 36,424 48,546 472,867 4,522 10,626 120,414 12 24,974 CLOSURE:	\$ 13,725 \$ 64,183 \$ 2,478,880 \$ 4,702 Projected Revenue \$ 101,259 \$ 724,792 \$ 1,007,207 \$ 18,857 \$ 238,022 \$ 385,325 \$ 14,003 \$ 66,681 \$ 2,556,144 \$ 7,519 Projected Revenue \$ 477,519 \$ 3,493,856
48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65	\$ 2,474,177 Revenue Required From Rates \$ 2,548,625 \$ 2,548,625 Revenue Required From Rates	RTS - Bayview Commodity - Bayview TOTAL FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City RTS - Outside City RTS - Outside City Commodity - Bayview Commodity - Bayview TOTAL FY 2019 to Charge Billing - Inside City RTS - Inside City Commodity - Inside City RTS - Inside City RTS - Inside City Commodity - Inside City RTS - Outside City RTS - Outside City RTS - Outside City RTS - Outside City	\$ 1,143.75 \$ 2.57 023 Proposed Rate \$ 2.78 \$ 14.93 \$ 2.13 \$ 4.17 \$ 22.40 \$ 3.20 \$ 1,166.88 \$ 2.67 • 0 FY2023	12 24,974 CLOSURE: Annual Billing Units 36,424 48,546 472,867 4,522 10,626 120,414 12 24,974 CLOSURE:	\$ 13,725 \$ 64,183 \$ 2,478,880 \$ 4,702 Projected Revenue \$ 101,259 \$ 724,792 \$ 1,007,207 \$ 18,857 \$ 238,022 \$ 385,325 \$ 14,003 \$ 66,681 \$ 2,556,144 \$ 7,519 Projected Revenue \$ 477,519 \$ 3,499,856 \$ 4,690,841 \$ 88,948 \$ 1,147,289
48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68	\$ 2,474,177 Revenue Required From Rates \$ 2,548,625 \$ 2,548,625 \$ 2,548,625 Revenue Required From Rates	RTS - Bayview Commodity - Bayview TOTAL FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City RTS - Outside City RTS - Outside City Commodity - Outside City RTS - Bayview Commodity - Bayview TOTAL FY 2019 to Charge Billing - Inside City RTS - Inside City Commodity - Inside City Billing - Outside City Billing - Outside City RTS - Outside City Billing - Outside City Commodity - Outside City	\$ 1,143.75 \$ 2.57 023 Proposed Rate \$ 2.78 \$ 14.93 \$ 2.13 \$ 4.17 \$ 22.40 \$ 3.20 \$ 1,166.88 \$ 2.67 • 0 FY2023	12 24,974 CLOSURE: Annual Billing Units 36,424 48,546 472,867 4,522 10,626 120,414 12 24,974 CLOSURE:	\$ 13,725 \$ 64,183 \$ 2,478,880 \$ 4,702 Projected Revenue \$ 101,259 \$ 724,792 \$ 1,007,207 \$ 18,857 \$ 238,022 \$ 385,325 \$ 14,003 \$ 66,681 \$ 2,556,144 \$ 7,519 Projected Revenue \$ 477,519 \$ 3,493,856 \$ 4,690,841 \$ 8,948 \$ 1,147,289 \$ 1,794,169 \$
48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69	\$ 2,474,177 Revenue Required From Rates \$ 2,548,625 \$ 2,548,625 \$ 2,548,625 Revenue Required From Rates	RTS - Bayview Commodity - Bayview TOTAL FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City RTS - Outside City Commodity - Outside City RTS - Bayview Commodity - Bayview TOTAL FY 2019 t Charge Billing - Inside City RTS - Inside City RTS - Inside City RTS - Inside City RTS - Outside City Billing - Outside City RTS - Bayview	\$ 1,143.75 \$ 2.57 023 Proposed Rate \$ 2.78 \$ 14.93 \$ 2.13 \$ 4.17 \$ 22.40 \$ 3.20 \$ 1,166.88 \$ 2.67 • 0 FY2023	12 24,974 CLOSURE: Annual Billing Units 36,424 48,546 472,867 4,522 10,626 120,414 12 24,974 CLOSURE:	\$ 13,725 \$ 64,183 \$ 2,478,880 \$ 4,702 Projected Revenue \$ 101,259 \$ 724,792 \$ 1,007,207 \$ 18,857 \$ 238,022 \$ 385,325 \$ 14,003 \$ 66,681 \$ 2,556,144 \$ 7,519 Projected Revenue \$ 477,519 Projected Revenue \$ 477,519 Projected Revenue \$ 477,519 \$ 3,493,856 \$ 4,690,841 \$ 8 1,147,289 \$ 1,794,169 \$ 67,493 \$
48 49 50 51 52 53 54 55 57 58 59 60 61 62 63 64 65 66 67 68 69 70	\$ 2,474,177 Revenue Required From Rates \$ 2,548,625 \$ 2,548,625 \$ 2,548,625 Revenue Required From Rates	RTS - Bayview Commodity - Bayview TOTAL FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City RTS - Outside City RTS - Outside City Commodity - Bayview Commodity - Bayview TOTAL FY 2019 to Charge Billing - Inside City RTS - Inside City RTS - Inside City Commodity - Inside City Billing - Outside City RTS - Outside City Commodity - Inside City RTS - Outside City RTS - Outside City Commodity - Outside City RTS - Bayview Commodity - Outside City	\$ 1,143.75 \$ 2.57 023 Proposed Rate \$ 2.78 \$ 14.93 \$ 2.13 \$ 4.17 \$ 22.40 \$ 3.20 \$ 1,166.88 \$ 2.67 • 0 FY2023	12 24,974 CLOSURE: Annual Billing Units 36,424 48,546 472,867 4,522 10,626 120,414 12 24,974 CLOSURE:	\$ 13,725 \$ 64,183 \$ 2,478,880 \$ 4,702 Projected Revenue \$ 101,259 \$ 724,792 \$ 10,07,207 \$ 18,857 \$ 238,022 \$ 385,325 \$ 14,003 \$ 66,681 \$ 2,556,144 \$ 7,519 Projected Revenue \$ 477,519 Projected Revenue \$ 477,519 \$ 3,493,856 \$ 4,690,841 \$ 8 8,948 \$ 1,147,289 \$ 1,794,169 \$ 1,794,169 \$ 3,04,427 \$ } \$ 310,427 } \$ 310,427 } \$ 310,427 } \$ 310,427 } \$ 310,427 } \$ 310,427 } \$ 30,042 } \$ 30,0427 } \$ 30,0427 } \$ 30,0427 } \$ 30,0427 } \$ 30,0427 } \$ 30,0427 } \$ 30,042 } \$ 30,042 } \$ 30,042 } \$ 30,042 } \$ 30,042 } \$ 30,042 } \$ 30,042 } \$ 30,042 } \$ 30,042 } \$ 30,042 } \$ 30,042 } \$ 30,042 } \$ 30,042 } \$ 30,042 } \$ 30,042 } \$ 30,042 } \$ 30,042 } \$ 30,042 } \$ 30,042 } } \$ 30,042 } \$ 30,042 } \$ 30,042 } \$ 30,042 } \$ 30,042 } \$ 30,042 } \$ 30,042 }
48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69	\$ 2,474,177 Revenue Required From Rates \$ 2,548,625 \$ 2,548,625 Revenue Required From Rates \$ 12,043,835	RTS - Bayview Commodity - Bayview TOTAL FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City RTS - Outside City Commodity - Outside City RTS - Bayview Commodity - Bayview TOTAL FY 2019 t Charge Billing - Inside City RTS - Inside City RTS - Inside City RTS - Inside City RTS - Outside City Billing - Outside City RTS - Bayview	\$ 1,143.75 \$ 2.57 023 Proposed Rate \$ 2.78 \$ 14.93 \$ 2.13 \$ 4.17 \$ 22.40 \$ 3.20 \$ 1,166.88 \$ 2.67 • 0 FY2023	12 24,974 CLOSURE: Annual Billing Units 36,424 48,546 472,867 4,522 10,626 120,414 12 24,974 CLOSURE:	\$ 13,725 \$ 64,183 \$ 2,478,880 \$ 4,702 Projected Revenue \$ 101,259 \$ 724,792 \$ 1,007,207 \$ 18,857 \$ 238,022 \$ 385,325 \$ 14,003 \$ 66,681 \$ 2,556,144 \$ 7,519 Projected Revenue \$ 477,519 \$ 3,493,856 \$ 4,690,841 \$ 8 8,948 \$ 1,147,289 \$ 1,147,289 \$ 1,147,289 \$ 3,10,427 \$ 310,427 \$ 12,070,540 }

1	Α	B Table W7 Water Rate Reve fice 2	646	С	D Wa	S rate study 2018 - 1
2	Revenue Required From Rates	Charge		roposed Rate	Annual Billing Units	Projected Revenue
3		Billing - Inside City	\$	2.47	36,424	
4		RTS - Inside City	\$	13.90	48,546	
5		Commodity - Inside City	\$	1.85	472,867	\$ 874,80
6		Billing - Outside City	\$	3.71	4,522	
7		RTS - Outside City	\$	20.85	10,626	\$ 221,55
8		Commodity - Outside City	\$	2.78	120,414	
9		RTS - Bayview	\$	1,086.25	12	\$ 13,03
10		Commodity - Bayview	\$	2.32	24,974	\$ 57,94
11	\$ 2,277,583	TOTAL				\$ 2,283,61
12	\$ 2,277,583				CLOSURE:	\$ 6,03
13		FY 2	020)		
14	Revenue Required From Rates	Charge		roposed Rate	Annual Billing Units	Projected Revenu
15		Billing - Inside City	\$	2.54	36.424	
16		RTS - Inside City	Ś	14.13	48,546	\$ 685,95
17		Commodity - Inside City	\$	1.91	472,867	
18		Billing - Outside City	Š	3.81	4,522	
19		RTS - Outside City	ŝ	21.20	10,626	
20		Commodity - Outside City	\$	2.87	120,414	
21	·····	RTS - Bayview	\$	1,104.38	120,414	
			ŝ		24,974	
22	0.000.010	Commodity - Bayview	3	2.39	24,974	
23		TOTAL	<u> </u>			\$ 2,342,67
24	\$ 2,339,016				CLOSURE:	\$ 3,66
25		FY 2				
26	Revenue Required From Rates	Charge		roposed Rate	Annual Billing Units	
27		Billing - Inside City	\$	2.62	36,424	
28		RTS - Inside City	\$	14.37	48,546	
29		Commodity - Inside City	\$	1.98	472,867	
30		Billing - Outside City	\$	3.93	4,522	\$ 17,77
31		RTS - Outside City	\$	21.56	10,626	
32		Commodity - Outside City	\$	2.97	120,414	\$ 357,63
33		RTS - Bayview	\$	1,123.13	12	
34		Commodity - Bayview	ŝ	2.48	24,974	
	\$ <u>2404.422</u>	TOTAL	Ð	2.40	24,574	\$ 2,409,22
35		TUTAL				
36	\$ 2,404,433				CLOSURE:	\$ 4,79
37		FY 2				
38	Revenue Required From Rates	Charge	-	roposed Rate	Annual Billing Units	
39		Billing - Inside City	\$	2.70	36,424	
40		RTS - Inside City	\$	14.64	48,546	
41		Commodity - Inside City	\$	2.05	472,867	
42		Billing - Outside City	\$	4.05	4,522	\$ 18,3 [.]
43		RTS - Outside City	\$	21.96	10,626	\$ 233,34
44		Commodity - Outside City	\$	3.08	120,414	\$ 370,87
45		RTS - Bayview	\$	1,143.75	12	\$ 13,72
46		Commodity - Bayview	Ŝ		24,974	\$ 64,18
47		TOTAL	Ť			\$ 2,478,8
48					CLOSURE:	
49	Ψ 2,474,177	FY 2	022	1	OECODI(E:	<u>[</u> Ψ = +, / Υ
50	Revenue Required From Rates				Annual Billing Units	Broloctod Boyon
	Revenue Required From Rates	Charge	_	roposed Rate		
51		Billing - Inside City	\$	2.78	36,424	
52		RTS - Inside City	\$		48,546	
53		Commodity - Inside City	\$	2.13	472,867	
54		Billing - Outside City	\$		4,522	
55		RTS - Outside City	\$	22.40	10,626	
56		Commodity - Outside City	\$	3.20	120,414	
57		RTS - Bayview	\$	1,166.88	12	
58		Commodity - Bayview	\$	2.67	24,974	\$ 66,6
59	\$ 2,548,625	TOTAL				\$ 2,556,14
60					CLOSURE:	\$ 7,5
		FY 2019 t	0 F)	Y2023		
61		FY 2019 t	0 F	Y2023		
62	Revenue Required From Rates	Charge	P	roposed Rate	Annual Billing Units	Projected Reven
63		Billing - Inside City	†			\$ 477,5
64		RTS - Inside City	H			\$ 3,493,8
		Commodity - Inside City	┣──			\$ 4,690,8
65						
65 66		Billing - Outside City RTS - Outside City	┣			
66			ł.			\$ 1,147,2
66 67						
66 67 68		Commodity - Outside City	-	A		
66 67 68 4891	8002	Commodity - Outside City RTS - Bayteley Water Rat				\$ 67.49
66 67 68 4991 70	3002	Commodity - Outside City RTS - Elegtoelrey Water Rat Commodity eleasticek Smar				\$ 67,49 \$ 12/12/2013010;34
66 67 68 4891	3002 \$ 12,043,835	Commodity - Outside City RTS - Bayteley Water Rat			CLOSURE:	\$ 67,49 \$ 12/12/201810,39 \$ 12,070,54

Table W8 Local Replacement Value of Water Facilities

Asset No.	Facility Name/Location	Year	ENR Factor in Year Acquired	Usefui Lifo (Yrs)	Total Amount Paid (\$)	Amount Locally Paid (\$)	ENR Factor to Septembe Others Paid r, 2018	Local Replacement Value September, 2018 (\$)
Land & Rights	Strathmore Well Purchase	2009	8,570	25	260,795	260,795	0 1.3034	339,919
592-020-310.95.01	Beginning Balances	1995	. 0,370	0	20,610	20,610	0	20,610
592-020-310.10.01 592-020-310.96.01	Petoskey School Well Site Water Storage Tank Site	2010 1996	•	0	199,874 503,138	199,874 503,138	0	<u>199,874</u> 503,138
Pumping System		1990	•		505,150			
592-020-321.00.01 592-020-321.06.01	Structures & Imp 1958 - 1969 Anderson Rd. Wellsite	1969 2006	1,300 7,751	25 20	117,471 37,495	117,471 37,495	0 8.5925 0 1.4411	1,009,372 54,034
592-020-321.00.01	Well monitoring - Waterfront S	2008	7,967	20	41,794	41,794	0 1.4021	58,598
592-020-321.10.02	Production Weils-Intertown	2010	•		179,526			
592-020-321.10.03 592-020-321.10.04	Bay Harbor-Proserve Wells Northman Drive Wells	2010 2010	+		594,785 101,109		•	
592-020-321.10.05	Ingelis Pump Station	2010	••••••••••••••••••••••••••••••••••••••	•	13,887	• • • • • • • • • • • • • • • • • • • •	• • • • • •	
592-020-321.11.01 592-020-321.11.02	Preserve Wells Northman Drive Wells	2011 2011	•	•	239,715	• • • • • • • • • • • • • • • • • • • •	•••	
592-020-321.11.03	Ingelis Pump Station - Renovations	2011	•	•	219,002	•	•	
592-020-321.80.01 592-020-321.83.01	Improvements - 1980 Jobs 317 & 416	1980 1983	3,237	25	2,433 73,164	2,433	0 3.4505 0 2.7485	8,395 200,941
592-020-321.84.01	Job 546 Chlorinator	1984	4,148	25	7,485	7,485	0 2.6930	20,157
592-020-321.85.01	Job 443 Pump house	1985	4,194	25	188,829	188,829	0 2.6637 0 2.6637	502,978
592-020-321.85.02 592-020-321.87.01	Final on Pumphouse Imp	1985 1987	4,194 4,392	25 25	1,959	1,959 100	0 2.6637 0 2.5432	<u>5,218</u> 254
592-020-321.89.01	Job 886 Test Wells	1989	4,606	25	38,410	38,410	0 2.4250	93,145
592-020-321.90.01 592-020-321.91.01	Job 178 Landscaping Pumphouse Improvements 1991	1990 1991	4,728 4,834	25 25	34,127 2,867	34,127 2,867	0 2.3628	80,634 6,624
592-020-321.94.01	Job 571	1994	5,410	10	2,626	2,626	0 2.0648	5,422
592-020-321.95.01 592-020-321.95.02	Aurora GSS Pump Neptune chemical Mixer	1995 1995	5,471 5,471	5	1,691 3,939	1,691 3,939	0 2.0417	3,453 8.042
592-020-321.96.02	Chlorinators (2)	1996	5,618	5	2,815	2,815	0 1.9883	5,597
592-020-321.96.04	Townsend Road Site Preserve Drive Well Site	1996	5,618	40	100,000 325,000	99,999 324,998	1 1.9883 2 1.9883	198,826 646,186
592-020-321.96.07 592-020-321.96.08	Bay Harbor Watermains, Easemen	1996 1996	5,618 5,618	40	1,625,000	1,624,997	3 1.9883	3,230,946
592-020-321.97.01	50 Gallon Tank with Mixer	1997	5,823	5	1,064	1,064	0 1.9183	2,041
592-020-321.98.01 592-020-321.99.01	Bay Harbor Wells/Job 676 Booster Station US 31	1998 1999	5,920 6,059	30 10	531,852 26,192	531,852 26,192	0 1.8869	1,003,575 48,283
592-020-321.99.02	Ingali's Pump Rebuild	1999	6,059	10	15,764	15,764	0 1.8434	29,060
592-020-325.65.01 592-020-325.75.01	Pump Equipment 1956 - 1965 Pump Equipment	1965 1975	971 2,212	33	36,290 1,461	36,290 1,461	0 11.5039 0 5.0499	<u>417,476</u> 7,378
592-020-325.78.01	Pump Equipment - 1978	1978	2,776	10	39	39	0 4.0239	157
592-020-325.79.01	Pump Equipment Pump Equipment - 1980	1979 1980	3,003 3,237	33	4,569 22,048	4,569	0 3.7201 0 3.4505	16,997 76,070
592-020-325.80.01 592-020-325.81.01	Pump Equipment - 1981	1980	3,533	33	1,353	1,353	0 3.1614	4,277
592-020-325.82.01	Pump Equipment - 1982	1982	3,816	33	1,555	1,555	0 2.9272	4,552
592-020-325.83.01 592-020-325.84.01	Pump Equipment - 1983 Pump Equipment - 1984	1983 1984	4,067	10	104	104	0 2.7465 0 2.6930	286 3,700
592-020-325.85.01	Pump Equipment - 1985	1985	4,194	33	5,663	5,663	0 2.6637	15,084
592-020-325.88.01 592-020-325.87.01	Pump Equipment - 1986 Pump Equipment - 1987	1986 1987	4,287	33	5,111 78,456	5,111 78,456	0 2.6055	<u>13,317</u> 199,530
592-020-325.89.01	Pump Equipment - 1989	1989	4,606	33	34,056	34,056	0 2.4250	82,587
592-020-325.90.01 592-020-325.92.01	Pump Equipment - 1990 Pump Equipment - 1992	1990 1992	4,728	33	29,010	29,010 339	0 2.3628	68,544 760
592-020-325.94.01	Pump Equipment - 1994	1994	5,410	33	8,536	8,536	0 2.0648	17,625
592-020-321.12.06 592-020-321.12.07	Nothman Drive Wells-2012 Ingails Pump Station	2012	9,308	25 25	99,710 81,573	99,709 81,571	1 <u>1.2001</u> 2 1.2001	119,656 97,890
592-020-321.16.01	Water Tower Painting US-131	2016	10,339	20	293,254	293,251	3 1.0804	316,836
Distribution System 592-020-342.00.01	Meters	2000	6,221	10	13,759	13,759	0 1.7955	24,705
592-020-342.00.02	Watermain Anderson Road	2000	6,221	30	92,422	92,422	0 1.7955	165,947
592-020-342.01.01	Watermain E of Middle School	2001	6,342	30	33,161	33,161 13,763	0 1.7613	58,406
592-020-342.02.01 592-020-342.02.02	Middle & High School Main Spencer & Quinlan St Main	2002 2002	6,538 6,538	50 50	13,763 59,996	59,996	0 1.7085 0 1.7085	23,515
592-020-342.03.01	Atkins Rd Watermain Extension	2003	6,695	50	261,454	261,454	0 1.6685	438,247
592-020-342.03.02 592-020-342.03.03	Belle Ave Reconstruction Standish Avenue	2003 2003	6,695 6,695	50 50	116,963 85,434	116,963 85,434	0 1.6685	195,157 142,550
592-020-342.03.04	Hill Street	2003	6,695	50	27,608	27,608	0 1.6685	46,065
592-020-342.03.05	Spruce Street	2003	6,695	50 50	69,539		0 1.6685	<u>116,029</u> 17,436
592-020-342.03.06 592-020-342.03.07	Hoffman, Lindel & Karmol Ct	2003	6,695 6,695	50	10,450 4,420		0 1.6685	7,375
592-020-342.03.08	Anderson Lane - Hydrants	2003	6,695	25	8,840		0 1.6685	14,750
592-020-342.05.01 592-020-342.06.02	W. Lake St. Water main Watermain Liberty/W Jefferson	2005	7,444 7,751	20	462,234 183,740		0 1.5005 0 1.4411	693,604 264,788
592-020-342.07.01	Watermain - Liberty, Madison Grac	2007	7,987	20	85,793	85,793	0 1.4021	120,288
592-020-342.07.02 592-020-342.07.03	Watermain - Resort Pike 16" Watermain - Chx, Maple, Branch	2007 2007	7,967	20	32,235 37,062		0 1.4021	<u>45,196</u> 51,964
592-020-342.07.04	Watermain - Lincoln Place	2007	7,967	20	77,408	77,408	0 1.4021	108,532
592-020-342.07.05	Watermain - East Mitchell East Mitchell Watermain	2007 2008	7,967 8,310	20 20	52,520		0 1.4021 0 1.3442	73,637
592-020-342.08.01 592-020-342.10.06	E. Mitchell Watermain	2008	8,799	20	781,713 26,107		0 1.3442 0 1.2695	33,143
592-020-342.10.07	System Wide Upgrade Wachtel, Jackson, Ione Watermain	2010	8,799	20	43,968	43,968	0 1.2695	55,818
592-020-342.10.08 592-020-342.11.01	Atkins/Kalamazoo Watermain	2010 2011	8,799	20 25	141,778 115,756	141,778 115,758	0 1.2695	179,989 142,564
592-020-342.66.01	Storage Reservoir 66-83	1966	1,019	33	79,329	79,329	0 10.9620	869,605
592-020-342.87.01 592-020-342.94.01	Job 679 Lockwood 1987 Job 545 Water Taps 1994	1987 1994	4,392 5,410	33 10	419,548 2,534		0 2.5432 0 2.0648	1,066,991 5,232
592-020-342.94.02	Job 565 Street Project	1994	5,410	10	23,066	23,066	0 2.0648	47,627
592-020-342.95.01 592-020-342.95.02	Rockwell Meters - 60 Job 643 Water Taps - 95	1995 1995	5,471 5,471	10 10	3,597 243		0 2.0417 0 2.0417	7,344 496
592-020-342.97.01	4" Sensus Meter	1997	5,823	10	2,832	2,832	0 1.9183	5,433
592-020-342.97.02	Ingalls Wellhouse Landscape	1997	5,823	10	2,704	2,704	0 1.9183	5,187
592-020-342.97.03 592-020-342.97.04	CBD Water Mains & Services Lake/US 31 Watermain	1997 1997	5,823 5,823	30 30	183,145 29,431		0 1.9183 0 1.9183	351,334 56,459
592-020-342.98.01	Bay Harbor Watermains Job	1998	5,920	40	531,852	531,852	0 1.8869	1,003,575
592-020-342.98.02 592-020-342.98.03	(2) 4" Meters	1998	5,920	40	3,919,335 6,611		0 1.8869	7,395,563 12,475
592-020-342.99.01		Potoskoy	Water Stat	to Study	87,547	87,547	0 1.8434	164398
592-020-342.99.02 592-020-343.58.01	Watermain - Friendship Cent Mains 1958	1999 1958	ech 57751 8,059 759	· · · · · · · · · · · · · · · · · · ·	3,645 43,036		0 1.8434	6,719 633,365
	INVERSE FOR O	1000	759	66	40,030	43,030	U 14./1/1	000,000

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Table W8 Local Replacement Value of Water Facilities

sset No. 22-020-343.60.01 22-020-343.61.01 22-020-343.62.01 22-020-343.64.01	Facility Name/Location	Acquired					Septembe	September
92-020-343.61.01 92-020-343.62.01	Mains 1960	1960	Acquired 824	(Yrs) 66	Paid (\$) 9,727	Paid (\$) 9,727	Others Paid r, 2018 0 13.5562	<u>2018 (\$)</u> 131,86
	Mains 1961	1961	847	66	781	781	0 13.1881	10,30
32-020-343.64.01	Mains 1962	1962	872	66	7,681	7,681	0 12.8100	98,39
	Mains 1964	1964	936	66	13,460	13,460	0 11.9341	160,63
92-020-343.65.01	Mains 1965	1965 1966	971	66 66	13,346	13,346 42,590	0 11.5039	153,53
92-020-343.66.01 92-020-343.67.01	Mains 1966 Mains 1967	1967	1,019	66	42,590 30,879	30,879	0 10.9020	466,87
2-020-343.68.01	Mains 1968	1968	1,155	66	4,174	4,174	0 9.6712	40,36
2-020-343.69.01	Mains 1969	1969	1,300	66	8,412	8,412	0 8.5925	72,28
92-020-343.70.01	Mains 1970	1970	1,450	66	12,894	12,894	0 7.7036	99,33
2-020-343.71.01	Mains 1971	1971	1,581	66	4,343	4,343	0 7.0653	30,68
2-020-343.72.01	Mains 1972	1972	1,753	66	51,178	51,178	0 6.3721	326,11
2-020-343.73.01	Mains 1973	. 1973 1974	1,900 2,020	66 66	42,053	42,053 7,858	0 5.8791 0 5.5298	247,23
02-020-343.74.01 02-020-343.75.01	Mains 1974 Mains 1975	1975	2,212	66	7,858 20,422	20,422	0 5.0499	43,45
2-020-343.76.01	Mains 1976	1976	2,400	66	7,176	7,176	0 4.6544	33,40
2-020-343.77.01	Mains 1977	1977	2,577	66	25,680	25,680	0 4.3352	111,32
2-020-343.78.01	Mains 1978	1978	2,776	66	12,636	12,636	0 4.0239	50,84
2-020-343.79.01	Mains 1979	1979	3,003	66	148,842	148,842	0 3.7201	553,7
2-020-343.80.01	Mains 1980	1980	3,237	66	22,238	22,238	0 3.4505	76,73
2-020-343.83.01	Mains 1983	1983	4,067	66	84,150	84,150	0 2.7465	231,1
2-020-343.84.01	Mains 1984	. 1984 1986	4,148	<u>66</u> 15	316,679	316,679	0 2.6930 0 2.6055	852,84 30,14
2-020-343.86.01 2-020-343.87.01	Hydraulic Valve Opener Job 688 Mitchell to Lockwo	1987	4,287	66	11,571 298,326	<u>11,571</u> 298,326	0 2.5432	758,70
2-020-343.87.02	Job713 Bay Street	1987	4,392	66	55,338	55,338	0 2.5432	140,7
2-020-343.87.03	Job 851 & Job 873	1987	4,392	66	11,482	11,482	0 2.5432	29,2
2-020-343.89.01	Job 103 & Job 910	1989	4,606	66	4,065	4,065	0 2.4250	9,8
2-020-343.90.01	Job 170 City Hall Water Serv	1990	4,728	66	25,352	25,352	0 2.3628	59,9
2-020-343.91.01	Mains 1991	1991	4,834	66	2,793	2,793	0 2.3106	6,4
2-020-343.92.01	Mains 1992	1992	4,985	66	31,620	31,620	0 2.2410 0 2.1437	70,8
2-020-343.93.01	Mains 1993	1993	5,211	66	15,424	15,424	0 2.0648	33,0
2-020-343.94.01 2-020-343.94.02	Mains 1994 Job 592	1994 1994	5,410 5,410	66 66	2,186	2,186 14,422	0 2.0648	4,5
2-020-345.58.01	New Services 1958	1958	759	66	16,182	16,182	0 14.7171	238,1
2-020-345.65.01	New Services 1962/1965	1965	971	10	837	837	0 11.5039	9,6
2-020-345.66.01	New Services 1966	1966	1,019	66	1,067	1,067	0 10.9620	11,6
2-020-345.67.01	New Services 1967	1967	1,074	66	1,635	1,635	0 10.4006	17,0
2-020-345.68.01	New Services 1968	1968	1,155	66	1,833	1,833	0 9.6712	17,7
2-020-345.69.01	New Services 1969	1969	1,300	10	881	881	0 8.5925	7,5
2-020-345.70.01	New Services 1970	1970	1,450	66	3,288	3,288	0 7.7036	25,3
2-020-345.71.01	New Services 1971	1971	1,581	66	3,062	3,062	0 7.0653	21,6 17,2
2-020-345.72.01	New Services 1972 New Services 1973	. 1972 1973	1,753	66 66	2,713 6,743	2,713 6,743	0 5.8791	39,6
2-020-345.73.01 2-020-345.74.01	New Services 1974	1974	2,020	66	2,222	2,222	0 5.5298	12,2
2-020-345.75.01	New Services 1975	1975	2,212	66	2,444	2,444	0 5.0499	12,3
2-020-345.76.01	New Services 1976	1976	2,400	66	4,049	4,049	0 4.6544	18,8
2-020-345.77.01	New Services 1977	1977	2,577	66	6,722	6,722	0 4.3352	29,1
2-020-345.78.01	New Services 1978	1978	2,776	66	7,410	7,410	0 4.0239	29,8
2-020-345.79.01	New Services 1979	1979	3,003	66	4,133	4,133	0 3.7201	15,3
2-020-345.80.01	New Services 1980	1980	3,237	66	3,561	3,561	0 3.4505	<u>12,2</u> 33,4
2-020-345.81.01	New Services 1981 New Services 1982	1981 1982	3,533 3,816	66 66	10,593 4,141	<u>10,593</u> 4,141	0 2.9272	12,1
2-020-345.82.01 2-020-345.83.01	New Services 1983	1983	4,067	66	5,374	5,374	0 2.7465	14,7
2-020-345.84.01	Job 506	1984	4,148	66	5,081	5,081	0 2.6930	13,6
2-020-345.85.01	Job 627	1985	4,194	66	1,578	1,578	0 2.6637	4,2
2-020-345.86.01	Job 645	1986	4,287	66	2,482	2,482	0 2.6055	6,4
2-020-345.87.01	Job 722	1987	4,392	66	4,156	4,156	0 2.5432	10,5
2-020-345.88.01	Job 722	1988	4,519	66	2,347	2,347	0 2.4716	5,8
2-020-345.89.01	Job 986 Water Taps	1989	4,606	66	3,603	3,603	0 2.4250	8,7
2-020-345.90.01	Job 187 Water Taps	1990	4,728	66	3,252	3,252	0 2.3628	7,6
2-020-345.91.01 2-020-345.92.01	Job 251 and Others Job 251 Ans WSP Work	1991 1992	4,834 4,985	66	1,355 17,826	1,355 17,826	0 2.3106 0 2.2410	3,1 39,9
2-020-345.92.01	Job 433 Water Taps	1992	5,211	25	1,392		0 2.1437	2,9
2-020-346.58.01	Meters 1958	1958	759	50	9,073	9,073	0 14.7171	133,5
2-020-346.59.01	Meters 1958 & 1959	1959	797	10	300		0 14.0154	4,2
2-020-346.60.01	Meters 1960	1960	824	50	1,373	1,373	0 13.5562	18,6
2-020-346.62.01	Meters 1962	1962	872	50	1,962		0 12.8100	25,1
2-020-346.63.01	Meters 1961 & 1963	1963	901	50	. 327		0 12.3976	4,0
2-020-346.64.01	Meters 1964	1964	936	50	1,485		0 11.9341	17,7
2-020-348.65.01	Meters 1965	. <u>1965</u> 1966	971 1,019	50 50	2,006		0 11.5039 0 10.9620	<u>23,0</u> 15,7
2-020-348.66.01 2-020-346.67.01	Meters 1966 Meters 1967	1966	1,019	50	4,748		0 10.9820	49,3
2-020-348.68.01	Meters 1968	1968	1,155	50	5,381	5,381	0 9.6712	52,0
2-020-348.69.01	Meters 1969	1969	1,300	50	3,259	3,259	0 8.5925	28,0
2-020-346.70.01	Meters 1970	1970	1,450	50	3,545		0 7.7036	27,3
2-020-346.71.01	Meters 1971	1971	1,581	50	5,162	5,162	0 7.0653	36,4
2-020-346.72.01	Meters 1972	1972	1,753	50	5,418		0 6.3721	34,5
2-020-348.73.01	Meters 1973	1973	1,900	50	5,343		0 5.8791	31,4
2-020-348.74.01	Meters 1974	1974	2,020	50	5,351	5,351	0 5.5298	29,5
2-020-346.75.01	Meters 1975 Meters 1976	1975 1976	2,212 2,400	50 50	4,699		0 5.0499	23,7 23,0
2-020-346.76.01 2-020-346.77.01	Meters 1976	1976	2,400	50	4,943		0 4.8344	23,0
2-020-348.78.01	Meters 1978	1978	2,776	50	7,794		0 4.0239	31,3
2-020-346.79.01	Meters 1979	1979	3,003	50	10,546	10.546	0 3.7201	39,2
2-020-348.80.01	Meters 1980	1980	3,237	50	10,604	10,604	0 3.4505	36,5
2-020-346.81.01	Meters 1981	1981	3,533	50	9,156	9,156	0 3.1614	28,9
2-020-346.82.01	Meters 1982	1982	3,816	50	7,390		0 2.9272	21,6
2-020-348.83.01	Meters 1983	1983	4,067	50	5,528		0 2.7465	15,1
2-020-346.84.01	Meters 1984	1984	4,148	50	3,277		0 2.6930	8,8
2-020-346.85.01	Meters 1985 Meters 1986	1985 1986	4,194 4,287	50 50	5,168 3,511		0 2.6637	<u>13,7</u> 9,1
2-020-346.86.01 2-020-346.87.01	Meters 1986 Meters 1987	1986	4,287	50	3,511		0 2.5432	2,9
2-020-346.88.01	Meters 1988	1987	4,392	50	7,804		0 2.4716	19,2
2-020-346.89.01	Meters 1989		Wath69th		635		0 2.4250	1,5
2-020-346.90.01	Meters 1990		recit878		10,736		0 2.3628	12513
2-020-346.91.01	Meters 1991	1991	4,834	50	5,248		0 2.3106	12,1
	Fire Hydrants	1958	759	66	2,358		0 14.7171	34,6

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Table W8 Local Replacement Value of Water Facilities

Asset No.	Facility Name/Location	Year	ENR Factor in Year Acquired	Useful Life (Yrs)	Total Amount Paid (\$)	Amount Locally Paid (\$)	Others Paid	ENR Factor to Septembe r. 2018	Local Replacement Value September, 2018 (\$)
592-020-348.59.01	Fire Hydrants	1959	797	66	2,000	2,000	0		28,031
592-020-348.62.01	Fire Hydrants 1962	1962	872	66	1,009	1,009	0		12.925
592-020-348.71.01	Fire Hydrants 1971	1971	1.581	66	1,350	1,350	0		9.538
592-020-348.72.01	Fire Hydrants 1960 thru 1972	1972	1,753	10	3,535	3,535	Ő		22,525
592-020-348.73.01	Fire Hydrants 1973	1973	1,900	66	3,264	3,264	Ō		19,189
592-020-348.76.01	Fire Hydrants 1976	1976	2,400	66	1,000	1,000	ō		4,654
592-020-348.77.01	Fire Hydrants 1977	1977	2,577	66	1,619	1,619	ō		7.019
592-020-348.79.01	Fire Hydrants 1979	1979	3.003	66	1,072	1.072	ŏ		3,988
592-020-348.80.01	Fire Hydrants 1980	1980	3,237	66	2.914	2,914			10.055
592-020-348.81.01	Fire Hydrants 1981	1981	3,533	66	3,409	3,409	0		10,777
592-020-348.84.01	Fire Hydrants 1984	1984	4,148	66	1,825	1.825	0		4,915
592-020-348.85.01	Fire Hydrants 1985	1985	4,194	10	341	341	Ő		908
592-020-348.86.01	Fire Hydrants 1986	1986	4,134	66	7,033	7.033	ő		18.324
592-020-348.87.01	Fire Hydrants Job 780	1987	4,392	66	4,097	4,097	ŭ		10,420
592-020-348.88.01	Fire Hydrants Job 780	1988	4,552	66	3.093	3,093	0		7.645
592-020-348.89.01	Fire Hydrants 1989	1989	4,606	66	1,124	1,124	0		2,726
592-020-348.93.01	Job 492 MDOT Widening	1993	5,211	66	7,125	7,125	0		15,274
	Atkins/Kalamazoo Watermain	2012	9,308	25	17.295	17,295	0		20,755
592-020-342.12.08	Howard Street Watermain	2012	9,308	25	163,589	163,589	0		196,316
592-020-342.12.09		2012	9,308	25	28,264	28,264	0		33,918
592-020-342.12.10	Emmet Street Watermain	2012	9,508	25	186,481	186,481	0		218,197
592-020-342.13.01	Ingalls/Madison Watermain Connable/Monroe Watermain	2013	9,547	25	93,123	93,123	0		108,961
592-020-342.13.02		2013		25	11.310	11,310	0		13,234
592-020-342.13.03	Bay Street Watermain		9,547 9,807	25	19,438	19,438	0		22.141
592-020-342.14.01	System Wide Upgrade	2014		25		57,581	0		65.589
592-020-342.14.02	Connable Reconfiguration	2014 2014	9,807 9.807	25	57,581 220,806	220,806	0		251,513
592-020-342.14.03	Arlington Ave Watermain			25	19,789		0		22,541
592-020-342.14.04	Lockwood Ave Watermain	2014	9,807	25	32.653	32.653	0		36,363
592-020-342.15.01	Franklin St Watermain	2015	10,031				0		61,257
592-020-342.15.02	Chx Ave Water Main - MDOT	2015	10,031	25	55,007	55,007	0		19,487
592-020-342.15.03	Arlington Ave Watermain	2015	10,031	25	17,499	17,499			24.659
592-020-342.15.04	Fulton St Watermain	2015	10,031	25	22,143		0		
592-020-312.17.01	Emmet Street Watermain	2017	10,737	25	378,479		0		393,767
592-020-342.17.02	Bayfront Dr Watermain	2017	10,737	25	119,416	119,416	V	1.0404	124,240
Furniture & Equipment					0.704	0 704	0	2.6055	47 507
592-020-382.86.01	Computer & Software	1986	4,287	5	6,731	6,731	0		17,537
592-020-382.89.01	Utilicorders	1989	4,606	5	3,907	3,907			9,475
592-020-382.90.01	Burster 1/3	1990	4,728	5	2,375	2,375	0		5,612
592-020-382.91.01	Utilicorders 1/3	1991	4,834	5	663	663	0		1,532
592-020-382.93.01	B38 Workstation 1/3	1993	5,211	3	1,247		0		2,673
592-020-382.93.02	Land Mapping System 1/3	1993	5,211	3	7,965	7,965	0		17,075
592-020-391.00.01	Automatic Meter Read Equipment	2000	6,221	5	15,170		0		27,238
592-020-391.01.01	Automatic Meter Read Equipment	2001	6,342	5	46,805	46,805	0		82,437
592-020-391.94.01	Office Furniture & Equipment	1994	5,410	5	19,996		0		41,288
592-020-394.91.01	Mueller Tap & Drill Machine	1991	4,834	10	1,515		0		3,501
592-020-394.92.01	Insertion Maching/Quick	1992	4,985	10	25,000		0		56,025
592-020-394.94.01	Water Taps 1994	1994	5,410	5	4,500		0	2.0648	9,292
	Total			1	19,342,961	16,332,770			34,737,490

W&S rate study 2018 - final

Table W9	
Water System Development Charge	Calculatio

	Water	System Develop	oment Charge	Calculations				wash	tte study 201
	B	С	D	Ê	F	G	н	1	J
1				FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
	CURRENT LOCAL REPLACEMENT VALUE			34,737,490	34,737,490	34,737,490	34,737,490	34,737,490	34,737,490
	PROPOSED CAPITAL IMPROVEMENTS	Year to be Built	Cost	01,101,100		04,101,400	0.1.0.1.00	•	
	US-31 - Lewis Street to Boulder Lane. Highway water main								
	crossings and water main replacement. Paid from operating								
4	revenue. (Potential \$100,000 MDOT grant).	2019	250,000		250,000				
1	Jackson Street - West Mitchel Street to Hospital Ring Road.								
	Replace water mains and components. Paid from operating								
5	revenue.	2020	90,000			90,000			
	Kalanana Augusta Ingina ta Cara Charat Bastana								
_	Kalamazoo Avenue - Jennings to Grove Street. Replace	2020	206.000			295,000			
•	water mains and components. Paid from operating revenue. Miscellaneous water main spot repairs and upgrades. Paid	2020	295,000			205,000			
7	from operating revenue.	2021	150,000				150,000		
-	Greenwood Road - Sheridan to Charlevoix Avenue. Replace	2021	100,000				100,000		
	water main along Greenwood Road. Paid from operating								
8	revenue.	2021	275,000				275,000		
	Lime Kiln Well and Control Building Improvements. Convert								
	from vertical turbine pump to submersible pump system,								
	update chlorine feed system and renovate control and								
. 9_	monitoring systems. Paid from operating revenue.	2021	75,000				75,000		
	Lime Kiln Well and Control Building Improvements. Convert								
	from vertical turbine pump to submersible pump system,								
	update chlorine feed system and renovate control and							475 464	
10	monitoring systems. Paid from operating revenue.	2022	175,000					175,000	
	East Lake - Kalamazoo to Division. Replace water mains in		ľ						
	conjunction with street reconstruction. Paid from operating revenue.	2022	272 000					272 000	
. 0	revenue. Howard Street and miscellaneous water main spot repairs	2022	273,000					273,000	-
12	and upgrades. Paid from operating revenue.	2023	290,000						290,000
.4	Miscellaneous water system capital improvements (if projects	2020	2.50,000				1		
	total is less than \$500,000). Paid from operating revenue. To								
	bring total annual water CIP cost to at least \$500,000								
	beginning FY 2019.	2019	250,000		250,000				
	Miscellaneous water system capital improvements (if projects								
	total is less than \$500,000). Paid from operating revenue. To								
	bring total annual water CIP cost to at least \$500,000								
14	beginning FY 2019.	2020	115,000			115,000			
	Miscellaneous water system capital improvements (if projects								
	total is less than \$500,000). Paid from operating revenue. To								
	bring total annual water CIP cost to at least \$500,000								
	beginning FY 2019.	2021	· ·				-	•	-
	Miscellaneous water system capital improvements (if projects								
	total is less than \$500,000). Paid from operating revenue. To								
	bring total annual water CIP cost to at least \$500,000		co. 000					52,000	
10	beginning FY 2019. Miscellaneous water system capital improvements (if projects	2022	52,000					52,000	
	total is less than \$500,000). Paid from operating revenue. To			[
	bring total annual water CIP cost to at least \$500,000			l					
	beginning FY 2019.	2023	210,000						210,000
	Total Cost (\$), 5 Year CIP (FY 2019 to FY 2013)		2,500,000		500,000	500,000	500,000	500,000	500,000
	TOTAL PROJECTED LOCAL REPLACEMENT VALUE			l	35,237,490			36,737,490	37,237,490
20									
	OUTSTANDING BOND PRINCIPAL			· ·			-	· ·	•
	TOTAL LOCAL REPLACEMENT VALUE LESS TOTAL								
	OUTSTANDING PRINCIPAL				35,237,490	35,737,490	36,237,490	36,737,490	37,237,490
23									
	Water System Design Capacity, Gallons Per Day (GPD)		·		6,480,000	6,480,000			6,480,000
	System Development Charge (SDC) per GPD (Maximum)				\$ 5.44			\$ 5.67	
20	GPD per Residential Equivalent Unit (REU) Water SDC per Equivalent REU = Inside City Water SDC			l	240	240	240	240	240
27	(Maximum, Rounded)				S 1,400	s 1.400	\$ 1,400	\$ 1,400	\$ 1,400
<u>"</u>	Outside City Water SDC = 1.5 x Inside-City Water SDC		1			·····			, .,
28	(Maximum, Rounded)				\$ 2,100	\$ 2,100	\$ 2,100	\$ 2,100	\$ 2,100
	A CONTRACTOR OF		İ		<u> </u>			<u> </u>	
29	Inside-City SDC Per Meter Size (Maximum, Rounded):							l	
30	5/8"				\$ 1,400	\$ 1,400	\$ 1,400	\$ 1,400	\$ 1,400
31	3/4"				\$ 2,100	\$ 2,100	\$ 2,100		
32	1"				\$ 3,500	\$ 3,500			
33	1 1/2"				\$ 7,000	\$ 7,000		\$ 7,000	
34	2"				\$ 11,200	\$ 11,200	\$ 11,200	\$ 11,200	
35	3"				\$ 24,500	\$ 24,500		\$ 24,500	
36	4 ^H				\$ 42,000	\$ 42,000			
37	6"			<u> </u>	\$ 87,500	\$ 87,500	\$ 87,500	\$ 87,500	\$_87,500
	Outside-City SDC Per Meter Size (Maximum, Rounded):				1		{		
20			 -		\$ 2,100	\$ 2,100	\$ 2,100	\$ 2,100	\$ 2,100
39	5/8"								
39 40	<u> </u>				\$ 3,150 \$ 5,250				
39 40 41	5/8* 				\$ 5,250	\$ 5,250	\$ 5,250	\$ 5,250	\$ 5,250
39 40 41 42	5/8** 				\$ 5,250 \$ 10,500	\$ 5,250 \$ 10,500	\$ 5,250 \$ 10,500	\$ 5,250 \$ 10,500	\$ 5,250 \$ 10,500
39 40 41 42 43	5/8** 3/4* 1** 1 1/2* 2**				\$ 5,250 \$ 10,500 \$ 16,800	\$ 5,250 \$ 10,500 \$ 16,800	\$ 5,250 \$ 10,500 \$ 16,800	\$ 5,250 \$ 10,500 \$ 16,800	\$ 5,250 \$ 10,500 \$ 16,800
39 40 41 42 43 44	5/8** 3/4** 1** 1 1/2** 2** 3**				\$ 5,250 \$ 10,500 \$ 16,800 \$ 36,750	\$ 5,250 \$ 10,500 \$ 16,800 \$ 36,750	\$ 5,250 \$ 10,500 \$ 16,800 \$ 36,750	\$ 5,250 \$ 10,500 \$ 16,800 \$ 36,750	\$ 5,250 \$ 10,500 \$ 16,800 \$ 36,750
39 40 41 42 43	5/8** 3/4* 1** 1 1/2* 2**				\$ 5,250 \$ 10,500 \$ 16,800	\$ 5,250 \$ 10,500 \$ 16,800 \$ 36,750 \$ 63,000	\$ 5,250 \$ 10,500 \$ 16,800 \$ 36,750 \$ 63,000	\$ 5,250 \$ 10,500 \$ 16,800 \$ 36,750 \$ 63,000	\$ 5,250 \$ 10,500 \$ 16,800 \$ 36,750 \$ 63,000

99.0\$							
	29.02	09.0\$	29.0\$	99.0 \$		Total Kjeldahl Nitrogen: Above 40 mg/l (per pound)	
\$ 0.26	\$5.45	\$5.35	\$2.25 \$0.23	\$ 5.17		Photophords: Sbilds: Pound) (per pound) (p	
	92.08 192.08 192.08	20 <u>54</u> 2052	23.024	2 0 3 3	oteAtreme	House and Solids. Above 300 mg/ (per pound) (ber pound)	05
00.00		30.09	10.00		Ybute Study	EXTRA STRENGTH SURCHARGES - ALL CUSTOMERS (Page 2000) المالية 2000 كهمه 2000 المالية المالية 2000 المالية	79
\$ 4.62	\$ 4.43	2 4.24	80.4 .08	76.5 2		Commodity Charge, per 100 Cubic Feet	99
00.154.1 \$	01.675.1 \$	09.875,1 \$	\$ 1'354.50	\$ 1'354.50	88.720,1 \$	Sewage pumped via 8" FM, RTS charge billed as meter size = 4"	
						Readiness to Serve Charge, per Meter Size, per Month	
						Bay View rates = 1.25 x City (per contract)	23
\$ 16,629.79	\$ 16,542.43	71.077,81 \$	99.207,41 \$	\$ 14,928.00	\$ 13,231.84	spuog	
						Monthly Capital Charge: SVBC Share of Outstanding WWTP-Related	
19.5 \$	2E.E \$	\$ 3.23	01.6 \$	\$ 3.00	\$ 5.71	Cubic Feet	13
						Monthly Commodity Charge: 95% of City Commodity Charge, per 100	
5023	5025	5021	5020	5019	March, 2018	Restated Agreement, March 19, 2018)	90
, treunet	'i Vienneu	1 (1 Vieune)	, L Vieunst	'i Viennet	Effective	Springvale-Bear Creek Sewage Disposal Authority (By Contract, per	
Effective	Effective	Proposed Effective	Effective	Effective	Current		0.5
\$ 282,500	\$ 587,500		\$ 582'200	\$ 582,500	\$ 200,000		46 78
	000'881 \$	000,851 2	000'821 \$	000'881 \$	000'96 \$		24
	000'08 \$		002.08 2	009'08 \$	000'99 \$		97
			008,85 2		22,600		54
	23'000		23,000	23'000	000,81 8		44
			005.11 \$	11,500	000.8 \$		43
006'9 \$	006'9 \$		006'9 \$	006'9 \$	\$ 4,800		45
			\$ \$'600		\$ 3,200		17
5023	2022	1202	2020	5019	5011		
'i Visunsty'	ւ լ չուսեւ	'i Visunaty 1,	't Vieunet	January 1,	January 1,		
Effective	Effective	Effective	Effective	Effective	Effective		
		sluolsO mumi	xsM		Current	Sewer System Development Charge ("Capital" Charge)	
	\$ 3.54		\$ 3.26	\$ 3.15		Commodity Charge, per 100 Cubic Feet = City	
\$ 4,173.75	\$ 4,021.88	\$ 4'020.63	£1.E38,E \$	£1.638,62.13	\$ 3,085.63	9	2£
\$ 5,003.40		06.629,1 \$		1,864.30	01.184,1 2		96
	\$ 1,126.13		89.180,1 \$	89.180,1 \$	86.638 \$		32
234.24	\$ 214.80	\$ 214'9t	84.494.48	84.464 \$	96.465 \$		34
	\$ 351.75			90.605 \$	\$ 546.85		33
	88.091 \$		2 124.53	\$ 164.63	2 153.44		32
	89.99 \$		<u>57.22</u>	\$ 95.72			31
82.99 \$	\$ 64.35	\$ 64.33	18.10 \$	18.13 \$	25.64 \$	Readiness to Serve Charge, per Meter Size, per Month = 1.75 x City "8/2	30
						vij x 37 t = dinoM zon ozig zotoM zon opred) orgeg of secritico9	00
\$ 5.83	\$ 2.81	\$ 2.78	\$ 5.75	\$ 2.72	\$ 2.48	Billing Charge, per Month = City	87
505	2022	5021	5050	5102	5014		22
January 1,	'i Arenuer	'i Vieune	ւ Հուսուն	'i Vieune	'L Vieune		
Effective	Effective	Effective	Effective	Effective	Effective	GinsnwoT hoseA	
FY 2023	FY 2022	FY 2021	FY 2020	FY 2019	FY 2018	OUTSIDE-CITY	56
		Pesodord		l	Current		07
009'282 \$	282,500		005,782 \$	\$ 582'200			52 54
		000,851 2	000,851 2	000'821 \$	000'96 \$	n o n 7	53
		000 881 \$	000 881 \$	009'08 \$	000'99 \$		52
		008'98 \$	008'98 \$	008'96 \$	\$ 52,600	ν	51
		\$ 23,000	000'52 \$	\$ 53'000	\$ 16,000	1/1/1 l	50
		11,500	11,500	\$ 11,500	000,8 \$	ub	61
		006'9 \$	006'9 \$	006'9 \$	\$ 4,800	u7/E	18
	\$ \$'600		\$ \$'600	009'7 \$		8/9	21
<u>,</u> .				5019	5011	Water Service Meter Size:	191
5053	5052	5021	5020		1		
		2021 January 1,	1 'i Visune'	'i Visunat	'i Vieune		
5023	2022 January 1, Effective	January 1, Effective	Lanuary 1, January 1,		Effective January 1,		
2023 January 1, Effective	ted January 1, January 1, Lettective	imum Calcula Effective January 1,	Xam Effective January 1,	Effective January 1,	Current Effective January 1,	Sewer System Development Charge ("Capital" Charge)	<u>Ş</u> I
2023 רפע 19 בעפרמאפ 2023 2023 2023 2023 2023 2023 2023 202	2022 ted Effective \$ 3.54	streetive (13,239) (13,239) (13,23) (5 3.26 Street 1, Max 3.26	ารขาง 216ctive \$ 3.15	January 1, Current Effective 3.85	Commodity Charge, per 100 Cubic Feet	12 14
2023 1900 2023 2023 2023 2023 2023 2023 2023 2	2022 1900 2025 2025 2025 2025 2025 2025 2025 2	January 1, 5, 2,297,50 5, 2,29 5, 2,29 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	1900 - 100 -	1301314 1 5 3.15 2,207.60	1,763.13 5,85 5,	6" Commodity Charge, per 100 Cubic Feet	12 14 13
2023 2023 2023 2023 2023 2023 2023 2023	2022 12022 2022 2022 2022 2022 2022 202	January 1, \$ 1,102.80 \$ 2,297.60 \$ 2,297.60	γ γ	\$ 1,069.60 \$ 2,207.60 \$ 3.15 Effective	1900 130 14 2000 150 150 150 150 150 150 150 150 150	4" 600 Cubic Feet	12 14 13 15
2023 Effective \$ 2,385.00 \$ 1,144.80 \$ 2,385.00 \$ 1,144.80 \$ 2,385.00	2025 1000 2025	January 1, 1,102,80 \$ 2,297,60 \$ 2,297,60 \$ 2,297,60	January 1, January 1, \$ 3,207.50 \$ 1,059.60 \$ 618.10	1 1 1 1 2 2 2	January 1, 5 846.30 846.30 493.68	3" Commodity Charge, per 100 Cubic Feet	12 14 13 15
20023 Effective 5 2,386.00 5 2,386.00 5 2,386.00 5 3.06.28 3 05.28 5 305.28 5	2025 3025 3025 2025	Jaunauk J; Ettective \$ 2,297.50 \$ 1,102.80 \$ 1,102.80 \$ 2,597.50 \$ 2,597.50	19001910, 1/2 2 2 2 3 2 3 2 3 2 3 <	19unstA 1' Ettective \$ 2'502.60 \$ 2'502.60 \$ 285.66	January 1, 21,000 2 1,000 2 1,000 2 1,000 2 1,000 2 1,000 2 1,000 2 1,000 2 1,000 2 1,000 2 1,000 2 1,000 2 2 2 3	2" 	12 14 13 15 15 10
20023 Effective 5 2,385.00 5 2,385.00 5 1,144.80 5 305.28 5	2025 3025 3025 2025	Jaunauk J; Ettective \$ 25207.50 \$ 14102.80 \$ 14102.80 \$ 25207.50 \$ 2597.80 \$ 2643.30 \$ 2643.80	13000000000000000000000000000000000000	19unstA 1' Ettective \$ 2'502.60 \$ 2'502.60 \$ 285.66 \$ 1069.00	23000000000000000000000000000000000000	1 1/2" Commodity Charge, per 100 Cubic Feet	12 14 13 15 10 10
\$ 36.40 \$ 7023 \$ 7023 \$ 70528 \$ 70528 \$ 70528 \$ 30528 \$ 70528 \$ 86780 \$ 30528 \$ 9540 \$ 9540	2022 2022 2022 2022 2022 2022 2022 2022 2023 202 202	Jaunauk J; Jaunauk J; Ettective 2 2 2 2 2 3	1900 m30 Å J 200 m30 Å J 200 m30 Å	19unsul 1; Ettective \$ 3,202,60 \$ 1,069,60 \$ 2,507,60 \$ 1,069,60 \$ 283,20 \$ 88,30	19unstry 1, 2 1,20,23 2 1,20,23 2 1,20,23 3 1,20,23 403,68 2,26,68 5 2,52,68 5 2,52,68 6 1,20,23 7 1,20,23 8 1,41,06 2 1,20,23 2 1,20,23 3 1,20,23 3 1,20,23 4 1,20,23 3 1,20,23 4 1,20,23 5 1,20,23 6 1,20,23 7 1,20,23 7 1,20,23 8 1,41,06 1,41,06 1,41,06 1,41,07 1,41,06 1,41,08 1,41,06 1,41,08 1,41,06 1,41,08 1,41,06 1,41,08 1,41,06 1,41,08 1,41,06 1,41,08 1,41,08 1,41,08 1,41,08 1,41,08 1,41,08 1,41,08 1,41,08 1,41,08 1,41,08 1,41,08 1,41,08 1,41,08 1,41,08 1,41,11,11,11,11,11,11,11,11,11,11,11,11	۲۰۰ ۲۰۰ ۲۰۰ ۲۰۰ ۲۰۰ ۲۰۰ ۲۰۰ ۲۰۰ ۲۰۰ ۲۰۰	12 14 13 15 15 10 10 8
\$ 50.23 \$ 2023 \$ 190.80 \$ 190.80 \$ 190.80 \$ 2,385.00 \$ 144.80 \$ 305.28 \$ 667.80 \$ 190.80 \$ 1,144.80 \$ 305.28 \$ 667.80 \$ 1,144.80 \$ 305.28 \$ 667.80 \$ 190.80 \$ 190.80 \$ 190.80	2033 2033 2035 2037 20 2037 20	Jaunauk J; Ettective \$ 2,297.50 \$ 1,102.80 \$ 1,102.80 \$ 2,297.50 \$ 1,102.80 \$ 2,01.90 \$ 3,01.90	19001917 J; Ettective 2 3 2 3 3 3 4 1000 2 3 3 3 3 4 4 5 5 5 618.10 3 4 4 5 618.10 3 4 5 618.10 3 4 5 5 618.30 618.30 7 7 88.30 88.30 88.30 88.30 88.30 88.30 88.30 88.30 88.30 88.30 88.30 88.30 88.30 88.30 88.30 8	19unsuk 1' Ettective \$ 2'502'60 \$ 2'502'60 \$ 2832'66 \$ 88'30 \$ 88'30	19unst 1, 2 </td <td>3/4" Commodity Charge, per 100 Cubic Feet</td> <td>19 14 13 13 13 13 10 10 10 10 10 10 10 10 10 10 10 10 10</td>	3/4" Commodity Charge, per 100 Cubic Feet	19 14 13 13 13 13 10 10 10 10 10 10 10 10 10 10 10 10 10
\$ 36.40 \$ 7023 \$ 7023 \$ 70528 \$ 70528 \$ 70528 \$ 30528 \$ 70528 \$ 86780 \$ 30528 \$ 9540 \$ 9540	2033 2033 2035 2037 20 2037 20	Jaunauk J; Ettective \$ 2,297.50 \$ 1,102.80 \$ 1,102.80 \$ 2,297.50 \$ 1,102.80 \$ 2,01.90 \$ 3,01.90	1900 m30 Å J 200 m30 Å J 200 m30 Å	19unsul 1; Ettective \$ 3,200,60 \$ 1,069,60 \$ 2,500,60 \$ 176,60 \$ 176,60 \$ 283,30 \$ 88,30 \$ 853,08	19unstry 1, 2 1,20,23 2 1,20,23 2 1,20,23 3 1,20,23 403,68 2,26,68 5 2,52,68 5 2,52,68 6 1,20,23 7 1,20,23 8 1,41,06 2 1,20,23 2 1,20,23 3 1,20,23 3 1,20,23 4 1,20,23 3 1,20,23 4 1,20,23 5 1,20,23 6 1,20,23 7 1,20,23 7 1,20,23 8 1,41,06 1,41,06 1,41,06 1,41,07 1,41,06 1,41,08 1,41,06 1,41,08 1,41,06 1,41,08 1,41,06 1,41,08 1,41,06 1,41,08 1,41,06 1,41,08 1,41,08 1,41,08 1,41,08 1,41,08 1,41,08 1,41,08 1,41,08 1,41,08 1,41,08 1,41,08 1,41,08 1,41,08 1,41,08 1,41,11,11,11,11,11,11,11,11,11,11,11,11	6" Commodity Charge, per 100 Cubic Feet	12 13 13 13 13 10 10 10 10 10 10 10 10 10 10 10 10 10
\$ 38.16 \$ 36.00 \$ 2,24 \$ 36.00 \$ 36	2025 2025 2025 2025 2025 2025 2025 2027	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	19001917 1; Ettective 2 25207.50 2 25207.50 2 106960 2 252.56 2 252.56 2 252.56 3 263.20 2 252.36 2 252.36 2 252.36 3 263.30 3 263.30 3 253.36 3 263.30 3 263.30 3 263.30 3 263.30 3 263.30 3 263.30 3 363.30 3 363.30 3 363.30 3 363.30 3 363.30 3 363.30 3 363.30 3 363.30 3 363.30 3 363.30 3 363.30 3 363.30 3 363.30 3 363.30 3	19unsuk J' Ettective \$ 25207.60 \$ 25207.60 \$ 1069.60 \$ 282.30 \$ 283.30 <	19unstA 1; 2 1/201313 2 1/20213 2 1/20213 2 1/20213 2 1/20213 2 1/20213 2 1/20213 2 1/20213 2 1/20213 2 1/20213 2 1/20213 2 1/20213 2 1/20213 2 1/20213 2 1/20213 2 1/20213 3 1/1/102 2 1/20213 3 1/20213 3 1/20213 3 1/20213 3 1/20213 3 1/20213 3 1/20213 3 1/20213 3 1/20213 4 1/20213 5 1/20213 6 1/20213 7 1/20213 8 1/20213 8 1/20213 8 1/20213 8 1/202	Readiness to Serve Charge, per Meter Size, per Month 6/8" 3/4" 1/2" 1 2" 1 2" 1 2" 1 2" 1 2" 1 2" 1 2" 2 3" 2 3" 3" 4" 6" 6"	12 13 13 14 13 14 15 10 10 10 10 10 12 12 12 12 12 12 12 12 12 12 12 12 12
\$ 2.83 \$ 36.40 \$ 36.40 \$ 2.386.00 \$ 3.69 \$ 1.144.80 \$ 3.69 \$ 3.69 \$ 3.69 \$ 1.144.80 \$ 3.69 \$ 3.69	2032 2032	\$ 2.78 5 2.2756 5 2.297.60 5 2.297.60 5 2.297.60 5 7.297.60 5 7.297.60	19001917 1, Ettective 2 2,2207,50 2 2,5207,50 2 1,069,60 2 2,623,56 2 2,623,56 2 3,633,20 2 3,633,20 2 3,632,20 2 3,632,26 2 3,632,26 2 3,632,26 3 3,632,26 3 3,632,26 3 3,632,26 3 3,632,26 3 3,633,27 3 3,735,27 3 3,735,27 3 3,735,27 3 3,735,27 3 3,735,27 3 3,735,27 3 3,735,27 3 3,735,27 3 3,735,27 3 3,735,27 3 3,735,27 3 3,735,27 3 3,735,27 3 3,735,27 3 3,735,27 3 3,735,27 3 3,735,27 </td <td>19unsuk 1' Ettective \$ 2'507.60 \$ 2'507.60 \$ 2'009.60 \$ 282.30 \$ 283.30 \$ 39.30 \$ 39.30 \$ 39.30 \$ 39.30 \$ 39.30 \$ 39.30 \$ 39.30 \$ 39.30 \$ 39.30 \$ 39.30 \$ 39.30 \$ 39.30 \$ 39.30 <td< td=""><td>19unstA 1; 2 1/201313 2 1/202313 2 1/202313 2 1/202328 2 1/202328 2 1/202328 2 1/202313 2 1/202328 2 1/202328 2 1/202328 2 1/202328 2 1/202328 2 1/202328 2 1/202328 2 1/202328 2 1/202328 3 1/202328 3 1/202328 3 1/202328 3 1/202328 3 1/202328 3 1/202328 3 1/202328 3 1/202328 3 1/202328 3 1/202328 4 1/202328 4 1/202328 5 1/202328 5 1/202328 6 1/202328 7 1/202328 8 1/202328</td><td>6" Commodity Charge, per 100 Cubic Feet</td><td>12 13 13 14 13 14 15 10 10 10 10 10 12 12 12 12 12 12 12 12 12 12 12 12 12</td></td<></td>	19unsuk 1' Ettective \$ 2'507.60 \$ 2'507.60 \$ 2'009.60 \$ 282.30 \$ 283.30 \$ 39.30 \$ 39.30 \$ 39.30 \$ 39.30 \$ 39.30 \$ 39.30 \$ 39.30 \$ 39.30 \$ 39.30 \$ 39.30 \$ 39.30 \$ 39.30 \$ 39.30 <td< td=""><td>19unstA 1; 2 1/201313 2 1/202313 2 1/202313 2 1/202328 2 1/202328 2 1/202328 2 1/202313 2 1/202328 2 1/202328 2 1/202328 2 1/202328 2 1/202328 2 1/202328 2 1/202328 2 1/202328 2 1/202328 3 1/202328 3 1/202328 3 1/202328 3 1/202328 3 1/202328 3 1/202328 3 1/202328 3 1/202328 3 1/202328 3 1/202328 4 1/202328 4 1/202328 5 1/202328 5 1/202328 6 1/202328 7 1/202328 8 1/202328</td><td>6" Commodity Charge, per 100 Cubic Feet</td><td>12 13 13 14 13 14 15 10 10 10 10 10 12 12 12 12 12 12 12 12 12 12 12 12 12</td></td<>	19unstA 1; 2 1/201313 2 1/202313 2 1/202313 2 1/202328 2 1/202328 2 1/202328 2 1/202313 2 1/202328 2 1/202328 2 1/202328 2 1/202328 2 1/202328 2 1/202328 2 1/202328 2 1/202328 2 1/202328 3 1/202328 3 1/202328 3 1/202328 3 1/202328 3 1/202328 3 1/202328 3 1/202328 3 1/202328 3 1/202328 3 1/202328 4 1/202328 4 1/202328 5 1/202328 5 1/202328 6 1/202328 7 1/202328 8 1/202328	6" Commodity Charge, per 100 Cubic Feet	12 13 13 14 13 14 15 10 10 10 10 10 12 12 12 12 12 12 12 12 12 12 12 12 12
2023 2023 2023 2023 2023 2023 2023 2025 2025 2025 2026 2026 2026 2026 2026 2026 2027	2022 2022 2022 2022 2022 2022 2022 2022 2024 2022 2024 2022 2024 2025 2047 2025 2047 2025 2047 2025 2047 2025	2021 2021 2021 2021 2022 202 2022 2	19001917 1; 2 3.26 2 5.207.50 2 1.069.60 2 2.82.56 2 2.82.30 2 2.02.30 2 2.02.30 2 2.02.30 2 2.02.30 2 2.02.30 3 2.02.30 3 2.02.30 3 2.02.30	19unsuk 1' Ettective \$ 2'502'60 \$ 2'502'60 \$ 2'029'60 \$ 28'30 \$ 28'30 \$ 28'30 \$ 28'30 \$ 29'35 \$ 20'36 \$ 5'12	19unstA 1; 2 1/2014; 2 1/202; 2 1/202; 2 1/202; 2 1/202; 2 1/202; 3 1/202; 2 1/202; 3 1/202; 3 1/202; 3 1/202; 3 1/202; 3 1/202; 3 1/202; 3 1/202; 3 1/202; 4 1/202; 3 1/202; 3 1/202; 4 1/202; 3 1/202; 4 1/202; 5 1/202; 6 1/202; 7 1/202; 8 1/202; 8 1/202; 8 1/202; 8 1/202; 8 1/202; 8 1/202; 8 1/202; 8 1/202; 8 1/202; <	Billing Charge, per Month Roadiness to Serve Charge, per Meter Size, per Month 5/8" 3/4" 7" 7" 7" 7" 7" 6" 6"	4 12 13 14 10 10 10 10 10 14 10 10 14 10 10 14 10 14 10 14 10 14 10 14 10 14 10 14 10 14 10 14 10 14 10 14 10 14 10 14 10 14 14 14 14 14 14 14 14 14 14 14 14 14
2023 202 202	January 1, 2022 5 2,208,13 5 2,208,13 5 2,208,13 5 1,03,10 5 204,16 5 205,16 5 204,16 5 204,1	January 1, 2021 2021 2 2,297,50 5 2,297,50 5 11,102,80 5 11,02,80 5 11,	γ3υμαιλ 1, Ξμθοτήλο 2 2,207,50 2 2,207,50 2 2,609,60 3 2,603,60 3 3,603,700 4 3,703,700 5 <td>γsunsuk 1' Ettective \$ 2'207.60 \$ 2'207.60 \$ 1,069.60 \$ 282.66 \$ 88.30 \$ 88.30 \$ 88.30 \$ 2019 \$ 2019 \$ 2019 \$ 2019</td> <td>January 1, 5 2.136 5 7.268 5 7.063 5 7.063 6 2.566 7 3.256 8 7.053 2 7.053 2 7.053 2 2.014 2 2.014</td> <td>Readiness to Serve Charge, per Meter Size, per Month 6/8" 3/4" 1/2" 1 2" 1 2" 1 2" 1 2" 1 2" 1 2" 1 2" 1 2" 1 2" 2" 3" 2" 3" 1 2" 2" 3" 3" 5" 5" 5" 5" 5" 5" 5"</td> <td>4 12 13 14 10 10 10 10 10 14 10 10 14 10 10 14 10 14 10 14 10 14 10 14 10 14 10 14 10 14 10 14 10 14 10 14 10 14 10 14 10 14 14 14 14 14 14 14 14 14 14 14 14 14</td>	γsunsuk 1' Ettective \$ 2'207.60 \$ 2'207.60 \$ 1,069.60 \$ 282.66 \$ 88.30 \$ 88.30 \$ 88.30 \$ 2019 \$ 2019 \$ 2019 \$ 2019	January 1, 5 2.136 5 7.268 5 7.063 5 7.063 6 2.566 7 3.256 8 7.053 2 7.053 2 7.053 2 2.014 2 2.014	Readiness to Serve Charge, per Meter Size, per Month 6/8" 3/4" 1/2" 1 2" 1 2" 1 2" 1 2" 1 2" 1 2" 1 2" 1 2" 1 2" 2" 3" 2" 3" 1 2" 2" 3" 3" 5" 5" 5" 5" 5" 5" 5"	4 12 13 14 10 10 10 10 10 14 10 10 14 10 10 14 10 14 10 14 10 14 10 14 10 14 10 14 10 14 10 14 10 14 10 14 10 14 10 14 10 14 14 14 14 14 14 14 14 14 14 14 14 14
Effective Effective 5 2,385,00 5 2,385,00 5 3,69 5 3,64 5 3,65 5 3,64 5 3,65 5 3,65	2022 2022 2022 2022 2022 2022 2022 2022 2024 2022 2024 2022 2024 2025 2047 2025 2047 2025 2047 2025 2047 2025	2021 2021	19001917 1; 2 3.26 2 5.207.50 2 1.069.60 2 2.82.56 2 2.82.30 2 2.02.30 2 2.02.30 2 2.02.30 2 2.02.30 2 2.02.30 3 2.02.30 3 2.02.30 3 2.02.30	19unsuk 1' Ettective \$ 2'502'60 \$ 2'502'60 \$ 2'029'60 \$ 28'30 \$ 28'30 \$ 28'30 \$ 28'30 \$ 29'35 \$ 20'36 \$ 5'12	19unstA 1; 2 1/2014; 2 1/202; 2 1/202; 2 1/202; 2 1/202; 2 1/202; 3 1/202; 2 1/202; 3 1/202; 3 1/202; 3 1/202; 3 1/202; 3 1/202; 3 1/202; 3 1/202; 3 1/202; 4 1/202; 3 1/202; 3 1/202; 4 1/202; 3 1/202; 4 1/202; 5 1/202; 6 1/202; 7 1/202; 8 1/202; 8 1/202; 8 1/202; 8 1/202; 8 1/202; 8 1/202; 8 1/202; 8 1/202; 8 1/202; <	Commodity Charge, per Month Billing Charge, per Month Readiness to Serve Charge, per Meter Size, per Month 6" 7" 7" 6" 6" 6" 6" 6" 6" 6" 6" 6" 6	4 12 13 14 10 10 10 10 10 14 10 10 14 10 10 14 10 14 10 14 10 14 10 14 10 14 10 14 10 14 10 14 10 14 10 14 10 14 10 14 10 14 14 14 14 14 14 14 14 14 14 14 14 14
2023 Effective 5 2,385,00 5 2,385,00 5 3,69 5 30,80 5 36,40 5 36,400 5 36,4000000000000000000000000000000000000	Effective Line 2022 5 2,208,13 5 2,208,13 5 2,208,13 5 1,303,16 5 1,303,16 5 2,208,13 5 1,303,16 5 2,04,16 5 2,	Effective 5 2294.08 5 22297.50 5 22297.50 5 2294.08 5 2294.08 5 2294.08 5 2294.08 5 2294.08 5 2294.08 5 2294.08 5 2294.08 5 2294.08 2 2294.08 2 2294.08 2 2294.08 2 2294.08 2 2294.08 2 2294.08 2 2294.08 2 2294.08 2 2294.08 2 2294.08 2 2294.08 2 2294.08 2 2294.08 2 2297.08 2 2297.08	Ettective Ettective 2 2,207,50 3 2,207,50 3 2,207,50 5 2,029,60 5 2,029,	Effective Effective 5 2,207.60 5 2,207.60 5 2,207.60 5 1,069.60 5 1,069.60 5 17,069.60 5 3,15 5 3,15	January 1, Effective S 1,763,13 S 1,705,13 S 1,702,13 S 1,732,018 S 1,732,018 Effective 2,748 S 1,732,018 S 1,732,018 Effective 1,732,018 Effective 1,732,018	Billing Charge, per Month Roadiness to Serve Charge, per Meter Size, per Month 5/8" 3/4" 7" 7" 7" 7" 7" 6" 6"	11 11 12 13 14 14 14 14 14 14 14 14 14 14 14 14 14
Effective 5.2.2.3 Effective 5.2.3.6.0 5.2.3.6.0 5.3.6.0.8.0 5.3.6.0.0.8.0 5.3.6.0.0.8.0 5.3.6.0.8.0 5.3.6.0.0.8.0 5.3.6.0.0.8.0 5.3.6.0.0.8.0 5.3.6.0.0.8.0 5.3.6.0.0.8.0 5.3.6.0.0.8.0 5.3.6.0.0.8.0.0.8.0 5.3.6.0.0.8.0.0.8.0.0.8.0.0.8.0.0.0.0.0.0.0	Effective Line 2022 5 2,208,13 5 2,208,13 5 2,208,13 5 1,303,16 5 1,303,16 5 2,208,13 5 1,303,16 5 2,04,16 5 2,	Effective 2 2,277 2 2,297,50 5 2,297,50 5 2,297,50 5 2,297,50 5 2,297,50 5 2,297,50 5 2,297,50 5 2,297,50 5 2,297,50 5 2,297,50 5 2,277 5 2,778 5 2,778	Ettective Ettective 2 2,207,50 3 2,207,50 3 2,207,50 5 2,029,60 5 2,029,	Effective Effective 5 2,207.60 5 2,207.60 5 2,207.60 5 1,069.60 5 1,069.60 5 17,069.60 5 3,15 5 3,15	Effective 2 1,755,68 2 1,763,13 2 1,763	Commodity Charge, per Month Billing Charge, per Month Readiness to Serve Charge, per Meter Size, per Month 6" 7" 7" 6" 6" 6" 6" 6" 6" 6" 6" 6" 6	3 4 5 6 10 11 11 12 12 14 12 14 12 14

Table S1 W&S rate study 2018 - final FX 2023 Sewer Rates and System Development Charges and Extra Strength Surcharges

Table S2 W&S Projected FY 2019 Sewer Billings Using FY 2018 Sewer Rates and Projected FY 2019 Sewer Billing Units

W&S	rate	study	2018	3 - final

—		Y 2019 Sewer Billings				r Billing Units		
	В	С	D	E	F Current Lyuwaient	G	Н	1
1	Class		Number of Meters Used for Billing for Water and Sewer Service (Active Customers)	Number of Meters Used for Billing for Sewer Only Service (Active Customers)	Annual Billing Units for Meters Used for Water and Sewer Billing (Billing	-	Sewer Rates Effective January 1, 2018	Projected FY 2019 Sewer Billings Using FY 2018 Sewer Rates
3	INSIDE-CITY	Dining Charges						<u> </u>
4		Billing Charges			2,924		\$ 2.48	\$ 87,018
		Sewer Only Billing						
5		Charges Billing Charges, Total				6	\$ 2.48	
6		Inside-City			2,924	6		\$ 87,196
7	OUTSIDE-CITY	Billing Charges			133		\$ 2.48	\$ 3,958
Ļ		Sewer Only Billing			133		- 3 - 2.40	\$ 3,850
9		Charges				68	\$ 2.48	\$ 2,023
		Billing Charges, Total						
10		Outside-City			133	68		\$ 5,981
		Billing Charges, Total						1
		Inside and Outside- City			0.057			
11 12	<u></u>	oity			3,057	74		\$ 93,177
╞┈╧		Readiness to Serve	Active Meters		<u> </u>			<u> </u>
1			as of May,					
13			2018					
14	INSIDE-CITY							
	Second Sewer/Inside/Residential	5/8"	1				\$ 28.21 \$ 28.21	
16 17	Sewer/Inside/Residential	5/8" 3/4"	2,274		·	 	\$ 28.21 \$ 42.32	
_	Sewer/Inside/Residential		117				\$ 70.53	
	Sewer/Inside/Residential	1 1/2"	29				\$ 141.05	
	Sewer/Inside/Residential	2"	2				\$ 225.68	
		Residential Readiness to Serve	0.450					
21	Sewer/Inside/Commercial	Charge Billings, Total 5/8"	2,458 263				\$ 28.21	\$ 941,431 \$ 89,030
	Sewer/Inside/Commercial	3/4"	15				\$ 42.32	
	Sewer/Inside/Commercial	1"	41				\$ 70.53	
	Sewer/Inside/Commercial	1 1/2"	14				\$ 141.05	
26	Sewer/Inside/Commercial	2"	22				\$ 225.68	
27	Sewer/Inside/Commercial	3"					\$ 493.68	
	Sewer/Inside/Commercial	4" 6"	4				\$ 846.30 \$ 1,763.13	
30		Commercial Readiness to Serve Charge Billings, Total	360				<u> </u>	\$ 261,168
	Sewer/Inside/Industrial	5/8"	9				\$ 28.21	\$ 3,046
	Sewer/Inside/Industrial	3/4"					\$ 42.32	\$ -
33	Sewer/Inside/Industrial	1"	0				\$ 70.53	
	Sewer/Inside/Industrial	1 1/2"	1				\$ 141.05	
	Sewer/Inside/Industrial	2"	0				\$ 225.68 \$ 493.68	
	Sewer/Inside/Industrial Sewer/Inside/Industrial	3" 4"			· · · · · · · · · · · · · · · · · · ·		\$ 493.68 \$ 846.30	
	Sewer/Inside/Industrial				· · · · · · · · · · · · · · · · · · ·		\$ 1,763.13	
39		Industrial Readiness to Serve Charge Billings, Total	10					\$ 4,738
	Sewer/Inside/Non-Profit	5/8"	48				\$ 28.21	\$ 16,248
	Sewer/Inside/Non-Profit	3/4"					\$ 42.32	
	Sewer/Inside/Non-Profit	1"					\$ 70.53	
	Sewer/Inside/Non-Profit Sewer/Inside/Non-Profit	<u> </u>	5			·	\$ 141.05 \$ 225.68	
	Sewer/Inside/Non-Profit	3"					\$ 493.68	
	Sewer/Inside/Non-Profit	4"	2				\$ 846.30	\$ 20,311
47	Sewer/Inside/Non-Profit	6"					\$ 1,763.13	\$ -
<u>48</u> 49	Sewer Only/Inside/Residential	Non-Profit Readiness to Serve Charge Billings, Total 5/8"	36	5			\$ <u>28.21</u>	\$ 118,311 \$1,692
1	l	Sewer Only Residential						}
50		Readiness to Serve Charge Billings, Total	Patoskav	ewer Rate Study 5			_	\$ 1,692
51	Seweronly/graigle/Summercial	Charge Billings, Total 5/8"	Tetra Te	ewer Rate Study 5 ch SmartRate 0			2/19 3/201488.8/5	9 AM -
51 52	Sewer Only/Inside/Soggmercial	Charge Billings, Total 5/8" 1"	Tetra Te	ch SmartRate 0 1			\$ 70.53	9 AM - \$ 846
51 52 53	Seweronly/graigle/Summercial	Charge Billings, Total 5/8"	Tetra Te	ch SmartRate 0				9 AM - \$ 846 \$ -

Table S2 Projected FY 2019 Sewer Billings Using FY 2018 Sewer Rates and Projected FY 2019 Sewer Billing Units

		Y 2019 Sewer Billings U		Sewer Rates and Pro	jected FY 2019 Sewei	Billing Units			
	B Sever Ontuffacide (Commonsiel	C	D	E	F	G	Н		<u> </u>
55	Sewer Only/Inside/Commercial	4"		0			\$ 846.30	\$	
		Sewer Only							
		Commercial							
		Readiness to Serve							
56		Charge Billings, Total		1				\$	846
		Readiness to Serve							
		Charge Billings, Total							
57 58	OUTCIDE CITY	Inside City	2,924	6				\$	1,328,186
	OUTSIDE-CITY Sewer/Outside/Resort Twp/Residential	5/8"	104				\$ 49.37	s	61,613
	Sewer/Outside/Resort Twp/Residential	3/4"	104				\$ 74.06		888
	Sewer/Outside/Resort Twp/Residential						\$ 123.44		1,481
							•	•	
		Resort Twp							
		Residential							
		Readiness to Serve							
62		Charge Billings, Total	106					\$	63,982
	Sewer/Outside/Resort Twp/Commercial Sewer/Outside/Resort Twp/Commercial	5/8"	9				\$ 49.37 \$ 74.06	\$	5,331
	Sewer/Outside/Resort Twp/Commercial	<u> </u>	3				\$ 123.44		2,666
	Sewer/Outside/Resort Twp/Commercial	1 1/2"	3				\$ 246.85		2,962
	Sewer/Outside/Resort Twp/Commercial	2"	5				\$ 394.96		23,697
68	Sewer/Outside/Resort Twp/Commercial	3"	1				\$ 863.98		10,367
69	Sewer/Outside/Resort Twp/Commercial	4"	0				\$ 1,481.10	\$	
		Resort Twp							
		Commercial							
		Readiness to Serve						\$	49,466
70 71	Sewer/Outside/Resort Twp/Industrial	Charge Billings, Total 1"	22				\$ 123.44	_	
	Sewer/Outside/Resort Twp/Industrial	1 1/2"					\$ 246.85		2,962
12									
		Resort Twp Industrial							
		Readiness to Serve							
73		Charge Billings, Total	1					\$	2,962
	Sewer/Outside/Resort Twp/Non-Profit	3/4"	2				\$ 74.06		1,777
	Sewer/Outside/Resort Twp/Non-Profit	1"	1				\$ 123.44		1,481
	Sewer/Outside/Resort Twp/Non-Profit	1 1/2"	1				\$ 246.85 \$ 394.96		2,962
	Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit	2"	0				\$ 863.98		
<u> ^^</u>	Sewer/Outside/Resolt Twp/Non-Pront	Resort Twp Non-						۱ ۴	
		Profit Readiness to							
		Serve Charge							
79		Billings, Total	4					\$	6,220
							1		
80	Sewer Only/Outside/Resort Twp/Residential	5/8"		60			\$ 49.37	\$	35,546
							a 74 00		
81	Sewer Only/Outside/Resort Twp/Residential	3/4"		1			\$ 74.06	\$	888
	Saura Osk/Outsido/Based Turs/Basidantial	1"		0			\$ 123.44	s	-
62	Sewer Only/Outside/Resort Twp/Residential						· · · · · · · · · · · · · · · · · · ·	Ť	
82	Sewer Only/Outside/Resort Twp/Residential	1 1/2"		0			\$ 246.85	s	
٣	Const engreensieur teorer impricondituur								
84	Sewer Only/Outside/Resort Twp/Residential	2"		0			\$ 394.96	\$	
								_ ۱	
85	Sewer Only/Outside/Resort Twp/Residential	3"		0			\$ 863.98	\$	·
86	Sewer Only/Outside/Resort Twp/Residential	4"		0		·	\$ 1,481.10	18	
-		6"		0			\$ 3,085.63	8	
18/	Sewer Only/Outside/Resort Twp/Residential	0					÷ 0,000.00		
1		Resort Twp Sewer						1	
1		Only Residential							
1		Readiness to Serve							
88		Charge Billings, Total		61				\$	36,434
	Sewer Only/Outside/Resort							1.	
89	Twp/Commercial	5/8"		5			\$ 49.37	\$	2,962
	Sewer Only/Outside/Resort						\$ 74.06	\$	888
90	Twp/Commercial Sewer Only/Outside/Resort	3/4"					4.00	-* ا	
01	Twp/Commercial	1"		0			\$ 123.44	s	
H	Sewer Only/Outside/Resort						1	Ť	
92	Twp/Commercial	1 1/2"		0			\$ 246.85	\$	
	Sewer Only/Outside/Resort								
93	Twp/Commercial	2"		1			\$ 394.96	\$	4,739
	Sewer Only/Outside/Resort								1
94	Twp/Commercial	3"		0		·	\$ 863.98	\$	<u>-</u>
1	Sewer Only/Outside/Resort	4"		o			\$ 1,481.10	e	_
85	Twp/Commercial Sewer Only/Outside/Resort	4"					ψ 1,401.1U	+*-	
	Twp/Gomressial 18002	6"	Petoskey S	ewer Rate Study ch-SmartRate			128 3/3085.63	ىيە ل	_
GR			Totra To	en-smartRate	·		MALE NO. 1 TO ST.		

				able S2			te study 2018 -	final	
	Projected F	Y 2019 Sewer Billings U C	Ising FY 2018 S D	Sewer Rates and Pro E	pjected FY 2019 Sewe F	r Billing Units G	Н		
		Resort Twp Sewer							
		Only Commercial							
		Readiness to Serve							
97		Charge Billings, Total		7				\$	8,589
98	Sewer Only/Outside/Resort Twp/Industrial	5/8"		0			\$ 49.37	\$	-
	Sewer Only/Outside/Resort Twp/Industrial								
99	(Started June2009 - RV Park)	4"		0	· · · · · · · · · · · · · · · · · · ·		\$ 1,481.10	\$	
		Resort Twp Sewer							
		Only Industrial							
		Readiness to Serve		•					
100		Charge Billings, Total Readiness to Serve		0				\$	
		Charge Billings, Total							
101		Resort Twp	133	68				\$	167,653
102		Bay View							
		_							
		Sewage pumped via 8"							
102	SE ONLY 4" BAY VIEW	FM, RTS charge billed as meter size = 4"		1			\$ 1,057.88	s	12,694
103	SE ONET 4 BAT VIEW	Readiness to Serve		I			φ_1,007.00_	-	12,034
		Charge Billings, Bay							
104		View						\$	12,694
		Outside City							
		Readiness to Serve							
		Charge Billings (Total							
405		Resort Twp and Bay View)						s	180,347
105		Total Inside and						۲°	100,047
		Outside City							
		Readiness to Serve							
106		Charge Billings						\$	1,508,533
Π			-			Projected			
		Commodity Charge		Actual Calendar	Actual Calendar	Calendar 2019 Billable Flow			
407		Billings, by Meter		2016 Billable Flow (100 CF Units)	2017 Billable Flow (100 CF Units)	(100 CF Units)			
107	Calendar 2019 Projected Billable Flow	Size							
	Multiplier Above Calendar 2017:					1.00			
109	INSIDE-CITY								
	Second Sewer/Inside/Residential	5/8"		51	51	51	\$ 2.85	\$	145
111	Sewer/Inside/Residential	5/8"		119,294	112,410	112,410	\$ 2.85		320,369
	Sewer/Inside/Residential	3/4"		2,140		2,211	\$ 2.85		6,301
_	Sewer/Inside/Residential	1"		12,514	9,685	9,685	\$ 2.85 \$ 2.85		27,602
	Sewer/Inside/Residential	<u>1 1/2"</u> 2"			<u> </u>	1,382	\$ 2.85	ŝ	3,939
115	SewennsiderResidential	Residential		1,454	1,502	1,502	<u> </u>	 ₩	0,000
11		Commodity Charge							
116		Billings, Total		150,748	142,388	142,388		\$	405,806
117	Sewer/Inside/Commercial	5/8"		23,489				\$	70,115
	Sewer/Inside/Commercial	3/4"		4,387	4,546				12,956
	Sewer/Inside/Commercial	1"		7,718					22,737
	Sewer/Inside/Commercial	<u>1 1/2"</u> 2"		<u>10,495</u> 26,495		12,097		\$ \$	<u>34,476</u> 72,586
	Sewer/Inside/Commercial Sewer/Inside/Commercial	3"		20,495	25,469				1,821
	Sewer/Inside/Commercial			19,488		15,851			45,175
	Sewer/Inside/Commercial	6"		0					1,214
		Commercial							
		Commodity Charge							
125		Billings, Total		92,319	91,608	91,608	e 0.05	\$	261,080
	Sewer/Inside/Industrial	5/8"		539			\$ 2.85 \$ 2.85	\$ \$	2,074
	Coursellagidgland state	A	-		. ^		rua ∠.60	<u>۹</u>	- 54
127	Sewer/Inside/Industrial	3/4"		0				\$	
127 128	Sewer/Inside/Industrial	1"	-	0	19	19	\$ 2.85		1.447
127 128 129				0	19 508	19 508	\$ 2.85	\$	1,447
127 128 129 130	Sewer/Inside/Industrial Sewer/Inside/Industrial	1" 1 1/2" 2" 3"		0 55 536 0 0	19 508 0 0	19 508 0 0	\$ 2.85 \$ 2.85 \$ 2.85 \$ 2.85 \$ 2.85	\$ \$ \$	1,447
127 128 129 130 131 132	Sewer/Inside/Industrial Sewer/Inside/Industrial Sewer/Inside/Industrial Sewer/Inside/Industrial Sewer/Inside/Industrial	1" 1 1/2" 2" 3" 4"		0 55 536 0 0 0	19 508 0 0 0	19 508 0 0 0	\$ 2.85 \$ 2.85 \$ 2.85 \$ 2.85 \$ 2.85 \$ 2.85 \$ 2.85 \$ 2.85	\$ \$ \$	<u>1,447</u> - - -
127 128 129 130 131 132	Sewer/Inside/Industrial Sewer/Inside/Industrial Sewer/Inside/Industrial Sewer/Inside/Industrial	1" 1 1/2" 2" 3"		0 55 536 0 0	19 508 0 0 0	19 508 0 0 0	\$ 2.85 \$ 2.85 \$ 2.85 \$ 2.85 \$ 2.85	\$ \$ \$	1,447
127 128 129 130 131 132	Sewer/Inside/Industrial Sewer/Inside/Industrial Sewer/Inside/Industrial Sewer/Inside/Industrial Sewer/Inside/Industrial	1" 1 1/2" 2" 3" 4" 6"		0 55 536 0 0 0	19 508 0 0 0	19 508 0 0 0	\$ 2.85 \$ 2.85 \$ 2.85 \$ 2.85 \$ 2.85 \$ 2.85 \$ 2.85 \$ 2.85	\$ \$ \$	1,447
127 128 129 130 131 132 133	Sewer/Inside/Industrial Sewer/Inside/Industrial Sewer/Inside/Industrial Sewer/Inside/Industrial Sewer/Inside/Industrial Sewer/Inside/Industrial	1" 1 1/2" 2" 3" 4" 6" Industrial Commodity		0 55 536 0 0 0 0 0	19 508 0 0 0 0	19 508 0 0 0 0	\$ 2.85 \$ 2.85 \$ 2.85 \$ 2.85 \$ 2.85 \$ 2.85 \$ 2.85 \$ 2.85	\$ \$ \$	-
127 128 129 130 131 132 133	Sewer/Inside/Industrial Sewer/Inside/Industrial Sewer/Inside/Industrial Sewer/Inside/Industrial Sewer/Inside/Industrial Sewer/Inside/Industrial	1" 1 1/2" 2" 3" 4" 6" Industrial Commodity Charge Billings, Total		0 55 536 0 0 0 0 0 1,130	19 508 0 0 0 0 0 1,255	19 508 0 0 0 0 0 1,255	\$ 2.85 \$ 2.85 \$ 2.85 \$ 2.85 \$ 2.85 \$ 2.85 \$ 2.85 \$ 2.85	\$ \$ \$ \$ \$ \$ \$ \$ \$	<u> </u>
127 128 129 130 131 132 133 133 134	Sewer/Inside/Industrial Sewer/Inside/Industrial Sewer/Inside/Industrial Sewer/Inside/Industrial Sewer/Inside/Industrial Sewer/Inside/Industrial	1" 1 1/2" 2" 3" 4" 6" Industrial Commodity		0 55 536 0 0 0 0 0	19 508 0 0 0 0 1,255 5,300	19 508 0 0 0 0 1,255 5,300	\$ 2.85 \$ 2.85 \$ 2.85 \$ 2.85 \$ 2.85 \$ 2.85 \$ 2.85 \$ 2.85 \$ 2.85 \$ 2.85 \$ 2.85 \$ 2.85 \$ 3 2.85 \$ 3 2.85 \$ 3 2.85 \$ 3 2.85 \$ 3 2.85 \$ 3 3 2.85 \$ 3 3 3 3 2.85 \$ 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	\$ \$ \$ \$	
127 128 129 130 131 132 133 133 134 135 136 137	Sewer/Inside/Industrial Sewer/Inside/Industrial Sewer/Inside/Industrial Sewer/Inside/Industrial Sewer/Inside/Industrial Sewer/Inside/Industrial Sewer/Inside/Non-Profit Sewer/Inside/Non-Profit Sewer/Inside/Non-Profit	1" 1 1/2" 2" 3" 4" 6" Industrial Commodity Charge Billings, Total 5/8" 3/4"		0 55 536 0 0 0 0 0 0 1,130 5,712 2,080 4,298	19 508 0 0 0 0 1,255 5,300 2,450	19 508 0 0 0 0 0 1,255 5,300 2,450 5,368	\$ 2.85 \$ 2.85 \$ 2.85 \$ 2.85 \$ 2.85 \$ 2.85 \$ 2.85 \$ 2.85 \$ 2.85 \$ 2.85 \$ 2.85 \$ 2.85 \$ 2.85 \$ 3 2.85 \$ 2.85 \$ 3	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - 3,575 15,105 6,982
127 128 129 130 131 132 133 134 135 136 137 138	Sewer/Inside/Industrial Sewer/Inside/Industrial Sewer/Inside/Industrial Sewer/Inside/Industrial Sewer/Inside/Industrial Sewer/Inside/Industrial Sewer/Inside/Industrial Sewer/Inside/Industrial Sewer/Inside/Non-Profit Sewer/Inside/Non-Profit Sewer/Inside/Non-Profit Sewer/Inside/Non-Profit	1" 1 1/2" 2" 3" 4" 6" Industrial Commodity Charge Billings, Total 5/8" 3/4" 1 1/2"		0 55 536 0 0 0 0 0 0 1,130 5,712 2,080 4,298 4,298 1,527	19 508 0 0 0 0 1,255 5,300 2,450 5,368 503	19 508 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$ 2.85 \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	
127 128 129 130 131 132 133 133 134 135 136 137 138 139	Sewer/Inside/Industrial Sewer/Inside/Industrial Sewer/Inside/Industrial Sewer/Inside/Industrial Sewer/Inside/Industrial Sewer/Inside/Industrial Sewer/Inside/Non-Profit Sewer/Inside/Non-Profit Sewer/Inside/Non-Profit Sewer/Inside/Non-Profit	1" 1 1/2" 2" 3" 4" 6" Industrial Commodity Charge Billings, Total 5/8" 3/4" 1 1/2" 2"		0 55 536 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19 508 0 0 0 0 1,255 5,300 2,450 5,368 5,368	19 508 0 0 0 0 1,255 5,300 2,450 5,368 503 503	\$ 2.85 \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	
127 128 129 130 131 132 133 133 134 135 136 137 138 139 140	Sewer/Inside/Industrial Sewer/Inside/Industrial Sewer/Inside/Industrial Sewer/Inside/Industrial Sewer/Inside/Industrial Sewer/Inside/Industrial Sewer/Inside/Non-Profit Sewer/Inside/Non-Profit Sewer/Inside/Non-Profit Sewer/Inside/Non-Profit Sewer/Inside/Non-Profit Sewer/Inside/Non-Profit	1" 1 1/2" 2" 3" 4" 6" Industrial Commodity Charge Billings, Total 6/8" 3/4" 1 1/2" 1 1/2" 3"		0 55 536 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19 508 0 0 0 0 1,255 5,300 2,450 5,368 5,368 503 503 25,881 3,948	19 508 0 0 0 0 1,255 5,300 2,450 5,368 5,03 5,368 5,03 5,03 25,881 3,948	\$ 2.85 2.85 2.85 2.85 2.85 2.85 2.85 2.85	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	
127 128 129 130 131 132 133 134 135 136 137 138 139 140 141	Sewer/Inside/Industrial Sewer/Inside/Industrial Sewer/Inside/Industrial Sewer/Inside/Industrial Sewer/Inside/Industrial Sewer/Inside/Industrial Sewer/Inside/Industrial Sewer/Inside/Non-Profit Sewer/Inside/Non-Profit Sewer/Inside/Non-Profit Sewer/Inside/Non-Profit Sewer/Inside/Non-Profit	1" 1 1/2" 2" 3" 4" 1 ndustrial Commodity Charge Billings, Total 6/8" 3/4" 1 1/2" 1 1/2" 3" 4"		0 55 536 0 0 0 0 0 0 1,130 5,712 2,080 4,298 1,527 24,688 5,240 32,609	19 508 0 0 0 0 1,255 5,300 2,450 5,368 5,368 5,368 3,948 38,858	19 508 0 0 0 0 1,255 5,300 2,450 5,368 5,368 5,368 3,948 3,948	\$ 2.85 2.85 2.85 2.85 2.85 2.85 2.85 2.85	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	3,676 15,105 6,982 15,298 1,433 73,760
127 128 129 130 131 132 133 134 135 136 137 138 139 140 141	Sewer/Inside/Industrial Sewer/Inside/Industrial Sewer/Inside/Industrial Sewer/Inside/Industrial Sewer/Inside/Industrial Sewer/Inside/Industrial Sewer/Inside/Non-Profit Sewer/Inside/Non-Profit Sewer/Inside/Non-Profit Sewer/Inside/Non-Profit Sewer/Inside/Non-Profit Sewer/Inside/Non-Profit	1" 1 1/2" 2" 3" 4" 6" Industrial Commodity Charge Billings, Total 6/8" 3/4" 1 1/2" 1 1/2" 3"		0 55 536 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19 508 0 0 0 0 1,255 5,300 2,450 5,368 5,368 5,368 3,948 38,858	19 508 0 0 0 0 1,255 5,300 2,450 5,368 5,368 5,368 3,948 3,948	\$ 2.85 2.85 2.85 2.85 2.85 2.85 2.85 2.85	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	
127 128 129 130 131 132 133 134 135 136 137 138 139 140 141	Sewer/Inside/Industrial Sewer/Inside/Industrial Sewer/Inside/Industrial Sewer/Inside/Industrial Sewer/Inside/Industrial Sewer/Inside/Industrial Sewer/Inside/Industrial Sewer/Inside/Non-Profit Sewer/Inside/Non-Profit Sewer/Inside/Non-Profit Sewer/Inside/Non-Profit Sewer/Inside/Non-Profit	1" 1 1/2" 2" 3" 4" 6" Industrial Commodity Charge Billings, Total 5/8" 3/4" 1 1/2" 1 1/2" 3" 4" 6"		0 55 536 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19 508 0 0 0 0 1,255 5,300 2,450 5,368 5,368 5,368 5,368 5,368 5,368 5,368 5,368 5,368 5,368 5,368 5,368 5,368 5,368 5,368 5,368 5,368 5,08 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19 508 0 0 0 0 1,255 5,300 2,450 5,368 5,368 5,368 3,948 3,948	\$ 2.85 2.85 2.85 2.85 2.85 2.85 2.85 2.85	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	
127 128 129 130 131 132 133 134 135 136 137 138 139 140 141	Sewer/Inside/Industrial Sewer/Industrial Sewer/Inside/Industrial Sewer/Industrial 1" 1 1/2" 2" 3" 4" 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Petoskey S	0 55 536 0 0 0 0 0 0 1,130 5,712 2,080 4,298 1,527 24,688 5,240 32,609	19 508 0 0 0 0 1,255 5,300 2,450 5,368 5,368 5,368 5,368 5,368 5,368 5,368 5,368 5,368 5,368 5,368 5,368 5,368 5,368 5,368 5,368 5,368 5,08 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19 508 0 0 0 0 1,255 5,300 2,450 5,368 503 25,881 3,948 38,858 0 0	\$ 2.85 2.85 2.85 2.85 2.85 2.85 2.85 2.85	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		

 Table S2
 W&S rate study 2018 - final

 Projected FY 2019 Sewer Billings Using FY 2018 Sewer Rates and Projected FY 2019 Sewer Billing Units
 Table S2

	Projected F B	Ċ	D	E	F	G		н		
\vdash	В	Sewer Only	U	E	F		ľ	<u> </u>		
1		Residential								
1 1		Commodity Charge								
145		Billings, Total		163	224	224				638
	Sewer Only/Inside/Commercial	5/8"		0	0	0	\$	2.85	\$	-
147	Sewer Only/Inside/Commercial	1"		386	365	365	\$	2.85		1,040
148	Sewer Only/Inside/Commercial	2"		0	0	0	\$	2.85	\$	-
	Sewer Only/Inside/Commercial	3"		0	0	0	\$		\$	-
150	Sewer Only/Inside/Commercial	4"		0	0	0	\$	2.85	\$	-
		Sewer Only								
1 1		Commercial								
		Commodity Charge								
151		Billings, Total		386	365	365			\$	1,040
		Commodity Charge								
		Billings, Total Inside								
152		City		320,900	318,148	318,148	L		\$	906,713
153	OUTSIDE-CITY	C /0#		0.007	0.005	0.005	-	0.05		49.005
	Sewer/Outside/Resort Twp/Residential	5/8"		6,627	6,665	6,665		2.85	\$	18,995
	Sewer/Outside/Resort Twp/Residential	3/4"		25	16		\$	2.85	\$	45
156	Sewer/Outside/Resort Twp/Residential	1" Resort Twp		41	46	40	\$	2.85	\$	131
		Residential					1			
1		Commodity Charge								
4 67				6 602	6 7 7 7	6,727			\$	19,171
157	Sewer/Outside/Resort Twp/Commercial	Billings, Total 5/8"		<u> </u>	<u>6,727</u> 647	647		2.85	> \$	1,843
150	Sewer/Outside/Resort Twp/Commercial	3/4"	ļ	230	189	189		2.85	3 \$	538
	Sewer/Outside/Resort Twp/Commercial	<u> </u>		852	739	739		2.85		2,106
	Sewer/Outside/Resort Twp/Commercial	1 1/2"		1,796	2,129	2,129		2.85	э \$	6,067
	Sewer/Outside/Resort Twp/Commercial	2"		9,336	17,516	17,516		2.85	\$	49,920
	Sewer/Outside/Resort Twp/Commercial	3"		7,475	6,278	6,278		2.85	s	17,892
	Sewer/Outside/Resort Twp/Commercial	4"			0,210	0,2,0		2.85	ŝ	-
	oswer/ousider/coort improvinitional	Resort Twp		•	<u>,</u>	`	<u> </u>			
		Commercial								
		Commodity Charge								
165		Billings, Total		20,635	27,498	27,498			\$	78,366
	Sewer/Outside/Resort Twp/Industrial	1"		899	896	896		2.85	\$	2,553
	Sewer/Outside/Resort Twp/Industrial	1 1/2"		0		0		2.85	\$	-
		Resort Twp Industrial					ł			
1		Commodity Charge								
168		Billings, Total		899	896	896			\$	2,553
	Sewer/Outside/Resort Twp/Non-Profit	3/4"		72	85		\$	2.85	\$	242
						1 85		2.00		
										182
170	Sewer/Outside/Resort Twp/Non-Profit	1"		68	64	64	\$	2.85	\$	182 262
170 171	Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit	1" 2"		68 64	64 92	64	\$ \$	2.85 2.85	\$	182 262
170 171	Sewer/Outside/Resort Twp/Non-Profit	1"		68	64 92	64 92	\$ \$	2.85	\$	
170 171	Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit	1" 2" 3"		68 64	64 92	64 92	\$ \$	2.85 2.85	\$	
170 171	Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit	1" 2" 3" Resort Twp Non-		68 64	64 92	64 92	\$ \$	2.85 2.85	\$	
170 171 172	Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit	1" 2" 3" Resort Twp Non- Profit Commodity		68 64 3	64 92 0	64 92 0	\$ \$ \$	2.85 2.85	\$	262
170 171	Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit	1" 2" 3" Resort Twp Non-		68 64	64 92	64 92	\$ \$ \$	2.85 2.85	\$ \$ \$	
170 171 172 173	Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit	1" 2" 3" Resort Twp Non- Profit Commodity Charge Billings, Total		68 64 3 207	64 92 0 241	64 92 0 241	\$ \$ \$	2.85 2.85 2.85	\$ \$ \$	<u>- 262</u> - 686
170 171 172 173	Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit	1" 2" 3" Resort Twp Non- Profit Commodity		68 64 3	64 92 0	64 92 0	\$ \$ \$	2.85 2.85	60 60 60	262
170 171 172 173 174	Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer Only/Outside/Resort Twp/Residential	1" 2" 3" Resort Twp Non- Profit Commodity Charge Billings, Total 5/8"		68 64 3 207	64 92 0 241 2,149	64 92 0 241	\$ \$ \$	2.85 2.85 2.85	60 60 60	262
170 171 172 173 174	Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit	1" 2" 3" Resort Twp Non- Profit Commodity Charge Billings, Total 5/8"		68 64 3 207 2,555	64 92 0 241 2,149	64 92 0 241 2,149	\$ \$ \$	2.85 2.85 2.85 2.85	\$ \$ \$	<u>262</u> - 686 6,124
170 171 172 173 174 175	Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer Only/Outside/Resort Twp/Residential Sewer Only/Outside/Resort Twp/Residential	1" 2" 3" Resort Twp Non- Profit Commodity Charge Billings, Total 5/8" 3/4"		68 64 3 207 2,555	64 92 0 241 2,149 425	64 92 0 241 2,149 425	\$ \$ \$	2.85 2.85 2.85 2.85	\$ \$ \$ \$	<u>262</u> - 686 6,124
170 171 172 173 174 175	Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer Only/Outside/Resort Twp/Residential	1" 2" 3" Resort Twp Non- Profit Commodity Charge Billings, Total 5/8" 3/4"		68 64 3 207 2,555 56	64 92 0 241 2,149 425	64 92 0 241 2,149 425	\$ \$ \$ \$	2.85 2.85 2.85 2.85 2.85	\$ \$ \$ \$	<u>262</u> - 686 6,124
170 171 172 173 174 175 176	Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer Only/Outside/Resort Twp/Residential Sewer Only/Outside/Resort Twp/Residential Sewer Only/Outside/Resort Twp/Residential	1" 2" 3" Resort Twp Non- Profit Commodity Charge Billings, Total 5/8" 3/4"		68 64 3 207 2,555 56	64 92 0 241 2,149 425 0	64 92 0 241 2,149 425 0	\$ \$ \$ \$	2.85 2.85 2.85 2.85 2.85	\$ \$ \$ \$	<u>- 262</u> - - 686 6,124
170 171 172 173 174 175 176	Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer Only/Outside/Resort Twp/Residential Sewer Only/Outside/Resort Twp/Residential	1" 2" 3" Resort Twp Non- Profit Commodity Charge Billings, Total 5/8" 3/4"		68 64 3 207 2,555 56 42	64 92 0 241 2,149 425 0	64 92 0 241 2,149 425 0	\$ \$ \$ \$ \$	2.85 2.85 2.85 2.85 2.85 2.85 2.85 2.85	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	<u>262</u> - 686 6,124
170 171 172 173 174 175 176 177	Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer Only/Outside/Resort Twp/Residential Sewer Only/Outside/Resort Twp/Residential Sewer Only/Outside/Resort Twp/Residential	1" 2" 3" Resort Twp Non- Profit Commodity Charge Billings, Total 5/8" 3/4" 1" 1 1/2"		68 64 3 207 2,555 56 42	64 92 0 241 2,149 425 0 0	64 92 0 241 2,149 425 0 0	\$ \$ \$ \$ \$	2.85 2.85 2.85 2.85 2.85 2.85 2.85 2.85	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	<u>262</u> - 686 6,124
170 171 172 173 174 175 176 177	Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer Only/Outside/Resort Twp/Residential Sewer Only/Outside/Resort Twp/Residential Sewer Only/Outside/Resort Twp/Residential	1" 2" 3" Resort Twp Non- Profit Commodity Charge Billings, Total 5/8" 3/4" 1" 1 1/2"		68 64 3 207 2,555 56 42 120	64 92 0 241 2,149 425 0 0	64 92 0 241 2,149 425 0 0 0	\$ \$ \$ \$ \$ \$ \$	2.85 2.85 2.85 2.85 2.85 2.85 2.85 2.85	\$ \$ \$ \$ \$ \$ \$ \$	<u>- 262</u> - - 686 6,124
170 171 172 173 174 175 176 177 178	Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer Only/Outside/Resort Twp/Residential Sewer Only/Outside/Resort Twp/Residential Sewer Only/Outside/Resort Twp/Residential	1" 2" 3" Resort Twp Non- Profit Commodity Charge Billings, Total 5/8" 3/4" 1" 1 1/2" 2"		68 64 3 207 2,555 56 42 120	64 92 0 241 2,149 425 0 0 0	64 92 0 241 2,149 425 0 0 0	\$ \$ \$ \$	2.85 2.85 2.85 2.85 2.85 2.85 2.85 2.85	\$ \$ \$ \$ \$ \$ \$ \$	<u>- 262</u> - - 686 6,124
170 171 172 173 174 175 176 177 178	Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer Only/Outside/Resort Twp/Residential Sewer Only/Outside/Resort Twp/Residential Sewer Only/Outside/Resort Twp/Residential Sewer Only/Outside/Resort Twp/Residential Sewer Only/Outside/Resort Twp/Residential Sewer Only/Outside/Resort Twp/Residential	1" 2" 3" Resort Twp Non- Profit Commodity Charge Billings, Total 5/8" 3/4" 1" 1 1/2" 2" 3"		68 64 3 207 2,555 56 42 120 0 0	64 92 0 241 2,149 425 0 0 0 0 0	64 92 0 241 2,149 425 0 0 0 0 0	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2.85 2.85 2.85 2.85 2.85 2.85 2.85 2.85	\$ 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	<u>- 262</u> - - 686 6,124
170 171 172 173 174 175 176 177 178	Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer Only/Outside/Resort Twp/Residential Sewer Only/Outside/Resort Twp/Residential Sewer Only/Outside/Resort Twp/Residential Sewer Only/Outside/Resort Twp/Residential Sewer Only/Outside/Resort Twp/Residential	1" 2" 3" Resort Twp Non- Profit Commodity Charge Billings, Total 5/8" 3/4" 1" 1 1/2" 2" 3"		68 64 3 207 2,555 56 42 120 0	64 92 0 241 2,149 425 0 0 0 0 0	64 92 0 241 2,149 425 0 0 0 0 0	\$ \$ \$ \$ \$ \$ \$	2.85 2.85 2.85 2.85 2.85 2.85 2.85 2.85	\$ 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	<u>- 262</u> - - 686 6,124
170 171 172 173 174 175 176 177 178 179 180	Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer Only/Outside/Resort Twp/Residential Sewer Only/Outside/Resort Twp/Residential	1" 2" 3" Resort Twp Non- Profit Commodity Charge Billings, Total 5/8" 3/4" 1 1/2" 2" 3"		68 64 3 207 2,555 56 42 120 0 0 0	64 92 0 241 2,149 425 0 0 0 0 0	64 92 0 241 2,149 425 0 0 0 0 0	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2.85 2.85 2.85 2.85 2.85 2.85 2.85 2.85	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	<u>262</u> - 686 6,124
170 171 172 173 174 175 176 177 178 179 180	Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer Only/Outside/Resort Twp/Residential Sewer Only/Outside/Resort Twp/Residential Sewer Only/Outside/Resort Twp/Residential Sewer Only/Outside/Resort Twp/Residential Sewer Only/Outside/Resort Twp/Residential Sewer Only/Outside/Resort Twp/Residential	1" 2" 3" Resort Twp Non- Profit Commodity Charge Billings, Total 5/8" 3/4" 1" 1 1/2" 2" 3" 4" 6"		68 64 3 207 2,555 56 42 120 0 0	64 92 0 241 2,149 425 0 0 0 0 0	64 92 0 241 2,149 425 0 0 0 0 0	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2.85 2.85 2.85 2.85 2.85 2.85 2.85 2.85	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	<u>- 262</u> - - 686 6,124
170 171 172 173 174 175 176 177 178 179 180	Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer Only/Outside/Resort Twp/Residential Sewer Only/Outside/Resort Twp/Residential	1" 2" 3" Resort Twp Non- Profit Commodity Charge Billings, Total 5/8" 3/4" 1" 1 1/2" 2" 3" 4" Resort Twp Sewer		68 64 3 207 2,555 56 42 120 0 0 0	64 92 0 241 2,149 425 0 0 0 0 0	64 92 0 241 2,149 425 0 0 0 0 0	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2.85 2.85 2.85 2.85 2.85 2.85 2.85 2.85	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	<u>- 262</u> - - 686 6,124
170 171 172 173 174 175 176 177 178 179 180	Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer Only/Outside/Resort Twp/Residential Sewer Only/Outside/Resort Twp/Residential	1" 2" 3" Resort Twp Non- Profit Commodity Charge Billings, Total 5/8" 3/4" 1" 1 1/2" 2" 3" 4" 6" Resort Twp Sewer Only Residential		68 64 3 207 2,555 56 42 120 0 0 0	64 92 0 241 2,149 425 0 0 0 0 0	64 92 0 241 2,149 425 0 0 0 0 0	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2.85 2.85 2.85 2.85 2.85 2.85 2.85 2.85	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	<u>- 262</u> - - 686 6,124
170 171 172 173 174 175 176 177 178 179 180 181	Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer Only/Outside/Resort Twp/Residential Sewer Only/Outside/Resort Twp/Residential	1" 2" 3" Resort Twp Non- Profit Commodity Charge Billings, Total 5/8" 3/4" 1 1/2" 1 1/2" 2" 3" 4" 6" Resort Twp Sewer Only Residential Commodity Charge		68 64 3 207 2,555 56 42 120 0 0 0 0 0	64 92 0 241 2,149 425 0 0 0 0 0 0 0 0	64 92 0 241 2,149 425 0 0 0 0 0 0 0	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2.85 2.85 2.85 2.85 2.85 2.85 2.85 2.85	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	<u>686</u> 6,124 1,211 - - - - -
170 171 172 173 174 175 176 177 178 179 180 181	Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer Only/Outside/Resort Twp/Residential Sewer Only/Outside/Resort Twp/Residential	1" 2" 3" Resort Twp Non- Profit Commodity Charge Billings, Total 5/8" 3/4" 1" 1 1/2" 2" 3" 4" 6" Resort Twp Sewer Only Residential		68 64 3 207 2,555 56 42 120 0 0 0	64 92 0 241 2,149 425 0 0 0 0 0 0 0 0	64 92 0 241 2,149 425 0 0 0 0 0 0 0 0	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2.85 2.85 2.85 2.85 2.85 2.85 2.85 2.85	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	<u> </u>
170 171 172 173 174 175 176 177 178 179 180 181	Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer Only/Outside/Resort Twp/Residential Sewer Only/Outside/Resort Twp/Residential	1" 2" 3" Resort Twp Non- Profit Commodity Charge Billings, Total 5/8" 3/4" 1 1/2" 1 1/2" 2" 3" 4" Resort Twp Sewer Only Residential Commodity Charge Billings, Total		68 64 3 207 2,555 56 42 120 0 0 0 0 0 0 2,773	64 92 0 241 2,149 425 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	64 92 0 241 2,149 425 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2.85 2.85 2.85 2.85 2.85 2.85 2.85 2.85	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	<u>686</u> 6,124 1,211 - - - - 7,335
170 171 172 173 174 175 176 177 178 179 180 181 181 182 183	Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer Only/Outside/Resort Twp/Residential Sewer Only/Outside/Resort Twp/Residential	1" 2" 3" Resort Twp Non- Profit Commodity Charge Billings, Total 5/8" 3/4" 1 1/2" 1 1/2" 2" 3" 4" 6" Resort Twp Sewer Only Residential Commodity Charge		68 64 3 207 2,555 56 42 120 0 0 0 0 0	64 92 0 241 2,149 425 0 0 0 0 0 0 0 0 0 0 0 0 0	64 92 0 241 2,149 425 0 0 0 0 0 0 0	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2.85 2.85 2.85 2.85 2.85 2.85 2.85 2.85	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	<u>- 686</u> 6,124 1,211 - - - - - -
170 171 172 173 174 175 176 177 178 179 180 181 182 182 183	Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer Only/Outside/Resort Twp/Residential Sewer Only/Outside/Resort Twp/Residential	1" 2" 3" Resort Twp Non- Profit Commodity Charge Billings, Total 5/8" 3/4" 1 1/2" 2" 1 1/2" 2" 3" 4" 6" Resort Twp Sewer Only Residential Commodity Charge Billings, Total 5/8"		68 64 3 207 2,555 56 42 120 0 0 0 0 0 2,773 452	64 92 0 241 2,149 425 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	64 92 0 241 2,149 425 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2.85 2.85 2.85 2.85 2.85 2.85 2.85 2.85	s s s s s s s s s s s s s s s s s s s s s s s s	<u></u>
170 171 172 173 174 175 176 177 178 179 180 181 182 183 184	Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer Only/Outside/Resort Twp/Residential Sewer Only/Outside/Resort Twp/Residential	1" 2" 3" Resort Twp Non- Profit Commodity Charge Billings, Total 5/8" 3/4" 1 1/2" 1 1/2" 2" 3" 4" Resort Twp Sewer Only Residential Commodity Charge Billings, Total		68 64 3 207 2,555 56 42 120 0 0 0 0 0 0 2,773	64 92 0 241 2,149 425 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	64 92 0 241 2,149 425 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2.85 2.85 2.85 2.85 2.85 2.85 2.85 2.85	s s s s s s s s s s s s s s s s s s s s s s s s	262
170 171 172 173 174 175 176 177 178 180 181 182 183 184	Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer Only/Outside/Resort Twp/Residential Sewer Only/Outside/Resort Twp/Residential	1" 2" 3" Resort Twp Non- Profit Commodity Charge Billings, Total 5/8" 3/4" 1 1/2" 2" 3" 4" 6" Resort Twp Sewer Only Residential Commodity Charge Billings, Total 5/8" 3/4"		68 64 3 207 2,555 56 42 120 0 0 0 0 0 0 0 0 0 2,773 452 320	64 92 0 241 2,149 425 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	64 92 0 241 2,149 425 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2.85 2.85 2.85 2.85 2.85 2.85 2.85 2.85	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	<u>686</u> 6,124 1,211 - - - - - - - - - - - - - - - - - -
170 171 171 172 173 174 175 176 177 178 179 180 181 181 182 183 184 185	Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer Only/Outside/Resort Twp/Residential Sewer Only/Outside/Resort Twp/Commercial Sewer Only/Outside/Resort Twp/Commercial	1" 2" 3" Resort Twp Non- Profit Commodity Charge Billings, Total 5/8" 3/4" 1 1/2" 2" 1 1/2" 2" 3" 4" 6" Resort Twp Sewer Only Residential Commodity Charge Billings, Total 5/8"		68 64 3 207 2,555 56 42 120 0 0 0 0 0 2,773 452	64 92 0 241 2,149 425 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	64 92 0 241 2,149 425 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2.85 2.85 2.85 2.85 2.85 2.85 2.85 2.85	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	
170 171 171 172 173 174 175 176 177 178 179 180 181 181 182 183 184 185	Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer Only/Outside/Resort Twp/Residential Sewer Only/Outside/Resort Twp/Commercial Sewer Only/Outside/Resort	1" 2" 3" Resort Twp Non- Profit Commodity Charge Billings, Total 5/8" 3/4" 1 1/2" 2" 3" 4" Resort Twp Sewer Only Residential Commodity Charge Billings, Total 5/8"		68 64 3 207 2,555 56 42 120 0 0 0 0 0 0 0 0 2,773 452 320 0	64 92 0 241 2,149 425 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	64 92 0 241 2,149 425 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2.85 2.85 2.85 2.85 2.85 2.85 2.85 2.85	s s s s s s s s s s s s s s s s s s s s s s s s s s s s s s	686 6,124
170 171 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186	Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer Only/Outside/Resort Twp/Residential Sewer Only/Outside/Resort Twp/Commercial Sewer Only/Outside/Resort Twp/Commercial Sewer Only/Outside/Resort Twp/Commercial	1" 2" 3" Resort Twp Non- Profit Commodity Charge Billings, Total 5/8" 3/4" 1 1/2" 2" 3" 4" 6" Resort Twp Sewer Only Residential Commodity Charge Billings, Total 5/8" 3/4"		68 64 3 207 2,555 56 42 120 0 0 0 0 0 0 0 0 0 2,773 452 320	64 92 0 241 2,149 425 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	64 92 0 241 2,149 425 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2.85 2.85 2.85 2.85 2.85 2.85 2.85 2.85	s s s s s s s s s s s s s s s s s s s s s s s s s s s s s s	686 6,124
170 171 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186	Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer Only/Outside/Resort Twp/Residential Sewer Only/Outside/Resort Twp/Commercial Sewer Only/Outside/Resort Twp/Commercial Sewer Only/Outside/Resort Twp/Commercial Sewer Only/Outside/Resort	1" 2" 3" Resort Twp Non- Profit Commodity Charge Billings, Total 5/8" 3/4" 1 1/2" 2" 3" 4" 6" Resort Twp Sewer Only Residential Commodity Charge Billings, Total 5/8" 3/4"		68 64 3 207 2,555 56 42 120 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	64 92 0 241 2,149 425 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	64 92 0 241 2,149 425 0 0 0 0 0 0 0 0 0 0 0 0 2,574 701 312 0 0 0	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2.85 2.85 2.85 2.85 2.85 2.85 2.85 2.85	\$ \$ \$ \$	
170 171 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186	Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer Only/Outside/Resort Twp/Residential Sewer Only/Outside/Resort Twp/Commercial Sewer Only/Outside/Resort Twp/Commercial Sewer Only/Outside/Resort Twp/Commercial Sewer Only/Outside/Resort Twp/Commercial Sewer Only/Outside/Resort Twp/Commercial Sewer Only/Outside/Resort	1" 2" 3" Resort Twp Non- Profit Commodity Charge Billings, Total 5/8" 3/4" 1 1/2" 2" 3" 4" Resort Twp Sewer Only Residential Commodity Charge Billings, Total 5/8"		68 64 3 207 2,555 56 42 120 0 0 0 0 0 0 0 0 2,773 452 320 0	64 92 0 241 2,149 425 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	64 92 0 241 2,149 425 0 0 0 0 0 0 0 0 0 0 0 0 2,574 701 312 0 0 0	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2.85 2.85 2.85 2.85 2.85 2.85 2.85 2.85	\$ \$ \$ \$	
170 171 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187	Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Residential Sewer Only/Outside/Resort br>Twp/Commercial Sewer Only/Outside/Resort Twp/Commercial Sewer Only/Outside/Resort Twp/Commercial Sewer Only/Outside/Resort Twp/Commercial Sewer Only/Outside/Resort Twp/Commercial Sewer Only/Outside/Resort	1" 2" 3" Resort Twp Non- Profit Commodity Charge Billings, Total 5/8" 3/4" 1 1/2" 2" 3" 4" 6" Resort Twp Sewer Only Residential Commodity Charge Billings, Total 5/8" 3/4" 1 1/2" 2"		68 64 64 3 207 2,555 56 42 120 0 0 0 0 0 0 0 2,773 452 320 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	64 92 0 241 2,149 425 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	64 92 0 241 2,149 425 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 312 0 3,526	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2.85 2.85 2.85 2.85 2.85 2.85 2.85 2.85	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	
170 171 171 172 173 174 175 176 177 178 179 180 181 181 182 183 184 185 186 187 188	Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer Only/Outside/Resort Twp/Residential Sewer Only/Outside/Resort Twp/Commercial Sewer Only/Outside/Resort Twp/Commercial Sewer Only/Outside/Resort Twp/Commercial Sewer Only/Outside/Resort Twp/Commercial Sewer Only/Outside/Resort Twp/Commercial Sewer Only/Outside/Resort	1" 2" 3" Resort Twp Non- Profit Commodity Charge Billings, Total 5/8" 3/4" 1 1/2" 2" 3" 4" 6" Resort Twp Sewer Only Residential Commodity Charge Billings, Total 5/8" 3/4"	Potoskey S	68 64 64 3 207 2,555 56 42 120 0 0 0 0 0 0 0 0 2,773 452 320 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	64 92 0 241 2,149 425 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	64 92 0 241 2,149 425 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2.85 2.85 2.85 2.85 2.85 2.85 2.85 2.85	s s s s s s s s s s s s s s s s s s s s s s s s s s s s s s s s s s s s	
170 171 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188	Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Residential Sewer Only/Outside/Resort br>Twp/Commercial Sewer Only/Outside/Resort Twp/Commercial Sewer Only/Outside/Resort Twp/Commercial Sewer Only/Outside/Resort Twp/Commercial Sewer Only/Outside/Resort Twp/Commercial Sewer Only/Outside/Resort Twp/Commercial Sewer Only/Outside/Resort Twp/Commercial Sewer Only/Outside/Resort Twp/Commercial Sewer Only/Outside/Resort	1" 2" 3" Resort Twp Non- Profit Commodity Charge Billings, Total 5/8" 3/4" 1 1/2" 2" 3" 4" 6" Resort Twp Sewer Only Residential Commodity Charge Billings, Total 5/8" 3/4" 1 1/2" 1 1/2"	Petoskey S	68 64 64 3 207 2,555 56 42 120 0 0 0 0 0 2,773 452 320 0 0 5,150 0 0 5,150 0 0 5,150	64 92 0 241 2,149 425 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	64 92 0 241 2,149 425 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 312 0 3,526 0	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2.85 2.85 2.85 2.85 2.85 2.85 2.85 2.85	s s s s	
170 171 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 188 188	Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer Only/Outside/Resort Twp/Residential Sewer Only/Outside/Resort Twp/Commercial Sewer Only/Outside/Resort Twp/Commercial	1" 2" 3" Resort Twp Non- Profit Commodity Charge Billings, Total 5/8" 3/4" 1 1/2" 2" 3" 4" 6" Resort Twp Sewer Only Residential Commodity Charge Billings, Total 5/8" 3/4" 1 1/2" 2"	Petoskey S	68 64 64 3 207 2,555 56 42 120 0 0 0 0 0 0 0 0 2,773 452 320 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	64 92 0 241 2,149 425 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	64 92 0 241 2,149 425 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 312 0 3,526 0	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2.85 2.85 2.85 2.85 2.85 2.85 2.85 2.85	s s s s	
170 171 171 172 173 174 175 176 177 178 177 178 183 184 183 184 185 186 187 188 188 188 188 188 188	Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Non-Profit Sewer/Outside/Resort Twp/Residential Sewer Only/Outside/Resort br>Twp/Commercial Sewer Only/Outside/Resort Twp/Commercial Sewer Only/Outside/Resort Twp/Commercial Sewer Only/Outside/Resort Twp/Commercial Sewer Only/Outside/Resort Twp/Commercial Sewer Only/Outside/Resort Twp/Commercial Sewer Only/Outside/Resort Twp/Commercial Sewer Only/Outside/Resort Twp/Commercial Sewer Only/Outside/Resort	1" 2" 3" Resort Twp Non- Profit Commodity Charge Billings, Total 5/8" 3/4" 1 1/2" 2" 3" 4" 6" Resort Twp Sewer Only Residential Commodity Charge Billings, Total 5/8" 3/4" 1 1/2" 1 1/2"	Petoskey S Tetra Te	68 64 64 3 207 2,555 56 42 120 0 0 0 0 0 2,773 452 320 0 0 5,150 0 0 5,150 0 0 5,150	64 92 0 241 2,149 425 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	64 92 0 241 2,149 425 0	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2.85 2.85 2.85 2.85 2.85 2.85 2.85 2.85	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	<u>686</u> 6,124 1,211 - - - - - - - - - - - - - - - - - -

Table S2

Projected FY 2019 Sewer Billings Usin	n EV 2018 Sower Rates and Pro	piected EV 2019 Sewer Billing Units
Projected F1 2019 Sewer Dillings Usin	g FT 2010 Sewer Rales and Pro	Sjected Fi zvið Sewer Dinnig Units

		Y 2019 Sewer Billings L							
-+	В	C Resort Twp Sewer	D	E	F	G	Н	+	1
		Only Commercial						1	
		Commodity Charge							
191		Billings, Total		5,922	4,539	4,539		\$	12,935
192	Sewer Only/Outside/Resort Twp/Industrial	5/8"		0	0		\$ 2.85	\$	•
	Sewer Only/Outside/Resort Twp/Industrial								
193 ((Started June2009 - RV Park)	4" Resort Twp Sewer	-	0	0	0	\$ 2.85	\$	-
		Only Industrial							
		Commodity Charge							
194		Billings, Total		0	0	0		\$	•
		Commodity Charge							
		Billings, Total Resort			40.475				
195		Township Springvale - Bear		37,129	42,475	42,475		\$	121,046
		Creek Sewer							
196		Authority							
		Monthly Commodity							
		Charge: 95% of City						1	
		Commodity Charge,		50.040	50.077	52,677	¢ 0.74		142.622
197		per 100 Cubic Feet Commodity Charge		59,012	52,677	52,677	\$ 2.71	╞╸	142,022
198		Billings, Total SVBC						s	142,622
199		Bay View							
		Bay View rates = 1.25							74 40-
200	SE ONLY 4" BAY VIEW	x City (per contract) Commodity Charge		20,584		20,016	\$ 3.57	\$	71,457
		Billings, Total Bay							
201		View		20,584	20,016	20,016		\$	71,457
		Commodity Charge						Τ	
		Billings, Total							
		Outside City (Resort							
202		Twp, SVBC and Bay View)		116,725	115,168	115,168		s	335,125
202		Commodity Charge		110,725	110,100	110,100		Ť	
		Billings, Total Inside							
203		and Outside City		437,625	433,316	433,316		\$	1,241,838
	INSIDE-CITY AND OUTSIDE-CITY								
204	DEDUCTS AND FREEZE CREDITS			10,707	8,603	8,603	\$ 2.85	\$	24,518
	SE Deduct Residential SE Deduct Commercial			19,658	17,115				48,777
the second second second second second second second second second second second second second second second s	SE Deduct Industrial			1,683	1,352				3,853
	SE Deduct Non-Profit	· · · · · · · · · · · · · · · · · · ·		6,283	7,129			\$	20,317
209	Total Inside-City Deducts			38,331	34,199			\$	97,465
	SE Deduct Outside Residential			207	242				<u>689</u> 1,755
	SE Deduct Outside Commercial SE Deduct Outside Industrial			1,035	0				- 1,700 -
	SE Deduct Outside Non-Profit			0	o				-
214				1,242	858	858		\$	2,444
	Freeze Credit Residential			3,406				5	2,730
	Freeze Credit Commercial			316				5	698
	Freeze Credit Industrial			0	-1			\$	(2) (25)
218 219	Freeze Credit Non-Profit Total Inside-City Freeze Credits			3,803				\$	3,401
	Freeze Credit Outside Residential			105			\$ 2.85	\$	37
221	Freeze Credit Outside Commercial			0	0	0	\$ 2.85	\$	-
	Freeze Credit Outside Industrial			0					•
	Freeze Credit Outside Non-Profit			0				5 5	- 37
224	Total Outside-City Freeze Credits SE Freeze Residential			<u> </u>					2,787
	SE Freeze Commercial			240				\$	604
	SE Freeze Non-Profit			104	-8	-8	\$ 2.85	i \$	(22)
228				3,770				\$	3,369
228				47,251	37,445	37,445	····	\$	106,716
	NET SEWER BILLABLE FLOW &			000 074	205 074	205 074			1 425 433
230	COMMODITY CHARGE BILLINGS	Total Inside City		390,374	395,871	395,871	<u> </u>	- \$	1,135,122
231		Billings					L	\$	2,322,095
ا ت		Total Outside City						T	
		Billings (Not					1		
		Including SVBC		1				s	E94 464
232		Capital Charge) Monthly Capital						<u> </u>	521,453
		Charge: 16.8% of							
. 1		Debt Service on							
					1				
		Outstanding Sewer							
233	Springvale - Bear Creek Sewer Authority	Bonds					\$ 13,231.84	1 \$	158,782
233	Springvale - Bear Creek Sewer Authority	Bonds Total Inside, Outside					\$ 13,231.84	1 5	158,782
233	Springvale - Bear Creek Sewer Authority	Bonds Total Inside, Outside City, Bay View and					\$ 13,231.84	\$	158,782
233	Springvale - Bear Creek Sewer Authority 200-12749-18002	Bonds Total Inside, Outside		sewer Rate Study			\$ 13,231.84		

 Table S2
 W&S rate study 2018 - final

 Projected FY 2019 Sewer Billings Using FY 2018 Sewer Rates and Projected FY 2019 Sewer Billing Units

_		110/000001	T zere cener Billinge						
		В	С	D	E	F	G	Н	<u> </u>
Г			Less Sewer Deducts						
2	35		and Freezes						\$ 2,895,614

Table S3 Brojected Total Inside_City and Outside_City Sewer Foulyalent Billing Units

			Projecte			-City Sewer Equivale						
	В	С	D	E	F	G	Н		<u> </u>	<u>K</u>	<u> </u>	M
1								P	rojected Ann	ual Sewer B	illing Units	
2		Current Number of Meters Used for Billing for Water and Sewer Service	Billing for Sewer Only Service	Gallons per Minute (per	Readiness to Serve Meter Ratio (Equal to Meter Capacity Divided by 5/8" Meter Capacity)(per AWWA)	Proposed Annual Billing Units for Meters Used for Water and Sower Billing (Billing Charge and RTS Charge Based on 12 Meter Readings per Year)	Proposed Annual Billing Units for Sewer Only Service (Billing Charge and RTS Charge Based on 12 Meter Readings per Year)	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
3	INSIDE CITY			· · · ·			· ·	_				
4	Growth Rate							0.0%	0.0%	0.0%	0.0%	0.0%
						35,088	72	35,160	35,160	35,160	35,160	35,160
	Billing Charge Billing Units, Total Readiness to Serve Charge Billing Units,				_							
6	by Meter Size	2.604		20	1.0	31,128	60	31,188	31,188	31,188	31,188	31,188
НĤ	<u> </u>	2,594	5					972	972	972	972	972
8							30	5,340	5,340	5,340	5,340	5,340
9	1"		1					2,940	2,940	2,940	2,940	2,940
10		49						3,840	3,840	3,840	3,840	3,840
11	2"							630	630	630	630	630
12	3"						i	2,160		2,160	2,160	2,160
13	4"				30.0			2,100	2,160	2,100		2,100
14	6*		0	1,250	62.5	⊢·				<u> </u>	0	<u> </u>
	Readiness to Serve Charge Billing Units,		-					47 070	47 070	47.070	47 070	47.070
15	Total	2,923	6	<u> </u>	 	46,980	90	47,070	47,070	47,070	47,070	47,070
	Commodity Charge Billing Units, All							240.440	240.440	240.440	240.440	240.440
	Meter Sizes							318,148	318,148	318,148	318,148	318,148
17	OUTSIDE CITY	ļ	I	ļ					0.00/	0.00		0.0%
18	Growth Rate	L		L				0.0%	0.0%	0.0%	0.0%	0.0%
	Billing Charge Billing Units, Total			1		4 500						
19	(Resort Township)	L		 		1,596	816	2,412	2,412	2,412	2,412	2,412
20	Readiness to Serve Charge Billing Units, by Meter Size (Resort Township)											
21	5/8"	113	65	20	1.0	1,356	780	2,136	2,136	2,136	2,136	2,136
22	3/4"						36	144	144	144	144	144
23							-	150	150	150	150	150
24							-	180	180	180	180	180
25	2"			160	8.0	480	96	576	576	576	576	576
26	3"			350	17.5	210	-	210	210	210	210	210
27	4 ^m	0	0	600	30.0	-	-	-	0			0
28	6"	0	0 0	1,250	62.5	•	-	-	0	0	0	0
	Readiness to Serve Charge Billing Units, Total (Resort Township)	133	68			2,484	912	3,396	3,396	3,396	3,396	3,396
	Commodity Charge Billing Units, All							10.175	40.475	40.475	40.475	40.475
	Meter Sizes (Resort Township)	L	ļ	 		<u> </u>	↓ −−−−−	42,475	42,475	42,475	42,475	42,475
31		I	<u> </u>	L								
El	Commodity Charge Billing Units	1	1	1								
1	(Springvale - Bear Creek Sewage	1	1	1	1			E0 877	50.077	50.077	E3 077	62 677
32	Disposal Authority)	· · · · · · · · · · · · · · · · · · ·	L	ļ	_	<u> </u>	<u> </u>	52,677	52,677	52,677	52,677	52,677
	Readiness to Serve Charge Billing Units,	'l	1									. 1
33	by Meter Size (Bay View) Sewage pumped via 8" FM, billed as	<u> </u>										
24	meter size = 4"	4	d i	600	30		360					
Гщ	Readiness to Serve Charge Billing Units,	1	·	+	<u> </u>	1	1					
26	Total (Bay View)	΄Ι	1	1				360	360	360	360	360
F.	Commodity Charge Billing Units, Total	1	<u> </u>	t								
36	(Bay View)	1	1	1	1	1		20,016	20,016	20,016	20,016	20,016
37												
38		1		1	PROJECTED TO	TAL INSIDE-CITY. RI	ESORT TOWNSHIP, S	VBC AND BAY	VIEW EQUIV	ALENT BILL	ING UNITS	
39			Resort Two	to inside Eq	uivalent Factors (I		1.00					
40					uivalent Factors (I		1.75					
41	······································		Resort Two	to inside Eq	uivalent Factor (C	ommodity Charge):	1.00		1	1		
42	· · · · · · · · · · · · · · · · · · ·	1										
43			SVBC to In	side Equivale	ent Factor (Commo	dity Charge):	0.95	L	ļ	L		
44						<u> </u>			· · · · · · ·	L		
45			Bay View to	o Inside Equi	valent Factors (RT	S Charge):	1.25		<u> </u>	L		
46			Bay View to	o Inside Equi	valent Factor (Con	modity Charge):	1.25				FN/ 6555	
47			1	-	<u> </u>	<u> </u>	<u> </u>	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
48				Total Equiv	atent Billing Char	e Billing Units	a Halfa	37,572	37,672	37,572	37,672 53,463	37,572
49				Total Equiv	alent Readiness to	e Billing Units Serve Charge Billin Charge Billing Units	y onus	53,463 435,686	53,463 435,686	53,463 435,686		63,462, /2 435,686
50	L	1	<u> </u>		aiem commonity	energe enning onits	1	430,000	1 490,000	400,000	-00,000	000

	В	C	F Current	G	Н	 Projected	J	к
1.			Current	_		Projected		
			FY 2018 Budget					
2	Account	SEWER FUND	Budget (Cash Basis)	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
3		EXPENSES: OPERATING OF PLANT		-				
5	592-551-702.000	SALARIES & WAGES	38,000	39,140	40,314	41,524	42,769	44,052
		FRINGE BENEFITS MATERIALS & SUPPLIES	3,500	3,850 10,100	4,235	4,659	5,124 10,406	<u>5,637</u> 10,510
8	592-551-783.000	CHEMICALS	95,000	95,950	96,910	<u>97,879</u> 7,212	98,857 7,284	99,846
10	592-551-806.000	PROFESSIONAL SERVICES	7,000	7,070	7,141 108,000	129,600	155,520	186,624
		PUBLIC UTILITIES VEHICLE RENTAL	210,000	212,100	214,221	216,363	218,527	220,712
13	592-551-947.000	TOTAL OPERATING OF PLANT	438,500	458,210	481,021	507,539	538,488	574,738
14 15		OPERATION OF LAB						
16		SALARIES & WAGES	56,000	57,680	59,410	61,193	63,028	64,919 6,603
17		FRINGE BENEFITS MATERIALS & SUPPLIES	4,100	4,510 35,350	4,961 35,704	<u>5,457</u> 36,061	6,003 36,421	36,785
		PROFESSIONAL SERVICES CONTRACTED SERVICES	9,000 8,000	9,090 8,080	9,181 8,161	9,273	9,365 8,325	9,459
21	592-551-947.000	VEHICLE RENTAL	•	•		•	•	•
22		TOTAL OPERATION OF LAB	112,100	114,710	117,417	120,225	123,143	126,175
24		MAINTENANCE OF PLANT & GROUNDS SALARIES & WAGES	30,000	30,900	31,827	32,782	33,765	34,778
		FRINGE BENEFITS	3,100	3,410	3,751	4,126	4,539	4,993
		MATERIALS & SUPPLIES CONTRACTED SERVICES	16,000 95,000	16,160 95,950	16,322 96,910	16,485 97,879	16,650 98,857	16,816 99,846
29	592-551-947.000	VEHICLE RENTAL	5,000	5,050	5,101	5,152	5,203	5,255
30 31		TOTAL MAINTENANCE OF PLANT & GROUNDS	149,100	151,470	153,910	156,423	159,014	161,688
32		MAINTENANCE OF LIFT STATION	8,200	8,446	8,699	8,960	9.229	9,506
34	592-551-724.000	SALARIES & WAGES FRINGE BENEFITS	800	880	968	1,065	1,171	1,288
		MATERIALS & SUPPLIES PROFESSIONAL SERVICES	7,200	7,272	7,345 27,543	7,418 27,818	7,492 28,096	7,587
37	592-553-802.000	CONTRACTED SERVICES	13,000	13,130	13,261	13,394	13,528	13,663
39		VEHICLE RENTAL TOTAL MAINTENANCE OF LIFT STATION	200 56,400	202 57,200	204 58,020	206 58,861	208 59,725	210 60,612
40 41		MAINTENANCE OF SANITARY SEWERS						
42	592-551-702.000	SALARIES & WAGES	21,000	21,630	22,279	22,947	23,636	24,345
		FRINGE BENEFITS MATERIALS & SUPPLIES	2,000	2,200	2,420 3,060	2,662	2,928 3,122	3,221 3,153
45	592-553-802.000	CONTRACTED SERVICES	69,000	69,690	70,387	71,091	71,802	72,520
40		VEHICLE RENTAL TOTAL MAINTENANCE OF SANITARY SEWERS	15,000	15,150 111,700	15,302 113,448	15,455 115,245	<u>15,609</u> 117,096	15,765 119,004
48 49		MAINTENANCE LIFT STATION - BAY HARBOR						
50	592-551-702.000	SALARIES & WAGES	8,000	8,240	8,487	8,742	9,004	9,274
51 52		FRINGE BENEFITS MATERIALS & SUPPLIES	800 15,000	880 15,150	968 15,302	1,065 15,455	1,171 15,609	1,288
53		CONTRACTED SERVICES PUBLIC UTILITIES	35,000	35,350 25,755	35,704 26,013	36,061	36,421 26,535	36,785 26,801
55	592-551-947.000	VEHICLE RENTAL	25,500 500	25,755	510	<u>26,273</u> 515	520	526
56 57		TOTAL MAINTENANCE LIFT STATION - BAY HARBOR	84,800	85,880	86,983	88,109	89,261	90,439
58 59		MAINTENANCE SANITARY SEWER - BAY HARBOR SALARIES & WAGES	600	618	637	656	675	696
60	592-551-724.000	FRINGE BENEFITS	100	110	121	133	148	161
61 62		CONTRACTED SERVICES TOTAL MAINTENANCE SANITARY SEWER - BAY HARBOR	18,000	18,180 18,908	18,362	18,545 19,334	18,731 19,553	18,918 19,775
63								
	592-551-702.000	GENERAL SEWER ADMINISTRATION SALARIES & WAGES	12,000	12,360	12,731	13,113	13,506	13,911
		WAGES - SUPERVISORY FRINGE BENEFITS	76,000	78,280 200,200	80,628	83,047	85,539 266,466	88,105 293,113
68	592-560-751.000	OFFICE SUPPLIES	10,000	10,100	10,201	10,303	10,406	10,510
70	592-553-802.000	OTHER - UNIFORMS CONTRACTED SERVICES	3,600	3,838 126,250	3,876 127,513	3,915 128,788	3,954 130,076	3,994 131,376
71	592-560-850.000	COMMUNICATIONS EDUCATION & TRAINING	9,000	9,090	9,181	9,273	9,365 13,528	9,459
73	592-560-937.000	INSURANCE, FIRE & LIABILITY	13,000 16,000	13,130 16,160	<u>13,261</u> 16,322	13,394 16,485	16,650	13,663 16,816
	592-560-945.000 592-551-947.000	DPW RENT EQUIPMENT RENTAL	9,700 33,000	9,797	9,895 33,663	9,994 34,000	10,094 34,340	10,195 34,683
76	592-560-995.000	UTILITY BILLING COMPONENT OF ADMINISTRATIVE FEES	101,133	102,145	103,166	104,198	105,240	106,292
78		ADMINISTRATIVE FEES LESS UTILITY BILLING * TOTAL GENERAL SEWER ADMINISTRATION	202,267	208,335 823,014	214,585 855,242	221,022 889,773	227,653 926,816	234,483 966,600
79 80		TOTAL SEWER OPERATING	1,762,500	1,821,092	1,885,159	1,955,511	2,033,097	2,119,032
81			1,102,000	1,041,002	1,000,100	1,000,011	e,003,08/	<u>e, 110,032</u>
82		SEWER PAYMENT IN LIEU OF TAXES TO THE GENERAL FUND	182,700	182,700	182,700	182,700	182,700	182,700
83 84		PROJECT COST						
<u> </u>		Job 923: WWTP Improvements - Grand Traverse Construction						
85	592-025-330	(Assume paid from proceeds of FY 2017 WWTP Improvements \$5,000,000 bond)	0	0	0	0	0	
	592-025-343	Job 917: Enrimet Street - Sewer Upgrade (Assume paid from Operating Revenue)				_		
		Job 919: Bear River East Lift Station - Upgrade (Assume paid from	0	0	0	0	0	
	592-025-343 592-560-802	Operating Revenue) Miscellaneous Reviews and Designs	0 120,000	0	0	0	0	
	592-560-802	Telephony Upgrades	5,000	0	0			
		US-31 - Lewis Street to Boulder Lane. Utility upgrades include sanitary main highway crossings and sanitary main between						
90		McDonald Drive and Boulder Lane. Paid from operating revenue. Potential \$173,000 MDOT grant).	0	350,000	o	0	0	
			U	330,000	U		U	
91		Greenwood Road - Sheridan to Charlevoix Avenue. Replace water main along Greenwood Road. Paid from operating revenue.	o	0	75,000	0	0	
		Sanitary - Jackson Street -West Mitchell Street to Hospital Ring						
		Road. This project would include replacement of sanipatoskey Bew	An Data Atura					

Table S4 Five-Year Sewer Revenue Adequacy Using Curront Sewer Rates and Required Percent Adjustments

	B	C	F	G	н	1	J	к
		Upgrades - Sanitary sewer work will take place in conjunction with						
93		street resurfacing program. Paid from operating revenue.	0	0	0	150,000	0	
		Greenwood Road - Sheridan to Charlevoix Avenue. Utility upgrade						
1		to include sanitary sower rehabilitation along Greenwood Road.				405 000		
94		Paid from operating revenue.	0	0	0	125,000	0	
		East Lake - Kalamazoo to Division. Replace sanitary sewers in						
95		conjunction with street reconstruction. Paid from operating revenue.	0	o	0	0	231,000	
5 5		Howard Street and miscellaneous sewer main spot repairs and	¥					
96		upgrades. Paid from operating revenue.	0	o	0	o	0	250.00
		Miscellaneous wastewater system capital improvements. Paid from			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			
		operating revenue. To bring total annual wastewater CIP cost to				1		
97		\$500,000 beginning FY 2019.		150,000	210,000	225,000	269,000	250,00
98		TOTAL PROJECT COST	125,000	500,000	500,000	500,000	500,000	500,00
99								
00		DEPRECIATION						
	592-564-968.100	DEPRECIATION-SEWER	0	0	0	0	0	
102		TOTAL DEPRECIATION	0	0	0	0	0	
8					r	i		
04		BOND EXPENSE						
05		PRINCIPAL (\$5,000,000, 2017 Sewer Improvements, 3.00% to 3.25%, payments through December 2037)	0	180,000	190,000	195,000	205.000	210.00
03		INTEREST (\$5,000,000, 2017 Sewer Improvements, 3.00% to		100,000	180,000	100,000	200,000	
08	592-566-992.000	3.25%, payments through December 2037)	172,012	149,075	143,525	137,750	131,750	125,52
~		PRINCIPAL (\$6,330,000, 2011 Sewer Refunding Bonds, 5.00%,						
107		payments through February 2026)	385,000	380,000	380,000	480,000	480,000	580,00
		INTEREST (\$6,330,000, 2011 Sewer Refunding Bonds, 5.00%,						
108	592-566-992.000	payments through February 2026)	199,144	183,869	164,869	143,369	119,369	92,86
		PRINCIPAL (\$2,755,000, 2011 Sewer Bonds, 3.00% to 5.00%,						
109		payments through February 2031)	110,000	115,000	120,000	125,000	135,000	140,00
		INTEREST (\$2,755,000, 2011 Sewer Bonds, 3.00% to 5.00%,						
10	592-566-992.000	payments through February 2031)	96,619	92,094	86,2 <u>19</u>	80,094	73,594	66,71
111	592-566-996.000	OTHER EXPENSE	1,000	1,000	1,000	1,000	1,000	1,00
		PAYING AGENT FEES		300	300		300	30
113		TOTAL BOND EXPENSE	964,074	1,101,338	1,085,913	1,162,513	1,146,013	1,216,41
114								
115		TOTAL FUND EXPENDITURES	3,034,274	3,605,130	3,653,772	3,800,723	3,861,809	4,018,14
116								
117		REVENUE			4 000 000	4 000 000	4 600 000	4 000 00
		RESIDENTIAL - SEWER	1,680,000	1,680,000	1,680,000	1,680,000 675,000	1,680,000	1,680,00
119		COMMERCIAL SALES - SEWER	675,000 15,000	675,000	675,000 15,000	15,000	15,000	15,00
		INDUSTRIAL SALES - SEWER	415,000	415,000	415,000	415,000	415,000	415,00
121	592-081-045.3001	NON-PROFIT SALES - SEWER SEWER ANALYSIS	5,000	5,000	5,000	5,000	5,000	5,00
		PROJECTS, SEWER	5,000	5,000	5,000	5,000	5,000	5,00
123	392-002.040.020	PROJECTO, SEWER	3,000		5,000	0,000	0,000	0,00
124	TBD	BOND PROCEEDS (No current or projected)						-
	TBD	TRANSFER TO/FROM FUND BALANCE						-
		S.V.B.C. DEBT CHARGE -SEWER	158,782	179,136	176,468	189,350	186,509	198,35
127		INTEREST INCOME	50,000	50,000	50,000	50,000	50,000	50,00
28		RESTITUTION	6,000	6,000	6,000	6,000	6,000	6,00
29		TOTAL REVENUE	3,009,782	3,030,136	3,027,488	3,040,350	3,037,509	3,049,35
30								
31		NET REVENUES OVER EXPENDITURES	(24,492)	(574,994)	(626,304)	(760,373)	(824,300)	(968,78
32								
133		REVENUE FROM CURRENT RATES	2,943,782	2,964,136	2,961,468	2,974,350	2,971,509	2,983,35
34		Percent Adjustment		19.4%	1.5%	3.7%	1.7%	3.8
135		FY 2019 Additional Revenue from Rates		574,994	574,994	574,994	574,994	574,99
136		FY 2020 Additional Revenue from Rates			51,310	51,310	51,310	51,31
137		FY 2021 Additional Revenue from Rates				134,069	134,069	134,06
138		FY 2022 Additional Revenue from Rates					63,926	63,92
139		FY 2023 Additional Rovenue from Rates				0 70 4 70 -	2 705 000	<u>144,48</u> 3,952,14
140		REVENUE FROM ADJUSTED RATES	2,943,782	3,539,130	3,587,772	3,734,723	3,795,809	
141		TOTAL ADJUSTED REVENUE	3,168,564	3,784,266	3,830,240	3,990,074	4,048,318 186,509	4,216,50
142		NET REVENUES OVER EXPENDITURES	134,290	179,136	176,468	189,350	100,509	198,3
143			3 763 664	3 600 044	2 074 370	2 247 944	3,437,194	3,623,70
144		BEGIN OF YEAR UNRESTRICTED SEWER FUND BALANCE	2,757,951	2,692,241 179,136	3,071,376 176,468	3,247,844 189,350	186,509	3,623,70
145		WITHDRAWALS/ADDITIONS	134,290	1/8,130	1/0,400	109,330	100,308	190,3
		END OF YEAR UNRESTRICTED SEWER FUND BALANCE	2,892,241	3,071,376	3,247,844	3,437,194	3,623,704	3.822.06
				3,071,370	440,144,044	0,407,104	0,020,104	

1 2 2 3 3 TOTAL OPERATING OF PLANT 3 TOTAL MAINTENANCE OF PLA 5 TOTAL MAINTENANCE OF PLA	SEWER FUND																
TOTAL OPERATIN TOTAL OPERATIN TOTAL OPERATIC TOTAL MAINTEN TOTAL MAINTEN TOTAL MAINTEN	SEWER FUND			-	Allocation to		Allocation to				Allocation to	on to	Allocation to	on to			
TOTAL OPERATIA TOTAL OPERATIA TOTAL OPERATIC TOTAL MAINTEN TOTAL MAINTEN TOTAL MAINTEN		FY 2019	Allocation	to Billing	Readiness-to-Serve	_	Commodity	FY 2020	Allocatio.	Allocation to Billing	Readiness-to-Serve	to-Serve	Commodity	odity	FY 2021	Allocation to Billing	to Billing
TOTAL OPERATIN TOTAL OPERATIC TOTAL MAINTEN TOTAL MAINTEN TOTAL MAINTEN	EXPENSES:		Percent	Amount F	Percent Amo	Amount Percent	t Amount		Percent	Amount	Percent	Amount	Percent	Amount		Percent	Amount
TOTAL OPERATIC TOTAL MAINTEN TOTAL MAINTEN TOTAL MAINTEN	I.	458.210	0.00%	6	9600.0	0 100.00%	% 458,210	0 481,021	0.00%	0	0.00%	0	100.00%	481,021	507,539	0.00%	0
TOTAL MAINTEN TOTAL MAINTEN TOTAL MAINTEN	IN OF LAB	114.710	0.00%	6	0.00%	0 100.00%		0 117,417	%00°%	0	0.00%	0	100.00%	117,417	120,225	9.00%	0
TOTAL MAINTEN	TOTAL MAINTENANCE OF PLANT & GROUNDS	151.470	0.00%	ö	0.00%	0 100.00%		0 153,910	0.00%	•	0.00%	0	100.00%	153,910	156,423	0.00%	0
	TOTAL MAINTENANCE OF LIFT STATION	57.200	0.00%	8	9:00%	0 100.00	% 57,200		0.00%	0	0.00%	0	100.00%	58,020	58,861	9600.0	0
	TOTAL MAINTENANCE OF SANITARY SEWERS	111,700	0.00%	8	0.00%	0 100.00		-		0	0.00%	0	100.00%	113,448	115,245	0.00%	0
8 TOTAL MAINTEN	TOTAL MAINTENANCE LIFT STATION - BAY HARBOR	85,880	0.00%	•	0.00%	0 100.00		0, 86,983	9.00%	•	9600.0	0	100.00%	86,983	88,109	9600.0	0
9 TOTAL MAINTEN	TOTAL MAINTENANCE SANITARY SEWER - BAY HARBOR	18,908	0.00%	0	0.00%	0 100.00%	% 18,908		%00'0	0	%00.0	0	100.00%	19,119	19,334	9.00%	0
DUITULA BITTING (10 UTILITY BILLING COMPONENT OF ADMINISTRATIVE FEES .		100.00%	102,145	0.00%	0.00%	8	0 103,166	100.00%	103,166	0.00%	0	0.00%	8	104,198	100.00%	104,198
11 GENERAL WATER	GENERAL WATER ADMINISTRATION LESS BILLING (10/31/18)		0.00%	•		288,348 60.00%	% 432,522		%00'0	•	40.00%	300,830	80.00%	451,248	785,575	0.00%	0
12 SEWER PAYMEN	SEWER PAYMENT IN LIEU OF TAXES TO THE GENERAL FUND	182,700	0.00%	0		_	*	0 182,700		0	100.00%	182,700	0.00%	ō	182,700	9600.0	0
13 TOTAL PROJECT COST	COST	500,000	0.00%	8			8	000'000	9600.0	0	100.00%	500,000	%00.0	0	500,000	%00.0	0
14 TOTAL BOND EXPENSE	TENSE	1,101,338	0.00%	8	100.00% 1,1	,101,338 0.00%	8	0. 1,085,913	0.00%	0	100.00%	1,085,913	0.00%	0	1,182,513	%00.0	0
15 TOTAL FUND EXPENDITURES	PENDITURES	3,605,130		102,145	2,0	2,072,385	1,430,600	0, 3,653,772		103,166		2,069,443	_	1,481,163	3,800,723	_	104,198
16									0.00%		_		T				
17 OFFSETTING REVENUE	renue								0.00%		_						
18 SEWER ANALYSIS		5,000	0.00%	0	9600.0	0 100.00%	% 2,000	0) 2,000	9600.0	0	9600.0	0	100.00%	5,000	5,000	0.00%	0
19 PROJECTS, SEWER	Å.	5,000	0.00%	0	100.00%	5,000 0.00%	8	0 2'000	0.00%	0	100.00%	5,000	0.00%	0	5,000	0.00%	0
20 BOND PROCEEDS	BOND PROCEEDS (No current or projected)	0	9600.0	0	100.00%	0.00%	8	-	0.00%	0	100.00%	0	0.00%	0	-	0.00%	0
TRANSFER TO/FF	21 TRANSFER TO/FROM FUND BALANCE	0	0.00%	0	100.00%	0.00%	8	-	0.00%	0	100.00%	0	0.00%	0	•	0.00%	0
22 S.V.B.C. DEBT CHARGE -SEWER	ARGE -SEWER	179,136	9:00%	0	-	79,136 0.00%			0.00%	0	100.00%	176,468	0.00%	5	189,350	0.00%	0
23 INTEREST INCOME	μ.	50,000	0.00%	0	0.00%	0 100.00%	% 50,000			0	0.00%	0	100.00%	50,000)	50,000	0.00%	0
24 RESTITUTION		6,000	9600.0	0	9.00.0	0 100.00%			0.00%	0	9600.0	0	100.00%	6,000	6,000	9600.0	0
25 TOTAL - OFFSETTING REVENUE	TING REVENUE	245,136	T	0	-	184,135	61,000	0 242,468		•		181,468	╏	61,000	265,350	T	0
27 NET DEVENIE T	NET DEVENUE TO BE DECOVEDED BY DATES	41 1K0 001	Ť	103 145	61 R	6 1 888 24G	\$1 369 600	53 411 3D4		\$103 166		\$1 887 976		\$1 420 163	\$3 KAS 373	-	104.193
Total Equivalent Bi	28 Total Equivalent Billing Charge Billing Units			37.572			,			37.572							37,572
Total Equivalent R	tadiness to Serve Charge Billing Units					53,463						53,483					
Total Equivalent C	30 Total Equivalent Commodity Charge Billing Units						435,688				_			435,686			
31 Rate per Equivalent Billing Unit	t Bitling Unit		Í	5 2.72	\$	35.32	\$ 3.15			\$ 2.75	\$	35.32	S	3.26		\$	2.78
32	Inside-City Rates		-	2.72	•	35.32	\$ 3.15			\$ 2.76	*	35.32	*	3.26		•	2.78
33	Resort Township Rates			5 2.72	•	61.81	\$ 3.15			\$ 2.75	*	61.81	*	3.26		*	2.78
34	SVBC Rates			NVA	Z	NIA	3.00			NIA		NIA	*	3.10			NA
35	Bay View Rates			N/A	•	44.15	\$ 3.94	_		NA	-	44.15	•	4.08	•		N/A
 Utility Bitling is a c 	36 I - Utility Bitling is a component of the Administrative Fees expense.			-	-							-					

Potoskey Sewer Rate Study Tetra Tech SmartRate

R	Allocation to	odity	Amount	574,738	126,175	161,688	60,612	119,004	90,439	19,775	0	516,185	0	0		1,668,616			5,000	0	0	0	0	50,000	6,000	61,000		<u>51,607,616</u>			435,686	\$ 3.69	\$ 3.69	5 3.69	\$ 3.61	\$ 4.62	
R	Allocat	Commodity	Percent	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	0.00%	60.00%	0.00%	0.00%	0.00%				100.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%	i			-				-			ļ.	
¥	tion to	-to-Serve	Amount	0	0	0	0	0	0	0	0	344,123	182,700	500,000	1,216,413	2,243,236			0	5,000	0	Ō	198,357	0	0	203,357		\$ 2,039,878		53,483		\$ 38.16	\$ 38.16	\$ 66.78	NIA	\$ 47.70	
βĞ	Allocation to	Readiness-to-Serve	Percent	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	40.00%	100.00%	100.00%	100.00%		-		0.00%	100.00%	100.00%	100.00%	100.00%	0.00%	0.00%												
Å		Allocation to Billing	Amount	0	0	0	0	0	0	0	106,292	0	0	0	0	106,292			0	0	0	0	0	0	0	0		106,292	37,572			5 2.83	5 2.83	2.83	NIA	NIA	
Å		Allocation	Percent	0.00%	0.00%	0.00%	0.00%	0.00%			÷					_			0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%							_	Ţ				
ą		FY 2023		574,738	126,175	161,688	60,612	119,004	90,439	19,775	106,292	860,308	182,700	500,000	1,216,413	4,018,144			5,000	5,000	- 1	•	198,357	50,000	6,000	264,357		\$3,753,787									
Ŷ	ion to	odity	Amount	538,486	123,143	159,014	59,725	117,096	89,261	19,553	0	492,946	0	0	0	1,599,226			5,000	0	0	0	0	50,000	6,000,8	61,000)	-	\$1,638,226			435,686	\$ 3.54 [5 3.64	\$ 3.64	\$ 3.37	\$ 4.43	
AB	Allocation to	Commodity	Percent	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	0.00%	60.00%	0.00%	96000	96000		. I.		100.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%		-					-		-			-
¥	Allocation to	-to-Serve	Amount	0	0	0	0	0	0	0	0	328,631	182,700	500,000	1,148,013	2,157,343			0	5,000	0	0	186,509	0	0	191,609		\$1,965,834		53,463		\$ 36.77	\$ 36.77	\$ 64.35	NVA	\$ 45.97	
2	Allocat	Readiness-to-Serve	Percent	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	40.00%	100.00%	100.00%	100.00%				0.00%	100.00%	100.00%	100.00%	100.00%	0.00%	0.00%												-
≻		Allocation to Billing	Amount	0	0	0	0	0	0	0	105,240	0	0	0	•	105,240			0	0	0	0	0	0	0	0		F 105,240	37,572			5 2.81	5 2.81	5 2.81	N/A	N/A	
×		Allocation	Percent	0.00%	0.00%		9600.0		0.00%	0.00%	100.00%	%00.0	0.00%	0.00%	0.00%				0.00%	0.00%	0.00%	0.00%	9600.0	0.00%	0.00%			-	-								-
3		FY 2022		538,488	123,143	159,014	59,725	117,096	69,261	19,553	105,240	821,576	182,700	500,000	1,148,013	3,861,809			5,000	5,000	•	•	186,509	50,000	6,000	252,609		\$3,609,300									
>	tion to		Amount	507,539	120,225	156,423	58,861	115,245	88,109	19,334	0	471,345	8	0	0	1,537,083			5,000	o	P	đ	0	50,000	6,000	61,000		\$1,476,083			435,686	\$ 3.39	\$ 3.39	1 95.5	\$ 3.23	\$ 4.24	
- >	Allocati	Comm	Percent	0 100.00%	0 100.00%	0 100.00%	100.00%	0 100.00%	0 100.00%	0 100.00%	%00'0 (0	%00.09							100.00%	%00'0 0		%00.0	\$00.0	0 100.00%	0 100.00%							Ĺ			Ĺ		
۲	Allocation to	Readiness-to-Serve	Amount		0				9			314,230	182,700	500,000	1.162,513	2,159,443			0	5,000			189,350			194,350		\$1,965,093		53,483		\$ 36.76	\$ 36.76	\$ 64.33	NVA	\$ 45.95	
s	Alloca	Readines	Percent	%0000	%00.0	96000	%0000	0.00%	0.00%	%00 ^{.0}	%00'0	40.00%	100.00%	Ċ					9600.0	100.00%	100.00%	100.00%	100.00%		9600.0												
		-	2	3	4	ŝ	۵	7	8	8	9	11	12	5	1	15	16	17	18	19	8	3	22	23	24	25	8	27	28	29	8	ñ	33	ន	ş	35	26

Table S6 Example Sewer Bills

	Α		В		<u> </u>	nci	de Cit		E		F		G		H Pos	n et	Town	ehi	in		к
1		_						_		.					_	_				-	
2	Usage (Number of 100 Cubic	F)	Y 2019	FY :	2020	۴	Y 2021	F	Y 2022		FY 2023	⊢⁼	FY 2019	۴	Y 2020	P	Y 2021		Y 2022	1	1 202
3	Feet Units per Month):																				
4	0																				
	Meter Size: 5/8" Current Bill		30.69	s	38.04		38.07	s	39.54	•	39.58	5	51.85	•	64.53	s	64.56	e	67.11	s	67
6 7	Proposed Bill		38.04	- 3 - 5	38.04		39.54	s	39.54		40.99	ŝ	64.53	ŝ		S	67.11	s	67.16	s	69
8	Change (Percent)		23.9%		0.1%		3.9%		0.1%		3.6%		24.5%		0.0%		3.9%		0.1%		3
9	Change (Dollars) Usage (Number of 100 Cubic	\$	7.35	\$	0.03	S	1.47	\$	0.04	\$	1.41	\$	12.68	\$	0.03	\$	2.55	\$	0.05	\$	
10	Feet Units per Month):																				
11	5																				
12 13	Meter Size: 5/8" Current Bill	6	44.94	\$	53.79	•	54.37		56.49	-	57.28	5	66.10	\$	80.28	S	80.86	\$	84.06	S	8
14	Proposed Bill		53.79		54.37	\$	56.49	s	57.28		59.44	ŝ	80.28	s	80.86	Ŝ	84.06	ş (s	84.86	ş	8
15	Change (Percent)		19.7%	-	1.1%		3.9%	_	1.4%		3.8%	Ļ	21.5%		0.7%		4.0%	•	1.0%		
16	Change (Dollars) Usage (Number of 100 Cubic	\$	8.85	\$	0.58	5	2.12	s	0.79	S	2.16	\$	14.18	\$	0.58	\$	3.20	\$	0.80	\$	
	Feet Units per Month):																				
18																					
19	Meter Size: 5/8" Current Bill	s	59.19	s	69.54	\$	70.67	s	73.44	s	74.98	5	80.35	s	96.03	S	97.16	s	101.01	\$	10
21	Proposed Bill	\$	69.54	S	70.67	S	73.44	Š	74.98	Š	77.89	\$	96.03	\$	97.16		101.01	\$	102.56	\$	10
22 23	Change (Percent)		17.5%		1.6%		3.9%	-	2.1%		3.9% 2.91	5	19.5%	_	<u>1.2%</u> 1.13	S	<u>4.0%</u> 3.85	_	<u>1.5%</u> 1.55	s	
23	Change (Dollars) Usage (Number of 100 Cubic	 *	10.35	\$	1.13	\$	2.77	s	1.54	\$	2.91	┝╸	15.68	\$	1.13	3	3.65	\$	1.55	3	
	Feet Units per Month):																		_		
25	50 Meter Size: 3/4"									<u> </u>		<u> </u>									
26	Meter Size: 3/4" Current Bill	s	187.30	S	213.20	s	218.73	\$	227.42	\$	234.97	5	219.04	s	252.94	S	258.47	\$	268.78	\$	27
28	Proposed Bill	\$	213.20		218.73		227.42	s	234.97	Š	244.57	Š	252.94	\$	258.47	S	268.78	Š	276.34	\$	28
29 30	Change (Percent) Change (Dollars)		<u>13.8%</u> 25.90	s	2.6% 5.53	s	<u>4.0%</u> 8.69	s	<u>3.3%</u> 7.55	5	<u>4.1%</u> 9.60	5	15.5% 33.90	s	2.2%	s	4.0% 10.31	s	<u>2.8%</u> 7.56	s	1
30	Usage (Number of 100 Cubic	<u> </u>	20.50	3	5.53	2	8.69	3	1.55	<u> </u>	9.00	┝╸	33.50	\$	5.55	3	10.31	-		3	
	Feet Units per Month):																				_
	200 Meter Size: 1"	<u> </u>																			
33	Current Bill	s	643.01	\$	721.02	S	743.05	s	772.68	5	802.74	\$	695.92	\$	787.25	\$	809.28	\$	841.61	\$	87
35	Proposed Bill	\$	721.02		743.05	\$	772.68	\$	802.74	\$	836.23	\$	787.25	\$	809.28		841.61	\$	871.69	\$	90
36	Change (Percent)		12.1%	-	3.1%		4.0%	_	3.9%		4.2%	_	13.1%		2.8%		<u>4.0%</u> 32.33	s	<u>3.6%</u> 30.08	\$	3
37	Change (Dollars) Usage (Number of 100 Cubic	\$	78.01	\$	22.03	5	29.63	\$	30.06	\$	33.49	\$	91.33	\$	22.03	\$	32.33	3	30.08	3	3
	Feet Units per Month):																				
	600																				
40 41	Meter Size: 2" Current Bill	s	1.938.16	\$ 2	175.28	s	2.241.31	s	2.330.86	s	2.420.97	s	2,107.44	s	2,387.20	S	2,453.23	s	2.551.42	Ś	2,64
42	Proposed Bill		2,175.28		241.31		2,330.86		2,420.97		2,522.11		2,387.20		2,453.23		2,551.42		2,641.61		2,75
43	Change (Percent)		12.2%		3.0%		4.0%		3.9%		4.2%		13.3%		2.8%		4.0%		<u>3.5%</u> 90.19		10
44	Change (Dollars) Usage (Number of 100 Cubic	\$	237.12	S	66.03	5	89.55	\$	90.11	\$	101.14	\$	279.76	S	66.03	3	98.19	\$	90.19	3	10
	Feet Units per Month):																				
	1,200 Meter Size: 3"											 						_			
47	Current Bill	\$	3,916.16	S 4.	400.82	s	4,532.85	\$	4,714.08	\$	4,894.29	5	4,286.46	s	4,864.40	\$	4,996.43	5	5,196.56	\$	5,37
49	Proposed Bill		4,400.82	\$4,			4,714.08	S		\$	5,098.63	\$		\$		\$	5,196.56	\$	5,376.94	\$	5,59
50 51	Change (Percent) Change (Dollars)	e	12.4% 484.66	e	3.0% 132.03	-	<u>4.0%</u> 181.23	-	<u>3.8%</u> 180.21	•	4.2% 204.34	e	<u>13.5%</u> 577.94	¢	<u>2.7%</u> 132.03	s	4.0%	5	3.5%	s	22
51	Usage (Number of 100 Cubic	 *	404.00	-	132.03	,	101.25	1	100.21	1		ľ	011.04	J	132.00	-	200.10	۴	100.00	Ť	6.6
	Feet Units per Month):																				
53	7,000 Meter Sizes: 4", 4", 2", 5/8", 2",	<u> </u>		-						-								<u> </u>			
54	2", 2"					L				L											
55	Current Bill																				
56 57	Proposed Bill Change (Percent)		<u>24,576.76</u> 11.9%		<u>346.97</u> 3.1%		26,359.42 4.0%	 ≯ 2	<u>27,410.36</u> 4.0%		28,559.17 4.2%	1	<u>26,457.57</u> 12.7%	3	<u>27,227.78</u> 2.9%		<u>28,316.91</u> 4.0%		2 <u>9,368.54</u> 3.7%		0,05
58	Change (Dollars)						1,012.45	S			1,148.81	\$	2,984.88	\$			1,089.13				1,22
	Usage (Number of 100 Cubic																				
	Feet Units per Month): 2,800	-						-				1				-					
61	Meter Size: 6"																				
62	Current Bill												11,068.11								
63 64	Proposed Bill Change (Percent)		13.2%		<u>338.25</u> 2.8%		<u>11,792.28</u> 4.0%	<u> </u>	<u>12,212.94</u> 3.6%		<u>12,719.83</u> 4.2%	ľ	<u>12,685.85</u> 14.6%	2	<u>12,993.88</u> 2.4%	-	<u>13,515.41</u> 4.0%	<u> </u>	<u>13,936.69</u> 3.1%		4,00
65	Change (Dollars)				308.03		454.03	S	420.66	\$	506.89	\$	1,617.74	\$	308.03		521.53		421.28		57
66															SVBC	A	NNUAI	_ B	ILL		
	Usage (Number of 100 Cubic							,		1		1									
	Feet Units per Year): 52,677	-				-							FY 2019	F	Y 2020	-	FY 2021	╞	Y 2022	F	Y 20
	Monthly Capital Charge: SVBC					÷												-			
00	Share of Outstanding WWTP-																	ļ			
69 70	Related Bonds Current Bill	├		•		÷		-				\$3	01,405.09	\$3	37,166.96	\$3	39,766 58	\$3	59,496 77	\$34	4.03
71	Proposed Bill												37,166.96	\$3	39,766.58		59,496.77	\$3	64,030.64	\$38	3,25
72	Change (Percent)	_		1				_				Ē	11.9%		0.8%	Ļ	5.8%		1.3%		0.22
73	Change (Dollars)	-				1				+		Þ	35,761.87	_			· · · ·	_		1 3 1	<i>3,22</i>
74	Lines /humber of con A. ht	<u> </u>		ļ		•		-		-		╟		В	AT VIE	:VV	ANNU		. DILL		
75	Usage (Number of 100 Cubic Feet Units per Year):									;			FY 2019		Y 2020		FY 2021		FY 2022	F	Y 20
	20,016				-					î 						Ľ		Ľ			
	Sewage pumped via 8" FM, BTS charge billed as motor											1						1			
77	RTS charge billed as meter size = 4"			ļ														1			
78	Current Bill												84,151.68								
79	Proposed Bill								Sewer Rat			\$	94,757.04	5 9		\$1		\$10			
AU 15	18002 Change (Percent)			1		1	Te	tra T	ech Smar	Rat	e		12.6% 10,605.36		3.0%		3.9%		12.6%	FU18	1.4

Table S6 Residential Example Sewer Bills

	A	1	В	С		D		E		F		G		н		1		J		к
1					Insi	de Cit	<u>y </u>							Res	ort	Town	shij	<u>)</u>		
2		FY 2	2019	FY 2020	F	Y 2021	F	Y 2022	FY	2023	FY	2019	F	r 2020	F	Y 2021	FY	2022	FY	2023
3	Usage (Number of 100 Cubic Feet Units per Month):				1															
4											-				_					
	Meter Size: 5/8" Current Bill		30.69	\$ 38.04	\$	38.07	\$	39.54	e	39.58	\$	51.85	¢	64.53	\$	64.56	\$	67.11	\$	67.16
67	Proposed Bill		38.04	\$ <u>38.04</u> \$ <u>38.07</u>		39.54	3 5	39.58		40.99	\$		\$	64.56	\$	67.11		67.16	\$	69.61
8	Change (Percent)		23.9%	0.1%		3.9%		0.1%	¢	3.6%	\$	24.5% 12.68	\$	0.0%	\$	<u>3.9%</u> 2.55	\$	0.1%	\$	<u>3.6%</u> 2.45
9	Change (Dollars) Usage (Number of 100 Cubic	\$	7 <u>.35</u>	\$ 0.03	\$	1.47	\$	0.04	•	1.41	3	12.00	\$	0.03	3	2.55	\$	0.05	-	2.45
10	Feet Units per Month):																			
11 12	1 Meter Size: 5/8"				+															
13	Current Bill		33.54	\$ 41.19		41.33	\$	42.93		43.12	\$	54.70	\$	67.68	\$	67.82	\$	70.50		70.70
14 15	Proposed Bill Change (Percent)	\$	41.19 22.8%	\$ 41.33 0.3%		42.93 3.9%	\$	43.12 0.4%	\$	44.68 3.6%	\$	67.68 23.7%	\$	67.82 0.2%	\$	70.50	\$	<u>70.70</u> 0.3%	\$	73.30 3.7%
16	Change (Dollars)	\$	7.65			1.60	\$	0.19	\$	1.56	\$	12.98	\$	0.14	\$	2.68	\$	0.20	\$	2.60
	Usage (Number of 100 Cubic Feet Units per Month):																			
18	2																			
19 20	Meter Size: 5/8" Current Bill	e	36.39	\$ 44.34	\$	44.59	\$	46.32	\$	46.66	•	57.55	\$	70.83	\$	71.08	\$	73.89	\$	74.24
20	Proposed Bill		44.34	\$ 44.59	\$	46.32	\$	46.66	\$	48.37	\$	70.83	\$	71.08	\$	73.89	\$	74.24		76.99
22 23	Change (Percent) Change (Dollars)		21.8% 7.95	0.6%		<u>3.9%</u> 1.73	\$	0.7% 0.34	\$	<u>3.7%</u> 1.71	\$	23.1% 13.28	\$	0.4%	\$	4.0%	\$	<u>0.5%</u> 0.35	\$	<u>3.7%</u> 2.75
	Usage (Number of 100 Cubic	-	1.55	- U.20	1		<u> </u> →	0.04	*		•				Ť		–			<u></u>
	Feet Units per Month): 3				+-															
	Meter Size: 5/8"				\perp															
27	Current Bill Proposed Bill		39.24 47.49	\$ 47.49 \$ 47.85		47.85 49.71	\$	49.71 50.20	\$	50.20 52.06	\$ \$	60.40 73.98	6) (5)	73.98 74.34	\$ \$	74.34	\$	77.28 77.78	\$	77.78 80.68
28 29	Change (Percent)		21.0%	5 47.85 0.89		<u>49.71</u> 3.9%	\$	1.0%	*	32.00		22.5%	3	0.5%	*	4.0%	\$	0.6%	9	3.7%
30	Change (Dollars)	\$	8.25	\$ 0.36	\$	1.86	\$	0.49	\$	1.86	\$	13.58	\$	0.36	\$	2.94	\$	0.50	\$	2.90
31	Usage (Number of 100 Cubic Feet Units per Month):																			
32	4				-															
33 34	Meter Size: 5/8" Current Bill	\$	42.09	\$ 50.64	s	51.11	\$	53.10	\$	53.74	\$	63.25	\$	77.13	s	77.60	\$	80.67	\$	81.32
35	Proposed Bill	\$	50.64	\$ 51.11	\$	53.10	\$	53.74		55.75	\$	77.13		77.60	\$	80.67		81.32		84.37
36 37	Change (Percent) Change (Dollars)		20.3% 8.55	0.9%		3.9% 1.99	\$	1.2% 0.64	s	3.7% 2.01	\$	21.9% 13.88	\$	0.6%	s	<u>4.0%</u> 3.07	\$	0.8%	\$	<u>3.8%</u> 3.05
	Usage (Number of 100 Cubic	Ť	0.00	• •	┞	1.00	Ť	0.04	Ť		Ť		Ť		Ť		Ť	0.00	•	
	Feet Units per Month): 5				-															
	Meter Size: 5/8"																			
41	Current Bill Proposed Bill		44.94 53.79			54.37 56.49	\$ \$	56.49 57.28	\$ \$	57.28 59.44	\$ \$	66.10 80.28	\$	80.28 80.86	\$ \$	80.86 84.06	\$ \$	84.06 84.86	\$ \$	84.86 88.06
42	Change (Percent)		19.7%	1.19		3.9%	Ŷ	1.4%		3.8%	-	21.5%	*	0.7%		4.0%	3	1.0%	9	3.8%
44	Change (Dollars) Usage (Number of 100 Cubic	\$	8.85	\$ 0.58	\$ \$	2.12	\$	0.79	\$	2.16	\$	14.18	\$	0.58	\$	3.20	\$	0.80	\$	3.20
45	Feet Units per Month):																			
46	11.1				<u> </u>															
47	Meter Size: 5/8" Current Bill		47.79	\$ 56.94	\$	57.63	\$	59.88		60.82		68.95	\$	83.43	\$	84.12	\$	87.45	\$	88.40
49 50	Proposed Bill		56.94			<u>59.88</u> 3.9%	\$	60.82 1.6%		63.13 3.8%	\$	83.43	\$	84.12 0.8%	\$	87.45 4.0%	\$	<u>88.40</u> 1.1%	\$	91.75 3.8%
50	Change (Percent) Change (Dollars)		<u>19.1%</u> 9.15		\$	2.25	\$	0.94		2.31	\$	21.0% 14.48	\$	0.6%		3.33	\$	0.95	\$	3.35
	Usage (Number of 100 Cubic																			
52 53	Feet Units per Month): 7				+															
54	Meter Size: 5/8"				Ļ			00.0-						00 00	Ļ	04.00		00.01	_	04.04
55 56	Current Bill Proposed Bill		50.64 60.09			60.89 63.27		63.27 64.36		64.36 66.82		71.80 86.58		86.58 87.38	\$ \$	87.38 90.84	\$\$ \$\$	<u>90.84</u> 91.94	\$ \$	91.94 95.44
57	Change (Percent)		18.7%	1.39	6	3.9%		1.7%		3.8%		20.6%		0.9%		4.0%		1.2%		3.8%
58	Change (Dollars) Usage (Number of 100 Cubic	5	9.45	<u>ຈ 0.80</u>) \$	2.38	1	1.09	\$	2.46	\$	14.78	↓ *	0.80	 ≯	3.46	\$	1.10	\$	3.50
	Feet Units per Month):	L			\perp		<u> </u>						L		<u> </u>		L			
60 61	8 Meter Size: 5/8"				+				<u> </u>						-					
62	Current Bill		53,49			64.15		66.66		67.90		74.65	\$	89.73		90.64		94.23		95.48
63 64	Proposed Bill Change (Percent)		63.24 18.2%			<u>66.66</u> 3.9%	\$	<u>67.90</u> 1.9%		70.51 3.8%	\$	89.73 20.2%		90.64 1.0%		<u>94.23</u> 4.0%	\$	<u>95.48</u> 1.3%	\$	99.13 3.8%
65	Change (Dollars)		9.75		\$	2.51		1.24		2.61	\$	15.08		0.91		3.59	\$	1.25	\$	3.65
66	Usage (Number of 100 Cubic Feet Units per Month):																			
67	9																			
68 69	Meter Size: 5/8" Current Bill	5	56.34	\$ 66.39	1 5	67.41	\$	70.05	s	71.44	5	77.50	\$	92.88	\$	93.90	s	97.62	\$	99.02
70	Proposed Bill	\$	66.39	\$ 67.41	\$	70.05	\$	71.44	\$	74.20		92.88		93.90	\$	97.62	\$	99.02	\$	102.82
71 72	Change (Percent) Change (Dollars)		<u>17.8%</u> 10.05	1.59 \$ 1.02	6 2 \$	<u>3.9%</u> 2.64		2.0%		<u>3.9%</u> 2.76	\$	<u>19.8%</u> 15.38	s	1.1%		4.0%	s	<u>1.4%</u> 1.40	\$	3.8% 3.80
۲Щ.	Usage (Number of 100 Cubic	Ť		- 1.02	+	2.04	Ť	1.00	Ť	2.70	Ť		Ļ	1.04	ŕ	0.12	١Ť-	1.40	Ť	5.00
73 74	Feet Units per Month): 10								<u> </u>						├					
75	Meter Size: 5/8"		_																	
76 77	Current Bill Proposed Bill		<u>59.19</u> 69.54			70.67	<u>\$</u> .s	73.44	\$ \$_	74.98		80.35 96.03		96.03 97.16	\$ \$	97.16 101.01	\$ \$	101.01 102.56	\$ \$	102.56 106.51
78 /	12749_1800Ghange (Percent)		17.5%	1.69	6		kõy l m ∓	Sowof fight och Snigh	lo Stu Rata	ay 77.88 3.9%		19.5%		1.2%		4.0%	12/1	2/201 5%	48 PI	3.9%
79	Change (Dollars)	\$	10.35	\$ 1.13	\$	2.77	r\$ ^	1.54	12.0	2.91	\$	15.68	\$	1.13	\$	3.85	\$	1.55	\$	3.95

Table S7 Sewer Rate Revenue Adequacy

1 2		В	C	D	E
່າ		FY 2			
	Revenue Required From Rates	Charge	Proposed Rate	Annual Billing Units	
3		Billing - Inside City	\$ 2.72	35,160	
4		RTS - Inside City	\$ 35.32	47,070	
5		Commodity - Inside City	\$ 3.15	318,148	
6		Billing - Resort Twp	\$ 2.72	2,412	
7		RTS - Resort Twp	\$ 61.81	3,396	
8		Commodity - Resort Twp	\$ 3.15	42,475	\$ 133,796
9		Commodity - SVBC	\$ 3.00	52,677	\$ 158,031
0		Capital Charge - SVBC	\$ 14,928.00	12	\$ 179,136
11		RTS - Bayview	\$ 1,324.50	12	
2		Commodity - Bayview	\$ 3.94	20,016	
3	\$ 3,539,130	TOTAL	· · · · · · · · · · ·		\$ 3,542,501
4	\$ 3,539,130			CLOSURE:	\$ 3,372
5	• 0,000,100	FY 2	020	02000112	• 0,012
6	Revenue Required From Rates	Charge	Proposed Rate	Annual Billing Units	Projected Revenue
17	Revenue Required From Rates	Billing - Inside City	\$ 2.75	35,160	
8		RTS - Inside City	\$ 35.32	47,070	
9		Commodity - Inside City	\$ 3.26	318,148	
		Commodity - Inside City			
0		Billing - Resort Twp	\$ 2.75	2,412	
1		RTS - Resort Twp	\$ 61.81	3,396	
2		Commodity - Resort Twp	\$ 3.26	42,475	
3		Commodity - SVBC	\$ 3.10	52,677	
4		Capital Charge - SVBC	\$ 14,705.66	12	
25		RTS - Bayview	\$ 1,324.50	12	
6		Commodity - Bayview	\$ 4.08	20,016	
27	\$ 3,587,772	TOTAL			\$ 3,588,699
	\$ 3,587,772			CLOSURE:	\$ 927
9		FY 2	021		
õ	Revenue Required From Rates	Charge	Proposed Rate	Annual Billing Units	Projected Revenue
1		Billing - Inside City	\$ 2.78	35,160	
2		RTS - Inside City	\$ 36.76	47,070	
3		Commodity - Inside City	\$ 3.39	318,148	
4		Billing - Resort Twp	\$ <u>3.39</u> \$ <u>2.78</u>	2,412	
		RTS - Resort Twp	\$ <u>2.78</u> \$ 64.33	2,412	
5				42,475	
6		Commodity - Resort Twp		42,475	
17		Commodity - SVBC	\$ 3.23		
8		Capital Charge - SVBC	\$ 15,779.17 • 1070.50	12	
9		RTS - Bayview	\$ 1,378.50	12	
0		Commodity - Bayview	\$ 4.24	20,016	
1	\$ 3,734,723	TOTAL		-	\$ 3,736,627
	\$ 3,734,723			CLOSURE:	
3	\$ 3,734,723	FY	022		\$ 1,903
3 4		FY 2 Charge	Proposed Rate	Annual Billing Units	\$ 1,903 Projected Revenue
345	\$ 3,734,723	FY 2 Charge Billing - Inside City	Proposed Rate \$ 2.81	Annual Billing Units 35,160	\$ 1,903 Projected Revenue \$ 98,800
3456	\$ 3,734,723	FY 2 Charge Billing - Inside City RTS - Inside City	Proposed Rate \$ 2.81 \$ 36.77	Annual Billing Units 35,160 47,070	\$ 1,903 Projected Revenue \$ 98,800 \$ 1,730,764
34567	\$ 3,734,723	FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City	Proposed Rate \$ 2.81 \$ 36.77 \$ 3.54	Annual Billing Units 35,160 47,070 318,148	\$ 1,903 Projected Revenue \$ 98,800 \$ 1,730,764 \$ 1,126,244
345678	\$ 3,734,723	FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City Billing - Resort Twp	Proposed Rate \$ 2.81 \$ 36.77 \$ 3.54 \$ 2.81	Annual Billing Units 35,160 47,070 318,148 2,412	\$ 1,903 Projected Revenue \$ 98,800 \$ 1,730,764 \$ 1,126,244 \$ 6,778
3456789	\$ 3,734,723	FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City Billing - Resort Twp RTS - Resort Twp	Proposed Rate \$ 2.81 \$ 36.77 \$ 3.54 \$ 2.81 \$ 2.81 \$ 3.54 \$ 2.81	Annual Billing Units 35,160 47,070 318,148 2,412 3,396	\$ 1,903 Projected Revenue \$ 98,800 \$ 1,730,764 \$ 1,126,244 \$ 6,778 \$ 218,533
3456789	\$ 3,734,723	FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City Billing - Resort Twp RTS - Resort Twp Commodity - Resort Twp	Proposed Rate \$ 2.81 \$ 36.77 \$ 3.54 \$ 2.81 \$ 64.35 \$ 3.54	Annual Billing Units 35,160 47,070 318,148 2,412 3,396 42,475	\$ 1,903 Projected Revenue \$ \$ 98,800 \$ 1,730,764 \$ 1,126,244 \$ 6,778 \$ 218,533 \$ 150,362
345678990	\$ 3,734,723	FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City Billing - Resort Twp RTS - Resort Twp	Proposed Rate \$ 2.81 \$ 36.77 \$ 3.54 \$ 2.81 \$ 2.81 \$ 3.54 \$ 2.81	Annual Billing Units 35,160 47,070 318,148 2,412 3,396 42,475 52,677	\$ 1,903 Projected Revenue \$ \$ 98,800 \$ 1,730,764 \$ 1,126,244 \$ 6,778 \$ 218,533 \$ 150,362 \$ 177,521
345678901	\$ 3,734,723	FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City Billing - Resort Twp RTS - Resort Twp Commodity - Resort Twp	Proposed Rate \$ 2.81 \$ 36.77 \$ 3.54 \$ 2.81 \$ 64.35 \$ 3.54	Annual Billing Units 35,160 47,070 318,148 2,412 3,396 42,475 52,677 12	\$ 1,903 Projected Revenue \$ 98,800 \$ 1,730,764 \$ 1,126,244 \$ 6,778 \$ 218,533 \$ 150,362 \$ 177,521 \$ 186,509
3456789912	\$ 3,734,723	FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City Billing - Resort Twp RTS - Resort Twp Commodity - Resort Twp Commodity - SVBC	Proposed Rate \$ 2.81 \$ 36.77 \$ 3.54 \$ 2.81 \$ 64.35 \$ 3.54 \$ 3.54	Annual Billing Units 35,160 47,070 318,148 2,412 3,396 42,475 52,677	\$ 1,903 Projected Revenue \$ 98,800 \$ 1,730,764 \$ 1,126,244 \$ 6,778 \$ 218,533 \$ 150,362 \$ 177,521 \$ 186,509
345678992123	\$ 3,734,723	FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City Billing - Resort Twp RTS - Resort Twp Commodity - Resort Twp Commodity - SVBC Capital Charge - SVBC RTS - Bayview	Proposed Rate \$ 2.81 \$ 36.77 \$ 3.54 \$ 2.81 \$ 64.35 \$ 3.54 \$ 3.37 \$ 15,542.43 \$ 1,379.10	Annual Billing Units 35,160 47,070 318,148 2,412 3,396 42,475 52,677 12 12	\$ 1,903 Projected Revenue \$ 98,800 \$ 1,730,764 \$ 1,126,244 \$ 6,778 \$ 218,533 \$ 150,362 \$ 177,521 \$ 186,509 \$ 16,549
345678901234	\$ 3,734,723 Revenue Required From Rates	FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City Billing - Resort Twp RTS - Resort Twp Commodity - Resort Twp Commodity - SVBC Capital Charge - SVBC RTS - Bayview Commodity - Bayview	Proposed Rate \$ 2.81 \$ 36.77 \$ 3.54 \$ 2.81 \$ 64.35 \$ 3.37 \$ 15,542.43 \$ 1,379.10	Annual Billing Units 35,160 47,070 318,148 2,412 3,396 42,475 52,677 12	\$ 1,903 Projected Revenue \$ 98,800 \$ 1,730,764 \$ 1,126,244 \$ 6,778 \$ 218,533 \$ 150,362 \$ 177,521 \$ 186,509 \$ 16,549 \$ 88,671
345678990123345	\$ 3,734,723 Revenue Required From Rates \$ 3,795,809	FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City Billing - Resort Twp RTS - Resort Twp Commodity - Resort Twp Commodity - SVBC Capital Charge - SVBC RTS - Bayview	Proposed Rate \$ 2.81 \$ 36.77 \$ 3.54 \$ 2.81 \$ 64.35 \$ 3.54 \$ 3.37 \$ 15,542.43 \$ 1,379.10	Annual Billing Units 35,160 47,070 318,148 2,412 3,396 42,475 52,677 12 12 20,016	\$ 1,903 Projected Revenue \$ 98,800 \$ 1,730,764 \$ 1,126,244 \$ 6,778 \$ 218,533 \$ 150,362 \$ 150,362 \$ 177,521 \$ 186,509 \$ 16,549 \$ 886,671 \$ 3,800,730 }
34567890123456	\$ 3,734,723 Revenue Required From Rates	FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City Billing - Resort Twp RTS - Resort Twp Commodity - Resort Twp Commodity - SVBC Capital Charge - SVBC RTS - Bayview Commodity - Bayview TOTAL	Proposed Rate \$ 2.81 \$ 36.77 \$ 3.54 \$ 2.81 \$ 64.35 \$ 3.54 \$ 3.37 \$ 15,542.43 \$ 1,379.10 \$ 4.43	Annual Billing Units 35,160 47,070 318,148 2,412 3,396 42,475 52,677 12 12	\$ 1,903 Projected Revenue \$ 98,800 \$ 1,730,764 \$ 1,126,244 \$ 6,778 \$ 218,533 \$ 150,362 \$ 150,362 \$ 177,521 \$ 186,509 \$ 16,549 \$ 886,671 \$ 3,800,730 }
3456789001234567	\$ 3,734,723 Revenue Required From Rates \$ 3,795,809 \$ 3,795,809	FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City Billing - Resort Twp RTS - Resort Twp Commodity - Resort Twp Commodity - SVBC Capital Charge - SVBC RTS - Bayview Commodity - Bayview TOTAL FY 2	Proposed Rate \$ 2.81 \$ 36.77 \$ 3.54 \$ 2.81 \$ 64.35 \$ 3.54 \$ 3.37 \$ 15,542.43 \$ 1,379.10 \$ 4.43 	Annual Billing Units 35,160 47,070 318,148 2,412 3,396 42,475 52,677 12 12 20,016 CLOSURE:	\$ 1,903 Projected Revenue \$ 98,800 \$ 1,730,764 \$ 1,126,244 \$ 6,778 \$ 218,533 \$ 150,362 \$ 177,521 \$ 186,509 \$ 186,509 \$ 8,671 \$ 3,800,730 \$ 4,921
345678999122345678	\$ 3,734,723 Revenue Required From Rates \$ 3,795,809	FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City Billing - Resort Twp RTS - Resort Twp Commodity - Resort Twp Commodity - SVBC Capital Charge - SVBC RTS - Bayview Commodity - Bayview TOTAL FY 2 Charge	Proposed Rate \$ 2.81 \$ 36.77 \$ 3.54 \$ 2.81 \$ 64.35 \$ 3.54 \$ 3.37 \$ 15,542.43 \$ 1,379.10 \$ 4.43 2023 Proposed Rate	Annual Billing Units 35,160 47,070 318,148 2,412 3,396 42,475 52,677 12 12 20,016 CLOSURE: Annual Billing Units	\$ 1,903 Projected Revenue \$ 98,800 \$ 1,730,764 \$ 1,126,244 \$ 6,778 \$ 218,533 \$ 150,362 \$ 177,521 \$ 186,509 \$ 186,509 \$ 186,509 \$ 3,800,730 \$ 4,921 Projected Revenue
34567899012345967899	\$ 3,734,723 Revenue Required From Rates \$ 3,795,809 \$ 3,795,809	FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City Billing - Resort Twp RTS - Resort Twp Commodity - SVBC Commodity - SVBC Capital Charge - SVBC RTS - Bayview Commodity - Bayview TOTAL FY 2 Charge Billing - Inside City	Proposed Rate \$ 2.81 \$ 36.77 \$ 3.54 \$ 2.81 \$ 64.35 \$ 3.54 \$ 3.37 \$ 15,542.43 \$ 1,379.10 \$ 4.43 	Annual Billing Units 35,160 47,070 318,148 2,412 3,396 42,475 52,677 12 12 20,016 CLOSURE: Annual Billing Units 35,160	\$ 1,903 Projected Revenue \$ 98,800 \$ 1,730,764 \$ 1,126,244 \$ 6,778 \$ 218,533 \$ 150,362 \$ 177,521 \$ 186,509 \$ 166,509 \$ 166,509 \$ 186,509 \$ 3,800,730 \$ 4,921 Projected Revenue \$ 99,503
3456789921233459278992	\$ 3,734,723 Revenue Required From Rates \$ 3,795,809 \$ 3,795,809	FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City Billing - Resort Twp RTS - Resort Twp Commodity - Resort Twp Commodity - Resort Twp Commodity - SVBC Capital Charge - SVBC RTS - Bayview Commodity - Bayview TOTAL FY 2 Charge Billing - Inside City RTS - Inside City	Proposed Rate \$ 2.81 \$ 36.77 \$ 3.54 \$ 2.81 \$ 64.35 \$ 3.37 \$ 15,542.43 \$ 1,379.10 \$ 4.43 	Annual Billing Units 35,160 47,070 318,148 2,412 3,396 42,475 52,677 12 20,016 CLOSURE: Annual Billing Units 35,160 47,070	\$ 1,903 Projected Revenue 9,98,800 \$ 1,730,764 \$ 1,126,244 \$ 6,778 \$ 218,533 \$ 150,362 \$ 177,521 \$ 186,509 \$ 16,549 \$ 88,671 \$ 3,800,730 \$ 4,921 Projected Revenue \$ 99,503 \$ 1,796,191
345678896122334567889001	\$ 3,734,723 Revenue Required From Rates \$ 3,795,809 \$ 3,795,809	FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City Billing - Resort Twp RTS - Resort Twp Commodity - Resort Twp Commodity - SVBC Capital Charge - SVBC RTS - Bayview Commodity - Bayview TOTAL FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City	Proposed Rate \$ 2.81 \$ 36.77 \$ 3.54 \$ 2.81 \$ 64.35 \$ 3.54 \$ 3.37 \$ 15,542.43 \$ 1,379.10 \$ 4.43 Proposed Rate \$ 2.83 \$ 3.8.16 \$ 3.69	Annual Billing Units 35,160 47,070 318,148 2,412 3,396 42,475 52,677 12 20,016 CLOSURE: Annual Billing Units 35,160 47,070 318,148	\$ 1,903 Projected Revenue \$ 98,800 \$ 1,730,764 \$ 1,126,244 \$ 6,778 \$ 218,533 \$ 150,362 \$ 175,521 \$ 186,509 \$ 16,549 \$ 886,671 \$ 3,800,730 \$ 4,921 Projected Revenue \$ 99,503 \$ 1,796,191 \$ 1,173,966
	\$ 3,734,723 Revenue Required From Rates \$ 3,795,809 \$ 3,795,809	FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City Billing - Resort Twp RTS - Resort Twp Commodity - SVBC Capital Charge - SVBC Capital Charge - SVBC Capital Charge - SVBC RTS - Bayview Commodity - Bayview TOTAL FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City Billing - Resort Twp	Proposed Rate \$ 2.81 \$ 36.77 \$ 3.54 \$ 2.81 \$ 64.35 \$ 3.54 \$ 3.37 \$ 15,542.43 \$ 1,379.10 \$ 4.43 2023 Proposed Rate \$ 2.83 \$ 3.816 \$ 3.69 \$ 2.83	Annual Billing Units 35,160 47,070 318,148 2,412 3,396 42,475 52,677 12 20,016 CLOSURE: Annual Billing Units 35,160 47,070 318,148 2,412	\$ 1,903 Projected Revenue \$ 98,800 \$ 1,730,764 \$ 1,126,244 \$ 6,778 \$ 218,533 \$ 150,362 \$ 150,362 \$ 177,521 \$ 186,509 \$ 16,549 \$ 886,671 \$ 3,800,730 \$ 4,921 Projected Revenue \$ 99,503 \$ 1,796,191 \$ 1,173,986 \$ 6,826
349999999999999999999999999999999999999	\$ 3,734,723 Revenue Required From Rates \$ 3,795,809 \$ 3,795,809	FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City Billing - Resort Twp RTS - Resort Twp Commodity - SVBC Capital Charge - SVBC Capital Charge - SVBC Capital Charge - SVBC RTS - Bayview Commodity - Bayview TOTAL FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City Billing - Resort Twp RTS - Resort Twp	Proposed Rate \$ 2.81 \$ 36.77 \$ 3.54 \$ 2.81 \$ 64.35 \$ 3.54 \$ 3.37 \$ 15,542.43 \$ 1,379.10 \$ 4.43 CO23 Proposed Rate \$ 2.83 \$ 38.16 \$ 3.66.78 \$ 0.678 \$	Annual Billing Units 35,160 47,070 318,148 2,412 3,396 42,475 52,677 12 12 20,016 CLOSURE: Annual Billing Units 35,160 47,070 318,148 2,412 3,396	\$ 1,903 Projected Revenue \$ 98,800 \$ 1,730,764 \$ 1,126,244 \$ 6,778 \$ 218,533 \$ 150,362 \$ 177,521 \$ 186,509 \$ 16,549 \$ 88,671 \$ 3,800,730 \$ 4,921 Projected Revenue \$ 99,503 \$ 1,796,191 \$ 1,173,966 \$ 6,826 \$ 226,785
	\$ 3,734,723 Revenue Required From Rates \$ 3,795,809 \$ 3,795,809	FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City Billing - Resort Twp RTS - Resort Twp Commodity - Resort Twp Commodity - SVBC Capital Charge - SVBC RTS - Bayview Commodity - Bayview TOTAL FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City Billing - Resort Twp RTS - Resort Twp Commodity - Resort Twp	Proposed Rate \$ 2.81 \$ 36.77 \$ 3.54 \$ 2.81 \$ 64.35 \$ 3.54 \$ 3.37 \$ 15,542.43 \$ 1,379.10 \$ 4.43 Proposed Rate \$ 2.83 \$ 38.16 \$ 3.69 \$ 2.83 \$ 3.69 \$ 3.69	Annual Billing Units 35,160 47,070 318,148 2,412 3,396 42,475 52,677 12 20,016 CLOSURE: Annual Billing Units 35,160 47,070 318,148 2,412 3,396 42,475	\$ 1,903 Projected Revenue \$ 98,800 \$ 1,730,764 \$ 1,126,244 \$ 6,778 \$ 218,533 \$ 150,362 \$ 177,521 \$ 186,509 \$ 16,549 \$ 88,671 \$ 3,800,730 \$ 4,921 Projected Revenue \$ 99,503 \$ 1,796,191 \$ 1,173,966 \$ 6,826 \$ 226,785 \$ 156,733
	\$ 3,734,723 Revenue Required From Rates \$ 3,795,809 \$ 3,795,809	FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City Billing - Resort Twp RTS - Resort Twp Commodity - Resort Twp Commodity - SVBC Capital Charge - SVBC RTS - Bayview Commodity - Bayview TOTAL FY 2 Charge Billing - Inside City RTS - Inside City RTS - Inside City Commodity - Inside City Billing - Resort Twp RTS - Resort Twp Commodity - SVBC	Proposed Rate \$ 2.81 \$ 36.77 \$ 3.54 \$ 2.81 \$ 64.35 \$ 3.54 \$ 3.37 \$ 15,542.43 \$ 1,379.10 \$ 4.43 Proposed Rate \$ 2.83 \$ 38.16 \$ 3.69 \$ 2.83 \$ 66.78 \$ 3.69 \$ 3.51	Annual Billing Units 35,160 47,070 318,148 2,412 3,396 42,475 52,677 12 20,016 CLOSURE: Annual Billing Units 35,160 47,070 318,148 2,412 3,396 42,475 52,677	\$ 1,903 Projected Revenue \$ 98,800 \$ 1,730,764 \$ 1,126,244 \$ 6,778 \$ 218,533 \$ 150,362 \$ 177,521 \$ 186,509 \$ 16,549 \$ 88,671 \$ 3,800,730 \$ 4,921 Projected Revenue \$ 99,503 \$ 1,796,191 \$ 1,173,966 \$ 226,785 \$ 156,733 \$ 184,896
	\$ 3,734,723 Revenue Required From Rates \$ 3,795,809 \$ 3,795,809	FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City Billing - Resort Twp RTS - Resort Twp Commodity - Resort Twp Commodity - SVBC Capital Charge - SVBC RTS - Bayview Commodity - Bayview TOTAL FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City Billing - Resort Twp RTS - Resort Twp Commodity - Resort Twp	Proposed Rate \$ 2.81 \$ 36.77 \$ 3.54 \$ 2.81 \$ 64.35 \$ 3.54 \$ 3.37 \$ 15,542.43 \$ 1,379.10 \$ 4.43 Proposed Rate \$ 2.83 \$ 38.16 \$ 3.69 \$ 2.83 \$ 3.69 \$ 3.69	Annual Billing Units 35,160 47,070 318,148 2,412 3,396 42,475 52,677 12 20,016 CLOSURE: Annual Billing Units 35,160 47,070 318,148 2,412 3,396 42,475 52,677 12	\$ 1,903 Projected Revenue \$ 98,800 \$ 1,730,764 \$ 1,126,244 \$ 6,778 \$ 218,533 \$ 150,362 \$ 177,521 \$ 186,509 \$ 16,549 \$ 8,86,71 \$ 3,800,730 \$ 4,921 Projected Revenue \$ 99,503 \$ 1,796,191 \$ 1,173,966 \$ 2,26,785 \$ 1,173,966 \$ 2,26,785 \$ 1,173,966 \$ 2,26,785 \$ 1,173,966 \$ 2,26,785 \$ 1,174,966 \$ 1,173,966 \$ 2,26,785 \$ 1,174,966 \$ 1,175,966 \$ 1,17
	\$ 3,734,723 Revenue Required From Rates \$ 3,795,809 \$ 3,795,809	FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City Billing - Resort Twp RTS - Resort Twp Commodity - Resort Twp Commodity - SVBC Capital Charge - SVBC RTS - Bayview Commodity - Bayview TOTAL FY 2 Charge Billing - Inside City RTS - Inside City RTS - Inside City Commodity - Inside City Billing - Resort Twp RTS - Resort Twp Commodity - SVBC	Proposed Rate \$ 2.81 \$ 36.77 \$ 3.54 \$ 2.81 \$ 64.35 \$ 3.54 \$ 3.37 \$ 15,542.43 \$ 1,379.10 \$ 4.43 Proposed Rate \$ 2.83 \$ 38.16 \$ 3.69 \$ 2.83 \$ 66.78 \$ 3.69 \$ 3.51	Annual Billing Units 35,160 47,070 318,148 2,412 3,396 42,475 52,677 12 20,016 CLOSURE: Annual Billing Units 35,160 47,070 318,148 2,412 3,396 42,475 52,677 12 12 12	\$ 1,903 Projected Revenue \$ 98,800 \$ 1,730,764 \$ 1,126,244 \$ 6,778 \$ 218,533 \$ 150,362 \$ 177,521 \$ 186,509 \$ 16,549 \$ 17,521 \$ 17,521 \$ 16,549 \$ 16,549 \$ 17,521 \$ 17,521 \$ 16,549 \$ 16,549 \$ 16,549 \$ 17,521 \$ 16,549 \$ 17,521 \$ 17,521 \$ 16,549 \$ 16,549 \$ 16,549 \$ 17,521 \$ 17,521 \$ 16,549 \$ 17,521 \$ 16,549 \$ 17,521 \$ 17,521 \$ 16,549 \$ 16,549 \$ 17,521 \$ 16,549 \$ 17,521 \$ 17,521 \$ 16,549 \$ 17,521 \$ 16,549 \$ 17,521 \$ 17,521 \$ 16,549 \$ 17,521 \$ 16,549 \$ 16,549 \$ 16,549 \$ 17,521 \$ 16,549 \$ 17,521 \$ 16,549 \$ 17,521 \$ 16,549 \$ 17,521 \$ 16,549 \$ 17,521 \$ 16,549 \$ 17,521 \$ 17,521 \$ 17,521 \$ 16,549 \$ 17,521 \$ 17,521 \$ 16,549 \$ 17,521 \$ 17,521 \$ 16,549 \$ 17,521 \$ 17
34967899678996799999999999999999999999999	\$ 3,734,723 Revenue Required From Rates \$ 3,795,809 \$ 3,795,809	FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City Billing - Resort Twp RTS - Resort Twp Commodity - Resort Twp Commodity - SVBC Capital Charge - SVBC RTS - Bayview Commodity - Bayview TOTAL FY 2 Charge Billing - Inside City RTS - Inside City RTS - Inside City Billing - Inside City Billing - Resort Twp RTS - Resort Twp Commodity - Resort Twp Commodity - SVBC Capital Charge - SVBC	Proposed Rate \$ 2.81 \$ 36.77 \$ 3.54 \$ 2.81 \$ 64.35 \$ 3.54 \$ 3.37 \$ 15,542.43 \$ 1,379.10 \$ 4.43 Proposed Rate \$ 2.83 \$ 38.16 \$ 3.69 \$ 2.83 \$ 38.16 \$ 3.69 \$ 2.83 \$ 3.51 \$ 16,529.79	Annual Billing Units 35,160 47,070 318,148 2,412 3,396 42,475 52,677 12 20,016 CLOSURE: Annual Billing Units 35,160 47,070 318,148 2,412 3,396 42,475 52,677 12 12 12	\$ 1,903 Projected Revenue \$ 98,800 \$ 1,730,764 \$ 1,126,244 \$ 6,778 \$ 218,533 \$ 150,362 \$ 177,521 \$ 18,6509 \$ 16,549 \$ 88,671 \$ 3,800,730 \$ 4,921 Projected Revenue \$ 99,503 \$ 1,796,191 \$ 1,173,986 \$ 6,826 \$ 226,785 \$ 156,733 \$ 184,896 \$ 198,357 \$ 17,172 \$ 92,474 \$
<u>8,2,8,7,8,8,5,5,5,6,8,8,6,8,8,8,8,7,8,7,8,7,8,7,8,7,8,7,8,7,8,7,8,7,8,7,8,7</u>	\$ 3,734,723 Revenue Required From Rates \$ 3,795,809 \$ 3,795,809 Revenue Required From Rates	FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City Billing - Resort Twp RTS - Resort Twp Commodity - SVBC Capital Charge - SVBC Capital Charge - SVBC Commodity - Bayview TOTAL FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City Billing - Resort Twp RTS - Resort Twp Commodity - Resort Twp Commodity - SVBC Capital Charge - SVBC Capital Charge - SVBC RTS - Bayview Commodity - Bayview	Proposed Rate \$ 2.81 \$ 36.77 \$ 3.54 \$ 2.81 \$ 64.35 \$ 3.54 \$ 3.37 \$ 15,542.43 \$ 1,379.10 \$ 4.43 Proposed Rate \$ 2.83 \$ 3.816 \$ 3.69 \$ 2.83 \$ 3.69 \$	Annual Billing Units 35,160 47,070 318,148 2,412 3,396 42,475 52,677 12 20,016 CLOSURE: Annual Billing Units 35,160 47,070 318,148 2,412 3,396 42,475 52,677 12	\$ 1,903 Projected Revenue \$ 98,800 \$ 1,730,764 \$ 1,126,244 \$ 6,778 \$ 218,533 \$ 150,362 \$ 177,521 \$ 18,6509 \$ 16,549 \$ 88,671 \$ 3,800,730 \$ 4,921 Projected Revenue \$ 99,503 \$ 1,796,191 \$ 1,173,986 \$ 6,826 \$ 226,785 \$ 156,733 \$ 184,896 \$ 198,357 \$ 17,172 \$ 92,474 \$
<u>0</u>	\$ 3,734,723 Revenue Required From Rates \$ 3,795,809 \$ 3,795,809 \$ 3,795,809 Revenue Required From Rates \$ 3,952,144	FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City Billing - Resort Twp RTS - Resort Twp Commodity - SVBC Capital Charge - SVBC Capital Charge - SVBC Commodity - Bayview TOTAL FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City Billing - Resort Twp RTS - Resort Twp Commodity - SVBC Capital Charge - SVBC Capital Charge - SVBC	Proposed Rate \$ 2.81 \$ 36.77 \$ 3.54 \$ 2.81 \$ 64.35 \$ 3.54 \$ 3.37 \$ 15,542.43 \$ 1,379.10 \$ 4.43 Proposed Rate \$ 2.83 \$ 3.816 \$ 3.69 \$ 2.83 \$ 3.69 \$	Annual Billing Units 35,160 47,070 318,148 2,412 3,396 42,475 52,677 12 20,016 CLOSURE: Annual Billing Units 35,160 47,070 318,148 2,412 3,396 42,475 52,677 12 12 12 12 12 12 12 12 12 12	\$ 1,903 Projected Revenue \$ 98,800 \$ 1,730,764 \$ 1,126,244 \$ 6,778 \$ 218,533 \$ 150,362 \$ 177,521 \$ 18,6509 \$ 16,549 \$ 16,549 \$ 88,671 \$ 3,800,730 \$ 4,921 Projected Revenue \$ 99,503 \$ 1,796,191 \$ 1,173,966 \$ 6,826 \$ 226,785 \$ 156,733 \$ 184,896 \$ 198,357 \$ 17,172 \$ 92,474 \$ 3,952,903
	\$ 3,734,723 Revenue Required From Rates \$ 3,795,809 \$ 3,795,809 Revenue Required From Rates	FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City Billing - Resort Twp RTS - Resort Twp Commodity - Resort Twp Commodity - SVBC Capital Charge - SVBC RTS - Bayview Commodity - Bayview TOTAL FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City Billing - Resort Twp RTS - Resort Twp RTS - Resort Twp Commodity - SVBC Capital Charge - SVBC RTS - Bayview Commodity - SVBC Capital Charge - SVBC RTS - Bayview Commodity - Bayview Commodity - Bayview	Proposed Rate \$ 2.81 \$ 36.77 \$ 3.54 \$ 2.81 \$ 64.35 \$ 3.54 \$ 3.37 \$ 15,542.43 \$ 1,379.10 \$ 4.43 2023 Proposed Rate \$ 2.83 \$ 38.16 \$ 3.69 \$ 2.83 \$ 66.78 \$ 3.69 \$ 1,431.00 \$ 4.62	Annual Billing Units 35,160 47,070 318,148 2,412 3,396 42,475 52,677 12 20,016 CLOSURE: Annual Billing Units 35,160 47,070 318,148 2,412 3,396 42,475 52,677 12 12 12	\$ 1,903 Projected Revenue \$ 98,800 \$ 1,730,764 \$ 1,126,244 \$ 6,778 \$ 218,533 \$ 150,362 \$ 177,521 \$ 18,6509 \$ 16,549 \$ 16,549 \$ 88,671 \$ 3,800,730 \$ 4,921 Projected Revenue \$ 99,503 \$ 1,796,191 \$ 1,173,966 \$ 6,826 \$ 226,785 \$ 156,733 \$ 184,896 \$ 198,357 \$ 17,172 \$ 92,474 \$ 3,952,903
	\$ 3,734,723 Revenue Required From Rates \$ 3,795,809 \$ 3,795,809 \$ 3,795,809 Revenue Required From Rates \$ 3,952,144 \$ 3,952,144	FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City Billing - Resort Twp RTS - Resort Twp Commodity - Resort Twp Commodity - SVBC Capital Charge - SVBC RTS - Bayview Commodity - Bayview TOTAL FY 2 Charge Billing - Inside City RTS - Inside City RTS - Inside City Commodity - Inside City Billing - Resort Twp Commodity - Resort Twp Commodity - SVBC Capital Charge - SVBC RTS - Bayview Commodity - SVBC Capital Charge - SVBC RTS - Bayview Commodity - Bayview TOTAL	Proposed Rate \$ 2.81 \$ 36.77 \$ 3.54 \$ 2.81 \$ 64.35 \$ 3.54 \$ 3.37 \$ 15,542.43 \$ 1,379.10 \$ 4.43 2023 Proposed Rate \$ 2.83 \$ 38.16 \$ 3.69 \$ 2.83 \$ 38.16 \$ 3.69 \$ 2.83 \$ 3.69 \$ 3.51 \$ 3.69 \$ 2.83 \$ 3.69 \$ 2.83 \$ 3.69 \$ 2.83 \$ 3.69 \$ 3.51 \$ 3.69 \$ 3.51 \$ 3.69 \$ 3.69 \$ 3.51 \$ 3.69 \$ 3	Annual Billing Units 35,160 47,070 318,148 2,412 3,396 42,475 52,677 12 20,016 CLOSURE: Annual Billing Units 35,160 47,070 318,148 2,412 3,396 42,475 52,677 12 12 20,016 20,016 CLOSURE:	\$ 1,903 Projected Revenue \$ 98,800 \$ 1,730,764 \$ 1,126,244 \$ 6,778 \$ 218,533 \$ 150,362 \$ 177,521 \$ 186,509 \$ 16,549 \$ 186,509 \$ 16,549 \$ 88,671 \$ 3,800,730 \$ 4,921 Projected Revenue \$ 99,503 \$ 1,796,191 \$ 1,173,966 \$ 2,26,785 \$ 156,733 \$ 184,896 \$ 198,357 \$ 174,172 \$ 92,474 \$ 3,952,903 \$ 759
	\$ 3,734,723 Revenue Required From Rates \$ 3,795,809 \$ 3,795,809 \$ 3,795,809 Revenue Required From Rates \$ 3,952,144	FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City Billing - Resort Twp RTS - Resort Twp Commodity - Resort Twp Commodity - SVBC Capital Charge - SVBC RTS - Bayview Commodity - Bayview TOTAL FY 2 Charge Billing - Inside City RTS - Inside City RTS - Inside City Billing - Resort Twp Commodity - Inside City Billing - Resort Twp Commodity - Resort Twp Commodity - SVBC Capital Charge - SVBC RTS - Bayview Commodity - SVBC Capital Charge - SVBC RTS - Bayview Commodity - Bayview TOTAL FY 2019 f	Proposed Rate \$ 2.81 \$ 36.77 \$ 3.54 \$ 2.81 \$ 64.35 \$ 3.54 \$ 3.37 \$ 15,542.43 \$ 1,379.10 \$ 4.43 2023 Proposed Rate \$ 2.83 \$ 38.16 \$ 3.69 \$ 2.83 \$ 38.16 \$ 3.69 \$ 2.83 \$ 3.69 \$ 3.51 \$ 3.69 \$ 2.83 \$ 3.69 \$ 2.83 \$ 3.69 \$ 2.83 \$ 3.69 \$ 3.51 \$ 3.69 \$ 3.51 \$ 3.69 \$ 3.69 \$ 3.51 \$ 3.69 \$ 3	Annual Billing Units 35,160 47,070 318,148 2,412 3,396 42,475 52,677 12 20,016 CLOSURE: Annual Billing Units 35,160 47,070 318,148 2,412 3,396 42,475 52,677 12 12 12 12 12 12 12 12 12 12	\$ 1,903 Projected Revenue \$ 98,800 \$ 1,730,764 \$ 1,126,244 \$ 6,778 \$ 218,533 \$ 150,362 \$ 16,549 \$ 17,520 \$ 17,521 \$ 17,521 \$ 17,521 \$ 17,521 \$ 17,5
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	\$ 3,734,723 Revenue Required From Rates \$ 3,795,809 \$ 3,795,809 \$ 3,795,809 Revenue Required From Rates \$ 3,952,144 \$ 3,952,144	FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City Billing - Resort Twp RTS - Resort Twp Commodity - SVBC Capital Charge - SVBC Capital Charge - SVBC Commodity - SVBC Commodity - Bayview TOTAL FY 2 Charge Billing - Inside City RTS - Inside City RTS - Resort Twp Commodity - Inside City Billing - Resort Twp Commodity - Resort Twp Commodity - SVBC Capital Charge - SVBC Capital Charge - SVBC RTS - Bayview Commodity - SVBC Capital Charge - SVBC RTS - Bayview TOTAL FY 2019 f Charge Billing - Inside City RTS - Inside City RTS - Inside City RTS - Inside City RTS - Inside City RTS - Inside City RTS - Inside City RTS - Inside City RTS - Inside City	Proposed Rate \$ 2.81 \$ 36.77 \$ 3.54 \$ 2.81 \$ 64.35 \$ 3.54 \$ 3.37 \$ 15,542.43 \$ 1,379.10 \$ 4.43 2023 Proposed Rate \$ 2.83 \$ 38.16 \$ 3.69 \$ 2.83 \$ 38.16 \$ 3.69 \$ 2.83 \$ 3.69 \$ 3.51 \$ 3.69 \$ 2.83 \$ 3.69 \$ 2.83 \$ 3.69 \$ 2.83 \$ 3.69 \$ 3.51 \$ 3.69 \$ 3.51 \$ 3.69 \$ 3.69 \$ 3.51 \$ 3.69 \$ 3	Annual Billing Units 35,160 47,070 318,148 2,412 3,396 42,475 52,677 12 20,016 CLOSURE: Annual Billing Units 35,160 47,070 318,148 2,412 3,396 42,475 52,677 12 12 20,016 20,016 CLOSURE:	\$ 1,903 Projected Revenue \$ 98,800 \$ 1,730,764 \$ 1,126,244 \$ 6,778 \$ 218,533 \$ 150,362 \$ 177,521 \$ 186,509 \$ 16,549 \$ 17,752 \$ 16,549 \$ 17,752 \$ 16,549 \$ 17,752 \$ 17,752 \$ 17,752 \$ 17
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13 14 16 12 13 14 15 16 17<	\$ 3,734,723 Revenue Required From Rates \$ 3,795,809 \$ 3,795,809 \$ 3,795,809 Revenue Required From Rates \$ 3,952,144 \$ 3,952,144	FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City Billing - Resort Twp RTS - Resort Twp Commodity - Resort Twp Commodity - SVBC Capital Charge - SVBC RTS - Bayview Commodity - Bayview TOTAL FY 2 Charge Billing - Inside City RTS - Inside City Billing - Resort Twp RTS - Resort Twp Commodity - SVBC Capital Charge - SVBC RTS - Bayview Commodity - Resort Twp RTS - Resort Twp Commodity - SVBC Capital Charge - SVBC RTS - Bayview Commodity - SVBC Capital Charge - SVBC RTS - Bayview Commodity - SVBC Capital Charge - SVBC RTS - Bayview Commodity - SVBC Capital Charge - SVBC RTS - Bayview Commodity - Inside City RTS - Resort Twp	Proposed Rate \$ 2.81 \$ 36.77 \$ 3.54 \$ 2.81 \$ 64.35 \$ 3.54 \$ 3.37 \$ 15,542.43 \$ 1,379.10 \$ 4.43 2023 Proposed Rate \$ 2.83 \$ 38.16 \$ 3.69 \$ 2.83 \$ 38.16 \$ 3.69 \$ 2.83 \$ 3.69 \$ 3.51 \$ 3.69 \$ 2.83 \$ 3.69 \$ 2.83 \$ 3.69 \$ 2.83 \$ 3.69 \$ 3.51 \$ 3.69 \$ 3.51 \$ 3.69 \$ 3.69 \$ 3.51 \$ 3.69 \$ 3	Annual Billing Units 35,160 47,070 318,148 2,412 3,396 42,475 52,677 12 20,016 CLOSURE: Annual Billing Units 35,160 47,070 318,148 2,412 3,396 42,475 52,677 12 12 20,016 20,016 CLOSURE:	\$ 1,903 Projected Revenue 9,98,800 1,730,764 1,126,244 5,6,778 2,18,533 5,150,362 5,177,521 5,186,509 5,16,549 5,88,671 5,380,730 5,4,921 Projected Revenue 5,99,503 5,1,796,191 5,1,173,966 5,26,785 5,156,733 5,184,896 5,198,357 5,174,172 5,92,474 5,3952,903 5,759 Projected Revenue 5,488,372 5,3418,060 5,33,503 5,1,083,596
13 14 15 16<	\$ 3,734,723 Revenue Required From Rates \$ 3,795,809 \$ 3,795,809 \$ 3,795,809 Revenue Required From Rates \$ 3,952,144 \$ 3,952,144	FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City Billing - Resort Twp RTS - Resort Twp Commodity - Resort Twp Commodity - SVBC Capital Charge - SVBC RTS - Bayview Commodity - Bayview TOTAL FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City Billing - Resort Twp Commodity - SVBC Capital Charge - SVBC RTS - Bayview Commodity - SVBC Capital Charge - SVBC RTS - Bayview Commodity - Bayview TOTAL FY 2019 f Charge Billing - Inside City RTS - Inside City RTS - Bayview Commodity - Inside City RTS - Inside City RTS - Resort Twp Commodity - Inside City RTS - Inside City RTS - Resort Twp RTS - Resort Twp Commodity - Resort Twp Commodity - Resort Twp Commodity - Resort Twp Commodity - Resort Twp Commodity - Resort Twp Commodity - Resort Twp	Proposed Rate \$ 2.81 \$ 36.77 \$ 3.54 \$ 2.81 \$ 64.35 \$ 3.54 \$ 3.37 \$ 15,542.43 \$ 1,379.10 \$ 4.43 2023 Proposed Rate \$ 2.83 \$ 38.16 \$ 3.69 \$ 2.83 \$ 38.16 \$ 3.69 \$ 2.83 \$ 3.69 \$ 3.51 \$ 3.69 \$ 2.83 \$ 3.69 \$ 2.83 \$ 3.69 \$ 2.83 \$ 3.69 \$ 3.51 \$ 3.69 \$ 3.51 \$ 3.69 \$ 3.69 \$ 3.51 \$ 3.69 \$ 3	Annual Billing Units 35,160 47,070 318,148 2,412 3,396 42,475 52,677 12 20,016 CLOSURE: Annual Billing Units 35,160 47,070 318,148 2,412 3,396 42,475 52,677 12 12 20,016 20,016 CLOSURE:	\$ 1,903 Projected Revenue \$ 98,800 \$ 1,730,764 \$ 1,126,244 \$ 6,778 \$ 218,533 \$ 150,362 \$ 16,549 \$ 16,549 \$ 16,549 \$ 16,549 \$ 16,549 \$ 3,800,730 \$ 16,549 \$ 3,800,730 \$ 16,549 \$ 3,800,730 \$ 1,752 \$ 17,521 Projected Revenue \$ 99,503 \$ 1,796,191 \$ 1,173,966 \$ 226,785 \$ 1,796,191 \$ 1,173,966 \$ 226,785 \$ 1,796,191 \$ 1,173,966 \$ 226,785 \$ 1,76,733 \$ 184,896 \$ 198,357 \$ 17,172 \$ 92,474 \$ 3,952,903 \$ 759 Projected Revenue \$ 488,372 \$ 3,552,273 \$ 5,418,060 \$ 3,3,503 \$ 1,083,596 \$ 723,349 }
13 14 15 16<	\$ 3,734,723 Revenue Required From Rates \$ 3,795,809 \$ 3,795,809 \$ 3,795,809 Revenue Required From Rates \$ 3,952,144 \$ 3,952,144	FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City Billing - Resort Twp RTS - Resort Twp Commodity - SVBC Capital Charge - SVBC Capital Charge Silling - Inside City Commodity - Inside City RTS - Resort Twp Commodity - Inside City Billing - Inside City RTS - Resort Twp Commodity - SVBC Capital Charge - SVBC RTS - Resort Twp Commodity - SVBC Capital Charge - SVBC RTS - Bayview Commodity - SVBC Capital Charge - SVBC RTS - Bayview Commodity - Bayview Commodity - SVBC Capital Charge - SVBC RTS - Bayview Commodity - Bayview Commodity - Bayview Commodity - Inside City RTS - Inside City Commodity - Inside City RTS - Resort Twp Commodity - Inside City RTS - Inside City Commodity - Inside City RTS - Inside City Commodity - Resort Twp Commodity - Inside City Billing - Inside City RTS - Inside City Commodity - SVBC Commodity - SVBC Commodity - SVBC Commodity - SVBC Commodity - SVBC Commodity - SVBC Commodity - SVBC Commodity - SVBC Commodity - SVBC Commodity - SVBC Commodity - SVBC Commodity - SVBC Commodity - SVBC Commodity - SVBC Commodity - SVBC Commodity - SVBC	Proposed Rate \$ 2.81 \$ 36.77 \$ 3.54 \$ 2.81 \$ 64.35 \$ 3.54 \$ 3.37 \$ 15,542.43 \$ 1,379.10 \$ 4.43 2023 Proposed Rate \$ 2.83 \$ 38.16 \$ 3.69 \$ 2.83 \$ 38.16 \$ 3.69 \$ 2.83 \$ 3.69 \$ 3.51 \$ 3.69 \$ 2.83 \$ 3.69 \$ 2.83 \$ 3.69 \$ 2.83 \$ 3.69 \$ 3.51 \$ 3.69 \$ 3.51 \$ 3.69 \$ 3.69 \$ 3.51 \$ 3.69 \$ 3	Annual Billing Units 35,160 47,070 318,148 2,412 3,396 42,475 52,677 12 20,016 CLOSURE: Annual Billing Units 35,160 47,070 318,148 2,412 3,396 42,475 52,677 12 12 20,016 20,016 CLOSURE:	\$ 1,903 Projected Revenue \$ 98,800 \$ 1,730,764 \$ 1,126,244 \$ 6,778 \$ 218,533 \$ 150,362 \$ 177,521 \$ 186,509 \$ 16,549 \$ 88,671 \$ 3,800,730 \$ 16,549 \$ 88,671 \$ 3,800,730 \$ 4,921 Projected Revenue \$ 99,503 \$ 1,796,191 \$ 1,173,966 \$ 4,921 Projected Revenue \$ 99,503 \$ 1,796,191 \$ 1,173,966 \$ 1,174 \$ 3,505 \$ 1,083,596 \$ 7,23,349 \$ 8,583,894
	\$ 3,734,723 Revenue Required From Rates \$ 3,795,809 \$ 3,795,809 \$ 3,795,809 Revenue Required From Rates \$ 3,952,144 \$ 3,952,144	FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City RTS - Resort Twp RTS - Resort Twp Commodity - SVBC Capital Charge - SVBC Commodity - Bayview Commodity - Bayview TOTAL FY 2 Charge Billing - Inside City RTS - Inside City Billing - Resort Twp Commodity - Resort Twp Commodity - Resort Twp Commodity - Resort Twp Commodity - Resort Twp Commodity - Resort Twp Commodity - Resort Twp Commodity - Bayview Commodity - Bayview Commodity - Bayview Commodity - Bayview Commodity - Bayview Commodity - Resort Twp Commodity - Bayview Commodity - Bayview Commodity - Bayview Commodity - Inside City RTS - Resort Twp Commodity - Inside City RTS - Inside City FY 2019 t Charge Billing - Inside City RTS - Inside City RTS - Inside City RTS - Resort Twp Commodity - Resort Twp Commodity - Resort Twp Commodity - Resort Twp Commodity - Resort Twp Commodity - SVBC Capital Charge SVBC Capital Charge SVBC Capital Charge - SVBC	Proposed Rate \$ 2.81 \$ 36.77 \$ 3.54 \$ 2.81 \$ 64.35 \$ 3.54 \$ 3.37 \$ 15,542.43 \$ 1,379.10 \$ 4.43 2023 Proposed Rate \$ 2.83 \$ 38.16 \$ 3.69 \$ 2.83 \$ 38.16 \$ 3.69 \$ 2.83 \$ 3.69 \$ 3.51 \$ 3.69 \$ 2.83 \$ 3.69 \$ 2.83 \$ 3.69 \$ 2.83 \$ 3.69 \$ 3.51 \$ 3.69 \$ 3.51 \$ 3.69 \$ 3.69 \$ 3.51 \$ 3.69 \$ 3	Annual Billing Units 35,160 47,070 318,148 2,412 3,396 42,475 52,677 12 20,016 CLOSURE: Annual Billing Units 35,160 47,070 318,148 2,412 3,396 42,475 52,677 12 12 20,016 20,016 CLOSURE:	\$ 1,903 Projected Revenue \$ 98,800 \$ 1,730,764 \$ 1,126,244 \$ 6,778 \$ 218,533 \$ 150,362 \$ 177,521 \$ 186,509 \$ 16,549 \$ 17,96 \$ 17,96 \$ 17,96 \$ 17,96 \$ 17,92 \$ 16,549 \$ 17,92 \$ 1
13 14 15 16 12 16<	\$ 3,734,723 Revenue Required From Rates \$ 3,795,809 \$ 3,795,809 \$ 3,795,809 Revenue Required From Rates \$ 3,952,144 \$ 3,952,144	FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City Billing - Resort Twp RTS - Resort Twp Commodity - Resort Twp Commodity - Resort Twp Commodity - SVBC Capital Charge - SVBC RTS - Bayview Commodity - Bayview TOTAL FY 2 Charge Billing - Inside City RTS - Inside City Billing - Resort Twp Commodity - SVBC Capital Charge - SVBC RTS - Resort Twp Commodity - SVBC Capital Charge - SVBC RTS - Resort Twp Commodity - SVBC Capital Charge - SVBC RTS - Bayview Commodity - Bayview Commodity - SVBC Capital Charge - SVBC RTS - Bayview Commodity - Inside City FY 2019 1 Charge Billing - Inside City RTS - Inside City RTS - Inside City RTS - Inside City RTS - Inside City RTS - Inside City RTS - Inside City RTS - Inside City RTS - Resort Twp Commodity - SVBC Capital Charge - SVBC RTS - Bayview Commodity - SVBC RTS - Resort Twp Commodity - SVBC RTS - Bayview Capital Charge - SVBC RTS - Bayview	Proposed Rate \$ 2.81 \$ 36.77 \$ 3.54 \$ 2.81 \$ 64.35 \$ 3.54 \$ 3.37 \$ 15,542.43 \$ 1,379.10 \$ 4.43 2023 Proposed Rate \$ 2.83 \$ 38.16 \$ 3.69 \$ 2.83 \$ 36.78 \$ 3.69 \$ 2.83 \$ 3.69 \$ 3.51 \$ 16,529.79 \$ 1,431.00 \$ 4.62 Proposed Rate	Annual Billing Units 35,160 47,070 318,148 2,412 3,396 42,475 52,677 12 20,016 CLOSURE: Annual Billing Units 35,160 47,070 318,148 2,412 3,396 42,475 52,677 12 12 20,016 20,016 CLOSURE:	\$ 1,903 Projected Revenue 9,98,800 \$ 1,730,764 \$ 1,126,244 \$ 6,778 \$ 218,533 \$ 150,362 \$ 177,521 \$ 186,509 \$ 16,549 \$ 186,509 \$ 16,549 \$ 186,509 \$ 16,549 \$ 186,509 \$ 16,549 \$ 186,509 \$ 179,51 \$ 186,509 \$ 186,509 \$ 186,509 \$ 186,509 \$ 186,509 \$ 186,509 \$ 198,357 \$ 10
	\$ 3,734,723 Revenue Required From Rates \$ 3,795,809 \$ 3,795,809 \$ 3,795,809 Revenue Required From Rates \$ 3,952,144 \$ 3,952,144	FY 2 Charge Billing - Inside City RTS - Inside City Commodity - Inside City RTS - Resort Twp RTS - Resort Twp Commodity - SVBC Capital Charge - SVBC Commodity - Bayview Commodity - Bayview TOTAL FY 2 Charge Billing - Inside City RTS - Inside City Billing - Resort Twp Commodity - Resort Twp Commodity - Resort Twp Commodity - Resort Twp Commodity - Resort Twp Commodity - SVBC Capital Charge - SVBC RTS - Bayview Commodity - Bayview Commodity - Bayview Commodity - Bayview Commodity - Bayview Commodity - Bayview Commodity - Resort Twp Commodity - Bayview Commodity - Bayview Commodity - Bayview Commodity - Inside City RTS - Resort Twp Commodity - Inside City RTS - Inside City FY 2019 t Charge Billing - Inside City RTS - Inside City RTS - Resort Twp Commodity - Resort Twp Commodity - Resort Twp Commodity - Resort Twp Commodity - Resort Twp Commodity - Resort Twp Commodity - Resort Twp Commodity - Resort Twp Commodity - Resort Twp Commodity - Resort Twp Commodity - SVBC Capital Charge SVBC	Proposed Rate \$ 2.81 \$ 36.77 \$ 3.54 \$ 2.81 \$ 64.35 \$ 3.54 \$ 3.37 \$ 15,542.43 \$ 1,379.10 \$ 4.43 Proposed Rate \$ 2.83 \$ 3.8.16 \$ 3.8.16 \$ 3.8.16 \$ 3.8.16 \$ 3.69 \$ 2.83 \$ 66.78 \$ 3.69 \$ 2.83 \$ 3.69 \$ 2.83 \$ 4.62 	Annual Billing Units 35,160 47,070 318,148 2,412 3,396 42,475 52,677 12 20,016 CLOSURE: Annual Billing Units 35,160 47,070 318,148 2,412 3,396 42,475 52,677 12 12 20,016 20,016 CLOSURE:	\$ 1,903 Projected Revenue \$ 98,800 \$ 1,730,764 \$ 1,126,244 \$ 6,778 \$ 218,533 \$ 150,362 \$ 177,521 \$ 186,509 \$ 16,549 \$ 17,96 \$ 17,96 \$ 17,96 \$ 17,96 \$ 17,92 \$ 16,549 \$ 17,92 \$ 1

Table S8 Local Replacement Value of Wastowater Facilities

Asset No.	Facility Name/Location	Year	ENR Factor in Year Acquired	Usefui Lifo (Yrs)	Total Amount Paid (\$)	Amount Locally Paid (\$)		ENR Factor to ieptembe r, 2018	Local Replacemen Vatue September 2018 (\$)
Pumping System		•						11,170	
592-025-321.01.01	10" Flow Control Valve Design & Install Relay	2001	6,342	2	. 4647 641		0. 0	1.7613	8,18 1,12
592-025-321.01.02 592-025-321.02.01	City/Fire Hall Lift Station	2001	6,538	25	129,585	129,585	0	1.7085	221,40
592-025-321.11.01	Bear River Lift Sta Replacement	2011	9,070	25	340,511	340,511	0	1.2316	419,36
92-025-321.03.01	City/Fire Hall Lift Station	2003	6,695	25	20,503	20,503	0	1.6685	34,21
92-025-321.71.01 92-025-321.75.01	Structures 1971 Structures 1975	1971 1975	1,581 2,212	42 42	14,000 9,560	14,000 9,560	0	7.0653 5.0499	98,91 48,27
92-025-321.76.01	Structures 1976	1976	2,400	42	1,998	1,998	0	4.6544	9,30
92-025-321.85.01	Structures Job 529 1985	1985	4,194	42	6,400	6,400	0	2.6637	17,04
92-025-321.88.01	Structures 1988	1988	4,519	42	17,587	17,587	. 0	2.4716	43,46
92-025-321.90.01 92-025-321.91.01	Structures 1990 Structures 1991	1990	4,728	42	10,915	10,915	· · · · · · · · · · · · · · · · · · ·	2.3628	25,79 40,77
92-025-321.92.01	Structures Job 369	1992	4,985	42	2,543	2,543	· · · · · · · · · · · · · · · · · · ·	2.2410	5,69
92-025-321.94.01	500K Heat Changer-Alfa	1994	5,410	20	19,100	19,100	0	2.0648	39,43
92-025-321.94.02	Improvements 1994	1994	5,410	20	5,827	5,827	0	2.0648	12,03
92-025-321.95.01	(2) Grinder Pumps & Drives	1995	5,471	5	14,028	14,028	0	2.0417	28,64
92-025-321.95.02 92-025-321.96.01	Lift Station/Bay Harbor (2) Bay Harbor Lift Station	1995	5,471 5,618	20 20	82,000	82,000 13,400	0	2.0417 1.9883	<u>167,41</u> 26,64
92-025-321.96.01	Job 77 Control Panel Fire Hall	1996	5,618	20	34,149	34,149	0	1.9883	67,8
92-025-321.96.03	Lift Station/Bay Harbor	1996	5,618	20	121,400	121,400	Ö	1.9883	241,3
92-025-321.98.01	Rosedale Lift Station	1998	5,920	20	52,638	52,636	0	1.8869	99,3
92-025-321.99.01	WWTP-Conduits, Cond Upgr	1999	6,059	20	46,607	46,607	0	1.8434	85,9
92-025-321.99.02	Magnus Lift Station Floor	1999	6,059	. 5	5,350	5,350	0	1.8434	9,8
92-025-321.81.01	Pump Equipment 1962 - 1981 Electric Pump Equip 1991	<u>1981</u> 1991	3,533 4,834	. <u>20</u> 33	6,060 9,256	6,060 9,256	0	3.1614 2.3106	<u>19,1</u> 21,3
92-025-321.91.01 92-025-321.92.01	Electric Pump Equip 1991	1991	4,834	33	9,250	4,473	0	2.2410	10,0
92-025-321.94.01	Electric Pump Equip 1994	1994	5,410	10	2,538	2,538	, j	2.0648	5,2
92-025-321.12.01	Bear River Lift Station	2012	9,308	25	463,391	463,391	Ö	1.2001	556,0
92-025-321.15.01	Pinebluff Lift Station	2015	10,031	25	116,948	116,946	0	1.1138	130,2
reatment System	WWTP Renovations	2002	6,538	40	5,172,455	5,172,455	o	1.7085	8,837,3
92-025-321.02.02 92-025-321.04.02	WWTP Renovations	2002	6,695	40	334,476	334,476		1.6685	558,0
92-025-330.00.00	Treatment Land & Rights	1960	824	0	20,702	20,702	0	1.0000	20,7
92-025-330.03.01	WWTP Renovations	2003	6,695	40	2,036,309	2,036,309	0	1.6685	3,397,6
92-025-330.04.01	Parking & Driveway Paving	2004	7,115	20	41,159	41,159	0	1.5700	64,6
92-025-330.11.01	WWTP Headworks Recon	2011	9,070	25	953,088	953,088	0	1.2316	1,173,8
92-025-330.11.02 92-025-331.00.01	WWTP Improvements 2001 WWTP Improvements 2001	2011	9,070 6,342	25 10	417,774 70,309	417,774 70,309	0	1.2316	<u>514,5</u> 123,8
92-025-331.73.01	Structures	1973	1,900	40	2,799,971	2,799,971	0	5.8791	16,461,2
92-025-331.74.01	Structures 1974	1974	2,020	40	10,000	10,000	Ō	5.5298	55,2
92-025-331.76.01	Structures 1976	1976	2,400	40	17,283	17,283	0	4.6544	80,4
92-025-331.77.01	Structures 1977	1977	2,577	40	13,326	13,326		4.3352	57,7
92-025-331.87.01	Structures 1987	1987	4,392	40	1,521	1,521	<u> </u>	2.5432	3,8
92-025-331.88.01	Structures 1988 Structures 1989	1988	4,519 4,606	40 40	11,700 3,671	11,700	. <u>0</u>	2.4716 2.4250	28,9
92-025-331.89.01 92-025-331.91.01	Structures 1991	1991	4,834	40	1,000	1,000	0	2.3106	2,3
92-025-331.92.01	New Roof	1992	4,985	40	22,460	22,460	0	2.2410	50,3
92-025-331.93.01	Structures 1993	1993	5,211	20	18,681	18,681	0	2.1437	40,0
92-025-331.95.01	Air Diffusers Engineering	1995	5,471	5	5,002	5,002	0	2.0417	10,2
92-025-331.95.02 92-025-331.95.03	Air Diffuser	1995 1995	5,471	5	82,417	82,417 6,500	0	2.0417	168,2 13,2
92-025-331.96.01	Circuit Breaker Heating Unit - Chlorine Room	1995	5,471 5,618	5 10	6,500 5,489		0	1.9883	10,9
92-025-331.96.02	Muffin Monster	1996	5,618	10	32,132	32,132	ō	1.9883	63,8
92-025-331.97.01	WWTP Addition	1997	5,823	30	92,286	92,288	0	1.9183	177,0
92-025-331.97.02	WWTP - Repair & Replace	1997	5,823	20	69,654	69,654	0	1.9183	133,6
92-025-331.98.01	WWTP - Addition	1998	5,920	20	96,476	96,476	0	1.8869	182,0
92-025-331.99.01	WWTP - Building Addition Treatment Equip Lab 76 thru 93	1999 1993	6,059	<u> </u>	46,514	46,514 26,279	0	1.8434	85,7 56,3
92-025-332.93.01 92-025-330.12.12	WWTP Headworks Recon	2012	5,211 9,308	25	26,279 1,335,995	1,335,995		1.2001	1,603,2
92-025-330.17.01	WWTP Improvements	2017	10,737	25	1,660,062		ō	1.0404	1,727,1
92-025-330.17.02	WWTP Improv pay#6 & retainage	2017	10,737	25	625398		0	1.0404	650,6
rans & Dist Mains									
92-025-343.03.01	Standish Avenue	2003	6,695	40	76,382	76,382	0	1.6685	127,4
92-025-343.03.02	Jackson Street	2003	6,695	40	81,036	81,036	0	1.6685	135,2
92-025-343.05.02	W. Lake Sanitary Sewer	2005	7,444	20	255,948	255,948 75,805	0.	1.5005	384,0
92-025-343.06.03 92-025-343.07.01	Sewermain Liberty/W. Jeff Sewermain - Riverbend	2006	7,751	20 20	75,805 29,447	29,447	0	1.4411	41,2
92-025-343.07.02	Sewer - Chx, Maple, Branch	2007	7,967	20	39,787	39,787	Ŭ Ū	1.4021	55,7
92-025-343.07.03	Sewer - Lib, Madison, Grace	2007	7,967	20	49,069	49,069	0	1.4021	68,7
92-025-343.07.04	Sewermain - East Mitchell	2007	7,967	20	39,331		0	1.4021	55,1
92-025-343.08.01	East Mitchell Sewer Main	2008	8,310	20	521,581		0	1.3442	701,1
92-025-343.08.08 92-025-343.09.01	E. Mitchell - Sewer Bay Harbor Village Lift Station	2008	8,310 8,570	20 20	28,109 620,945		0	1.3442	37,7 809,3
92-025-343.09.02	Intertown Weils - Meijer	2009	8,570	20	113,288		0	1.3034	147,6
92-025-343.10.09	Wachtel, Jackson, Ione Sewers	2010	8,799	20	85,806	85,806	Ŏ	1.2695	108,9
92-025-343.10.10	US 131 Sewer Lining	2010	8,799	20	128,738	128,738	0	1.2695	163,4
92-025-343.11.01	Atkins/Kalamazoo Sanitary	2011	9,070	25	119,724	119,724	0.	1.2318	147,4
92-025-343.56.01 92-025-343.56.02	Collection Mains - 1956 Collection Mains - 1956	1956 1956	692 692	100	25,284 10,959	25,284		16.1420	408,1
92-025-343.56.02 92-025-343.57.01	Collection Mains - 1956 Collection Mains - 1957	1956	724	100	3,636			15.4286	56,0
92-025-343.58.01	Collection Mains - 1958	1958	759	100	7,198			14.7171	105,9
92-025-343.60.01	Collection Mains - 1960	1960	824	100	6,264	6,264	0	13.5562	84,9
92-025-343.61.01	Collection Mains - 1961	1961	847	100	868			13.1881	11,4
92-025-343.62.01	Collection Mains - 1962	1962	872	100	24,208			12.8100	310,1
92-025-343.63.01 92-025-343.65.01	Collection Mains - 1963 Collection Mains - 1965	1963	901 971	100	7,312 25,810			12.3976 11.5039	90,6 296,9
92-025-343.66.01	Collection Mains - 1966	1966	1,019	100	637			10.9620	6,9
92-025-343.67.01	Collection Mains - 1967	1967	1,074	100	457	457		10.4006	4,7
92-025-343.68.01	Collection Mains - 1968	1968	1,155	100	5,445		0	9.6712	52,6
92-025-343.69.01	Collection Mains - 1969	1969	1,300	100	4,545		0	8.5925	39,0
92-025-343.70.01 92-025-343.71.01	Collection Mains - 1970 Collection Mains - 1971	1970	1,450	100	1,572		0	7.7036	12,1 384,7
92-025-343.71.01 92-025-343.72.01	Collection Mains - 1971 Collection Mains - 1972	1971	1,581 1,753	100	54,453 335		0	6.3721	384,7 2,1
92-025-343.73.01	Collection Mains - 1972	1973	1,900	100	296,765			5.8791	1,744,7
92-025-343.74.01	Collection Mains - 1974	1974	2,020	100	7,640	7,640	0	5.5298	42,2
92-025-343.75.01	Collection Mains - 1975	1975	2,212	100	293,518	293,518	0	5.0499	1,482,2
92-025-343.76.01	Collection Mains - 1976	1976 Petroskov	2,400 Segrer Ru	100 the Structure	1,805		0	4.6544	8,4
92-025-343.77.01	Collection Mains - 1977		Tech Siga				0	4.3352	33,2 87,1
92-025-343.78.01	Collection Mains - 1978	10110		True and the second	21,668	21,668		4.0239	

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Table S8 Local Replacement Value of Wastewater Facilities

Asset No.	Facility Name/Location	Year	ENR Factor in Year Acquired	Usafui Life (Yrs)	Total Amount Paid (\$)	Amount Locally Paid (\$)	Others Paid	ENR Factor to Septembe r, 2018	Local Replacement Value September, 2018 (\$)
592-025-343.80.01	Collection Mains - 1980	1980	3,237	100	1,150	1,150	C		3,968
592-025-343.81.01	Collection Mains - 1981	1981	3,533	100	45,864	45,864	C		144,997
592-025-343.82.01	Job 381 Collection Mains	1982	3,816	100	3,975	3,975	C		11,636
592-025-343.84.01	Job 469 Collection Mains	1984	4,148	100	104,047	104,047	C		280,194
592-025-343.86.01	Sewer Line/Midtown Assoc	1986	4,287	100	47,029	47,029	C	2.6055	122,532
592-025-343.87.01	Job 661 Emmet St	1987	4,392	100	131,208	131,208	C	2.5432	333,689
592-025-343.88.01	Job 662 Mains	1988	4,519	100	11,753	11,753	C	2.4716	29,049
592-025-343.89.01	Job 911 SS Lake/Job 910 Jen	1989	4,606	100	27,633	27,633	C	2.4250	67,011
592-025-343.90.01	Jobs 159-1774.37/Job 163-3506.17	1990	4,728	100	5,280	5,280	C	2.3628	12,475
592-025-343.91.01	Jobs 257, 268 & 253	1991	4,834	100	291,656	291,656	C	2.3106	673,894
592-025-343.92.01	Collection Mains 1992	1992	4,985	100	12,307	12,307	0	2.2410	27,580
592-025-343.94.01	Job 565	1994	5,410	25	5,042	5,042	Ċ	2.0648	10,411
592-025-343.96.01	Bay Harbor Mains	1996	5,618	30	1,330,491	1,330,491	C	1.9883	2,645,386
592-025-343.97.01	CBD Sanitary Sewer	1997	5,823	30	15,745	15,745	C	1.9183	30,204
592-025-343.12.14	System Wide Sanitary Upgrade	2012	9,308	25	42,196	42,196	c	1.2001	50,638
592-025-343.12.15	Howard Street Sanitary	2012	9,308	25	35,318	35,318	C	1.2001	42,384
592-025-343.12.13	Atkins/Kalamazoo Sanitary	2012	9,308	25	59,691	59,691	C	1.2001	71,632
592-025-343.13.01	Ingalls/Madison Sewermain	2013	9.547	25	136,517	136,517	C	1.1701	159,735
592-025-343.13.02	Connable/Monroe Sewermain	2013	9.547	25	43,014	43,014	C	1.1701	50,330
592-025-343.14.01	Connable Reconfiguration	2014	9.807	25	24.678	24.678	C	1.1391	28,110
592-025-343,14.02	Arlington Ave	2014	9.807	25	188,964	188,964	(1.1391	215,243
592-025-343.15.01	CHX Ave MDOT Project	2015	10.031	25	313,150	313,150		1.1136	348,732
592-025-343.15.02	Pinebluff Station Sewermain	2015	10.031	25	116,589	116,589	· c	1.1136	129,836
592-025-343.17.01	Emmett St - sewer upgrade	2017	10,737	25	187,684	187,684		1.0404	195,265
592-025-343.17.02	Bear River East Lift Station	2017	10,737	25	31,790	31,790		1.0404	33,074
Furniture & Equipment					••••••	•	• • • • • • •	•	
592-025-382.86.01	Utilicorders, Mapping Sys.	1986	4.287	5	23,757	23,757		2.6055	61,898
592-025-391.90.01	Equipment 1972 thru 1990	1990	4,728	10	11,495			2.3628	27,160
592-025-391.96.01	Weight Scale	1996	5,618	5	2.835	2,835	(1.9883	5,637
592-025-391.96.02	Software System	1996	5,618	5	1.671	1,671		1.9883	3,322
592-025-391.96.03	Computer system	1996	5.618	5	2,796	2.796	6	1.9883	5,559
592-025-391.98.01	WWTP Addition - Office Furniture	1998	5.920	5	7,890		C	1.8889	14,888
592-025-391.99.01	Gateway Computer	1999	6.059	· 5	2.888	2,888	(•	5,324
592-025-391.93.01	Garage Equipment 63 Thru	1993	5.211	. 3	10,286	10,286			22,050
	Total			······································	25.214.778				57.947.596

Table S9 Wastewater System Dovelopment Chargo Calculations

		с		E	F	G	н		
_	В	L L	D		,				J
1				FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
	CURRENT LOCAL REPLACEMENT VALUE			57,947,596	57,947,596	57,947,596	57,947,596	57,947,596	57,947,596
3	PROPOSED CAPITAL IMPROVEMENTS	Year to be Built	Cost						
	US-31 - Lewis Street to Boulder Lane. Utility upgrades								
	include sanitary main highway crossings and sanitary main								
4	between McDonald Drive and Boulder Lane. Paid from operating revenue. Potential \$173,000 MDOT grant).	2019	350.000		350,000				
4	Greenwood Road - Sheridan to Charlevoix Avenue. Replace	2019	350,000		350,000				
	water main along Greenwood Road. Paid from operating								
6	revenue.	2020	75.000			75,000			
~	Sanitary - Jackson Street -West Mitchell Street to Hospital		75,000						
	Ring Road. This project would include replacement of								
6	sanitary sewers and components	2020	215,000			215,000			
-	Upgrades - Sanitary sewer work will take place in conjunction				-				
	with street resurfacing program. Paid from operating								
7	revenue.	2021	150,000				150,000		
	Greenwood Road - Sheridan to Charlevoix Avenue. Utility								
	upgrade to include sanitary sewer rehabilitation along								
8	Greenwood Road. Paid from operating revenue.	2021	125,000				125,000		
	East Lake - Kalamazoo to Division. Replace sanitary sewers								
	in conjunction with street reconstruction. Paid from operating								
9	revenue.	2022	231,000					231,000	
	Howard Street and miscellaneous sewer main spot repairs								
10	and upgrades. Paid from operating revenue.	2023	250,000						250,000
	Miscellaneous wastewater system capital improvements.								
	Paid from operating revenue. To bring total annual								
11	wastewater CIP cost to \$500,000 beginning FY 2019.	2019	150,000		150,000				
	Miscellaneous wastewater system capital improvements.								
	Paid from operating revenue. To bring total annual					040.000			
12	wastewater CiP cost to \$500,000 beginning FY 2019.	2020	210,000			210,000			
	Miscellaneous wastewater system capital improvements.								
	Paid from operating revenue. To bring total annual	2024	225,000				225,000		
13	wastewater CIP cost to \$500,000 beginning FY 2019. Miscellaneous wastewater system capital improvements.	2021	225,000				225,000		
	Paid from operating revenue. To bring total annual								
14	wastewater CIP cost to \$500,000 beginning FY 2019.	2022	269.000					269,000	
14	Miscellaneous wastewater system capital improvements.	<u> </u>	203,000					100,000	
	Paid from operating revenue. To bring total annual								
15	wastewater CIP cost to \$500,000 beginning FY 2019.	2023	250,000				1		250,000
	Total Cost (\$), 5 Year CIP (FY 2019 to FY 2013)		2,500,000		500.000	500.000	500,000	500,000	500,000
	TOTAL PROJECTED LOCAL REPLACEMENT VALUE				58,447,596				
18									
	OUTSTANDING PRINCIPAL 2017 \$5,000,000 BOND			-	5.000.000	4.820,000	4,630,000	4,435,000	4,230,000
<u> </u>	OUTSTANDING PRINCIPAL 2011 \$6,330,000 REFUNDING	1							
20	BOND			4,410,000	4,025,000	3,645,000	3,265,000	2,785,000	2,305,000
	OUTSTANDING PRINCIPAL 2011 \$2,755,000 BOND			2,115,000		1,890,000	1,770,000	1,645,000	1,510,000
	TOTAL OUTSTANDING PRINCIPAL			6,525,000		10,355,000	9,665,000	8,865,000	8,045,000
23									
	TOTAL LOCAL REPLACEMENT VALUE LESS TOTAL								
	OUTSTANDING PRINCIPAL				47,417,596	48,592,596	49,782,596	51,082,596	52,402,596
25									
	Wastewater System Design Capacity, Gallons Per Day						1	[_]	
26	(GPD)				2,500,000	2,500,000			2,500,000
	System Development Charge (SDC) per GPD (Maximum)			<u> </u>	\$ 18.97	\$ 19.44		\$ 20.43	
28	GPD per Residential Equivalent Unit (REU)				240	240	240	240	240
	Wastewater SDC per REU = Inside City and Outside City			1					
29	Wastewater SDC (Maximum, Rounded)				\$ 4,600	\$ 4,700	\$ 4,800	\$ 5,000	\$ 5,100
	Inside-City and Outside- City SDC Per Meter Size						1	1	
30	(Maximum, Rounded)								
31	5/8"				\$ 4,600		\$ 4,800	\$ 5,000	
32					\$ 6,900	\$ 7,050	\$ 7,200	\$ 7,500	
33	1"				\$ 11,500		\$ 12,000		
34					\$ 23,000		\$ 24,000	\$ 25,000 \$ 40,000	
35	2**				\$ 36,800		\$ 38,400 \$ 84,000		
36 37	3"				\$ 80,500 \$ 138,000				
37	4°`4°`				\$ 287,500				
_ 38	L6"			L	UV6,10A 9	· · · · · · · · · · · · · · · · · · ·	1 # 000,000	- 01X,000	4 410,100

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Table S10Extra Strength Surcharge Calculations

4	A	В	С		D	E
1		FY 2019				
	Expenses Allocated to Treatment Plant					
	Operation, Maintenance and Equipment					
2	Replacement	\$ 724,390				
		Treatment Cost			Influent	Proposed
		Allocation			Pounds Per	Surcharge Rate
3		Percentage	Expense	es.	Year	(\$ per pound)
	Biochemical Oxygen Demand	30%		17,317	939,851	
	Suspended Solids	35%		53,537	1,158,721	
		5%			16,717	
	Phosphorus			36,220		
	Total Kjeldahl Nitrogen	5%	\$ 3	36,220	65,7 <u>13</u>	\$0.55
8						:
9		FY 2020				
	Expenses Allocated to Treatment Plant			1		
	Operation, Maintenance and Equipment					
10	Replacement	\$ 752,348				
		Treatment Cost			Influent	Proposed
		Allocation			Pounds Per	Surcharge Rate
11		Percentage	Expense	es	Year	(\$ per pound)
	Biochemical Oxygen Demand	30%		25,704	939,851	
	Suspended Solids	35%		53,322		
	Phosphorus	5%		37,617	16,717	
	Total Kjeldahl Nitrogen	5%	\$:	37,617	65,713	\$0.57
16						
17		FY 2021				
	Expenses Allocated to Treatment Plant					
	Operation, Maintenance and Equipment					
18	Replacement	\$ 784,187		1		
		Treatment Cost			Influent	Proposed
		Allocation			Pounds Per	Surcharge Rate
19		Percentage	Expense	20	Year	(\$ per pound)
	Biochemical Oxygen Demand	30%		35,256	939,851	
	Suspended Solids	35%		74,466		
	Phosphorus	5%				
22	IFNOSONOTUS	5%		39,209	16,717	₩ ₹.34
		E0/		39,209		
23	Total Kjeldahl Nitrogen	5%	\$		65,713	\$0.59
23 24			\$		00,713	\$0.59
23 24	Total Kjeldahl Nitrogen	5% FY 2022	\$		00,713	\$0.59
23 24	Total Kjeldahl Nitrogen Expenses Allocated to Treatment Plant		\$;		05,713	\$0.59
23 24 32	Total Kjeldahl Nitrogen Expenses Allocated to Treatment Plant Operation, Maintenance and Equipment	FY 2022	\$		03,713	\$0.59
23 24 32	Total Kjeldahl Nitrogen Expenses Allocated to Treatment Plant		\$		00,713	\$0.59
23 24 32	Total Kjeldahl Nitrogen Expenses Allocated to Treatment Plant Operation, Maintenance and Equipment	FY 2022	\$;;		00,713	\$0.59
23 24 32	Total Kjeldahl Nitrogen Expenses Allocated to Treatment Plant Operation, Maintenance and Equipment	FY 2022	\$ 		Influent	\$0.59
23 24 32	Total Kjeldahl Nitrogen Expenses Allocated to Treatment Plant Operation, Maintenance and Equipment	FY 2022 \$ 820,645				Proposed
23 24 32 33	Total Kjeldahl Nitrogen Expenses Allocated to Treatment Plant Operation, Maintenance and Equipment	FY 2022 \$ 820,645 Treatment Cost Allocation			Influent Pounds Per	Proposed Surcharge Rate
23 24 32 33 33	Total Kjeldahl Nitrogen Expenses Allocated to Treatment Plant Operation, Maintenance and Equipment Replacement	FY 2022 \$ 820,645 Treatment Cost Allocation Percentage	Expense	es	Influent Pounds Per Year	Proposed Surcharge Rate (\$ per pound)
23 24 32 33 33 34 35	Total Kjeldahl Nitrogen Expenses Allocated to Treatment Plant Operation, Maintenance and Equipment Replacement Biochemical Oxygen Demand	FY 2022 \$ 820,645 Treatment Cost Allocation Percentage 30%	Expense \$ 24	es 46,193	Influent Pounds Per Year 939,851	Proposed Surcharge Rate (\$ per pound) \$0.26
23 24 32 33 34 35 36	Total Kjeldahl Nitrogen Expenses Allocated to Treatment Plant Operation, Maintenance and Equipment Replacement Biochemical Oxygen Demand Suspended Solids	FY 2022 \$ 820,645 Treatment Cost Allocation Percentage 30% 35%	Expense \$ 24 \$ 21	es 46,193 87,226	Influent Pounds Per Year 939,851 1,158,721	Proposed Surcharge Rate (\$ per pound) \$0.26 \$0.24
23 24 32 33 33 34 35 36 37	Total Kjeldahl Nitrogen Expenses Allocated to Treatment Plant Operation, Maintenance and Equipment Replacement Biochemical Oxygen Demand Suspended Solids Phosphorus	FY 2022 \$ 820,645 Treatment Cost Allocation Percentage 30% 35% 5%	Expense \$ 24 \$ 21 \$ 21	es 46,193 87,226 41,032	Influent Pounds Per Year 939,851 1,158,721 16,717	Proposed Surcharge Rate (\$ per pound) \$0.26 \$0.24 \$2.45
23 24 32 33 33 34 35 36 37 38	Total Kjeldahl Nitrogen Expenses Allocated to Treatment Plant Operation, Maintenance and Equipment Replacement Biochemical Oxygen Demand Suspended Solids	FY 2022 \$ 820,645 Treatment Cost Allocation Percentage 30% 35%	Expense \$ 24 \$ 21 \$ 21	es 46,193 87,226	Influent Pounds Per Year 939,851 1,158,721	Proposed Surcharge Rate (\$ per pound) \$0.26 \$0.24 \$2.45
23 24 32 33 34 35 36 37 38 39	Total Kjeldahl Nitrogen Expenses Allocated to Treatment Plant Operation, Maintenance and Equipment Replacement Biochemical Oxygen Demand Suspended Solids Phosphorus	FY 2022 \$ 820,645 Treatment Cost Allocation Percentage 30% 35% 5%	Expense \$ 24 \$ 21 \$ 21	es 46,193 87,226 41,032	Influent Pounds Per Year 939,851 1,158,721 16,717	Proposed Surcharge Rate (\$ per pound) \$0.26 \$0.24 \$2.45
23 24 32 33 34 35 36 37 38 39	Total Kjeldahl Nitrogen Expenses Allocated to Treatment Plant Operation, Maintenance and Equipment Replacement Biochemical Oxygen Demand Suspended Solids Phosphorus Total Kjeldahl Nitrogen	FY 2022 \$ 820,645 Treatment Cost Allocation Percentage 30% 35% 5%	Expense \$ 24 \$ 21 \$ 21	es 46,193 87,226 41,032	Influent Pounds Per Year 939,851 1,158,721 16,717	Proposed Surcharge Rate (\$ per pound) \$0.26 \$0.24 \$2.45
23 24 32 33 34 35 36 37 38 39	Total Kjeldahl Nitrogen Expenses Allocated to Treatment Plant Operation, Maintenance and Equipment Replacement Biochemical Oxygen Demand Suspended Solids Phosphorus Total Kjeldahl Nitrogen Expenses Allocated to Treatment Plant	FY 2022 \$ 820,645 Treatment Cost Allocation Percentage 30% 35% 5%	Expense \$ 24 \$ 21 \$ 21	es 46,193 87,226 41,032	Influent Pounds Per Year 939,851 1,158,721 16,717	Proposed Surcharge Rate (\$ per pound) \$0.26 \$0.24 \$2.45
23 24 32 33 34 35 35 36 36 37 38 39 40 40	Total Kjeldahl Nitrogen Expenses Allocated to Treatment Plant Operation, Maintenance and Equipment Replacement Biochemical Oxygen Demand Suspended Solids Phosphorus Total Kjeldahl Nitrogen Expenses Allocated to Treatment Plant Operation, Maintenance and Equipment	FY 2022 \$ 820,645 Treatment Cost Allocation Percentage 30% 35% 5% 5% FY 2023	Expense \$ 24 \$ 21 \$ 21	es 46,193 87,226 41,032	Influent Pounds Per Year 939,851 1,158,721 16,717	Proposed Surcharge Rate (\$ per pound) \$0.26 \$0.24 \$2.45
23 24 32 33 34 35 35 36 36 37 38 39 40	Total Kjeldahl Nitrogen Expenses Allocated to Treatment Plant Operation, Maintenance and Equipment Replacement Biochemical Oxygen Demand Suspended Solids Phosphorus Total Kjeldahl Nitrogen Expenses Allocated to Treatment Plant	FY 2022 \$ 820,645 Treatment Cost Allocation Percentage 30% 35% 5%	Expense \$ 24 \$ 21 \$ 21	es 46,193 87,226 41,032	Influent Pounds Per Year 939,851 1,158,721 16,717	Proposed Surcharge Rate (\$ per pound) \$0.26 \$0.24 \$2.45
23 24 32 33 34 35 36 37 38 39 40	Total Kjeldahl Nitrogen Expenses Allocated to Treatment Plant Operation, Maintenance and Equipment Replacement Biochemical Oxygen Demand Suspended Solids Phosphorus Total Kjeldahl Nitrogen Expenses Allocated to Treatment Plant Operation, Maintenance and Equipment	FY 2022 \$ 820,645 Treatment Cost Allocation Percentage 30% 35% 5% 5% FY 2023	Expense \$ 24 \$ 21 \$ 21	es 46,193 87,226 41,032	Influent Pounds Per Year 939,851 1,158,721 16,717	Proposed Surcharge Rate (\$ per pound) \$0.26 \$0.24 \$2.45
23 24 32 33 33 34 35 36 37 38 39 40	Total Kjeldahl Nitrogen Expenses Allocated to Treatment Plant Operation, Maintenance and Equipment Replacement Biochemical Oxygen Demand Suspended Solids Phosphorus Total Kjeldahl Nitrogen Expenses Allocated to Treatment Plant Operation, Maintenance and Equipment	FY 2022 \$ 820,645 Treatment Cost Allocation Percentage 30% 35% 5% 5% FY 2023	Expense \$ 24 \$ 21 \$ 21	es 46,193 87,226 41,032	Influent Pounds Per Year 939,851 1,158,721 16,717	Proposed Surcharge Rate (\$ per pound) \$0.26 \$0.24 \$2.45
23 24 32 33 33 34 35 36 37 38 39 40	Total Kjeldahl Nitrogen Expenses Allocated to Treatment Plant Operation, Maintenance and Equipment Replacement Biochemical Oxygen Demand Suspended Solids Phosphorus Total Kjeldahl Nitrogen Expenses Allocated to Treatment Plant Operation, Maintenance and Equipment	FY 2022 \$ 820,645 Treatment Cost Allocation Percentage 30% 35% 5% 5% FY 2023 \$ 862,601	Expense \$ 24 \$ 21 \$ 21	es 46,193 87,226 41,032	Influent Pounds Per Year 939,851 1,158,721 16,717 65,713	Proposed Surcharge Rata (\$ per pound) \$0.26 \$0.24 \$2.45 \$0.62
23 32 33 34 35 36 37 38 39 40 41	Total Kjeldahl Nitrogen Expenses Allocated to Treatment Plant Operation, Maintenance and Equipment Replacement Biochemical Oxygen Demand Suspended Solids Phosphorus Total Kjeldahl Nitrogen Expenses Allocated to Treatment Plant Operation, Maintenance and Equipment	FY 2022 \$ 820,645 Treatment Cost Allocation Percentage 30% 35% 5% 5% FY 2023 \$ 862,601 Treatment Cost Allocation	Expense \$ 24 \$ 21 \$ 4 \$ 4	es 46,193 87,226 41,032 41,032	Influent Pounds Per Year 939,851 1,158,721 16,717 65,713 Influent Pounds Per	Proposed Surcharge Rate (\$ per pound) \$0.26 \$0.24 \$2.45 \$0.62 Proposed Surcharge Rate
23 33 34 35 35 36 37 38 38 39 40 41 42	Total Kjeldahl Nitrogen Expenses Allocated to Treatment Plant Operation, Maintenance and Equipment Replacement Biochemical Oxygen Demand Suspended Solids Phosphorus Total Kjeldahl Nitrogen Expenses Allocated to Treatment Plant Operation, Maintenance and Equipment Replacement	FY 2022 \$ 820,645 Treatment Cost Allocation Percentage 30% 35% 5% FY 2023 \$ 862,601 Treatment Cost Allocation Percentage	Expense \$ 24 \$ 28 \$ 4 \$ 4 \$ 4 \$ 4 \$ 4 \$ 4 \$ 4 \$ 4 \$ 4 \$ 4	es 46,193 87,226 41,032 41,032	Influent Pounds Per Year 939,851 1,158,721 16,717 65,713 Influent Pounds Per Year	Proposed Surcharge Rate (\$ per pound) \$0.26 \$0.24 \$2.45 \$0.62 Proposed Surcharge Rate (\$ per pound)
23 33 34 35 36 37 38 39 4 41 42 43	Total Kjeldahl Nitrogen Expenses Allocated to Treatment Plant Operation, Maintenance and Equipment Replacement Biochemical Oxygen Demand Suspended Solids Phosphorus Total Kjeldahl Nitrogen Expenses Allocated to Treatment Plant Operation, Maintenance and Equipment Replacement	FY 2022 \$ 820,645 Treatment Cost Allocation Percentage 30% 35% 5% FY 2023 \$ 862,601 Treatment Cost Allocation Percentage 30%	Expense \$ 24 \$ 25 \$ 4 \$ 4 \$ 4 \$ 4 \$ 4 \$ 4 \$ 4 \$ 4 \$ 4 \$ 4	es 46,193 87,226 41,032 41,032 41,032	Influent Pounds Per Year 939,851 1,158,721 16,717 65,713 Influent Pounds Per Year 939,851	Proposed Surcharge Rate (\$ per pound) \$0.26 \$0.24 \$2.45 \$0.62 \$0.62 Proposed Surcharge Rate (\$ per pound) \$0.27
23 33 34 35 36 37 38 39 4 42 43 4 43 35 36 37 38 39 40 41 42 43	Total Kjeldahl Nitrogen Expenses Allocated to Treatment Plant Operation, Maintenance and Equipment Replacement Biochemical Oxygen Demand Suspended Solids Phosphorus Total Kjeldahl Nitrogen Expenses Allocated to Treatment Plant Operation, Maintenance and Equipment Replacement Biochemical Oxygen Demand Suspended Solids Phosphorus Total Kjeldahl Nitrogen Biochemical Oxygen Demand Suspended Solids Phosphorus Phosphorus Total Kjeldahl Nitrogen	FY 2022 \$ 820,645 Treatment Cost Allocation Percentage 30% 35% 5% FY 2023 \$ 862,601 Treatment Cost Allocation Percentage	Expense \$ 24 \$ 21 \$ 4 \$ 4 \$ 4 \$ 4 \$ 4 \$ 4 \$ 4 \$ 30	es 46,193 87,226 41,032 41,032	Influent Pounds Per Year 939,851 1,158,721 16,717 65,713 Influent Pounds Per Year 939,851 1,158,721	Proposed Surcharge Rate (\$ per pound) \$0.24 \$2.45 \$0.62 \$0.62 Proposed Surcharge Rate (\$ per pound) \$0.27

		Table T	1		w	&S rate study 2	2018 - final
Current FY 2018 and Proposed FY 2019) to FY 2023 To	tal Inside Cit	v Water and Se	wer Rates an	<u>d System Dev</u>	elopment Ch	arges

			В						E I		F		G
1	Α		urrent		С		D	Pr	oposed		·		
	INSIDE-CITY				V 0040						V 2000	-	V 2000
2	INSIDE-CITT	F	Y 2018	F	Y 2019	-	FY 2020	F	Y 2021		Y 2022	-	Y 2023
		E	ffective										
			nuary 1,	E	ffective	E	ffective	E	fective	Ε	ffective	E	ffective
			4 (Water	Ja	nuary 1,	Ja	anuary 1,	Ja	nuary 1,	Ja	nuary 1,	Ja	nuary 1,
3			d Sewer)		2019		2020		2021		2022		2023
-	Billing Charge, per												
4	Month	\$	4.64	\$	5.19	\$	5.29	\$	5.40	\$	5.51	\$	5.61
	Readiness to Serve												
	Charge, per Meter Size,												
5	per Month												
6	5/8"	\$	46.21	\$	49.22	\$	49.45	\$	51.13	\$	51.41	\$	53.09
7	3/4"	\$	69.32	\$	73.83	\$	74.18	\$	76.70	\$	77.12	\$	79.64
8	1"	\$	115.53	\$	123.05	\$	123.63	\$	127.83	\$	128.53	\$	132.73
9	1 1/2"	\$	231.05	\$	246.10	\$	247.25	\$	255.65	\$	257.05	\$	265.45
10	2"	\$	369.68	\$	393.76	\$	395.60	\$	409.04	\$	411.28	\$	424.72
11	3"	\$	808.68	\$	861.35	\$	865.38	\$	894.78	\$	899.68	\$	929.08
12	4"		1,386.30		1,476.60	\$	1,483.50		1,533.90	\$	1,542.30		1,592.70
13	6" Commodity Charge,	\$	2,888.13	\$	3,076.25	\$	3,090.63	\$	3,195.63	\$	3,213.13	\$	3,318.13
	per 100 Cubic Feet	•	4.00	•	E 00	\$	E 47	\$	5.37	•	5.59	\$	5.82
14	per 100 Cubic Feet	\$	4.30	\$	5.00	₽	5.17	\$	5.37	\$	5.59	Ð	J.02
15	Water System		·										
	Development Charge												
16	("Capital" Charge)	c	urrent				Maxi	imu	m Calcula	tod			
10	(ouplial onligo,		octive	Effe	ective	Effe			ctive		ective	Effe	ective
	Water Service Meter		uary 1,		uary 1,		uary 1,		uary 1,	Jar	uary 1,		uary 1,
17	Size:	201		201		202	• •	202	• •	202	• •	202	•
18	5/8"	\$	900	\$	1,400	\$	1,400	\$	1,400	\$	1,400	\$	1,400
19	3/4"	\$	1,350	\$	2,100	\$	2,100	\$	2,100	\$	2,100	\$	2,100
20	1"	\$	2,250	\$	3,500	\$	3,500	\$	3,500	\$	3,500	\$	3,500
21	1 1/2"		1 800		7 000	÷					7 000	6	
		\$	4,500	\$	7,000	\$	7,000	\$	7,000	\$	7,000	\$	7,000
	2"	\$	7,200	A 44	11,200	\$	11,200	\$	7,000	\$ \$	11,200	} }\$	11,200
22	2" 3"		7,200 15,750			\$ \$		· ·			11,200 24,500	\$ \$	11,200 24,500
22 23 24	2" 3" 4"	\$	7,200 15,750 27,000	\$	11,200 24,500 42,000	\$	11,200 24,500 42,000	\$	11,200 24,500 42,000	\$ \$	11,200 24,500 42,000	\$	11,200 24,500 42,000
22 23 24	2" 3"	\$ \$	7,200 15,750	\$	11,200 24,500	\$ \$	11,200 24,500	\$ \$	11,200 24,500	\$	11,200 24,500	\$ \$	11,200 24,500
22 23 24	2" 3" 4"	9 9 9	7,200 15,750 27,000	\$9 \$9 \$9	11,200 24,500 42,000	\$	11,200 24,500 42,000	\$	11,200 24,500 42,000	\$ \$	11,200 24,500 42,000	\$	11,200 24,500 42,000
22 23 24 25	2" 3" 4"	9 9 9	7,200 15,750 27,000	\$9 \$9 \$9	11,200 24,500 42,000	\$	11,200 24,500 42,000	\$	11,200 24,500 42,000	\$ \$	11,200 24,500 42,000	\$	11,200 24,500 42,000
22 23 24 25	2" 3" 4"	9 9 9	7,200 15,750 27,000	\$9 \$9 \$9	11,200 24,500 42,000	\$	11,200 24,500 42,000	\$	11,200 24,500 42,000	\$ \$	11,200 24,500 42,000	\$	11,200 24,500 42,000
22 23 24 25	2" 3" 4" 6" Sewer System Development Charge	9 9 9	7,200 15,750 27,000	\$9 \$9 \$9	11,200 24,500 42,000	\$	11,200 24,500 42,000	\$	11,200 24,500 42,000	\$ \$	11,200 24,500 42,000	\$	11,200 24,500 42,000
22 23 24 25 26	2" 3" 4" 6" Sewer System	\$ \$ \$ \$ \$ \$ \$	7,200 15,750 27,000 56,250	\$\$ \$\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	11,200 24,500 42,000 87,500	\$	11,200 24,500 42,000 87,500	s s s	11,200 24,500 42,000 87,500	\$ \$ \$	11,200 24,500 42,000 87,500	\$\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	11,200 24,500 42,000 87,500
22 23 24 25 26	2" 3" 4" 6" Sewer System Development Charge ("Capital" Charge)	\$ \$ \$ \$	7,200 15,750 27,000 56,250	\$ \$ \$ E	11,200 24,500 42,000 87,500	\$ \$ \$ \$	11,200 24,500 42,000 87,500 Max	S S S S I M	11,200 24,500 42,000 87,500 m Calcula ffective	s s s	11,200 24,500 42,000 87,500	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	11,200 24,500 42,000 87,500
22 23 24 25 26 27	2" 3" 4" 6" Development Charge ("Capital" Charge) Water Service Meter	\$ \$ \$ \$	7,200 15,750 27,000 56,250 Current ffective nuary 1,	\$ \$ \$ E	11,200 24,500 42,000 87,500 ffective	\$ \$ \$ \$	11,200 24,500 42,000 87,500 Max Effective anuary 1,	S S S S I M	11,200 24,500 42,000 87,500 m Calcula ffective nuary 1,	s s s	11,200 24,500 42,000 87,500	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	11,200 24,500 42,000 87,500
22 23 24 25 26 27 28	2" 3" 4" 6" Development Charge ("Capital" Charge) Water Service Meter Size:	\$ \$ \$ Ja	7,200 15,750 27,000 56,250 Current ffective nuary 1, 2011	\$ \$ Ja	11,200 24,500 42,000 87,500 ffective inuary 1, 2019	\$ \$ \$ Ja	11,200 24,500 42,000 87,500 Max Effective anuary 1, 2020	\$ \$ \$ Ja	11,200 24,500 42,000 87,500 m Calcula ffective nuary 1, 2021	s s s Ja	11,200 24,500 42,000 87,500 ffective muary 1, 2022	S S S S S S S S S S S S S S S S S S S	11,200 24,500 42,000 87,500 ffective nuary 1, 2023
22 23 24 25 26 27 28 29	2" 3" 4" 6" Development Charge ("Capital" Charge) Water Service Meter Size: 5/8"	\$ \$ \$ U E Ja	7,200 15,750 27,000 56,250 Current ffective nuary 1, 2011 3,200	\$ \$ Ja	11,200 24,500 42,000 87,500 ffective inuary 1, 2019 4,600	\$ \$ 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	11,200 24,500 42,000 87,500 Max ffective anuary 1, 2020 4,600	\$ \$ \$ Ja	11,200 24,500 42,000 87,500 m Calcula ffective nuary 1, 2021 4,600	\$ \$ \$ \$ Ja	11,200 24,500 42,000 87,500 ffective muary 1, 2022 4,600	S S S J a S	11,200 24,500 42,000 87,500 ffective nuary 1, 2023 4,600
22 23 24 25 26 27 28 29 30	2" 3" 4" 6" Development Charge ("Capital" Charge) Water Service Meter Size: 5/8" 3/4"	\$ \$ \$ U E Ja \$	7,200 15,750 27,000 56,250 Current ffective nuary 1, 2011 3,200 4,800	\$ \$ Ja \$	11,200 24,500 42,000 87,500 ffective inuary 1, 2019 4,600 6,900	\$ \$ \$ } }	11,200 24,500 42,000 87,500 Max Effective anuary 1, 2020 4,600 6,900	\$ \$ \$ Ja \$	11,200 24,500 42,000 87,500 m Calcula ffective nuary 1, 2021 4,600 6,900	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	11,200 24,500 42,000 87,500 ffective nuary 1, 2022 4,600 6,900	\$ \$ 5 Ja \$	11,200 24,500 42,000 87,500 ffective nuary 1, 2023 4,600 6,900
22 23 24 25 26 27 28 29 30 31	2" 3" 4" 6" Development Charge ("Capital" Charge) Water Service Meter Size: 5/8" 3/4"	S S S S Ja S S S S	7,200 15,750 27,000 56,250 Current ffective nuary 1, 2011 3,200 4,800 8,000	\$ \$ Ja \$ \$ \$	11,200 24,500 42,000 87,500 87,500 (ffective nuary 1, 2019 4,600 6,900 11,500	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	11,200 24,500 42,000 87,500 Max ffective anuary 1, 2020 4,600 6,900 11,500	\$ \$ 5 Ja \$ \$ \$	11,200 24,500 42,000 87,500 m Calcula ffective nuary 1, 2021 4,600 6,900 11,500	s s s te ^E Ja s s	11,200 24,500 42,000 87,500 ffective nuary 1, 2022 4,600 6,900 11,500	୬ ୬ ୬ ୨ ୦	11,200 24,500 42,000 87,500 ffective nuary 1, 2023 4,600 6,900 11,500
22 23 24 25 26 27 28 29 30 31 32	2" 3" 4" 6" Development Charge ("Capital" Charge) Water Service Meter Size: 5/8" 3/4" 1 1/2"	\$ \$ \$ Ja \$ \$ \$	7,200 15,750 27,000 56,250 Current ffective nuary 1, 2011 3,200 4,800 8,000 16,000	\$ \$ \$ \$ \$ U U U U U U U U U U	11,200 24,500 42,000 87,500 87,500 (1,500 11,500 23,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	11,200 24,500 42,000 87,500 87,500 Max ffective anuary 1, 2020 4,600 6,900 11,500 23,000	s s s s s s s s s s s s s s s s s s s	11,200 24,500 42,000 87,500 m Calcula ffective nuary 1, 2021 4,600 6,900 11,500 23,000	sss ss te ^{LL} J Ssss	11,200 24,500 42,000 87,500 87,500 ffective nuary 1, 2022 4,600 6,900 11,500 23,000	୬ ୬ ୬ ୬ ୨	11,200 24,500 42,000 87,500 ffective nuary 1, 2023 4,600 6,900 11,500 23,000
22 23 24 25 26 27 28 29 30 31 32 33	2" 3" 4" 6" Development Charge ("Capital" Charge) Water Service Meter Size: 5/8" 3/4" 1" 1 1/2" 2"	\$ \$ 5 Ja 5 Ja 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5	7,200 15,750 27,000 56,250 Current ffective nuary 1, 2011 3,200 4,800 8,000 16,000 25,600	\$ \$ \$ \$ \$ \$ \$ E Ja \$ \$ \$ \$ \$ \$ \$	11,200 24,500 42,000 87,500 87,500 (1,500 11,500 23,000 36,800	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	11,200 24,500 42,000 87,500 87,500 Max ffective anuary 1, 2020 4,600 6,900 11,500 23,000 36,800	s s s s s s s s s s s s s s s s s s s	11,200 24,500 42,000 87,500 m Calcula ffective nuary 1, 2021 4,600 6,900 11,500 23,000 36,800	sss sted Ja Ssss	11,200 24,500 42,000 87,500 ffective nuary 1, 2022 4,600 6,900 11,500 23,000 36,800	\$\$\$\$ \$ J a \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	11,200 24,500 42,000 87,500 ffective nuary 1, 2023 4,600 6,900 11,500 23,000 36,800
22 23 24 25 26 27 28 29 30 31 32 33 34	2" 3" 4" 6" Development Charge ("Capital" Charge) Water Service Meter Size: 5/8" 3/4" 1 1/2" 2" 3"	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	7,200 15,750 27,000 56,250 56,250 56,250 56,250 56,250 56,250 56,250 56,250 56,000	\$ \$ \$ \$ \$ \$ U U U U U U U U U U U U U U	11,200 24,500 42,000 87,500 87,500 (1,500 11,500 23,000 36,800 80,500	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	11,200 24,500 42,000 87,500 87,500 Max ffective anuary 1, 2020 4,600 6,900 11,500 23,000 36,800 80,500	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	11,200 24,500 42,000 87,500 m Calcula ffective nuary 1, 2021 4,600 6,900 11,500 23,000 36,800 80,500	s s s s s s s s s s s s s s s s s s s	11,200 24,500 42,000 87,500 6,500 11,500 23,000 36,800 80,500	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	11,200 24,500 42,000 87,500 67,500 11,500 23,000 36,800 80,500
22 23 24 25 26 27 28 29 30 31 23 34 35	2" 3" 4" 6" Development Charge ("Capital" Charge) Water Service Meter Size: 5/8" 3/4" 1 1/2" 2" 3" 4"	\$ \$ \$ \$ \$ U U U U U U U U U U U U U U U	7,200 15,750 27,000 56,250 56,250 56,250 56,250 56,250 56,250 56,250 56,250 56,250 56,000 56,000 96,000	\$ \$ \$ \$ \$ U J S S S S S S S S S S S S S S S S S S	11,200 24,500 42,000 87,500 87,500 (1,500 4,600 6,900 11,500 23,000 36,800 80,500 138,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	11,200 24,500 42,000 87,500 5ffective anuary 1, 2020 4,600 6,900 11,500 23,000 36,800 80,500 138,000	Solution Solution	11,200 24,500 42,000 87,500 m Calcula ffective nuary 1, 2021 4,600 6,900 11,500 23,000 36,800 80,500 138,000	S S	11,200 24,500 42,000 87,500 87,500 5,500 11,500 23,000 36,800 80,500 138,000	\$\$\$\$ \$ \$ \$ \$ \$ \$ \$ \$ 	11,200 24,500 42,000 87,500 87,500 ffective nuary 1, 2023 4,600 6,900 11,500 23,000 36,800 80,500 138,000
22 23 24 25 26 27 28 29 30 31 32 33 34 35 36	2" 3" 4" 6" Development Charge ("Capital" Charge) Water Service Meter Size: 5/8" 3/4" 1 1/2" 2" 3" 4"	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	7,200 15,750 27,000 56,250 56,250 56,250 56,250 56,250 56,250 56,250 56,250 56,000	\$ \$ \$ \$ \$ \$ U U U U U U U U U U U U U U	11,200 24,500 42,000 87,500 87,500 (1,500 11,500 23,000 36,800 80,500	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	11,200 24,500 42,000 87,500 87,500 Max ffective anuary 1, 2020 4,600 6,900 11,500 23,000 36,800 80,500	Solution Solution	11,200 24,500 42,000 87,500 m Calcula ffective nuary 1, 2021 4,600 6,900 11,500 23,000 36,800 80,500	s s s s s s s s s s s s s s s s s s s	11,200 24,500 42,000 87,500 6,500 11,500 23,000 36,800 80,500	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	11,200 24,500 42,000 87,500 67,500 11,500 23,000 36,800 80,500
22 23 24 25 26 27 28 29 30 31 32 33 34 35 36	2" 3" 4" 6" Development Charge ("Capital" Charge) Water Service Meter Size: 5/8" 3/4" 1 1/2" 2" 3" 4"	\$ \$ \$ \$ \$ U U U U U U U U U U U U U U U	7,200 15,750 27,000 56,250 56,250 56,250 56,250 56,250 56,250 56,250 56,250 56,250 56,000 56,000 96,000	\$ \$ \$ \$ \$ U J S S S S S S S S S S S S S S S S S S	11,200 24,500 42,000 87,500 87,500 (1,500 4,600 6,900 11,500 23,000 36,800 80,500 138,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	11,200 24,500 42,000 87,500 5ffective anuary 1, 2020 4,600 6,900 11,500 23,000 36,800 80,500 138,000	Solution Solution	11,200 24,500 42,000 87,500 m Calcula ffective nuary 1, 2021 4,600 6,900 11,500 23,000 36,800 80,500 138,000	S S	11,200 24,500 42,000 87,500 87,500 5,500 11,500 23,000 36,800 80,500 138,000	\$\$\$\$ \$ \$ \$ \$ \$ \$ \$ \$ 	11,200 24,500 42,000 87,500 87,500 ffective nuary 1, 2023 4,600 6,900 11,500 23,000 36,800 80,500 138,000
22 23 24 25 26 27 28 29 30 31 32 33 4 35 36 37	2" 3" 4" 6" Development Charge ("Capital" Charge) Water Service Meter Size: 5/8" 3/4" 1 1/2" 2" 3" 4" 6"	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	7,200 15,750 27,000 56,250 56,250 56,250 56,250 56,250 56,250 56,250 16,000 4,800 4,800 4,800 4,800 56,000 96,000 96,000	\$\$\$\$ J J J S S S S S S S S S S S S S S S	11,200 24,500 42,000 87,500 87,500 (nuary 1, 2019 4,600 6,900 11,500 23,000 36,800 80,500 138,000 287,500	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	11,200 24,500 42,000 87,500 87,500 Max Effective anuary 1, 2020 4,600 6,900 11,500 23,000 36,800 80,500 138,000 287,500	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	11,200 24,500 42,000 87,500 m Calcula ffective nuary 1, 2021 4,600 6,900 11,500 23,000 36,800 80,500 138,000 287,500	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	11,200 24,500 42,000 87,500 ffective nuary 1, 2022 4,600 6,900 11,500 23,000 36,800 80,500 138,000 287,500	\$\$\$\$ \$ \$ \$ \$ \$ \$ \$ \$ 	11,200 24,500 42,000 87,500 87,500 ffective nuary 1, 2023 4,600 6,900 11,500 23,000 36,800 80,500 138,000
22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37	2" 3" 4" 6" Development Charge ("Capital" Charge) Water Service Meter Size: 5/8" 3/4" 1 1/2" 2" 3" 4" 6"	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	7,200 15,750 27,000 56,250 56,250 56,250 56,250 56,250 56,250 56,250 16,000 4,800 4,800 4,800 4,800 56,000 96,000 96,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	11,200 24,500 42,000 87,500 87,500 (1,500 23,000 36,800 36,800 36,800 11,500 23,000 36,800 36,800 23,000 36,800 23,000 36,800 4,500 23,000 36,800 80,500 138,000 287,500	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	11,200 24,500 42,000 87,500 87,500 500 42,000 87,500 4,600 6,900 11,500 23,000 36,800 80,500 138,000 287,500	S S S Ja S S S S S S S S S S S S S S S S	11,200 24,500 42,000 87,500 m Calcula ffective nuary 1, 2021 4,600 6,900 11,500 23,000 36,800 80,500 138,000 287,500	s s s s ted Ja Ja s s s s s s s s s s s s s s s s s s s s s s s s s s s s s s s s s s s s s s s	11,200 24,500 42,000 87,500 6,500 11,500 23,000 36,800 80,500 138,000 287,500 Charge	\$\$\$\$\$ H J \$\$ G	11,200 24,500 42,000 87,500 6,900 11,500 23,000 36,800 80,500 138,000 287,500
22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37	2" 3" 4" 6" Development Charge ("Capital" Charge) Water Service Meter Size: 5/8" 3/4" 1 1/2" 2" 3" 4" 6"	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	7,200 15,750 27,000 56,250 56,250 56,250 56,250 56,250 56,250 56,250 16,000 4,800 4,800 4,800 4,800 56,000 96,000 96,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	11,200 24,500 42,000 87,500 87,500 (1,500 23,000 36,800 36,800 36,800 11,500 23,000 36,800 36,800 23,000 36,800 36,800 23,000 36,800 4,000 23,000 36,800 36,	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	11,200 24,500 42,000 87,500 87,500 500 42,000 87,500 4,600 6,900 11,500 23,000 36,800 80,500 138,000 287,500 Sewer Syste Effective	S S S S S S S S S S S S S S S S S S S	11,200 24,500 42,000 87,500 m Calcula ffective nuary 1, 2021 4,600 6,900 11,500 23,000 36,800 80,500 138,000 287,500	sss ss ted Ja ss ss ss ss ss ss ss ss ss ss ss ss ss	11,200 24,500 42,000 87,500 6,500 11,500 23,000 36,800 80,500 138,000 287,500 Charge iffective	8888 J 8888 E	11,200 24,500 42,000 87,500 6,900 11,500 23,000 36,800 80,500 138,000 287,500
223 24 25 26 27 28 29 30 31 32 33 4 35 36 37 38	2" 3" 4" 6" Development Charge ("Capital" Charge) Water Service Meter Size: 5/8" 3/4" 1 1/2" 2" 3" 4" 6"	S S S S S S S S S S S S S S S S S S S	7,200 15,750 27,000 56,250 56,250 56,250 56,250 2011 3,200 4,800 4,800 4,800 16,000 25,600 96,000 96,000 200,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	11,200 24,500 42,000 87,500 87,500 (1,500 23,000 36,800 36,800 36,800 23,000 36,800 23,000 36,800 23,000 36,800 4,500 11,500 23,000 36,800 80,500 138,000 287,500	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	11,200 24,500 42,000 87,500 87,500 5ffective anuary 1, 2020 4,600 6,900 11,500 23,000 36,800 80,500 138,000 287,500 Sewer Syste 5ffective anuary 1,	S S S S S S S S S S S S S S S S S S S	11,200 24,500 42,000 87,500 m Calcula ffective nuary 1, 2021 4,600 6,900 11,500 23,000 36,800 80,500 138,000 287,500 Developm ffective nuary 1,	sss ss ted Ja ss ss ss ss ss ss ss ss ss ss ss ss ss	11,200 24,500 42,000 87,500 6,500 1,500 23,000 36,800 36,800 36,800 138,000 287,500 Charge ffective anuary 1,	8888 J 8888 E	11,200 24,500 42,000 87,500 87,500 6,900 11,500 23,000 36,800 80,500 138,000 287,500 ffective nuary 1,
223 24 25 26 27 28 29 30 31 32 33 4 35 36 37 38	2" 3" 4" 6" Development Charge ("Capital" Charge) Water Service Meter Size: 5/8" 3/4" 1 1/2" 2" 3" 4" 6"	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	7,200 15,750 27,000 56,250 56,250 56,250 56,250 56,250 56,250 56,250 16,000 4,800 4,800 4,800 4,800 56,000 96,000 96,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	11,200 24,500 42,000 87,500 87,500 (1,500 23,000 36,800 36,800 36,800 11,500 23,000 36,800 36,800 23,000 36,800 36,800 23,000 36,800 4,000 23,000 36,800 36,	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	11,200 24,500 42,000 87,500 87,500 500 42,000 87,500 4,600 6,900 11,500 23,000 36,800 80,500 138,000 287,500 Sewer Syste Effective	S S S S S S S S S S S S S S S S S S S	11,200 24,500 42,000 87,500 m Calcula ffective nuary 1, 2021 4,600 6,900 11,500 23,000 36,800 80,500 138,000 287,500 Developm ffective	sss ss ted Ja ss ss ss ss ss ss ss ss ss ss ss ss ss	11,200 24,500 42,000 87,500 6,500 11,500 23,000 36,800 80,500 138,000 287,500 Charge iffective	8888 J 8888 E	11,200 24,500 42,000 87,500 6,900 11,500 23,000 36,800 80,500 138,000 287,500
223 24 25 26 27 28 29 30 31 32 33 4 35 36 37 38	2" 3" 4" 6" Development Charge ("Capital" Charge) Water Service Meter Size: 5/8" 3/4" 1 1/2" 2" 3" 4" 6"	\$ \$ \$ Ja \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	7,200 15,750 27,000 56,250 56,250 56,250 56,250 56,000 16,000 16,000 25,600 56,000 200,000 200,000 um Calcu	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	11,200 24,500 42,000 87,500 87,500 (1,500 23,000 36,800 36,800 36,800 23,000 36,800 23,000 36,800 23,000 36,800 4,500 11,500 23,000 36,800 80,500 138,000 287,500	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	11,200 24,500 42,000 87,500 87,500 5ffective anuary 1, 2020 4,600 6,900 11,500 23,000 36,800 80,500 138,000 287,500 Sewer Syste 5ffective anuary 1,	S S S S S S S S S S S S S S S S S S S	11,200 24,500 42,000 87,500 m Calcula ffective nuary 1, 2021 4,600 6,900 11,500 23,000 36,800 80,500 138,000 287,500 Developm ffective nuary 1,	sss ss ted Ja ss ss ss ss ss ss ss ss ss ss ss ss ss	11,200 24,500 42,000 87,500 6,500 1,500 23,000 36,800 36,800 36,800 138,000 287,500 Charge ffective anuary 1,	8888 J 8888 E	11,200 24,500 42,000 87,500 87,500 6,900 11,500 23,000 36,800 80,500 138,000 287,500 ffective nuary 1,
22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39	2" 3" 4" 6" Development Charge ("Capital" Charge) Water Service Meter Size: 5/8" 3/4" 1 1/2" 2" 3" 4" 6" Total Ma	\$ \$ \$ Ja \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	7,200 15,750 27,000 56,250 27,000 56,250 27,000 56,250 20,000 25,000 20,000 20,000 200,000 um Calcu	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	11,200 24,500 42,000 87,500 87,500 (1,500 23,000 36,800 36,800 36,800 23,000 36,800 23,000 36,800 23,000 36,800 4,500 11,500 23,000 36,800 80,500 138,000 287,500	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	11,200 24,500 42,000 87,500 87,500 5ffective anuary 1, 2020 4,600 6,900 11,500 23,000 36,800 80,500 138,000 287,500 Sewer Syste 5ffective anuary 1,	S S S S S S S S S S S S S S S S S S S	11,200 24,500 42,000 87,500 m Calcula ffective nuary 1, 2021 4,600 6,900 11,500 23,000 36,800 80,500 138,000 287,500 Developm ffective nuary 1,	sss ss ted Ja ss ss ss ss ss ss ss ss ss ss ss ss ss	11,200 24,500 42,000 87,500 6,500 1,500 23,000 36,800 36,800 36,800 138,000 287,500 Charge ffective anuary 1,	8888 J 8888 E	11,200 24,500 42,000 87,500 87,500 6,900 11,500 23,000 36,800 80,500 138,000 287,500 ffective nuary 1,
22 24 26 27 28 29 30 31 33 34 35 36 37 38 39 40	2" 3" 4" 6" Development Charge ("Capital" Charge) Water Service Meter Size: 5/8" 3/4" 1 1/2" 2" 3" 4" 6" Total Ma	\$ \$ 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	7,200 15,750 27,000 56,250 56,250 56,250 56,250 2011 3,200 4,800 4,800 4,800 56,000 25,600 200,000 200,000 200,000 200,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	11,200 24,500 42,000 87,500 87,500 (1,500 23,000 36,800 36,800 36,800 23,000 36,800 23,000 36,800 23,000 36,800 4,500 11,500 23,000 36,800 80,500 138,000 287,500	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	11,200 24,500 42,000 87,500 5ffective anuary 1, 2020 4,600 6,900 11,500 23,000 36,800 36,800 36,800 287,500 287,500 287,500 5ewer Syste 5ffective anuary 1, 2020	S S S S S S S S S S S S S S S S S S S	11,200 24,500 42,000 87,500 m Calcula ffective nuary 1, 2021 4,600 6,900 11,500 23,000 36,800 80,500 138,000 287,500 Developm ffective nuary 1,	sss ss ted Ja ss ss ss ss ss ss ss ss ss ss ss ss ss	11,200 24,500 42,000 87,500 6,500 1,500 23,000 36,800 36,800 36,800 138,000 287,500 Charge ffective anuary 1,	\$ \$ 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	11,200 24,500 42,000 87,500 87,500 6,900 11,500 23,000 36,800 80,500 138,000 287,500 ffective nuary 1,
22 23 24 25 26 27 28 29 30 31 323 334 35 36 37 38 39 40 41	2" 3" 4" 6" Development Charge ("Capital" Charge) Water Service Meter Size: 5/8" 3/4" 1" 1 1/2" 2" 3" 4" 6" Total Ma	\$ \$ 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	7,200 15,750 27,000 56,250 56,250 56,250 56,250 2011 3,200 4,800 4,800 3,200 4,800 2,600 26,000 26,000 200,000 200,000 200,000 200,000 200,000	\$ \$ Ja \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	11,200 24,500 42,000 87,500 ffective nuary 1, 2019 4,600 6,900 11,500 23,000 36,800 11,500 23,000 36,800 11,500 23,000 36,800 138,000 287,500 d Water a ffective nuary 1, 2019 6,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	11,200 24,500 42,000 87,500 87,500 5ffective anuary 1, 2020 4,600 6,900 11,500 23,000 36,800 36,800 36,800 287,500 287,500 5ewer Syste anuary 1, 2020 5ewer Syste 5ffective anuary 1, 2020	S S S S S S S S S S S S S S S S S S S	11,200 24,500 42,000 87,500 m Calcula ffective nuary 1, 2021 4,600 6,900 11,500 23,000 36,800 36,800 36,800 287,500 287,500 Developm ffective nuary 1, 2021 6,000	s s s s s s s s s s s s s s s s s s s s s s s s s s s s s s s s s s s s s <td>11,200 24,500 42,000 87,500 ffective nuary 1, 2022 4,600 6,900 11,500 23,000 36,800 80,500 138,000 287,500 Charge ffective nuary 1, 2022 Charge ffective nuary 1, 2022</td> <td>\$ \$ 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5</td> <td>11,200 24,500 42,000 87,500 87,500 (1,500 23,000 36,800 36,800 36,800 287,500 138,000 287,500 (1,500 (2,500) (1,500) (2,500) (1,500) (2,500) (</td>	11,200 24,500 42,000 87,500 ffective nuary 1, 2022 4,600 6,900 11,500 23,000 36,800 80,500 138,000 287,500 Charge ffective nuary 1, 2022 Charge ffective nuary 1, 2022	\$ \$ 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	11,200 24,500 42,000 87,500 87,500 (1,500 23,000 36,800 36,800 36,800 287,500 138,000 287,500 (1,500 (2,500) (1,500) (2,500) (1,500) (2,500) (
22 23 24 25 26 27 28 29 30 31 35 36 37 38 39 40 41 42	2" 3" 4" 5" Development Charge ("Capital" Charge) Water Service Meter Size: 5/8" 3/4" 1 1/2" 2" 3" 4" 6" Total Ma Water Service Meter Size: 5/8"	\$ \$ 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	7,200 15,750 27,000 56,250 56,250 56,250 56,250 2011 3,200 4,800 4,800 4,800 56,000 25,600 200,000 200,000 200,000 200,000 200,000	\$ \$ Ja \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	11,200 24,500 42,000 87,500 6,500 11,500 23,000 36,800 11,500 23,000 36,800 138,000 287,500 138,000 287,500 d Water a ffective inuary 1, 2019	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	11,200 24,500 42,000 87,500 5ffective anuary 1, 2020 4,600 6,900 11,500 23,000 36,800 36,800 36,800 287,500 287,500 287,500 5ewer Syste 5ffective anuary 1, 2020	s s s s Ja s Ja s Ja s Ja s	11,200 24,500 42,000 87,500 m Calcula ffective nuary 1, 2021 4,600 6,900 11,500 23,000 36,800 36,800 36,800 287,500 287,500 287,500	s s s s s s s s s s s s s s s s s s s s s s s s s s	11,200 24,500 42,000 87,500 ffective nuary 1, 2022 4,600 6,900 11,500 23,000 36,800 287,500 287,500 287,500 Charge ffective nuary 1, 2022 Charge ffective nuary 1, 2022	Sector E B Sector E B B Sector Sector </td <td>11,200 24,500 42,000 87,500 87,500 6,900 11,500 23,000 36,800 36,800 287,500 138,000 287,500 ffective nuary 1, 2023</td>	11,200 24,500 42,000 87,500 87,500 6,900 11,500 23,000 36,800 36,800 287,500 138,000 287,500 ffective nuary 1, 2023
22 24 25 26 27 28 29 31 32 33 35 36 39 40 14 43 44	2" 3" 4" 6" Sewer System Development Charge ("Capital" Charge) Water Service Meter Size: 5/8" 3/4" 1 1/2" 2" 3" 4" 6" Total Ma Water Service Meter Size: 5/8" 1 1/2"	S S S S C E J a S S S S S S S S S S S S S S S S S S	7,200 15,750 27,000 56,250 56,250 Current ffective nuary 1, 2011 3,200 4,800 8,000 16,000 25,600 96,000 200,000 200,000 um Calcu Current ffective nuary 1, 2011 4,100 6,150	\$ \$ 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	11,200 24,500 42,000 87,500 6,800 11,500 23,000 36,800 11,500 23,000 36,800 138,000 287,500 d Water a fffective nuary 1, 2019 d Water a fffective nuary 1, 2019	\$ \$	11,200 24,500 42,000 87,500 87,500 56,000 4,600 6,900 11,500 23,000 36,800 36,800 36,800 36,800 38,0500 138,000 287,500 36,800 38,000 287,500 56,000 9,000	\$ \$	11,200 24,500 42,000 87,500 m Calcula ffective nuary 1, 2021 4,600 6,900 11,500 23,000 36,800 11,500 23,000 36,800 138,000 287,500 287,500 Developm ffective nuary 1, 2021 6,000 9,000	s s s s s s s s s s s s s s s s s s s s s s s s	11,200 24,500 42,000 87,500 ffective nuary 1, 2022 4,600 6,900 11,500 23,000 36,800 80,500 138,000 287,500 Charge ffective nuary 1, 2022 Charge ffective nuary 1, 2022	Sector Sector<	11,200 24,500 42,000 87,500 67,500 11,500 23,000 36,800 11,500 23,000 36,800 138,000 287,500 138,000 287,500 ffective nuary 1, 2023
22 23 24 25 26 27 28 29 30 31 35 36 39 40 41 42 43	2" 3" 4" 6" Sewer System Development Charge ("Capital" Charge) Water Service Meter Size: 5/8" 3/4" 1 1/2" 2" 3" 4" 6" Total Ma Water Service Meter Size: 5/8" 1 1/2"	S S Ja S Ja S Ja S S S Ja S S S S S S S S S S S S S	7,200 15,750 27,000 56,250 56,250 Current ffective nuary 1, 2011 3,200 4,800 8,000 16,000 25,600 96,000 200,000 200,000 um Calcu Current ffective nuary 1, 2011 4,100 6,150 10,250	\$ \$ 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	11,200 24,500 42,000 87,500 6,500 1,500 11,500 23,000 36,800 36,800 23,000 36,800 23,000 36,800 23,000 138,000 287,500 4 Water a iffective inuary 1, 2019 6,000 9,000 15,000	Second second	11,200 24,500 42,000 87,500 87,500 56,000 11,500 23,000 36,800 80,500 138,000 287,500 36,800 287,500 36,800 36,800 287,500 36,800 287,500 36,800 287,500 36,800 287,500 36,000 9,000 15,000 30,000 48,000	s s s s s s s s s s s s s s s s s s s s s s s s s s s s s s s s s s s s s s s s	11,200 24,500 42,000 87,500 m Calcula ffective nuary 1, 2021 4,600 6,900 11,500 23,000 36,800 80,500 138,000 287,500 287,500 287,500 0 287,500 0 287,500 138,000 138,000 138,000 138,000 138,000 138,000 15,000	s s s s s s s s s s s s s s s s s s s s s s s s s s	11,200 24,500 42,000 87,500 ffective muary 1, 2022 4,600 6,900 11,500 23,000 36,800 80,500 138,000 287,500 Charge ffective muary 1, 2022 Charge ffective muary 1, 2022	Sector Sector<	11,200 24,500 42,000 87,500 6,000 11,500 23,000 36,800 80,500 138,000 287,500 138,000 287,500 ffective nuary 1, 2023 6,000 9,000 15,000
22 24 25 26 27 28 29 31 32 33 35 36 39 40 14 43 44	2" 3" 4" 6" Sewer System Development Charge ("Capital" Charge) Water Service Meter Size: 5/8" 3/4" 1 1/2" 2" 3" 4" 6" Total Ma Water Service Meter Size: 5/8" 3/4" 1 1/2" 2" 3" 3/4" 3/4" 3/4" 3/4"	S S C E J J J S S S J J S S S J S S S J S S S J S S S J S S S	7,200 15,750 27,000 56,250 56,250 56,250 56,250 56,250 56,250 56,250 56,250 56,250 56,250 56,000 96,000 25,600 56,000 96,000 25,600 96,000 200,00	\$ \$ Ja \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	11,200 24,500 42,000 87,500 87,500 (nuary 1, 2019 4,600 6,900 11,500 23,000 36,800 23,000 36,800 23,000 36,800 23,000 36,800 287,500 287,500 287,500 36,800 138,000 9,000 15,000 30,000 48,000	************************************	11,200 24,500 42,000 87,500 87,500 56,000 4,600 6,900 11,500 36,800 80,500 138,000 287,500 36,800 36,800 36,800 36,800 138,000 287,500 56,000 6,000 9,000 15,000 48,000 105,000	S S	11,200 24,500 42,000 87,500 m Calcula ffective nuary 1, 2021 4,600 6,900 11,500 23,000 36,800 80,500 138,000 287,500 287,500 287,500 287,500 287,500 287,500 287,500 36,800 138,000 15,000 30,000 48,000 105,000	s s <td>11,200 24,500 42,000 87,500 ffective muary 1, 2022 4,600 6,900 11,500 23,000 36,800 80,500 138,000 287,500 287,500 Charge ffective muary 1, 2022 6,000 9,000 15,000 30,000 48,000</td> <td>www.www.www.www.www.www.www.www.wwwwwww</td> <td>11,200 24,500 42,000 87,500 ffective nuary 1, 2023 4,600 6,900 11,500 23,000 36,800 80,500 138,000 287,500 138,000 287,500 ffective nuary 1, 2023 ffective nuary 1, 2023 ffective nuary 1, 2023</td>	11,200 24,500 42,000 87,500 ffective muary 1, 2022 4,600 6,900 11,500 23,000 36,800 80,500 138,000 287,500 287,500 Charge ffective muary 1, 2022 6,000 9,000 15,000 30,000 48,000	www.www.www.www.www.www.www.www.wwwwwww	11,200 24,500 42,000 87,500 ffective nuary 1, 2023 4,600 6,900 11,500 23,000 36,800 80,500 138,000 287,500 138,000 287,500 ffective nuary 1, 2023 ffective nuary 1, 2023 ffective nuary 1, 2023
22 24 26 27 28 29 31 33 35 36 39 40 41 42 44 45	2" 3" 4" 6" Sewer System Development Charge ("Capital" Charge) Water Service Meter Size: 5/8" 3/4" 1 1/2" 2" 3" 4" 6" Total Ma Water Service Meter Size: 5/8" 3/4" 1 1/2" 2" 3"	S S <td>7,200 15,750 27,000 56,250 56,250 Surrent ffective nuary 1, 2011 3,200 4,800 8,000 16,000 25,600 96,000 200,000 um Calcu Strent ffective nuary 1, 2011 4,100 6,150 10,250 20,500 32,800</td> <td>\$ \$ Ja \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$</td> <td>11,200 24,500 42,000 87,500 87,500 (nuary 1, 2019 4,600 6,900 11,500 23,000 36,800 23,000 36,800 23,000 36,800 23,000 36,800 287,500 287,500 287,500 36,800 138,000 9,000 15,000 30,000 48,000</td> <td>************************************</td> <td>11,200 24,500 42,000 87,500 87,500 56,000 11,500 23,000 36,800 80,500 138,000 287,500 36,800 287,500 36,800 36,800 287,500 36,800 287,500 36,800 287,500 36,800 287,500 36,000 9,000 15,000 30,000 48,000</td> <td>s s<td>11,200 24,500 42,000 87,500 m Calcula ffective nuary 1, 2021 4,600 6,900 11,500 23,000 36,800 80,500 138,000 287,500 287,500 287,500 287,500 287,500 287,500 287,500 5,000 9,000 15,000 30,000 48,000</td><td>s s<td>11,200 24,500 42,000 87,500 ffective muary 1, 2022 4,600 6,900 11,500 23,000 36,800 80,500 138,000 287,500 287,500 Charge ffective muary 1, 2022 6,000 9,000 15,000 30,000 48,000</td><td>www.www.www.www.www.www.www.www.wwwwwww</td><td>11,200 24,500 42,000 87,500 6,000 11,500 23,000 36,800 80,500 138,000 287,500 138,000 287,500 6,000 9,000 15,000 30,000 48,000</td></td></td>	7,200 15,750 27,000 56,250 56,250 Surrent ffective nuary 1, 2011 3,200 4,800 8,000 16,000 25,600 96,000 200,000 um Calcu Strent ffective nuary 1, 2011 4,100 6,150 10,250 20,500 32,800	\$ \$ Ja \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	11,200 24,500 42,000 87,500 87,500 (nuary 1, 2019 4,600 6,900 11,500 23,000 36,800 23,000 36,800 23,000 36,800 23,000 36,800 287,500 287,500 287,500 36,800 138,000 9,000 15,000 30,000 48,000	************************************	11,200 24,500 42,000 87,500 87,500 56,000 11,500 23,000 36,800 80,500 138,000 287,500 36,800 287,500 36,800 36,800 287,500 36,800 287,500 36,800 287,500 36,800 287,500 36,000 9,000 15,000 30,000 48,000	s s <td>11,200 24,500 42,000 87,500 m Calcula ffective nuary 1, 2021 4,600 6,900 11,500 23,000 36,800 80,500 138,000 287,500 287,500 287,500 287,500 287,500 287,500 287,500 5,000 9,000 15,000 30,000 48,000</td> <td>s s<td>11,200 24,500 42,000 87,500 ffective muary 1, 2022 4,600 6,900 11,500 23,000 36,800 80,500 138,000 287,500 287,500 Charge ffective muary 1, 2022 6,000 9,000 15,000 30,000 48,000</td><td>www.www.www.www.www.www.www.www.wwwwwww</td><td>11,200 24,500 42,000 87,500 6,000 11,500 23,000 36,800 80,500 138,000 287,500 138,000 287,500 6,000 9,000 15,000 30,000 48,000</td></td>	11,200 24,500 42,000 87,500 m Calcula ffective nuary 1, 2021 4,600 6,900 11,500 23,000 36,800 80,500 138,000 287,500 287,500 287,500 287,500 287,500 287,500 287,500 5,000 9,000 15,000 30,000 48,000	s s <td>11,200 24,500 42,000 87,500 ffective muary 1, 2022 4,600 6,900 11,500 23,000 36,800 80,500 138,000 287,500 287,500 Charge ffective muary 1, 2022 6,000 9,000 15,000 30,000 48,000</td> <td>www.www.www.www.www.www.www.www.wwwwwww</td> <td>11,200 24,500 42,000 87,500 6,000 11,500 23,000 36,800 80,500 138,000 287,500 138,000 287,500 6,000 9,000 15,000 30,000 48,000</td>	11,200 24,500 42,000 87,500 ffective muary 1, 2022 4,600 6,900 11,500 23,000 36,800 80,500 138,000 287,500 287,500 Charge ffective muary 1, 2022 6,000 9,000 15,000 30,000 48,000	www.www.www.www.www.www.www.www.wwwwwww	11,200 24,500 42,000 87,500 6,000 11,500 23,000 36,800 80,500 138,000 287,500 138,000 287,500 6,000 9,000 15,000 30,000 48,000

Table T2	
Total Metana and	C

_				Example To	al Water and			<u> </u>		· · ·	
-	Α	В	C		E	F	G	<u> н</u> utside Cit		t Townoh	<u> к</u>
1				nside Cit						1	
2		FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
3	Usage (Number of 100 Cubic Feet Units per Month):										
4											
	Meter Size: 5/8"										
6	Current Bill			\$ 54.74		\$ 56.92	\$ 82.09	\$ 89.09	\$ 89.57	\$ 92.60	\$ 93
7 8	Proposed Bill	\$ 54.41 7.0%	\$ 54.74 0.6%	\$ 56.53 3.3%	\$ <u>56.92</u> 0.7%		\$ <u>89.09</u> 8.5%	\$ <u>89.57</u> 0.5%	\$ 92.60 3.4%	\$ 93.17 0.6%	\$ 96
<u>8</u>	Change (Percent) Change (Dollars)		\$ 0.33				\$ 7.00		\$ 3.03		s 3
Ť	Usage (Number of 100 Cubic	• ••••				-					
	Feet Units per Month):										
11											
13	Meter Size: 5/8" Current Bill	\$ 72.35	\$ 79.41	\$ 80.59	\$ 83.38	\$ 84.87	\$ 107.24	\$ 118.74	\$ 120.22	\$ 124.40	\$ 120
14	Proposed Bill		\$ 80.59	\$ 83.38		\$ 87.80	\$ 118.74				\$ 130
15	Change (Percent)	9.8%	1.5%	3.5%			10.7%				
16	Change (Dollars)	\$ 7.06	<u>\$ 1.18</u>	\$ 2.79	\$ 1.49	\$ 2.93	\$ 11.50	\$ 1.48	\$ 4.18	\$ 1.87	\$ 4
7	Usage (Number of 100 Cubic Feet Units per Month):	\$ 1.41	0.01951624								
	10	\$0.0195				İ					
	Meter Size: 5/8"										
20	Current Bill		\$ 104.41	\$ 106.44			\$ 132.39				
21 22	Proposed Bill Change (Percent)	\$ 104.41 11.3%	\$ 106.44 1.9%	\$ 110.23 3.6%			\$ 148.39 12.1%				
23	Change (Dollars)		\$ 2.03			\$ 4.08	\$ 16.00		\$ 5.33		
	Usage (Number of 100 Cubic			[
	Feet Units per Month):	\$ 2.11	0.022504			 				<u> </u>	ļ
	50 Meter Size: 3/4"	\$0.0225								<u> </u>	1
27	Current Bill	\$ 288.96	\$ 329.02	\$ 330.90	\$ 343.41	\$ 354.81	\$ 371.78	\$ 426.93	\$ 437.58	\$ 453.55	\$ 467
28	Proposed Bill	\$ 329.02	\$ 330.90	\$ 343.41	\$ 354.81	\$ 368.78	\$ 426.93	\$ 437.58	\$ 453.55	\$ 467.33	\$ 485
29	Change (Percent)	13.9%	0.6%	3.8%	3.3%		14.8%				
90	Change (Dollars) Usage (Number of 100 Cubic	\$ 40.08	\$ 1.88	\$ 12.51	\$ 11.40	\$ 13.97	\$ 55.15	\$ 10.65	\$ 15.97	\$ 13.78	\$ 17
11	Feet Units per Month):										
	200										
	Meter Size: 1*										
4	Current Bill		\$ 1,128.24		\$ 1,207.23		\$ 1,202.66				
35 36	Proposed Bill Change (Percent)	\$ 1,128.24 15.1%	\$ 1,162.92 3.1%	\$ 1,207.23 3.8%		\$ 1,302.34 4.0%	\$ <u>1,399.09</u> 16.3%				
37	Change (Dollars)		\$ 34.68				\$ 196.43				
	Usage (Number of 100 Cubic						· · · · ·			1	
	Feet Units per Month):							ļ			
	600 Meter Size: 2"										
+U 41		\$ 2.954.32	\$ 3.398.95	\$ 3,502,89	\$ 3,636,44	\$ 3,770.79	\$ 3,634.68	\$ 4,225.71	\$ 4,348.64	\$ 4,509.83	\$ 4,669
42	Proposed Bill					\$ 3,922.33	\$ 4,225.71				
43	Change (Percent)	15.1%	3.1%	3.8%			16.3%				
44	Change (Dollars) Usage (Number of 100 Cubic	\$ 444.63	\$ 103.94	\$ 133.55	\$ 134.35	\$ 151.54	\$ 591.03	\$ 122.93	\$ 161.19	\$ 159.51	\$ 185
45	Feet Units per Month):			•							
46	1,200										
	Meter Size: 3"										
48							\$ 7,378.20				
49 50	Proposed Bill Change (Percent)		<u>\$ 7,074.67</u> 3.0%			\$ 7,918.69	\$ 8,568.99 16.1%	\$ 8,815.24 2.9%			
50	Change (Dollars)		\$ 208.13				\$ 1,190.79				
	Usage (Number of 100 Cubic			T T							1
	Feet Units per Month):			ļ		ļ					
	7,000 Meter Sizes: 4", 4", 2", 5/8", 2",			<u> </u>				·	<u> </u>		
	2", 2"					1		1	ļ		
i5	Current Bill			\$40,048.84				\$ 47,423.91			
6	Proposed Bill		\$40,048.84			\$44,877.12		\$ 48,849.65			
57 58	Change (Percent) Change (Dollars)		3.1% \$ 1 212 09	3.8% \$ 1,525.33				<u>3.0%</u> \$ 1,425.74			
~	Usage (Number of 100 Cubic	4 U,ULI,04	Ψ 1,616.UJ	<u>ψ 1,020.00</u>	<u>ψ 1,000.01</u>	<u> </u>	φ 0,731.34	<u> </u>	<u> w 1,010.03</u>	<u> + 1,000.07</u>	<u> </u>
	Feet Units per Month):										
	2,800										
	Meter Size: 6"	£44 000 TT	6 47 004 41	6 47 574 00	£ 40 007 00	6 40 070 01	. 40.000 07		C 00 070 07	A 00 400 C	
32 33	Current Bill Proposed Bill	\$14,932.77	\$17 571 02	\$17,571.92 \$18,237,03		\$18,870.64 \$19,619.74		\$ 21,776.69 \$ 22,358.69			
34	Change (Percent)	14.4%	2.9%				15.4%				
5	Change (Dollars)	\$ 2,148.67	\$ 490.48				\$ 2,913.84	\$ 582.00	\$ 824.15	\$ 754.40	\$ 935
6							BAY VI	EW ANNUAL I	BILL (TOTAL	WATER AND	SEWER)
	Usage (Number of 100 Cubic									P 1 A 244	
	Feet Units per Year): 24,974	Water					FY 2019	FY 2020	FY 2021	FY 2022	FY 202
	20,016	Sewer		:		· · · · · · · · · · · · · · · · · · ·		1	l	<u>├</u> ───	1
	RTS Charge Meter Basis:					· · · · · · · · · · · · · · · · · · ·					
	Water provided thru a 6" and a										1
	12" main. RTS billed as 6"	Water RTS				·		 	<u> </u>		
	Sewage pumped via 8" FM, RTS charge biiled as meter							Į.	l		
	size = 4"	Sewer RTS		I						1	
'3	Current Bill							\$ 165,731.72			
4	Proposed Bill Change (Percent)			1				\$ 170,499.70			
'5					skey Rate St		13.1%	2.9%	3.7%	3.6%	3

Table T2 Residential Example Total Water and Sewer Bills

	A	В	L C	D	E	F	G	н		J	к
1				nside Cit			Resort Township				
2		FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
3	Usage (Number of 100 Cubic Feet Units per Month):										
	Meter Size: 5/8"										
6 7	Current Bill Proposed Bill			\$ 54.74 \$ 56.53			\$ 82.09 \$ 89.09		\$ 89.57 \$ 92.60	\$ <u>92.60</u> \$93.17	
8	Change (Percent)	5 54.41			0.7%		8.5%			0.6%	3.2%
9	Change (Dollars)	\$ 3.56	\$ 0.33	\$ 1.79	\$ 0.39	\$ 1.78	\$ 7.00	\$ 0.48	\$ 3.03	\$ 0.57	\$ 3.01
10	Usage (Number of 100 Cubic Feet Units per Month):								1		
11	1										
12 13	Meter Size: 5/8" Current Bill	\$ 55.15	\$ 59.41	\$ 59.91	\$ 61.90	\$ 62.51	\$ 87.12	\$ 95.02	\$ 95.70	\$ 98.96	\$ 99.79
14	Proposed Bill	\$ 59.41	\$ 59.91	\$ 61.90	\$ 62.51	\$ 64.52	\$ 95.02	\$ 95.70	\$ 98.96	\$ 99.79	
15 16	Change (Percent) Change (Dollars)	7.7% \$ 4.26					9.19 \$ 7.80	6 0.7% 0 \$ 0.68		0.8%	
	Usage (Number of 100 Cubic		• • • • • • •	• 1.55	<u> </u>					•	
17 18	Feet Units per Month):										
	Z Meter Size: 5/8"										
20	Current Bill						\$ 92.15 \$ 100.95				
21 22	Proposed Bill Change (Percent)	\$ 64.41 8.3%								1.0%	3.3%
23	Change (Dollars)					\$ 2.24	\$ 8.80	\$ 0.88	\$ 3.49	\$ 1.09	\$ 3.55
24	Usage (Number of 100 Cubic Feet Units per Month):			1							
25	3		ļ						ļ		
26 27	Meter Size: 5/8" Current Bill	\$ 63.75	\$ 69.41	\$ 70.25	\$ 72.64	\$ 73.69	\$ 97.18	\$ 106.88	\$ 107.96	\$ 111.68	\$ 113.03
28	Proposed Bill	\$ 69.41	\$ 70.25	\$ 72.64	\$ 73.69	\$ 76.16	\$ 106.88	\$ 107.96	\$ 111.68	\$ 113.03	\$ 116.85
29 30	Change (Percent) Change (Dollars)	8.9% \$ 5.66	6 1.2% 5 \$ 0.84								3.4% \$3.82
	Usage (Number of 100 Cubic		. + 0.04	- 2.05		<u> </u>	1	1.00			
	Feet Units per Month): 4										
	4 Meter Size: 5/8"						1				
34 35	Current Bill						\$ 102.21 \$ 112.81				
35	Proposed Bill Change (Percent)									1.4%	
37	Change (Dollars)		5 \$ 1.01	\$ 2.59	\$ 1.27	\$ 2.70	\$ 10.60	\$ 1.28	\$ 3.95	\$ 1.61	\$ 4.09
38	Usage (Number of 100 Cubic Feet Units per Month):										
39	5										
40 41	Meter Size: 5/8" Current Bill	\$ 72.35	\$ 79.41	\$ 80.59	\$ 83.38	\$ 84.87	\$ 107.24	\$ 118.74	\$ 120.22	\$ 124.40	\$ 126.27
42	Proposed Bill			\$ 83.38							
43 44	Change (Percent) Change (Dollars)										3.5% \$ 4.36
	Usage (Number of 100 Cubic										
45 46	Feet Units per Month): 6										
47	Meter Size: 5/8*										
48 49	Current Bill Proposed Bill										
50	Change (Percent)	10.19	6 1.6%	3.5%	1.9%	3.5%	11.09	6 1.3%	3.5%	1.6%	3.5%
51	Change (Dollars) Usage (Number of 100 Cubic	\$ 7.76	i \$ 1.35	\$ 2.99	\$ 1.71	\$ 3.16	\$ 12.40) \$ 1.68	\$ 4.41	\$ 2.13	\$ 4.63
	Feet Units per Month):										
53 54	7 Meter Size: 5/8"					<u> </u>					
55	Current Bill			\$ 90.93							
56 57	Proposed Bill Change (Percent)			\$ 94.12 3.5%							
58	Change (Dollars)		\$ 1.52								
60	Usage (Number of 100 Cubic Feet Units per Month):										
60	8										
	Meter Size: 5/8"	é 06.05	C 04.44	¢ 0040	¢ 00.40	¢ 404.04	R 400 00	E 400 F0	e 400.04	6 440 40	¢ 440.40
62 63	Current Bill Proposed Bill			\$ 96.10 \$ 99.49							
64	Change (Percent)	10.7%	6 1.8%	3.5%	2.2%	3.6%	11.69	6 1.5%	3.5%	1.8%	3.5%
65	Change (Dollars) Usage (Number of 100 Cubic	\$ 9.16	i \$ 1.69	\$ 3.39	\$ 2.15	\$ 3.62	\$ 14.20) \$ 2.08	\$ 4.87	\$ 2.65	\$ <u>5.17</u>
	Feet Units per Month):			ļ		ļ	ļ			[
67 68	9 Meter Size: 5/8*			}				+	<u> </u>		
69	Current Bill										
70 71	Proposed Bill Change (Percent)	\$ <u>99.41</u> 11.0%			\$ 107.23 2.3%						
72	Change (Dollars)		\$ 1.86								
73	Usage (Number of 100 Cubic Feet Units per Month):										
74	10					L					
75 76	Meter Size: 5/8" Current Bill	\$ 93.85	\$ 104.41	\$ 106.44	\$ 110.23	\$ 112.82	\$ 132.39	\$ 148.39	\$ 150.87	\$ 156.20	\$ 159.37
77	Proposed Bill	\$ 104.41	\$ 106.44	\$ 110.23	\$ 5 112.82	\$ 112.82 \$ \$ 116.90	\$ 148.39	\$ 150.87	\$ 156.20	\$ 159.37	\$ 165.08
78- 79	12749-1800 Change (Percent) Change (Dollars)		6 <u>1.9%</u> \$ 2.03	3.6%	k <mark>ây Sowa 38</mark> r y Tech <u>Sig</u>a	3.6%					
		+ 10.30	. w £.00	ιψ 3.18	<u>ψ κ.υθ</u>	1 .00	u w 10.00		_ພ ບ.ວຽ	/۱.د پ	<u>v</u> ⊋./

Table T3Total Water and Sewer Rate Revenue Adequacy

	Α	В	С	D	E
1			ater		
		Revenue			
		Required	Projected		
2		From Rates	Revenue		Closure
3	FY 2019	\$ 2,277,583	\$ 2,283,615		\$ 6,032
4	FY 2020	\$ 2,339,016	\$ 2,342,677		\$ 3,660
5	FY 2021	\$ 2,404,433	\$ 2,409,224		\$ 4,791
6	FY 2022	\$ 2,474,177	\$ 2,478,880		\$ 4,702
7	FY 2023	\$ 2,548,625	\$ 2,556,144		\$ 7,519
8	FY 2019 to FY 2023	\$ 12,043,835	\$ 12,070,540		\$ 26,705
9					
10		Waste	ewater		
		Revenue			
		Required	Projected		
11		From Rates	Revenue		Closure
12	FY 2019	\$ 3,539,130	\$ 3,542,501		\$ 3,372
13	FY 2020	\$ 3,587,772	\$ 3,588,699		\$ 927
14	FY 2021	\$ 3,734,723	\$ 3,736,627		\$ 1,903
15	FY 2022	\$ 3,795,809	\$ 3,800,730		\$ 4,921
16	FY 2023	\$ 3,952,144	\$ 3,952,903		\$ 759
17	FY 2019 to FY 2023	\$ 18,609,579	\$ 18,621,460		\$ 11,882
18					
19		То	tal		
		Revenue			
		Required	Projected		
20		From Rates	Revenue		Closure
21	FY 2019	\$ 5,816,713	\$ 5,826,116		\$ 9,404
	FY 2020	\$ 5,926,788	\$ 5,931,376		\$ 4,587
23	FY 2021	\$ 6,139,157	\$ 6,145,851	L	\$ 6,694
24	FY 2022	\$ 6,269,987	\$ 6,279,610		\$ 9,623
25	FY 2023	\$ 6,500,769	\$ 6,509,048		\$ 8,278
26	FY 2019 to FY 2023	\$ 30,653,414	\$ 30,692,000		\$ 38,587

Table ENR Engineering News Record Construction Cost Indices

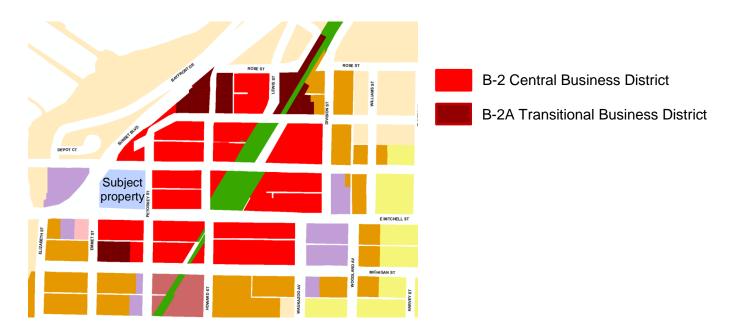
	Α	N	0 P
1		ANN.	
2	YEAR	AVG.	
3	1953	600	
4	1954	628	
5	1955	660	
6	1956	692	
7	1957	724	
8	1958	759	
9	1959	797	
10	1960	824	
11	1961	847	
		872	
12	1962		
13	1963	901	
14	1964	936	
15	1965	971	
16	1966	1,019	
17	1967	1,074	
18	1968	1,155	
19	1969	1,300	
20	1970	1,450	
21	1971	1,581	
22	1972	1,753	
23	1973	1,900	
24	1974	2,020	
25	1975	2,212	
26	1976	2,400	
27	1977	2,400	
28	1978	2,776	
29	1979	3,003	
30	1980	3,237	
31	1981	3,533	
32	1982	3,816	
33	1983	4,067	
34	1984	4,148	
35	1985	4,194	
36	1986	4,287	
37	1987	4,392	
38	1988	4,519	
39	1989	4,606	
40	1990	4,728	
41	1991	4,834	
42	1992	4,985	
43	1993	5,211	
44	1994	5,410	
45	1995	5,471	
46	1996	5,618	
47	1997	5,823	
48	1998	5,920	
49	1999	6,059	
50	2000	6,221	
51	2001	6,342	
52	2002	6,538	
53			
_	2003	6,695	
54	2004	7,115	
55	2005	7,444	
56	2006	7,751	
57	2007	7,967	
58	2008	8,310	
59	2009	8,570	
60	2003	8,799	
61	2010	9,070	
62	2012	9,308	
63	2013	9,547	02.95
64	2014	9,807	93.85
65	2015	10,031	95.99
00	2016	10,339	98.94
66			400 75
66 67 68	2017 2018	10,737	102.75 September-18 11,170.3



City of Petoskey

BOARD:	City Council
MEETING DATE:	December 17, 2018 DATE PREPARED: December 6, 2018
AGENDA SUBJECT:	Proposed rezoning of 200 East Lake Street (formerly known as Petoskey Pointe)
RECOMMENDATION :	That City Council conduct a first reading of proposed ordinance

Background At its November 15, 2018 meeting, City Council initiated the process of rezoning the subject property to B-2 Central Business District as a result of a Final Judgement being entered by the Circuit Court for Emmet County in the lawsuit between the City of Petoskey and LCA Enterprises, LLC, which terminated the Development Agreement and PUD Agreement for the Petoskey Pointe Project.



The Planning Commission scheduled a public hearing to rezone the property B-2 Central Business District at its November 15 meeting. The Commission is scheduled to hold a public hearing on the property rezoning at its December 13 meeting and make a recommendation to City Council. The enclosed proposed ordinance is worded as a recommendation to approve the rezoning.

<u>Action</u> As a zoning map amendment, City Council is being asked to conduct a first reading on the proposed ordinance.

ORDINANCE NO._____

AN ORDINANCE TO AMEND THE ZONING DISTRICT MAP OF THE CITY OF PETOSKEY AS SET FORTH IN ORDINANCE NO. 451, THE ZONING ORDINANCE OF THE CITY OF PETOSKEY, TO RE-ZONE SPECIFIC PROPERTY TO B2 CENTRAL BUSINESS DISTRICT.

WHEREAS, the City of Petoskey Master Plan has a goal of maintaining and enhancing downtown Petoskey as the regional economic and cultural center of the community; and

WHEREAS, the character of Downtown Petoskey as a dense, mixed-use district is essential to its success at meeting this goal; and

WHEREAS, the Central Business District has standards to ensure that future redevelopment is compatible with the form and character of existing structures and uses that are dense and mixed-use; and

WHEREAS, the subject property is at the gateway to Downtown Petoskey; and

WHEREAS, the subject property had been rezoned to Planned Unit Development PUD subject to the provisions of a PUD Agreement through Ordinance 692; and

WHEREAS, the PUD Agreement was terminated by the Circuit Court for the County in Case No. 18-106248-CK, pursuant to its Final Judgement dated October 25, 2018; and

WHEREAS, rezoning this property to B-2 Central Business District at this time will ensure that its redevelopment will enhance Downtown Petoskey as the regional economic and cultural center of the community; and

WHEREAS, the Petoskey Planning Commission held a public hearing on the rezoning December 13, 2018 and recommends to City Council that the Zoning District Map be amended to add the subject property to the B-2 Central Business District:

NOW THEREFORE, the City of Petoskey ordains:

 The Zoning District Map of the City of Petoskey shall be, and the same hereby is, amended in order that the following described property be shown as located in the B-2 Central Business District and the Zoning classification hereafter for said property shall be B-2 Central Business. The property hereby re-zoned is described as follows:

Property located in the City of Petoskey, County of Emmet, State of Michigan, towit: All of Lots 1, 2, 3, 4, 5, 6, 7 and 8 of Block 2, Ignatius & Lewis Petoskey's Addition to the Village of Petoskey City recorded in Liber 1, Page 2, AND all of Lots 1, 2, 3, 4, and that part of Lots 5 and 6 lying Southeasterly of U.S. 31 Highway as monumented, of Block 1, Ignatius Petoskey's Addition to the Village of Petoskey City Recorded in Liber 1, Page 7, Emmet County, Michigan, and the alley between Block 1 of Ignatius Petoskey's Addition and Block 2 of Ignatius & Lewis Petoskey's Addition, as vacated in Resolution recorded in Liber 1083, Page 976, Emmet County Records, all being more particularly described as follows:

Beginning at the southwest corner of Lot 1, Block 1, Ignatius Petoskey's Addition to the Village of Petoskey City; thence along the West line of said Block 1 North 00°26'45" East, 193.37 feet to the easterly right-of-way of Highway U.S. 31 as monumented; thence along said easterly right-of-way North 34°03'47" East, 111.36 feet to the north line of said Block 1, thence along said north line of Block 1 and said Block 2 of Ignatius & Lewis Petoskey's Addition to the Village of Petoskey City South 89°20'48" East, 269.10 feet to the northeast corner of said Lot 4, Block 2; thence along the East line of said Block 2 and the East line of said Petoskey Street Commons Condominium, now terminated in Liber 1083, Page 977, Emmet County Records, South 00°33'06" West, 285.91 feet to the Southeast corner of said Lot 5, Block 2; thence along the South line of said Block 2 of Ignatius and Lewis Petoskey's Addition and said Block 1 of Ignatius Petoskey's Addition to the Village of Petoskey City North 89°25'06" West, 330.22 feet to the Point of Beginning.

- 2. The various parts, sections and clauses of this Ordinance are hereby declared to be severable. If any part, sentence, paragraph, section, or clause is adjudged unconstitutional or invalid by a court of competent jurisdiction, the remainder of the Ordinance shall not be affected thereby.
- 3. This Ordinance shall take effect fifteen (15) days following its enactment and shall be published once within seven (7) days after its enactment as provided by Charter.

Adopted, enacted and ordained by the City of Petoskey City Council this _____ day of _____ 2019.

John Murphy Its Mayor

Alan Terry Its Clerk



City of Petoskey

BOARD: City Council

MEETING DATE: December 17, 2018 PREPARED: December 6, 2018

AGENDA SUBJECT: MDOT Construction Contract

RECOMMENDATION: That the City Council adopt the enclosed proposed resolution

Background The 2019 Annual Budget and Capital Improvements Plan included \$873,000 within the Water and Sewer Fund for water main and sanitary sewer system improvements, along with \$190,000 within the Electric Fund for street lighting and traffic signal upgrades associated with the Michigan Department of Transportation's (MDOT) 2019 US-31 Reconstruction Project. Both these figures were cost estimates for underground utility work and lighting and signalization improvements.

Recently, MDOT has bid the project establishing actual amounts for City participation with overall costs to the City being within budgeted amounts. The City's water main participation cost is now estimated at \$296,300 with City sewer cost estimated at \$334,600 for a total utility costs to the City of \$630,900, well below the City budgeted amount of \$873,000. MDOT will be contributing \$193,600 to fund the underground utility work. The signalization improvements at MacDonald Drive included \$56,800 participation from the City for mast arms with MDOT paying for \$203,400 for other signal improvements. MDOT will also be paying for \$368,000 for widening of the Little Traverse Wheelway to 10', from the Bayfront Tunnel east through the new retaining wall reconstruction area as well as new sidewalk additions.

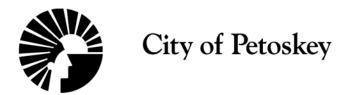
Limits for this project include 1.3 miles of the US-31 corridor beginning at the Mitchell Street Bridge and continuing north to Bay View's main entrance at Fairview Avenue. MDOT has estimated this project at over \$11M dollars based on the scope of work which includes shifting the alignment of the highway away from the bluff due to erosion issues.

Scope Planned upgrades and improvements as part of this project include new pavements, curb and gutter installations, replacement of water and sanitary sewer mains and components, LED street lighting, traffic signal mast arm installations at MacDonald Drive and US-31 intersection, realignment of Lewis Street, retaining wall reconstruction along Bayfront Drive, sidewalk and bike path additions, landscaping and reconstruction of storm water drainage systems.

Summary The enclosed resolution would authorize the Mayor and City Clerk to execute a contract and maintenance agreements with MDOT for participating costs and fees associated with water and sanitary sewer upgrades, installations and maintenance of traffic signal mast arms and other related necessary work. The work under this contract would be performed by MDOT on behalf of the City of Petoskey as part of the 2019 US-31 Reconstruction Project. For reference, similar contracts and agreements between the City and MDOT have been executed in the past and include such projects as the 2014 US-31/West Mitchell Street reconstruct and the 2015 US-31/Charlevoix Avenue rebuild.

Recommendation City staff recommends that City Council approve the enclosed resolution that would authorize the Mayor and City Clerk to execute a contract with the Michigan Department of Transportation for construction of work associated with the 2019 US-31 Reconstruct Project.

mr Enclosures



WHEREAS, the City Council adopted the 2019 Annual Budget and Capital Improvement Plan 2019-2024 which included \$873,000 within the Water and Sewer Fund for water main and sanitary sewer system improvements, along with \$190,000 within the Electric Fund for street lighting and traffic signal upgrades associated with the Michigan Department of Transportation's (MDOT) 2019 US-31 Reconstruction Project; and

WHEREAS, limits for this project include 1.3 miles of the US-31 corridor beginning at the Mitchell Street Bridge and continuing north to Bay View's main entrance at Fairview Avenue; and

WHEREAS, MDOT has estimated this project at over \$11M dollars based on the scope of the work which includes shifting the alignment of the highway away from the bluff due to erosion issues; and

WHEREAS, planned upgrades and improvements as part of this project include new pavements, curb and gutter installations, replacement of water and sanitary sewer mains and components, LED street lighting, traffic signal mast arm installations at MacDonald Drive and US-31 intersection, realignment of Lewis Street, retaining wall reconstruction along Bayfront Drive, sidewalk and bike path additions, landscaping and reconstruction of storm water drainage systems; and

WHEREAS, the City Council authorizes to enter into a contract and maintenance agreements with MDOT for participating costs and fees associated with the project including water and sanitary sewer upgrades, installations and maintenance of traffic signal mast arms, storm sewer improvements, LED street lighting and any other necessary work as required; and

WHEREAS, the work under this contract would be performed by MDOT on behalf of the City of Petoskey as part of the 2019 US-31 Reconstruction Project:

NOW, THEREFORE BE IT RESOLVED that the Mayor and City Clerk are authorized to execute contract number 18-5351, Control Section NH 24011, Job Number 120219CON and 120219PE with MDOT, and take all other necessary steps to complete the US-31 Reconstruction Project.

State of Michigan)County of Emmet) ss.City of Petoskey)

I, Alan Terry, Clerk of the City of Petoskey, do hereby certify that the foregoing is a true copy of a resolution adopted by the City Council of the City of Petoskey in regular session assembled on the 17th day of December, 2018, and of the whole thereof.

In witness whereof, I have here unto set my hand and affirmed the corporate seal of said City this _____ day of December, 2018.

SPECIAL TRUNKLINE NON-ACT-51 ADDED WORK

DA Control Section Job Number Fed Project # Contract

NH 24011 120219CON; 120219PE 1900(023); 1424(005) 18-5351

THIS CONTRACT is made and entered into this date of ______, by and between the MICHIGAN DEPARTMENT OF TRANSPORTATION, hereinafter referred to as the "DEPARTMENT"; and the CITY OF PETOSKEY, a Michigan municipal corporation, hereinafter referred to as the "CITY"; for the purpose of fixing the rights and obligations of the parties in agreeing to construction improvements in conjunction with the DEPARTMENT'S construction on Highway US-31, within the corporate limits of the CITY.

WITNESSETH:

WHEREAS, the DEPARTMENT is planning reconstruction and realignment work along Highway US-31 from Mitchell Street Bridge to Fairview Avenue within the corporate limits of the CITY; and

WHEREAS, the CITY has requested that the DEPARTMENT perform additional work for and on behalf of the CITY in connection with the Highway US-31 construction, which additional work is hereinafter referred to as the "PROJECT" and is located and described as follows:

PART A – FEDERAL AND STATE PARTICIPATION

Non-motorized path construction along Bayfront Drive from approximately 450 feet northeast of Lake Street northeasterly approximately 800 feet and sidewalk construction along Highway US-31 from the Mitchell Street Bridge northerly to Fairview Avenue, watermain and sanitary sewer work along Highway US-31 from the Mitchell Street Bridge north to Fairview Avenue and traffic signal work Highway US-31 and MacDonald Drive intersection, including brick paver work; together with necessary related work, located within the corporate limits of the CITY; and

PART B – 100% CITY PARTICIPATION

Watermain and sanitary sewer work along Highway US-31 from the Mitchel Street Bridge northerly to Fairview Avenue and signal mast arm betterment work at the Highway US-31 and MacDonald Drive intersection; together with necessary related work, located within the corporate limits of the CITY; and

WHEREAS, the DEPARTMENT presently estimates the PROJECT COST as hereinafter defined in Section 1 to be:

PART A	\$ 765,000
PART B	<u>\$ 687,700</u>
TOTAL	\$1,452,700

WHEREAS, the parties hereto have reached an understanding with each other regarding the performance of the PROJECT work and desire to set forth this understanding in the form of a written Contract.

NOW, THEREFORE, in consideration of the premises and of the mutual undertakings of the parties and in conformity with applicable law, it is agreed:

1. The CITY hereby consents to the designation of the PROJECT as a state trunkline highway. The parties shall undertake and complete the construction of the PROJECT in accordance with this Contract. The term "PROJECT COST", as herein used, is hereby defined as the cost of the construction of the PROJECT including the costs of preliminary engineering (PE), plans and specifications; physical construction necessary for the completion of the PROJECT as determined by the DEPARTMENT; and construction engineering (CE), and any and all other expenses in connection with any of the above.

2. The cost of alteration, reconstruction and relocation, including plans thereof, of certain publicly owned facilities and utilities which may be required for the construction of the PROJECT, shall be included in the PROJECT COST; provided, however, that any part of such cost determined by the DEPARTMENT, prior to the commencement of the work, to constitute a betterment to such facility or utility, shall be borne wholly by the owner thereof.

3. The CITY will approve the design intent of the PROJECT and shall accept full responsibility for the constructed PROJECT functioning as a part of the CITY'S facilities. The CITY is solely responsible for any input which it provides as it relates to the design of the PROJECT functioning as part of the CITY'S facilities.

4. The DEPARTMENT will administer all phases of the PROJECT and will cause to be performed all the PROJECT work.

Any items of PROJECT COST incurred by the DEPARTMENT may be charged to the PROJECT.

5. The PART A portion of the PROJECT COST shall be met in part by contributions from agencies of the Federal Government. The balance of the PART A and B portions of the PROJECT COST, after deduction of Federal Funds, shall be charged to and paid by the DEPARTMENT and the CITY in the following proportions and in the manner and at the times hereinafter set forth:

	PART A	PART B
DEPARTMENT -	100%	0%
CITY -	0%	100%

The PROJECT COST and the respective shares of the parties, after Federal-aid, is estimated to be as follows:

	TOTAL		BALANCE		
	ESTIMATED	FED	AFTER	DEPT'S	CITY'S
	<u>COST</u>	AID	FED AID	SHARE	SHARE
PART A					
Watermain	\$ 138,800	\$113,600	\$ 25,200	\$ 25,200	\$ 0
Sanitary Sewer	\$ 54,800	\$ 44,900	\$ 9,900	\$ 9,900	\$ 0
Traffic Signal	\$ 203,400	\$166,500	\$ 36,900	\$ 36,900	\$ 0
Non-motorized	<u>\$ 368,000</u>	\$301,200	<u>\$ 66,800</u>	<u>\$ 66,800</u>	<u>\$0</u>
Path and Sidewalk					
TOTAL PART A	\$ 765,000	\$626,200	\$138,800	\$138,800	\$ 0
PART B					
Watermain	\$ 296,300	\$ 0	\$296,300	\$ 0	\$296,300
Sanitary Sewer	\$ 334,600	\$ 0	\$334,600	\$ 0	\$334,600
Mast Arm	<u>\$ 56,800</u>	<u>\$0</u>	<u>\$ 56,800</u>	<u>\$0</u>	<u>\$ 56,800</u>
TOTAL PART B	\$ 687,700	\$ 0	\$687,700	\$ 0	\$687,700
TOTAL	\$1,452,700	\$626,200	\$826,500	\$138,800	\$687,700

The PE costs will be apportioned in the same ratio as the actual construction award and the CE costs will be apportioned in the same ratio as the actual direct construction costs.

6. The DEPARTMENT shall maintain and keep accurate records and accounts relative to the cost of the PROJECT. The DEPARTMENT may submit progress billings to the CITY on a monthly basis for the CITY'S share of the cost of work performed to date, less all payments previously made by the CITY not including payments made for a working capital deposit. No monthly billings of a lesser amount than \$1,000 shall be made unless it is a final or end of fiscal year billing. All billings will be labeled either "Progress Bill Number ______", or "Final Billing". Payment is due within 30 days of receipt of invoice. Upon completion of the PROJECT, payment of all items of PROJECT COST and receipt of all Federal Aid, the DEPARTMENT shall make a final billing and accounting to the CITY.

The CITY will deposit with the DEPARTMENT the following amount which will be used by the DEPARTMENT as working capital and applied toward the end of the project for the contracted work and cost incurred by the DEPARTMENT in connection with the PROJECT:

DEPOSIT PART B - \$99,700

The total deposit will be billed to the REQUESTING PARTY by the DEPARTMENT and shall be paid by the REQUESTING PARTY within 30 days after receipt of invoice.

7. Pursuant to the authority granted by law, the CITY hereby irrevocably pledges a sufficient amount of funds received by it from the Michigan Transportation Fund to meet its obligations as specified herein. If the CITY shall fail to make any of its required payments when due, as specified herein, the DEPARTMENT shall immediately notify the CITY of the fact of such default and the amount thereof, and, if such default is not cured by payment within ten (10) days, the DEPARTMENT is then authorized and directed to withhold from the first of such monies thereafter allocated by law to the CITY from the Michigan Transportation Fund sufficient monies to remove the default, and to credit the CITY with payment thereof, and to notify the CITY in writing of such fact.

8. Upon completion of the PART A and B portions of the PROJECT, the CITY shall accept the facilities constructed as built to specifications within the construction documents. It is understood the CITY shall own the facilities and shall operate and maintain the facilities in accordance with applicable law at no cost to the DEPARTMENT. The traffic signal portion of the PART B portion of the PROJECT shall be owned, operated and maintained by the DEPARTMENT.

9. Any and all approvals of, reviews of, and recommendations regarding contracts, agreements, permits, plans, specifications, or documents, of any nature, or any inspections of work by the DEPARTMENT pursuant to the terms of this Contract are done to assist the CITY. Such approvals, reviews, inspections and recommendations by the DEPARTMENT shall not relieve the CITY of its ultimate control and shall not be construed as a warranty of their propriety or that the DEPARTMENT is assuming any liability, control or jurisdiction.

When providing approvals, reviews and recommendations under this Contract, the DEPARTMENT is performing a governmental function, as that term is defined in MCL 691.1401 et seq., as amended, which is incidental to the completion of the PROJECT.

10. In connection with the performance of PROJECT work under this Contract the parties hereto (hereinafter in Appendix "A" referred to as the "contractor") agree to comply with the State of Michigan provisions for "Prohibition of Discrimination in State Contracts", as set forth in Appendix A, attached hereto and made a part hereof. The parties further covenant that they will comply with the Civil Rights Acts of 1964, being P.L. 88-352, 78 Stat. 241, as amended, being Title 42 U.S.C. Sections 1971, 1975a-1975d, and 2000a-2000h-6 and the Regulations of the United States Department of Transportation (49 C.F.R. Part 21) issued pursuant to said Act, including Appendix "B", attached hereto and made a part hereof, and will require similar covenants on the part of any contractor or subcontractor employed in the performance of this Contract. The parties will carry out the applicable requirements of the DEPARTMENT'S Disadvantaged Business Enterprise (DBE) program and 49 CFR, Part 26, including, but not limited to, those requirements set forth in Appendix C.

11. This Contract shall become binding on the parties hereto and of full force and effect upon the signing thereof by the duly authorized officials for the CITY and for the DEPARTMENT; upon the adoption of a resolution approving said Contract and authorizing the signatures thereto of the respective officials of the CITY, a certified copy of which resolution shall be attached to this Contract.

IN WITNESS WHEREOF, the parties hereto have caused this Contract to be executed the day and year first above written.

CITY OF PETOSKEY

MICHIGAN DEPARTMENT OF TRANSPORTATION

By	
Title:	

By____

Department Director MDOT

By	
Title:	



APPROVED By AMP at 1:43 pm, Nov 15, 2018

APPENDIX A PROHIBITION OF DISCRIMINATION IN STATE CONTRACTS

In connection with the performance of work under this contract; the contractor agrees as follows:

- 1. In accordance with Public Act 453 of 1976 (Elliott-Larsen Civil Rights Act), the contractor shall not discriminate against an employee or applicant for employment with respect to hire, tenure, treatment, terms, conditions, or privileges of employment or a matter directly or indirectly related to employment because of race, color, religion, national origin, age, sex, height, weight, or marital status. A breach of this covenant will be regarded as a material breach of this contract. Further, in accordance with Public Act 220 of 1976 (Persons with Disabilities Civil Rights Act), as amended by Public Act 478 of 1980, the contractor shall not discriminate against any employee or applicant for employment with respect to hire, tenure, terms, conditions, or privileges of employment or a matter directly or indirectly related to employment because of a disability that is unrelated to the individual's ability to perform the duties of a particular job or position. A breach of the above covenants will be regarded as a material breach of this contract.
- 2. The contractor hereby agrees that any and all subcontracts to this contract, whereby a portion of the work set forth in this contract is to be performed, shall contain a covenant the same as hereinabove set forth in Section 1 of this Appendix.
- 3. The contractor will take affirmative action to ensure that applicants for employment and employees are treated without regard to their race, color, religion, national origin, age, sex, height, weight, marital status, or any disability that is unrelated to the individual's ability to perform the duties of a particular job or position. Such action shall include, but not be limited to, the following: employment; treatment; upgrading; demotion or transfer; recruitment; advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship.
- 4. The contractor shall, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, national origin, age, sex, height, weight, marital status, or disability that is unrelated to the individual's ability to perform the duties of a particular job or position.
- 5. The contractor or its collective bargaining representative shall send to each labor union or representative of workers with which the contractor has a collective bargaining agreement or other contract or understanding a notice advising such labor union or workers' representative of the contractor's commitments under this Appendix.
- 6. The contractor shall comply with all relevant published rules, regulations, directives, and orders of the Michigan Civil Rights Commission that may be in effect prior to the taking of bids for any individual state project.

- 7. The contractor shall furnish and file compliance reports within such time and upon such forms as provided by the Michigan Civil Rights Commission; said forms may also elicit information as to the practices, policies, program, and employment statistics of each subcontractor, as well as the contractor itself, and said contractor shall permit access to the contractor's books, records, and accounts by the Michigan Civil Rights Commission and/or its agent for the purposes of investigation to ascertain compliance under this contract and relevant rules, regulations, and orders of the Michigan Civil Rights Commission.
- 8. In the event that the Michigan Civil Rights Commission finds, after a hearing held pursuant to its rules, that a contractor has not complied with the contractual obligations under this contract, the Michigan Civil Rights Commission may, as a part of its order based upon such findings, certify said findings to the State Administrative Board of the State of Michigan, which State Administrative Board may order the cancellation of the contract found to have been violated and/or declare the contractor ineligible for future contracts with the state and its political and civil subdivisions, departments, and officers, including the governing boards of institutions of higher education, until the contractor complies with said order of the Michigan Civil Rights Commission. Notice of said declaration of future ineligibility may be given to any or all of the persons with whom the contractor is declared ineligible to contract as a contracting party in future contracts. In any case before the Michigan Civil Rights Commission in which cancellation of an existing contract is a possibility, the contracting agency shall be notified of such possible remedy and shall be given the option by the Michigan Civil Rights Commission to participate in such proceedings.
- 9. The contractor shall include or incorporate by reference, the provisions of the foregoing paragraphs (1) through (8) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Michigan Civil Rights Commission; all subcontracts and purchase orders will also state that said provisions will be binding upon each subcontractor or supplier.

Revised June 2011

APPENDIX B TITLE VI ASSURANCE

During the performance of this contract, the contractor, for itself, its assignees, and its successors in interest (hereinafter referred to as the "contractor"), agrees as follows:

- 1. <u>Compliance with Regulations</u>: For all federally assisted programs, the contractor shall comply with the nondiscrimination regulations set forth in 49 CFR Part 21, as may be amended from time to time (hereinafter referred to as the Regulations). Such Regulations are incorporated herein by reference and made a part of this contract.
- 2. <u>Nondiscrimination</u>: The contractor, with regard to the work performed under the contract, shall not discriminate on the grounds of race, color, sex, or national origin in the selection, retention, and treatment of subcontractors, including procurements of materials and leases of equipment. The contractor shall not participate either directly or indirectly in the discrimination prohibited by Section 21.5 of the Regulations, including employment practices, when the contractor covers a program set forth in Appendix B of the Regulations.
- 3. <u>Solicitation for Subcontracts, Including Procurements of Materials and Equipment</u>: All solicitations made by the contractor, either by competitive bidding or by negotiation for subcontract work, including procurement of materials or leases of equipment, must include a notification to each potential subcontractor or supplier of the contractor's obligations under the contract and the Regulations relative to nondiscrimination on the grounds of race, color, or national origin.
- 4. <u>Information and Reports</u>: The contractor shall provide all information and reports required by the Regulations or directives issued pursuant thereto and shall permit access to its books, records, accounts, other sources of information, and facilities as may be determined to be pertinent by the Department or the United States Department of Transportation (USDOT) in order to ascertain compliance with such Regulations or directives. If required information concerning the contractor is in the exclusive possession of another who fails or refuses to furnish the required information, the contractor shall certify to the Department or the USDOT, as appropriate, and shall set forth the efforts that it made to obtain the information.
- 5. <u>Sanctions for Noncompliance</u>: In the event of the contractor's noncompliance with the nondiscrimination provisions of this contract, the Department shall impose such contract sanctions as it or the USDOT may determine to be appropriate, including, but not limited to, the following:
 - a. Withholding payments to the contractor until the contractor complies; and/or
 - b. Canceling, terminating, or suspending the contract, in whole or in part.

6. <u>Incorporation of Provisions</u>: The contractor shall include the provisions of Sections (1) through (6) in every subcontract, including procurement of material and leases of equipment, unless exempt by the Regulations or directives issued pursuant thereto. The contractor shall take such action with respect to any subcontract or procurement as the Department or the USDOT may direct as a means of enforcing such provisions, including sanctions for non-compliance, provided, however, that in the event a contractor becomes involved in or is threatened with litigation from a subcontractor or supplier as a result of such direction, the contractor may request the Department to enter into such litigation to protect the interests of the state. In addition, the contractor may request the United States to enter into such litigation to protect the interests of the interests of the interests of the states.

Revised June 2011

APPENDIX C

TO BE INCLUDED IN ALL FINANCIAL ASSISTANCE AGREEMENTS WITH LOCAL AGENCIES

Assurance that Recipients and Contractors Must Make (Excerpts from US DOT Regulation 49 CFR 26.13)

A. Each financial assistance agreement signed with a DOT operating administration (or a primary recipient) must include the following assurance:

The recipient shall not discriminate on the basis of race, color, national origin, or sex in the award and performance of any US DOT-assisted contract or in the administration of its DBE program or the requirements of 49 CFR Part 26. The recipient shall take all necessary and reasonable steps under 49 CFR Part 26 to ensure nondiscrimination in the award and administration of US DOT-assisted contracts. The recipient's DBE program, as required by 49 CFR Part 26 and as approved by US DOT, is incorporated by reference in this agreement. Implementation of this program is a legal obligation and failure to carry out its terms shall be treated as Upon notification to the a violation of this agreement. recipient of its failure to carry out its approved program, the department may impose sanctions as provided for under Part 26 and may, in appropriate cases, refer the matter for enforcement under 18 U.S.C. 1001 and/or the Program Fraud Civil Remedies Act of 1986 (31 U.S.C. 3801 et seq.).

B. Each contract MDOT signs with a contractor (and each subcontract the prime contractor signs with a subcontractor) must include the following assurance:

The contractor, sub recipient or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of US DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the recipient deems appropriate.



City of Petoskey

BOARD:	City Council		
MEETING DATE:	December 17, 2018	PREPARED:	December 11, 2018
AGENDA SUBJECT:	Budget-Amendment Resolution		
RECOMMENDATION:	That the City Council ado	ot the enclosed	proposed resolution

<u>Summary</u> At the end of each fiscal year, the City Council is routinely asked to formally adopt amendments to the Annual Budget. As noted below, these amendments are necessitated by a variety of circumstances, and in many cases are administrative changes to formally reflect previously approved actions and priorities.

Proposed Amendments

<u>General Fund</u> Amendments to the Parks and Recreation portion of the General Fund budget is necessary due to exterior work performed on City Hall (\$60,000), increased costs for the downtown restroom construction (\$50,000) and increased marina gas sales (\$115,000), which is offset in increased revenues.

<u>Library Fund</u> Additional expenditures include Building Repair and Maintenance for roof repairs to the Carnegie Building, gutters on the main building, along with an LED lighting project for a total of \$52,000. Contracted services also increased by \$13,800 from \$30,700 to \$44,500.

<u>Amendments</u> The City Council will be asked to adopt the enclosed proposed resolution that would amend total budget amounts in 2018 for the General Fund and Library Fund.

at Enclosure



City of Petoskey

WHEREAS, at the close of the City's 2018 fiscal year, the City staff has determined that expenditures within one City fund is anticipated to differ from amounts that had been budgeted for:

NOW, THEREFORE, BE IT RESOLVED that expenditures within the General Fund and Library Fund be adjusted as follows:

	Original	Amendment	Difference
General Fund Expenditures:			
Parks and Recreation	<u>\$2,632,200</u>	<u>\$2,857,200</u>	<u>\$225,000</u>
Total General Fund	<u>\$8,414,400</u>	<u>\$8,639,400</u>	<u>\$225,000</u>
Library Fund Expenditures:			
Library	<u>\$1,406,800</u>	<u>\$1,492,000</u>	<u>\$ 85,200</u>